

# V O Y A G E

TO THE

# PACIFIC OCEAN.

UNDERTAKEN,

BY THE COMMAND OF HIS MAJESTY,

FOR MAKING

# Discoveries in the Northern Hemisphere.

Performed under the Direction of Captains COOK, ELERKE, and GORE, In His Majesty's Ships the Refolution and Discovery; in the Years 1776, 1777, 1778, 1779, and 1780.

IN THREE VOLUMES.

VOL. I, and II. written by Captain JAMES COOK, F.R.S. VOL. III. by Captain JAMES KING, LL.D. and F.R.S.

Published by Order of the Lords Commissioners of the Admiralty.

THE SECOND EDITION.



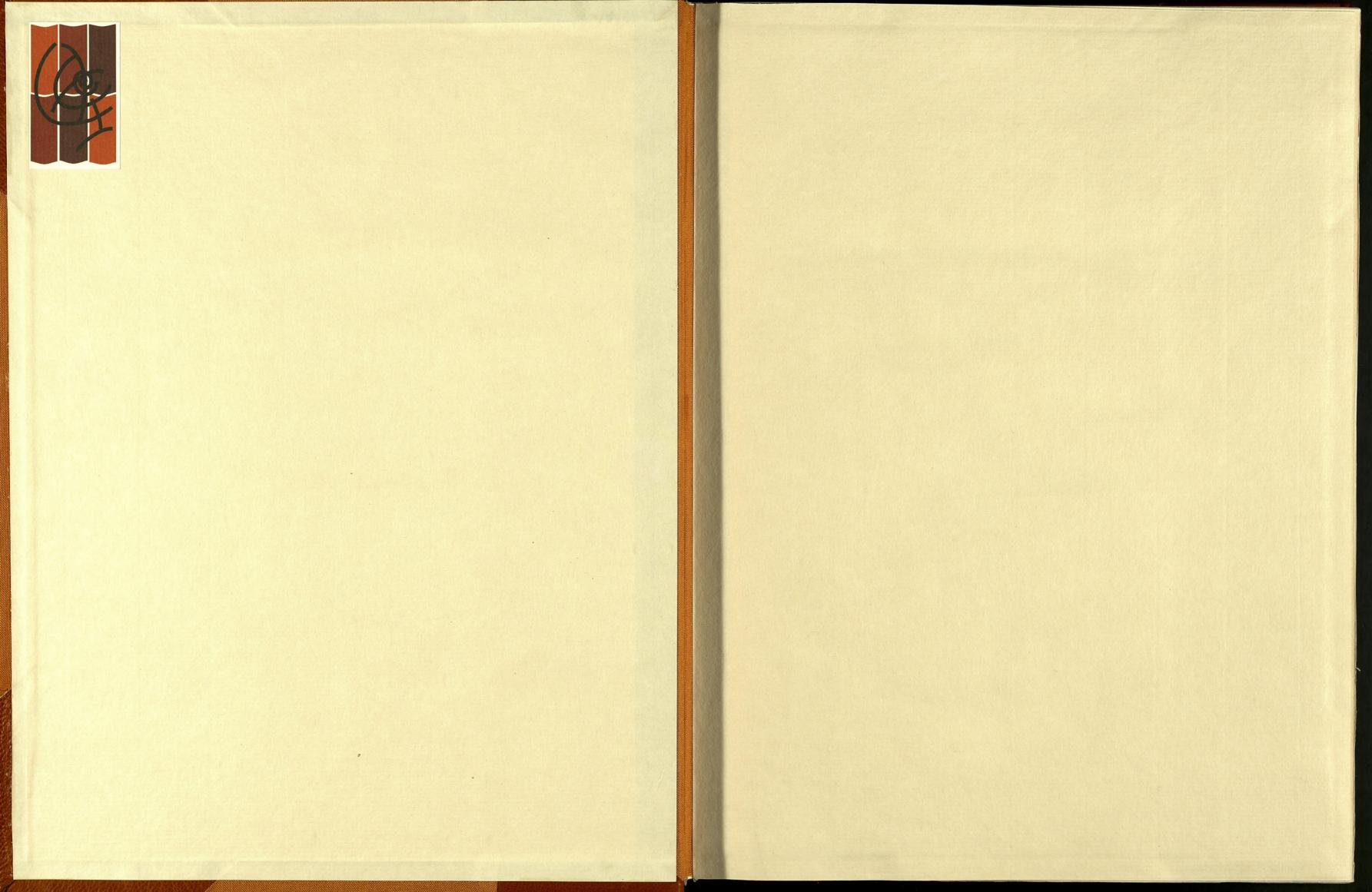
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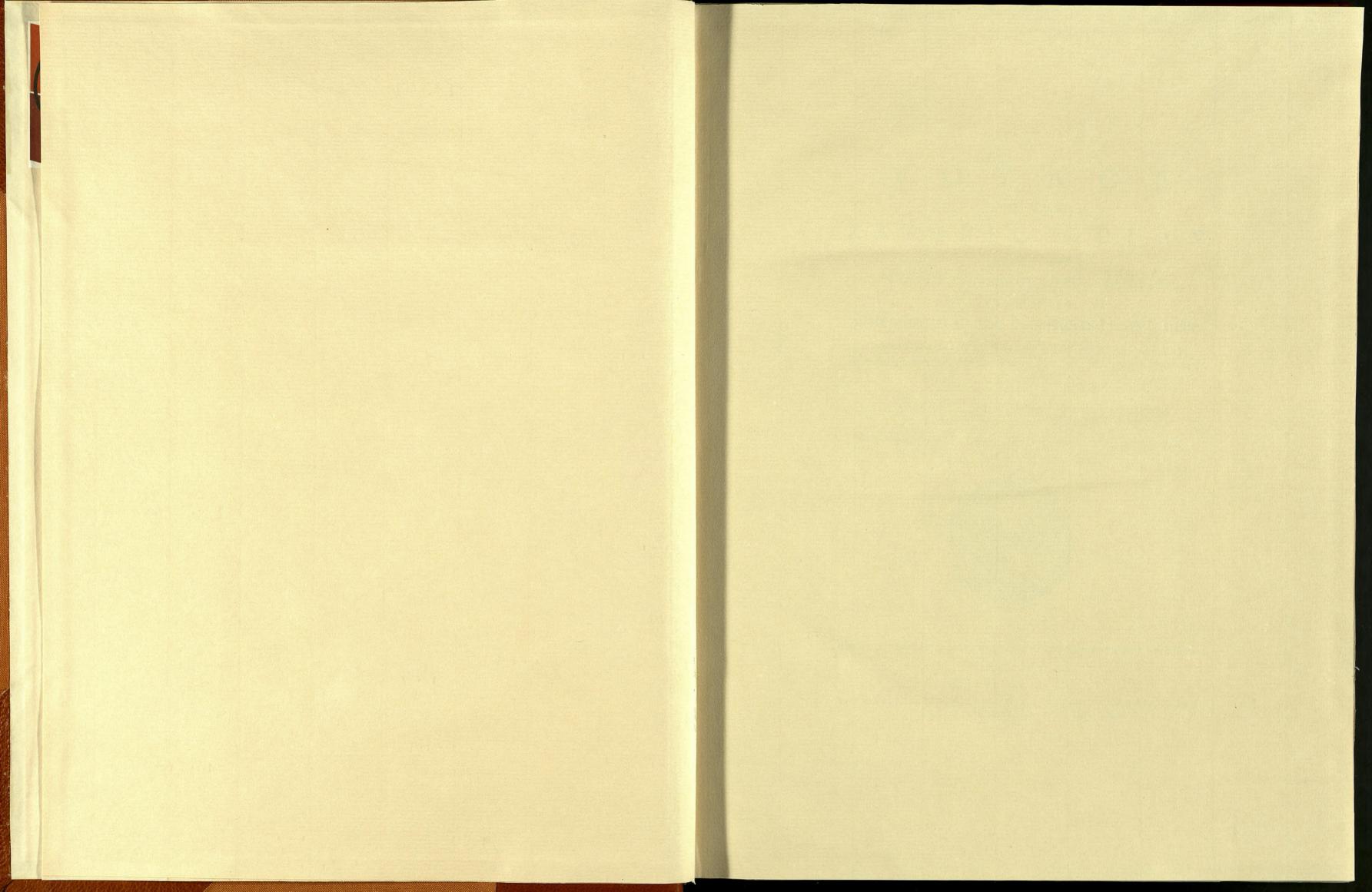
LONDON:

PRINTED BY H. HUGHS,

FOR G. NICOL, BOOKSELLER TO HIS MAJESTY, IN THE STRAND;
AND T. CADELL, IN THE STRAND.

M. DCC. LXXXV.





A

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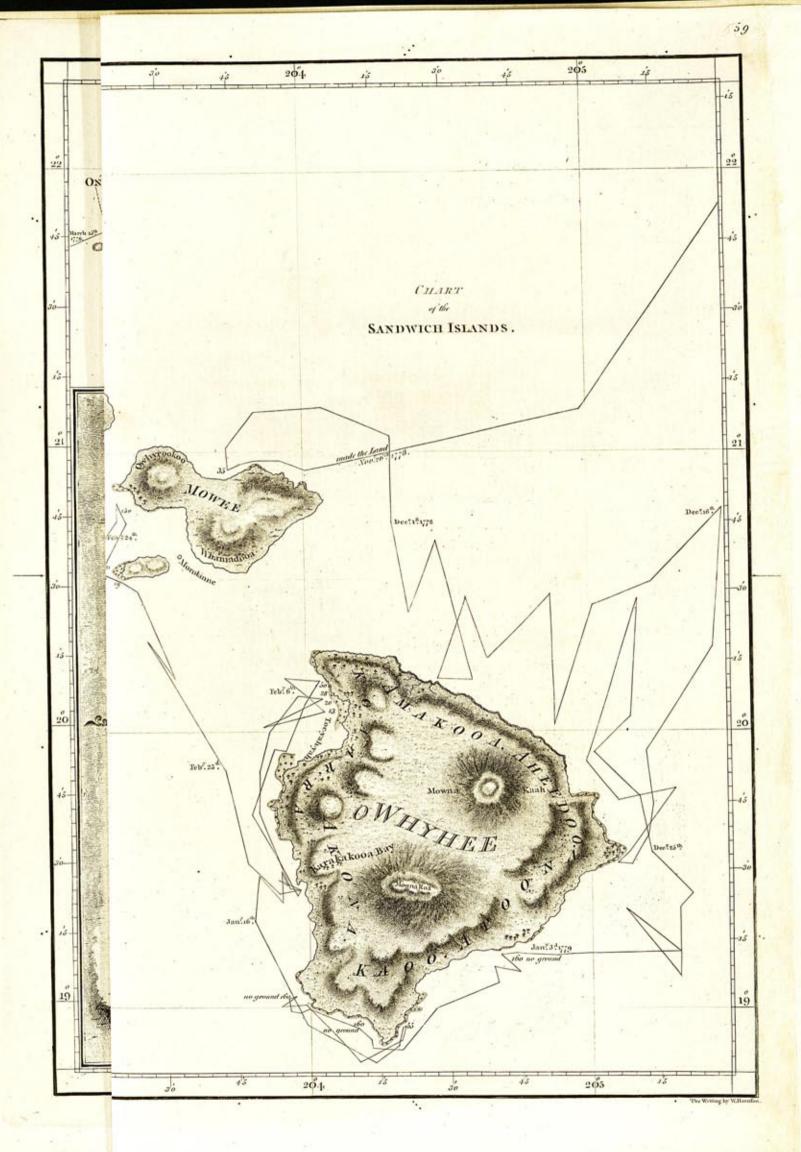
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ARAKAKOOA Bay is fituated on the West fide of the island of Owhyhee, in a district called Akona. It is about a mile in depth, and bounded by two low Sunday 17. points of land, at the distance of half a league, and bearing South South East and North North West from each other. YoL. III.

On the North point, which is flat and barren, flands the village of Kowrowa; and in the bottom of the bay, near a grove of tall cocoa-nut trees, there is another village of a more confiderable fize, called Kakooa: between them runs a high rocky cliff, inacceffible from the fea shore. On the South fide, the coast, for about a mile inland, has a rugged appearance; beyond which the country rifes with a gradual afcent, and is overfpread with cultivated inclosures and groves of cocoa-nut trees, where the habitations of the natives are scattered in great numbers. The shore, all round the bay, is covered with a black coral rock, which makes the landing very dangerous in rough weather; except at the village of Kakooa, where there is a fine fandy beach, with a Morai, or burying-place, at one extremity, and a fmall well of fresh water, at the other. This bay appearing to Captain Cook a proper place to refit the ships, and lay in an additional fupply of water and provisions, we moored on the North fide, about a quarter of a mile from the shore, Kowrowa bearing West North West.

As foon as the inhabitants perceived our intention of anchoring in the bay, they came off from the shore in astonishing numbers, and expressed their joy by singing and shouting, and exhibiting a variety of wild and extravagant gestures. The sides, the decks, and rigging of both ships were soon completely covered with them; and a multitude of women and boys, who had not been able to get canoes, came swimming round us in shoals; many of whom not sinding room on board, remained the whole day playing in the water.

Among the chiefs who came on board the Resolution, was a young man, called Pareea, whom we soon perceived to be a person of great authority. On presenting himself to Captain

Captain Cook, he told him, that he was fakanee \* to the king of the island, who was at that time engaged on a military expedition at Mowee, and was expected to return within three or four days. A few prefents from Captain Cook attached him entirely to our interests, and he became exceedingly ufeful to us in the management of his countrymen, as we had foon occasion to experience. For we had not been long at anchor, when it was observed that the Difcovery had fuch a number of people hanging on one fide, as occasioned her to heel confiderably; and that the men were unable to keep off the crowds which continued preffing into her. Captain Cook, being apprehensive that the might fuffer fome injury, pointed out the danger to Pareea, who immediately went to their affiftance, cleared the ship of its incumbrances, and drove away the canoes that furrounded her.

The authority of the chiefs over the inferior people appeared from this incident to be of the most despotic kind. A similar instance of it happened the same day on board the Resolution; where the crowd being so great, as to impede the necessary business of the ship, we were obliged to have recourse to the assistance of Kaneena, another of their chiefs, who had likewise attached himself to Captain Cook. The inconvenience we laboured under being made known, he immediately ordered his countrymen to quit the vessel; and we were not a little surprized to see them jump overboard, without a moment's hesitation; all except one man, who loitering behind, and shewing some unwillingness to obey,

<sup>\*</sup> We afterward met with several others of the same denomination; but whether it be an office, or some degree of affinity, we could never learn with certainty.

Kaneena took him up in his arms, and threw him into the fea.

Both these chiefs were men of strong and well-proportioned bodies, and of countenances remarkably pleasing. Kaneena especially, whose portrait Mr. Webber has drawn, was one of the finest men I ever saw. He was about six feet high, had regular and expressive features, with lively, dark eyes; his carriage was easy, firm, and graceful.

It has been already mentioned, that during our long cruife off this ifland, the inhabitants had always behaved with great fairness and honesty in their dealings, and had not shewn the slightest propensity to thest; which appeared to us the more extraordinary, because those with whom we had hitherto held any intercourse, were of the lowest rank, either fervants or fishermen. We now found the case exceedingly altered. The immenfe crowd of islanders, which blocked up every part of the ships, not only afforded frequent opportunity of pilfering without risk of discovery, but our inferiority in number held forth a profpect of escaping with impunity in case of detection. Another circumstance, to which we attributed this alteration in their behaviour, was the prefence and encouragement of their chiefs; for, generally tracing the booty into the poffession of some men of consequence, we had the strongest reason to fuspect that these depredations were committed at their instigation.

Soon after the Refolution had got into her station, our two friends, Pareea and Kaneena, brought on board a third chief, named Koah, who, we were told, was a priest, and had been, in his youth, a distinguished warrior. He was a little old man, of an emaciated figure; his eyes exceedingly

ingly fore and red, and his body covered with a white leprous fourf, the effects of an immoderate use of the ava. Being led into the cabin, he approached Captain Cook with great veneration, and threw over his shoulders a piece of red cloth, which he had brought along with him. Then stepping a few paces back, he made an offering of a small pig, which he held in his hand, whilft he pronounced a discourse that lasted for a considerable time. This ceremony was frequently repeated during our ftay at Owhyhee, and appeared to us, from many circumstances, to be a fort of religious adoration. Their idols we found always arrayed with red cloth, in the fame manner as was done to Captain Cook; and a small pig was their usual offering to the Eatooas. Their fpeeches, or prayers, were uttered too with a readiness and volubility that indicated them to be according to fome formulary.

When this ceremony was over, Koah dined with Captain Cook, eating plentifully of what was fet before him; but, like the reft of the inhabitants of the iflands in these Seas, could scarcely be prevailed on to taste a second time our wine or spirits. In the evening, Captain Cook, attended by Mr. Bayly and myself, acompanied him on shore. We landed at the beach, and were received by four men, who carried wands tipt with dog's hair, and marched before us, pronouncing with a loud voice a short sentence, in which we could only distinguish the word Orono \*. The crowd, which had been collected on the shore, retired at our ap-

<sup>\*</sup> Captain Cook generally went by this name amongst the natives of Owhyhee; but we could never learn its precise meaning. Sometimes they applied it to an invisible being, who, they said, lived in the heavens. We also found that it was a title belonging to a personage of great rank and power in the island, who resembles pretty much the Delai Lama of the Tartars, and the ecclesiastical emperor of Japan.

proach; and not a person was to be seen, except a few lying prostrate on the ground, near the huts of the adjoining village.

Before I proceed to relate the adoration that was paid to Captain Cook, and the peculiar ceremonies with which he was received on this fatal island, it will be necessary to defcribe the Morai, fituated, as I have already mentioned, at the South fide of the beach at Kakooa. It was a fquare folid pile of stones, about forty yards long, twenty broad, and fourteen in height. The top was flat, and well paved, and furrounded by a wooden rail, on which were fixed the fculls of the captives, facrificed on the death of their chiefs. In the centre of the area, flood a ruinous old building of wood, connected with the rail, on each fide, by a ftone wall, which divided the whole space into two parts. On the fide next the country, were five poles, upward of twenty feet high, fupporting an irregular kind of fcaffold; on the opposite fide, toward the fea, flood two fmall houses, with a covered communication.

We were conducted by Koah to the top of this pile by an eafy afcent, leading from the beach to the North West corner of the area. At the entrance, we saw two large wooden images, with features violently distorted, and a long piece of carved wood, of a conical form inverted, rising from the top of their heads; the rest was without form, and wrapped round with red cloth. We were here met by a tall young man with a long beard, who presented Captain Cook to the images, and after chanting a kind of hymn, in which he was joined by Koah, they led us to that end of the Morai, where the five poles were fixed. At the foot of them were twelve images ranged in a semicircular form, and before the middle figure stood a high stand

fland or table, exactly refembling the Whatta \* of Otaheite, on which lay a putrid hog, and under it pieces of fugarcane, cocoa-nuts, bread-fruit, plantains, and fweet potatoes. Koah having placed the Captain under this stand, took down the hog, and held it toward him; and after having a fecond time addressed him in a long speech, pronounced with much vehemence and rapidity, he let it fall on the ground, and led him to the fcaffolding, which they began to climb together, not without great risk of falling. At this time we faw, coming in folemn proceffion, at the entrance of the top of the Morai, ten men carrying a live hog, and a large piece of red cloth. Being advanced a few paces, they stopped, and prostrated themselves; and Kaireekeea, the young man above-mentioned, went to them, and receiving the cloth, carried it to Koah, who wrapped it round the Captain, and afterward offered him the hog, which was brought by Kaireekeea with the fame ceremony.

Whilft Captain Cook was aloft, in this aukward fituation, fwathed round with red cloth, and with difficulty keeping his hold amongft the pieces of rotten fcaffolding, Kaireekeea and Koah began their office, chanting fometimes in concert, and fometimes alternately. This lafted a confiderable time; at length Koah let the hog drop, when he and the Captain descended together. He then led him to the images before mentioned, and having said something to each in a sneering tone, snapping his singers at them as he passed, he brought him to that in the centre, which, from its being covered with red cloth, appeared to be in greater estimation than the rest. Before this figure he prostrated himself, and kissed it, desiring Captain Cook to do the same; who

\* See Captain Cook's former Voyage.

fuffered

fuffered himself to be directed by Koah throughout the whole of this ceremony.

We were now led back into the other division of the Morai, where there was a space, ten or twelve feet square, funk about three feet below the level of the area. Into this we descended, and Captain Cook was seated between two wooden idols, Koah supporting one of his arms, whilst I was defired to support the other. At this time, arrived a fecond proceffion of natives, carrying a baked hog, and a pudding, fome bread-fruit, cocoa-nuts, and other vegetables. When they approached us, Kaireekeea put himfelf at their head, and prefenting the pig to Captain Cook in the usual manner, began the same kind of chant as before, his companions making regular responses. We obferved, that after every response, their parts became gradu--ally shorter, till, toward the close, Kaireekeea's confisted of only two or three words, which the rest answered by the word Orono.

When this offering was concluded, which lasted a quarter of an hour, the natives fat down fronting us, and began to cut up the baked hog, to peel the vegetables, and break the cocoa-nuts; whilft others employed themselves in brewing the ava; which is done by chewing it, in the fame manner as at the Friendly Islands. Kaireekeea then took part of the kernel of a cocoa-nut, which he chewed, and wrapping it in a piece of cloth, rubbed with it the Captain's face, head, hands, arms, and shoulders. The ava was then handed round, and after we had tafted it, Koah and Pareea began to pull the flesh of the hog in pieces, and to put it into our mouths. I had no great objection to being fed by Pareea, who was very cleanly in his person; but Captain Cook, who was ferved by Koah, recollecting the putrid

putrid hog, could not fwallow a morfel; and his reluctance, as may be supposed, was not diminished, when the old man, according to his own mode of civility, had chewed it for him.

When this last ceremony was finished, which Captain Cook put an end to as foon as he decently could, we quitted the Morai, after distributing amongst the people some pieces of iron and other trifles, with which they feemed highly gratified. The men with wands conducted us to the boats, repeating the fame words as before. The people again retired, and the few that remained, proftrated themselves as we paffed along the shore. We immediately went on board, our minds full of what we had feen, and extremely well fatisfied with the good disposition of our new friends. The meaning of the various ceremonies, with which we had been received, and which, on account of their novelty and fingularity, have been related at length, can only be the fubject of conjectures, and those uncertain and partial: they were, however, without doubt, expressive of high refpect on the part of the natives; and, as far as related to the person of Captain Cook, they seemed approaching to adoration.

The next morning, I went on shore with a guard of eight Monday 18. marines, including the corporal and lieutenant, having orders to erect the observatory in such a situation as might best enable me to superintend and protect the waterers, and the other working parties that were to be on shore. As we were viewing a fpot conveniently fituated for this purpose, in the middle of the village, Pareea, who was always ready to shew both his power and his good-will, offered to pull down fome houses that would have obstructed our obfervations. However, we thought it proper to decline this VOL. III.

offer, and fixed on a field of fweet potatoes adjoining to the Morai, which was readily granted us; and the priefts, to prevent the intrusion of the natives, immediately consecrated the place, by fixing their wands round the wall by which it was inclosed.

This fort of religious interdiction they call taboo; a word we heard often repeated, during our stay amongst these iflanders, and found to be of very powerful and extensive operation. A more particular explanation of it will be given in the general account of these islands, under the article of religion; at prefent it is only necessary to observe, that it procured us even more privacy than we defired. No canoes ever prefumed to land near us; the natives fat on the wall, but none offered to come within the tabooed space, till he had obtained our permission. But though the men, at our request, would come across the field with provisions, yet not all our endeavours could prevail on the women to approach us. Prefents were tried, but without effect; Pareea and Koah were tempted to bring them, but in vain; we were invariably answered, that the Eatooa and Terreeoboo (which was the name of their king) would kill them. This circumstance afforded no small matter of amusement to our friends on board, where the crowds of people, and particularly of women, that continued to flock thither, obliged them almost every hour to clear the vessel, in order to have room to do the necessary duties of the ship. On these occasions, two or three hundred women were frequently made to jump into the water at once, where they continued fwimming and playing about, till they could again procure admittance.

Tuefday 19.

From the 19th to the 24th, when Pareea and Koah left us to attend Terreeoboo, who had landed on fome other

10

part

part of the island, nothing very material happened on board. The caulkers were fet to work on the fides of the January. ships, and the rigging was carefully overhauled and repaired. The falting of hogs for fea-store was also a constant, and one of the principal objects of Captain Cook's attention. As the fuccess we met with in this experiment, during our prefent voyage, was much more complete than it had been in any former attempt of the fame kind, it may not be improper to give an account of the detail of the operation.

It has generally been thought impracticable to cure the flesh of animals by falting, in tropical climates; the progress of putrefaction being so rapid, as not to allow time for the falt to take (as they express it) before the meat gets a taint, which prevents the effect of the pickle. We do not find that experiments relative to this fubject have been made by the navigators of any nation before Captain Cook. In his first trials, which were made in 1774, during his fecond voyage to the Pacific Ocean, the fuccess he met with, though very imperfect, was yet fufficient to convince him of the error of the received opinion. As the voyage, in which he was now engaged, was likely to be protracted a year beyond the time for which the ships had been victualled, he was under the necessity of providing, by some such means, for the fubfistence of the crews, or of relinquishing the further profecution of his discoveries. He therefore lost no opportunity of renewing his attempts, and the event answered his most fanguine expectations.

The hogs, which we made use of for this purpose, were of various fizes, weighing from four to twelve stone \*. The time of flaughtering was always in the afternoon; and as

foon

foon as the hair was fcalded off, and the entrails removed, the hog was divided into pieces of four or eight pounds each, and the bones of the legs and chine taken out; and, in the larger fort, the ribs alfo. Every piece then being carefully wiped and examined, and the veins cleared of the coagulated blood, they were handed to the falters, whilft the flesh remained still warm. After they had been well rubbed with falt, they were placed in a heap, on a stage raised in the open air, covered with planks, and preffed with the heaviest weights we could lay on them. In this fituation they remained till the next evening, when they were again well wiped and examined, and the fuspicious parts taken away. They were then put into a tub of ftrong pickle, where they were always looked over once or twice a day, and if any piece had not taken the falt, which was readily discovered by the smell of the pickle, they were immediately taken out, re-examined, and the found pieces put to fresh pickle. This, however, after the precautions before used, feldom happened. After fix days, they were taken out, examined for the last time, and being again flightly preffed, they were packed in barrels, with a thin layer of falt between them. I brought home with me fome barrels of this pork, which was pickled at Owhyhee in January 1779, and was tafted by feveral perfons in England about Christmas 1780, and found perfectly found and wholefome \*.

I fhall

I shall now return to our transactions on shore at the observatory, where we had not been long settled before we discovered, in our neighbourhood, the habitations of a society of priests, whose regular attendance at the Morai had excited our curiosity. Their huts stood round a pond of water, and were surrounded by a grove of cocoa-nut trees, which separated them from the beach and the rest of the village, and gave the place an air of religious retirement. On my acquainting Captain Cook with these circumstances, he resolved to pay them a visit; and, as he expected to be received in the same manner as before, he brought Mr. Webber with him to make a drawing of the ceremony.

On his arrival at the beach, he was conducted to a facred building called *Harre-no-Orono*, or the house of *Orono*, and feated before the entrance, at the foot of a wooden idol, of the same kind with those on the *Morai*. I was here again made to support one of his arms; and, after wrapping him in red cloth, Kaireekeea, accompanied by twelve priefts, made an offering of a pig with the usual solemnities. The pig was then strangled, and a fire being kindled, it was thrown into the embers, and after the hair was singed off, it was again presented, with a repetition of the chanting,

maica with the beef ferved by the victualling office to the ships, but not with the same success, which he attributes to the want of the necessary precautions in killing and handling the beafts; to their being hung up and opened before they had sufficient time to bleed, by which means the blood-vessels were exposed to the air, and the blood condensed before it had time to empty itsels; and to their being hard driven and bruised. He adds, that having himsels attended to the killing of an ox, which was carefully taken on board the Martin, he salted a part of it, which at the end of the week was found to have taken the salt completely, and he has no doubt would have kept for any length of time; but the experiment was not tried.

<sup>\*</sup> Since these papers were prepared for the press, I have been informed by Mr. Vancouver, who was one of my Midshipmen in the Discovery, and was afterward appointed Lieutenant of the *Martin* sloop of war, that he tried the method here recommended, both with English and Spanish pork, during a cruize on the Spanish Main, in the year 1782, and succeeded to the utmost of his expectations. He also made the experiment at Ja-

<sup>\*</sup> See Plate, Numb. LX.

in the manner before described. The dead pig was then held for a short time under the Captain's nose; after which it was laid, with a cocoa-nut, at his feet, and the performers sat down. The ava was then brewed, and handed round; a fat hog, ready dressed, was brought in; and we were fed as before.

During the rest of the time we remained in the bay, whenever Captain Cook came on shore, he was attended by one of these priests, who went before him, giving notice that the Orono had landed, and ordering the people to proftrate themselves. The same person also constantly accompanied him on the water, standing in the bow of the boat, with a wand in his hand, and giving notice of his approach to the natives, who were in canoes, on which they immediately left off paddling, and lay down on their faces till he had paffed. Whenever he stopped at the observatory, Kaireekeea and his brethren immediately made their appearance with hogs, cocoa-nuts, bread-fruit, &c. and prefented them with the usual folemnities. It was on these occasions that some of the inferior chiefs frequently requested to be permitted to make an offering to the Orono. When this was granted, they prefented the hog themselves, generally with evident marks of fear in their countenances; whilft Kaireekeea and the priefts chanted their accustomed hymns.

The civilities of this fociety were not, however, confined to mere ceremony and parade. Our party on shore received from them, every day, a constant supply of hogs and vegetables, more than sufficient for our subsistence; and several canoes loaded with provisions were sent to the ships with the same punctuality. No return was ever demanded, or even hinted at in the most distant manner. Their presents

were made with a regularity, more like the discharge of a religious duty, than the effect of mere liberality; and when we inquired at whose charge all this munificence was displayed, we were told, it was at the expence of a great man called Kaoo, the chief of the priests, and grandfather to Kaireekeea, who was at that time absent attending the king of the island.

As every thing relating to the character and behaviour of this people must be interesting to the reader, on account of the tragedy that was afterward acted here, it will be proper to acquaint him, that we had not always fo much reafon to be fatisfied with the conduct of the warrior chiefs, or Earees, as with that of the priefts. In all our dealings with the former, we found them fufficiently attentive to their own interests; and besides their habit of stealing, which may admit of some excuse, from the universality of the practice amongst the islanders of these seas, they made use of other artifices equally dishonourable. I shall only mention one inftance, in which we discovered, with regret, our friend Koah to be a party principally concerned. As the chiefs, who brought us prefents of hogs, were always fent back handfomely rewarded, we had generally a greater fupply than we could make use of. On these occasions, Koah, who never failed in his attendance on us, used to beg fuch as we did not want, and they were always given to him. It one day happened, that a pig was prefented us by a man whom Koah himfelf introduced as a chief, who was defirous of paying his respects, and we recollected the pig to be the same that had been given to Koah just before. This leading us to fuspect some trick, we found, on further inquiry, the pretended chief to be an ordinary person; and on connecting this with other circumstances, we had reason

to fuspect, that it was not the first time we had been the dupes of the like imposition.

Sunday-24.

Things continued in this flate till the 24th, when we were a good deal furprized to find that no canoes were fuffered to put off from the shore, and that the natives kept close to their houses. After several hours suspence, we learned that the bay was tabooed, and all intercourfe with us interdicted, on account of the arrival of Terreeoboo. As we had not foreseen an accident of this fort, the crews of both ships were obliged to pass the day without Monday 25. their usual supply of vegetables. The next morning, therefore, they endeavoured, both by threats and promifes, to induce the natives to come along-fide; and as fome of them were at last venturing to put off, a chief was obferved attempting to drive them away. A mufquet was immediately fired over his head, to make him defift, which had the defired effect, and refreshments were soon after purchased as usual. In the afternoon, Terreeoboo arrived, and visited the ships in a private manner, attended only by one canoe, in which were his wife and children. He staid on board till near ten o'clock, when he returned to the village of Kowrowa.

Tuefday 26.

The next day, about noon, the king, in a large canoe, attended by two others, fet out from the village, and paddled toward the ships in great state. Their appearance was grand and magnificent. In the first canoe was Terreeoboo and his chiefs, dreffed in their rich feathered cloaks and helmets, and armed with long spears and daggers; in the fecond, came the venerable Kaoo, the chief of the priests, and his brethren, with their idols displayed on red cloth. These idols were busts of a gigantic fize, made of wicker-work, and curioufly covered with fmall feathers of various

various colours, wrought in the fame manner with their cloaks. Their eyes were made of large pearl oysters, with a black nut fixed in the centre; their mouths were fet with a double row of the fangs of dogs, and, together with the rest of their features, were strangely distorted. The third canoe was filled with hogs and various forts of vegetables. As they went along, the priests in the centre canoe fung their hymns with great folemnity; and after paddling round the ships, instead of going on board, as was expected, they made toward the shore at the beach where we were stationed \*.

As foon as I faw them approaching, I ordered out our little guard to receive the king; and Captain Cook, perceiving that he was going on shore, followed him, and arrived nearly at the fame time. We conducted them into the tent, where they had fcarcely been feated, when the king rofe up, and in a very graceful manner threw over the Captain's shoulders the cloak he himself wore, put a feathered helmet upon his head, and a curious fan into his hand. He alfo fpread at his feet five or fix other cloaks, all exceedingly beautiful, and of the greatest value. His attendants then brought four very large hogs, with fugar-canes, cocoa-nuts, and bread-fruit; and this part of the ceremony was concluded by the king's exchanging names with Captain Cook, which, amongst all the islanders of the Pacific Ocean, is efteemed the strongest pledge of friendship. A procession of priefts, with a venerable old personage at their head, now appeared, followed by a long train of men leading large hogs, and others carrying plantains, fweet potatoes, &c. By the looks and gestures of Kaireekeea, I immediately

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knew

<sup>\*</sup> This curious ceremony is represented in the annexed print. The presents were made to Captain Cook after he went on shore.

knew the old man to be the chief of the priefts before mentioned, on whose bounty we had so long subsisted. He had a piece of red cloth in his hands, which he wrapped round Captain Cook's shoulders, and afterwards presented him with a fmall pig in the ufual form. A feat was then made for him, next to the king, after which, Kaireekeea and his followers began their ceremonies, Kaoo and the chiefs joining in the responses.

I was furprized to fee, in the person of this king, the fame infirm and emaciated old man, that came on board the Resolution when we were off the North East side of the island of Mowee; and we foon discovered amongst his attendants most of the persons who at that time had remained with us all night. Of this number were the two younger fons of the king, the eldest of whom was fixteen years of age, and his nephew Maiha-Maiha, whom at first we had some difficulty in recollecting, his hair being plastered over with a dirty brown paste and powder, which was no mean heightening to the most favage face I ever beheld.

As foon as the formalities of the meeting were over, Captain Cook carried Terreeoboo, and as many chiefs as the pinnace could hold, on board the Refolution. They were received with every mark of respect that could be fhewn them; and Captain Cook, in return for the feathered cloak, put a linen shirt on the king, and girt his own hanger round him. The ancient Kaoo, and about half a dozen more old chiefs, remained on shore, and took up their abode at the priests houses. During all this time, not a canoe was feen in the bay, and the natives either kept within their huts, or lay proftrate on the ground. Before the king left the Resolution, Captain Cook obtained leave

for the natives to come and trade with the ships as usual; but the women, for what reason we could not learn, still January. continued under the effects of the taboo; that is, were forbidden to ftir from home, or to have any communication



CHAP. D 2

## CHAP. II.

Farther Account of Transactions with the Natives.—Their Hospitality.—Propensity to Theft.—Description of a Boxing Match.—Death of one of our Seamen.—Behaviour of the Priests at his Funeral.—The Wood Work and Images on the Morai purchased.—The Natives inquisitive about our Departure.—Their Opinion about the Design of our Voyage.—Magnificent Presents of Terreeoboo to Captain Cook.—The Ships leave the Island.—The Resolution damaged in a Gale, and obliged to return.

January. Tuefday 26.

THE quiet and inoffensive behaviour of the natives having taken away every apprehension of danger, we did not hefitate to trust ourselves amongst them at all times, and in all fituations. The officers of both fhips went daily up the country, in fmall parties, or even fingly, and frequently remained out the whole night. It would be endless to recount all the inftances of kindness and civility which we received upon those occasions. Wherever we went, the people flocked about us, eager to offer every affiftance in their power, and highly gratified if their fervices were accepted. Various little arts were practifed to attract our notice, or to delay our departure. The boys and girls ran before, as we walked through their villages, and stopped us at every opening, where there was room to form a group for dancing. At one time, we were invited to accept a draught of cocoa-nut milk, or some other refreshment, under

under the shade of their huts; at another, we were seated within a circle of young women, who exerted all their skill and agility to amuse us with songs and dances.

January.

The fatisfaction we derived from their gentleness and hospitality, was, however, frequently interrupted by that propenfity to flealing, which they have in common with all the other islanders of these seas. This circumstance was the more diffreffing, as it fometimes obliged us to have recourse to acts of severity, which we should willingly have avoided, if the necessity of the case had not absolutely called for them. Some of their most expert swimmers were one day discovered under the ships, drawing out the filling nails of the sheathing, which they performed very dexterously by means of a short stick, with a flint stone fixed in the end of it. To put a stop to this practice, which endangered the very existence of the vessels, we at first fired small shot at the offenders; but they eafily got out of our reach by diving under the ship's bottom. It was therefore found necesfary to make an example, by flogging one of them on board the Difcovery.

About this time, a large party of gentlemen, from both ships, set out on an excursion into the interior parts of the country, with a view of examining its natural productions. An account of this journey will be given in a subsequent part of our narrative. It is, therefore, only necessary at present to observe, that it afforded Kaoo a fresh opportunity of shewing his attention and generosity. For as soon as he was informed of their departure, he sent a large supply of provisions after them, together with orders, that the inhabitants of the country through which they were to pass, should give them every affistance in their power. And, to complete the delicacy and disinterestedness of his conduct, even the

people he employed could not be prevailed on to accept
the fmallest present. After remaining out six days, our
Officers returned, without having been able to penetrate

above twenty miles into the island; partly from want of proper guides, and partly from the impracticability of the

country.

rotten.

Wedness 27

The head of the Refolution's rudder being found exceedingly shaken, and most of the pintles either loose or broken, it was unhung, and sent on shore, on the 27th in the morning, to undergo a thorough repair. At the same time the carpenters were sent into the country, under conduct of some of Kaoo's people, to cut planks for the head rail work, which was also entirely decayed and

Thurfday 28.

On the 28th, Captain Clerke, whose ill health confined him, for the most part, on board, paid Terreeoboo his first visit, at his hut on shore. He was received with the same formalities as were observed with Captain Cook; and, on his coming away, though the visit was quite unexpected, he received a present of thirty large hogs, and as much fruit and roots as his crew could consume in a week.

As we had not yet feen any thing of their fports or athletic exercises, the natives, at the request of some of our Officers, entertained us this evening with a boxing-match. Though these games were much inferior, as well in point of solemnity and magnificence, as in the skill and powers of the combatants, to what we had seen exhibited at the Friendly Islands; yet, as they differed in some particulars, it may not be improper to give a short account of them. We found a vast concourse of people assembled on a level spot of ground, at a little distance from our tents. A long space was left vacant in the midst of them, at the upper end of which

which fat the judges, under three standards, from which hung flips of cloth of various colours, the fkins of two wild geefe, a few small birds, and bunches of feathers. When the fports were ready to begin, the fignal was given by the judges, and immediately two combatants appeared. They came forward flowly, lifting up their feet very high behind, and drawing their hands along the foles. As they approached, they frequently eyed each other from head to foot, in a contemptuous manner, cafting feveral arch looks at the spectators, straining their muscles, and using a variety of affected gestures. Being advanced within reach of each other, they flood with both arms held out ftraight before their faces, at which part all their blows were aimed. They ftruck, in what appeared to our eyes an awkward manner, with a full fwing of the arm; made no attempt to parry, but eluded their adversary's attack by an inclination of the body, or by retreating. The battle was quickly decided; for if either of them was knocked down, or even fell by accident, he was confidered as vanquished, and the victor expressed his triumph by a variety of gestures, which ufually excited, as was intended, a loud laugh among the spectators. He then waited for a second antagonist; and if again victorious, for a third, till he was, at last, in his turn, defeated. A fingular rule observed in these combats is, that whilft any two are preparing to fight, a third perfon may step in, and choose either of them for his antagonist, when the other is obliged to withdraw. Sometimes three or four followed each other in this manner, before the match was fettled. When the combat proved longer than usual, or appeared too unequal, one of the chiefs generally stepped in, and ended it by putting a stick between the combatants. The fame good-humour was preferved through-

throughout, which we before fo much admired in the Friendly Islanders. As these games were given at our defire, we found it was univerfally expected, that we should have borne our part in them; but our people, though much preffed by the natives, turned a deaf ear to their challenge, remembering full well the blows they got at the Friendly Islands.

This day died William Watman, a feaman of the gunner's crew; an event which I mention the more particularly, as death had hitherto been very rare amongst us. He was an old man, and much respected on account of his attachment to Captain Cook. He had formerly ferved as a marine twenty-one years; after which he entered as a feaman on board the Refolution in 1772, and ferved with Captain Cook in his voyage toward the South Pole. At their return, he was admitted into Greenwich hospital, through the Captain's interest, at the same time with himself; and being refolved to follow throughout the fortunes of his benefactor, he also quitted it along with him, on his being appointed to the command of the prefent expedition. During the voyage, he had frequently been fubject to flight fevers, and was a convalescent when we came into the bay, where being fent on shore for a few days, he conceived himself perfectly recovered, and, at his own defire, returned on board; but the day following, he had a paralytic stroke, which in two days more carried him off.

At the request of the king of the island, he was buried on the Morai, and the ceremony was performed with as much folemnity as our fituation permitted. Old Kaoo and his brethren were spectators, and preserved the most profound filence and attention, whilft the fervice was reading. When

When we began to fill up the grave, they approached it with great reverence, threw in a dead pig, fome cocoanuts, and plantains; and, for three nights afterward, they furrounded it, facrificing hogs, and performing their usual ceremonies of hymns and prayers, which continued till day-break.

At the head of the grave, we erected a post, and nailed upon it a fquare piece of board, on which was infcribed the name of the deceased, his age, and the day of his death. This they promifed not to remove; and we have no doubt. but that it will be fuffered to remain, as long as the frail materials, of which it is made, will permit.

The ships being in great want of fuel, the Captain defired me, on the 2d of February, to treat with the priests, Tuesday 2. for the purchase of the rail, that surrounded the top of the Morai. I must confess, I had, at first, some doubt about the decency of this propofal, and was apprehensive, that even the bare mention of it might be confidered, by them, as a piece of shocking impiety. In this, however, I found myfelf miftaken. Not the fmallest furprize was expressed at the application, and the wood was readily given, even without stipulating for any thing in return. Whilst the failors were taking it away, I observed one of them carrying off a carved image; and, on further inquiry, I found, that they had conveyed to the boats the whole \* femicircle. Though this was done in the prefence of the natives, who had not fhewn any mark of refentment at it, but had even affifted them in the removal, I thought it proper to fpeak to Kaoo, on the fubject; who appeared very indifferent about the matter, and only defired, that we would restore the centre

\* See description of the Morai, in the preceding Chapter.

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image,

February.

image, I have mentioned before, which he carried into one of the priest's houses.

Terreeoboo, and his Chiefs, had for fome days past, been very inquisitive about the time of our departure. This circumstance had excited in me a great curiofity to know, what opinion this people had formed of us, and what were their ideas respecting the cause and objects of our voyage. I took fome pains to fatisfy myfelf on these points; but could never learn any thing farther, than that they imagined we came from fome country where provisions had failed; and that our visit to them was merely for the purpose of filling our bellies. Indeed, the meagre appearance of fome of our crew, the hearty appetites with which we fat down to their fresh provisions, and our great anxiety to purchase, and carry off, as much as we were able, led them, naturally enough, to fuch a conclusion. To these may be added, a circumfrance which puzzled them exceedingly, our having no women with us; together with our quiet conduct, and unwarlike appearance. It was ridiculous enough to fee them stroking the fides, and patting the bellies of the failors (who were certainly much improved in the fleekness of their looks, during our fhort flay in the ifland), and telling them, partly by figns, and partly by words, that it was time for them to go; but if they would come again the next bread-fruit feafon, they should be better able to supply their wants. We had now been fixteen days in the bay; and if our enormous confumption of hogs and vegetables be confidered, it need not be wondered, that they should wish to fee us take our leave. It is very probable, however, that Terreeoboo had no other view, in his inquiries, at prefent, than a defire of making fufficient preparation for difmiffing

us with prefents, fuitable to the respect and kindness with which he had received us. For, on our telling him we should leave the island on the next day but one, we observed, that a fort of proclamation was immediately made, through the villages, to require the people to bring in their hogs, and vegetables, for the king to prefent to the Orono, on his departure.

We were this day much diverted, at the beach, by the buffooneries of one of the natives. He held in his hand an instrument, of the fort described in the last volume \*; fome bits of fea-weed were tied round his neck; and round each leg, a piece of ftrong netting, about nine inches deep, on which a great number of dogs' teeth were loofely fastened, in rows. His style of dancing was entirely burlefque, and accompanied with ftrange grimaces, and pantomimical diffortions of the face; which though at times inexpressibly ridiculous, yet, on the whole, was without much meaning, or expression. Mr. Webber thought it worth his while to make a drawing of this person, as exhibiting a tolerable specimen of the natives; the manner in which the maro is tied; the figure of the instrument before mentioned, and of the ornaments round the legs, which, at other times, we also faw used by their dancers.

In the evening, we were again entertained with wreftling and boxing matches; and we displayed, in return, the few fireworks we had left. Nothing could be better calculated to excite the admiration of these islanders, and to impress them with an idea of our great superiority, than an exhibition of this kind. Captain Cook has already described the extraordinary effects of that which was made at Hapaee; and though the present was, in every respect, infinitely

\* See Vol. ii. p. 236.

inferior,

inferior, yet the aftonishment of the natives was not lefs.

I have before mentioned, that the carpenters, from both ships, had been fent up the country to cut planks, for the head-rail-work of the Refolution. This was the third day fince their departure; and having received no intelligence from them, we began to be very anxious for their fafety. We were communicating our apprehensions to old Kaoo, who appeared as much concerned as ourfelves, and were concerting measures with him, for fending after them, when they arrived all fafe. They had been obliged to go farther into the country than was expected, before they met with trees fit for their purpose; and it was this circumftance, together with the badness of the roads, and the difficulty of bringing back the timber, which had detained them fo long. They fpoke in high terms of their guides, who both fupplied them with provisions, and guarded their tools with the utmost fidelity.

The next day, being fixed for our departure, Terreeoboo-Wednes. 3. invited Captain Cook and myself to attend him, on the 3d, to the place where Kaoo refided. On our arrival, we found the ground covered with parcels of cloth; a vaft quantity of red and yellow feathers, tied to the fibres of cocoa-nut husks; and a great number of hatchets, and other pieces of iron-ware, that had been got in barter from us. At a little distance from these, lay an immense quantity of vegetables, of every kind, and near them was a large herd of hogs. At first, we imagined the whole to be intended as a present for us, till Kaireekeea informed me, that it was a gift, or tribute, from the people of that district to the king; and, accordingly, as foon as we were feated, they brought all the bundles, and laid them feverally at Terreeoboo's feet; fpread-

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ing out the cloth, and difplaying the feathers, and ironware, before him. The king feemed much pleafed with this mark of their duty; and having felected about a third part of the iron-ware, the same proportion of feathers, and a few pieces of cloth, these were set aside, by themselves; and the remainder of the cloth, together with all the hogs and vegetables, were afterward prefented to Captain Cook, and myself. We were astonished at the value and magnitude of this prefent, which far exceeded every thing of the kind we had feen, either at the Friendly or Society Islands. Boats were immediately fent, to carry them on board; the large hogs were picked out, to be falted for fea-store; and upward of thirty fmaller pigs, and the vegetables, were divided between the two crews.

The fame day, we quitted the Morai, and got the tents and aftronomical inftruments on board. The charm of the taboo was now removed; and we had no fooner left the place. than the natives rushed in, and fearched eagerly about, in expectation of finding fomething of value, that we might have left behind. As I happened to remain the laft on shore, and waited for the return of the boat, feveral came crowding about me, and having made me fit down by them, began to lament our feparation. It was, indeed, not without difficulty, I was able to quit them. And here, I hope I may be permitted to relate a trifling occurrence, in which I was principally concerned. Having had the command of the party on shore, during the whole time we were in the bay, I had an opportunity of becoming better acquainted with the natives, and of being better known to them, than those whose duty required them to be generally on board. As I had every reason to be satisfied with their kindness, in general, so I cannot too often, nor too particularly,

cularly, mention the unbounded and conftant friendship of their priefts.

On my part, I spared no endeavours to conciliate their affections, and gain their efteem; and I had the good fortune to fucceed fo far, that, when the time of our departure was made known, I was ftrongly folicited to remain behind, not without offers of the most flattering kind. When I excused myfelf, by faying, that Captain Cook would not give his confent, they proposed, that I should retire into the mountains; where, they faid, they would conceal me, till after the departure of the fhips; and on my farther affuring them, that the Captain would not leave the bay without me, Terreeoboo and Kaoo waited upon Captain Cook, whose fon they supposed I was, with a formal request, that I might be left behind. The Captain, to avoid giving a positive refufal, to an offer fo kindly intended, told them, that he could not part with me, at that time, but that he should return to the island next year, and would then endeavour to fettle the matter to their fatisfaction.

Early in the morning of the 4th, we unmoored, and failed out of the bay, with the Discovery in company, and were followed by a great number of canoes. Captain Cook's defign was to finish the survey of Owhyhee, before he visited the other islands, in hopes of meeting with a road better sheltered, than the bay we had just left; and in case of not fucceeding here, he purposed to take a view of the South East part of Mowee, where the natives informed us we fhould find an excellent harbour.

We had calm weather all this and the following day, which made our progress to the Northward very flow. We were accompanied by a great number of the natives in their canoes; and Terreeoboo gave a fresh proof of his friendship

friendship to Captain Cook, by a large present of hogs, and vegetables, that was fent after him.

In the night of the 5th, having a light breeze off the land, we made fome way to the Northward; and in the morning of the 6th, having passed the Westernmost point of the Saturday 6. island, we found ourselves abreast of a deep bay, called by the natives Toe-yah-yah. We had great hopes, that this bay would furnish us with a fafe and commodious harbour, as we faw, to the North East, several fine streams of water; and the whole had the appearance of being well sheltered. These observations agreeing with the accounts given us by Koah, who accompanied Captain Cook, and had changed his name, out of compliment to us, into Britannee, the pinnace was hoisted out, and the Master, with Britannee for his guide, was fent to examine the bay, whilft the ships worked up after them.

In the afternoon, the weather became gloomy, and the gusts of wind, that blew off the land, were so violent, as to make it necessary to take in all the fails, and bring to, under the mizen stay-sail. All the canoes left us, at the beginning of the gale; and Mr. Bligh, on his return, had the fatisfaction of faving an old woman, and two men, whose canoe had been overfet by the violence of the wind, as they were endeavouring to gain the shore. Besides these diftreffed people, we had a great many women on board, whom the natives had left behind, in their hurry to shift for themselves.

The Mafter reported to Captain Cook, that he had landed at the only village he faw, on the North fide of the bay, where he was directed to some wells of water; but found, they would by no means answer our purpose; that he afterward proceeded farther into the bay, which runs inland to

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a great depth, and ftretches toward the foot of a very confpicuous high mountain, fituated on the North West end of the island; but that instead of meeting with fafe anchorage, as Britannee had taught him to expect, he found the shores low and rocky, and a flat bed of coral rocks running along the coast, and extending upward of a mile from the land: on the outfide of which the depth of water was twenty fathoms, over a fandy bottom; and that, in the mean time, Britannee had contrived to flip away, being afraid of returning, as we imagined, because his information had not proved true.

In the evening, the weather being more moderate, we again made fail; but about midnight it blew fo violently, as to fplit both the fore and main topfails. On the morning of Sunday 7. the 7th, we bent fresh fails, and had fair weather, and a light breeze. At noon, the latitude, by observation, was 20° 1' North, the West point of the island bearing South, 7° East, and the North West point North, 38° East. As we were, at this time, four or five leagues from the shore, and the weather very unfettled, none of the canoes would venture out, fo that our guests were obliged to remain with us, much indeed to their diffatisfaction; for they were all feafick, and many of them had left young children behind them.

> In the afternoon, though the weather was still fqually, we flood in for the land, and being about three leagues from it, we faw a canoe, with two men paddling toward us, which we immediately conjectured had been driven off the shore by the late boisterous weather; and therefore stopped the ship's way, in order to take them in. These poor wretches were fo entirely exhaufted with fatigue, that had not one of the natives on board, observing their weakness, jumped

jumped into the canoe to their affiftance, they would fcarcely have been able to fasten it to the rope we had thrown out for that purpose. It was with difficulty we got them up the fhip's fide, together with a child, about four years old, which they had lashed under the thwarts of the canoe, where it had lain with only its head above water. They told us, they had left the shore the morning before, and had been, from that time, without food or water. The usual precautions were taken in giving them victuals, and the child being committed to the care of one of the women, we found them all next morning perfectly recovered.

At midnight, a gale of wind came on, which obliged us to double reef the topfails, and get down the top-gallant yards. On the 8th, at day-break, we found, that the fore- Monday 8. mast had again given way, the fishes, which were put on the head, in King George's or Nootka Sound, on the coast of America, being fprung, and the parts fo very defective, as to make it absolutely necessary to replace them, and, of course, to unstep the mast. In this difficulty, Captain Cook was for some time in doubt, whether he should run the chance of meeting with a harbour in the islands to leeward, or return to Karakakooa. That bay was not fo remarkably commodious, in any respect, but that a better might probably be expected, both for the purpose of repairing the masts, and for procuring refreshments, of which, it was imagined, that the neighbourhood of Karakakooa had been already pretty well drained. On the other hand, it was confidered as too great a rifk to leave a place, that was tolerably sheltered, and which, once left, could not be regained, for the mere hopes of meeting with a better; the failure of which might perhaps have left us without refource.

We therefore continued standing on toward the land, in VOL. III.

order to give the natives an opportunity of releafing their friends on board from their confinement; and, at noon, being within a mile of the shore, a few canoes came off to us, but fo crowded with people, that there was not room in them for any of our guests; we therefore hoisted out the pinnace to carry them on shore; and the Master, who went with them, had directions to examine the South coasts of the bay for water; but returned without finding any.

The winds being variable, and a current fetting strong to the Northward, we made but little progress in our return; Tuefday 9. and at eight o'clock in the evening of the 9th, it began to blow very hard from the South East, which obliged us to Wednes. 10. close reef the topsails; and at two in the morning of the 10th, in a heavy fquall, we found ourselves close in with the breakers, that lie to the Northward of the West point of Owhyhee. We had just room to haul off, and avoid them, and fired feveral guns to apprize the Difcovery of the danger.

In the forenoon, the weather was more moderate, and a few canoes came off to us, from which we learnt, that the late ftorms had done much mischief; and that several large canoes had been loft. During the remainder of the day, we kept beating to windward; and, before night, we were within a mile of the bay; but not choosing to run on, while Thursday 11. it was dark, we stood off and on till day-light next morning, when we dropt anchor nearly in the fame place as before.

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Suspicious Behaviour of the Natives, on our Return to Karakakooa Bay .- Theft on board the Discovery, and its Consequences .- The Pinnace attacked, and the Crew obliged to quit ber .- Captain Cook's Observations on the Occasion .-Attempt at the Observatory .- The Cutter of the Discovery stolen .- Measures taken by Captain Cook for its Recovery .-Goes on Shore, to invite the King on board .- The King being stopped by bis Wife, and the Chiefs, a Contest arises .-News arrives of one of the Chiefs being killed, by one of our People.—Ferment on this Occasion.—One of the Chiefs threatens Captain Cook, and is shot by bim .- General Attack by the Natives .- Death of Captain Cook .- Account of the Captain's Services, and a Sketch of his Character.

TITE were employed the whole of the 11th, and part of the 12th, in getting out the foremast, and fending February. it, with the carpenters, on shore. Besides the damage Thursday 11. which the head of the mast had sustained, we found the heel exceedingly rotten, having a large hole up the middle of it, capable of holding four or five cocoa-nuts. It was not, however, thought necessary to shorten it; and fortunately, the logs of red toa-wood, which had been cut at Eimeo, for anchor-stocks, were found fit to replace the fprung parts of the fifhes. As thefe repairs were likely to

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1779. February. take up feveral days, Mr. Bayly and myfelf got the aftronomical apparatus on shore, and pitched our tents on the Morai; having with us a guard of a corporal and fix marines. We renewed our friendly correspondence with the priests, who, for the greater security of the workmen, and their tools, tabooed the place where the mast lay, sticking their wands round it, as before. The sailmakers were also sent on shore, to repair the damages which had taken place in their department, during the late gales. They were lodged in a house adjoining to the Morai, that was lent us by the priests. Such were our arrangements on shore. I shall now proceed to the account of those other transactions with the natives, which led, by degrees, to the fatal catastrophe of the 14th.

Upon coming to anchor, we were furprized to find our reception very different from what it had been on our first arrival; no shouts, no bustle, no confusion; but a solitary bay, with only here and there a canoe stealing close along the shore. The impulse of curiosity, which had before operated to so great a degree, might now indeed be supposed to have ceased; but the hospitable treatment we had invariably met with, and the friendly sooting on which we parted, gave us some reason to expect, that they would again have slocked about us with great joy, on our return.

We were forming various conjectures, upon the occasion of this extraordinary appearance, when our anxiety was at length relieved by the return of a boat, which had been fent on shore, and brought us word, that Terreeoboo was absent, and had left the bay under the taboo. Though this account appeared very satisfactory to most of us; yet others were of opinion, or rather, perhaps, have been led, by subfequent events, to imagine that there was something, at

this time, very fuspicious in the behaviour of the natives; and that the interdiction of all intercourse with us, on pretence of the king's absence, was only to give him time to confult with his Chiefs, in what manner it might be proper to treat us. Whether these suspicions were well founded, or the account given by the natives was the truth, we were never able to afcertain. For though it is not improbable, that our fudden return, for which they could fee no apparent cause, and the necessity of which we afterward found it very difficult to make them comprehend, might occasion fome alarm; yet the unfuspicious conduct of Terreeoboo, who, on his supposed arrival, the next morning, came immediately to vifit Captain Cook, and the confequent return of the natives to their former friendly intercourse with us, are ftrong proofs, that they neither meant, nor apprehended, any change of conduct.

In support of this opinion, I may add the account of another accident, precifely of the fame kind, which happened to us on our first visit, the day before the arrival of the king. A native had fold a hog on board the Refolution, and taken the price agreed on, when Pareea, paffing by, advifed the man not to part with the hog, without an advanced price. For this, he was fharply fpoken to, and pushed away; and the taboo being soon after laid on the bay, we had at first no doubt, but that it was in confequence of the offence given to the Chief. Both these accidents ferve to fhew, how very difficult it is to draw any certain conclusion from the actions of people, with whose customs, as well as language, we are so imperfectly acquainted; at the fame time, fome idea may be formed from them, of the difficulties, at the first view, perhaps, not very apparent, which those have to encounter, who,

in all their transactions with these strangers, have to steer their course amidst so much uncertainty, where a trifling error may be attended with even the most fatal confequences. However true or false our conjectures may be, things went on in their usual quiet course, till the after-Saturday 13. noon of the 13th.

Toward the evening of that day, the officer who commanded the watering-party of the Discovery, came to inform me, that feveral Chiefs had affembled at the well near the beach, driving away the natives, whom he had hired to affift the failors in rolling down the casks to the shore. He told me, at the fame time, that he thought their behaviour extremely fuspicious, and that they meant to give him fome farther disturbance. At his request, therefore, I sent a marine along with him, but fuffered him to take only his fide-arms. In a fhort time the officer returned, and on his acquainting me, that the islanders had armed themfelves with stones, and were grown very tumultuous, I went myfelf to the fpot, attended by a marine, with his musquet. Seeing us approach, they threw away their stones, and, on my speaking to some of the Chiefs, the mob were driven away, and those who chose it, were fuffered to affift in filling the casks. Having left things quiet here, I went to meet Captain Cook, whom I faw coming on shore, in the pinnace. I related to him what had just paffed; and he ordered me, in case of their beginning to throw stones, or behave infolently, immediately to fire a ball at the offenders. I accordingly gave orders to the corporal, to have the pieces of the fentinels loaded with ball, inftead of fmall fhot.

Soon after our return to the tents, we were alarmed by a continued fire of musquets, from the Discovery, which we

observed to be directed at a canoe, that we faw paddling toward the shore, in great haste, pursued by one of our fmall boats. We immediately concluded, that the firing was in confequence of fome theft, and Captain Cook ordered me to follow him with a marine armed, and to endeavour to feize the people as they came on shore. Accordingly we ran toward the place where we fupposed the canoe would land, but were too late; the people having quitted it, and made their escape into the country before our arrival.

We were at this time ignorant, that the goods had been already reftored; and as we thought it probable, from the circumstances we had at first observed, that they might be of importance, were unwilling to relinquish our hopes of recovering them. Having therefore inquired of the natives, which way the people had fled, we followed them, till it was near dark, when judging ourselves to be about three miles from the tents, and fuspecting, that the natives, who frequently encouraged us in the pursuit, were amufing us with false information, we thought it in vain to continue our fearch any longer, and returned to the beach.

During our absence, a difference, of a more serious and unpleafant nature, had happened. The officer, who had been fent in the fmall boat, and was returning on board, with the goods which had been restored, observing Captain Cook and me engaged in the purfuit of the offenders, thought it his duty to feize the canoe, which was left drawn up on the shore. Unfortunately, this canoe belonged to Pareea, who arriving, at the fame moment, from on board the Difcovery, claimed his property, with many protestations of his innocence. The officer refufing to give it up,

and being joined by the crew of the pinnace, which was waiting for Captain Cook, a fcuffle enfued, in which Pareea was knocked down, by a violent blow on the head, with an oar. The natives, who were collected about the fpot, and had hitherto been peaceable spectators, immediately attacked our people with fuch a shower of stones, as forced them to retreat, with great precipitation, and fwim off to a rock, at some distance from the shore. The pinnace was immediately ranfacked by the islanders; and, but for the timely interpofition of Pareea, who feemed to have recovered from the blow, and forgot it at the fame inftant, would foon have been entirely demolished. Having driven away the crowd, he made figns to our people, that they might come and take possession of the pinnace, and that he would endeavour to get back the things which had been taken out of it. After their departure, he followed them in his canoe, with a midshipman's cap, and some other trifling articles of the plunder, and, with much apparent concern at what had happened, asked, if the Orono would kill him, and whether he would permit him to come on board the next day? On being affured, that he should be well received, he joined nofes (as their custom is) with the officers, in token of friendship, and paddled over to the village of Kowrowa.

When Captain Cook was informed of what had paffed, he expressed much uneafiness at it, and as we were returning on board, "I am afraid," faid he, "that thefe people will oblige me to use some violent measures; for," he added, "they must not be left to imagine, that they have gained an advantage over us." However, as it was too late to take any steps this evening, he contented himself with giving orders, that every man and woman on board should be immediately

immediately turned out of the ship. As soon as this order was executed, I returned on shore; and our former considence in the natives being now much abated, by the events of the day, I posted a double guard on the Morai, with orders to call me, if they faw any men lurking about the beach. At about eleven o'clock, five iflanders were observed creeping round the bottom of the Morai; they feemed very cautious in approaching us, and, at last, finding themfelves discovered, retired out of fight. About midnight, one of them venturing up close to the observatory, the sentinel fired over him; on which the men fled, and we passed the remainder of the night without farther disturbance.

Next morning, at day-light, I went on board the Refolu- Sunday 14. tion for the time-keeper, and, in my way, was hailed by the Discovery, and informed, that their cutter had been stolen, during the night, from the buoy where it was moored.

When I arrived on board, I found the marines arming, and Captain Cook loading his double-barrelled gun. Whilft I was relating to him what had happened to us in the night, he interrupted me, with fome eagerness, and acquainted me with the loss of the Discovery's cutter, and with the preparations he was making for its recovery. It had been his ufual practice, whenever any thing of confequence was loft, at any of the islands in this ocean, to get the king, or some of the principal Erees, on board, and to keep them as hoftages, till it was reftored. This method, which had been always attended with fuccess, he meant to pursue on the prefent occasion; and, at the same time, had given orders to stop all the canoes that should attempt to leave the bay, with an intention of feizing and destroying them, if he could not recover the cutter by peaceable means. Accord-VOL. III. ingly,

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ingly, the boats of both ships, well manned and armed, were stationed across the bay; and, before I left the ship, some great guns had been fired at two large canoes, that were attempting to make their escape.

It was between feven and eight o'clock when we quitted the ship together; Captain Cook in the pinnace, having Mr. Phillips, and nine marines, with him; and myfelf in the fmall boat. The last orders I received from him were, to quiet the minds of the natives, on our fide of the bay, by affuring them, they should not be hurt; to keep my people together; and to be on my guard. We then parted; the Captain went toward Kowrowa, where the king refided; and I proceeded to the beach. My first care, on going ashore, was to give strict orders to the marines to remain within the tent, to load their pieces with ball, and not to quit their arms. Afterward I took a walk to the huts of old Kaoo, and the priefts, and explained to them, as well as I could, the object of the hoftile preparations, which had exceedingly alarmed them. I found, that they had already heard of the cutter's being stolen, and I assured them, that though Captain Cook was refolved to recover it, and to punish the authors of the theft, yet that they, and the people of the village on our fide, need not be under the smallest apprehension of suffering any evil from us. I defired the priefts to explain this to the people, and to tell them not to be alarmed, but to continue peaceable and quiet. Kaoo asked me, with great earnestness, if Terreeoboo was to be hurt? I affured him, he was not; and both he and the rest of his brethren seemed much satisfied with this affurance.

In the mean time, Captain Cook, having called off the launch, which was stationed at the North point of the bay, and

and taken it along with him, proceeded to Kowrowa, and landed with the Lieutenant and nine marines. He immediately marched into the village, where he was received with the usual marks of respect; the people prostrating themfelves before him, and bringing their accustomed offerings of fmall hogs. Finding that there was no fuspicion of his defign, his next step was, to enquire for Terreeoboo, and the two boys, his fons, who had been his conftant guests on board the Refolution. In a fhort time, the boys returned along with the natives, who had been fent in fearch of them, and immediately led Captain Cook to the house where the king had flept. They found the old man just awoke from fleep; and, after a fhort conversation about the lofs of the cutter, from which Captain Cook was convinced that he was in no wife privy to it, he invited him to return in the boat, and fpend the day on board the Refolution. To this propofal the king readily confented, and immediately got up to accompany him.

Things were in this profperous train, the two boys being already in the pinnace, and the rest of the party having advanced near the water-fide, when an elderly woman called Kanee-kabareea, the mother of the boys, and one of the king's favourite wives, came after him, and with many tears, and entreaties, befought him not to go on board. At the fame time, two Chiefs, who came along with her, laid hold of him, and, infifting that he should go no farther, forced him to fit down. The natives, who were collecting in prodigious numbers along the shore, and had probably been alarmed by the firing of the great guns, and the appearances of hostility in the bay, began to throng round Captain Cook and their king. In this fituation, the Lieutenant of marines, observing that his men were huddled G 2 close

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1779. February. close together in the crowd, and thus incapable of using their arms, if any occasion should require it, proposed to the Captain, to draw them up along the rocks, close to the water's edge; and the crowd readily making way for them to pass, they were drawn up in a line, at the distance of about thirty yards from the place where the king was

fitting.

All this time, the old king remained on the ground, with the strongest marks of terror and dejection in his countenance; Captain Cook, not willing to abandon the object for which he had come on shore, continuing to urge him, in the most pressing manner, to proceed; whilst, on the other hand, whenever the king appeared inclined to follow him, the Chiefs, who stood round him, interposed, at first with prayers and entreaties, but afterward having recourse to force and violence, and insisted on his staying where he was. Captain Cook therefore sinding, that the alarm had spread too generally, and that it was in vain to think any longer of getting him off without bloodshed, at last gave up the point; observing to Mr. Phillips, that it would be impossible to compel him to go on board, without the risk of killing a great number of the inhabitants.

Though the enterprize, which had carried Captain Cook on shore, had now failed, and was abandoned, yet his perfon did not appear to have been in the least danger, till an accident happened, which gave a fatal turn to the affair. The boats which had been stationed across the bay, having fired at some canoes, that were attempting to get out, unfortunately had killed a Chief of the first rank. The news of his death arrived at the village where Captain Cook was, just as he had left the king, and was walking slowly toward the shore. The ferment it occasioned was very conspicuous;

the women and children were immediately fent off; and the men put on their war-mats, and armed themselves with fpears and stones. One of the natives, having in his hands a stone, and a long iron spike (which they call a pabooa) came up to the Captain, flourishing his weapon, by way of defiance, and threatening to throw the stone. The Captain defired him to defift; but the man perfifting in his infolence, he was at length provoked to fire a load of small-shot. The man having his mat on, which the shot were not able to penetrate, this had no other effect than to irritate and encourage them. Several stones were thrown at the marines; and one of the Erees attempted to flab Mr. Phillips with his, pabooa; but failed in the attempt, and received from him a blow with the butt end of his mufquet. Captain Cook now fired his fecond barrel, loaded with ball, and killed one of the foremost of the natives. A general attack with stones immediately followed, which was answered by a discharge of musquetry from the marines, and the people in the boats. The islanders, contrary to the expectations of every one, flood the fire with great firmness; and before the marines had time to reload, they broke in upon them with dreadful shouts and yells. What followed was a scene of the utmost horror and confusion.

Four of the marines were cut off amongst the rocks in their retreat, and fell a facrifice to the fury of the enemy; three more were dangerously wounded; and the Lieutenant, who had received a stab between the shoulders with a pabooa, having fortunately referved his fire, shot the man who had wounded him just as he was going to repeat his blow. Our unfortunate Commander, the last time he was seen distinctly, was standing at the water's edge, and calling out to the boats to cease firing, and to pull in. If it be true, as some

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of those who were present have imagined, that the marines and boat-men had fired without his orders, and that he was desirous of preventing any further bloodshed, it is not improbable, that his humanity, on this occasion, proved fatal to him. For it was remarked, that whilst he faced the natives, none of them had offered him any violence, but that having turned about, to give his orders to the boats, he was stabbed in the back, and fell with his face into the water. On seeing him fall, the islanders set up a great shout, and his body was immediately dragged on shore, and surrounded by the enemy, who snatching the dagger out of each other's hands, shewed a savage eagerness to have a share in his destruction.

Thus fell our great and excellent Commander! After a life of fo much diftinguished and fuccessful enterprize, his death, as far as regards himfelf, cannot be reckoned premature; fince he lived to finish the great work for which he feems to have been defigned; and was rather removed from the enjoyment, than cut off from the acquisition, of glory. How fincerely his loss was felt and lamented, by those who had fo long found their general fecurity in his skill and conduct, and every confolation, under their hardships, in his tenderness and humanity, it is neither necessary nor possible for me to describe; much less shall I attempt to paint the horror with which we were struck, and the universal dejection and difmay which followed fo dreadful and unexpected a calamity. The reader will not be displeased to turn from fo fad a fcene, to the contemplation of his character and virtues, whilft I am paying my last tribute to the memory of a dear and honoured friend, in a fhort history of his life, and public fervices.

Captain James Cook was born near Whitby, in Yorkshire,

on the 27th of October, 1728; and, at an early age, was put apprentice to a shopkeeper in a neighbouring village. His natural inclination not having been consulted on this occasion, he soon quitted the counter from disgust, and bound himself, for nine years, to the master of a vessel in the coal trade. At the breaking out of the war in 1755, he entered into the king's service, on board the Eagle, at that time commanded by Captain Hamer, and afterward by Sir Hugh Palliser, who soon discovered his merit, and introduced him on the quarter-deck.

In the year 1758, we find him mafter of the Northumberland, the flag ship of Lord Colville, who had then the command of the fquadron flationed on the coast of America. It was here, as I have often heard him fay, that, during a hard winter, he first read Euclid, and applied himself to the study of mathematics and astronomy, without any other affiftance, than what a few books, and his own industry, afforded him. At the same time, that he thus found means to cultivate and improve his mind, and to fupply the deficiencies of an early education, he was engaged in most of the bufy and active scenes of the war in America. At the fiege of Quebec, Sir Charles Saunders committed to his charge the execution of fervices, of the first importance in the naval department. He piloted the boats to the attack of Montmorency; conducted the embarkation to the Heights of Abraham; examined the paffage, and laid buoys for the fecurity of the large ships in proceeding up the river. The courage and address with which he acquitted himself in these services, gained him the warm friendship of Sir Charles Saunders and Lord Colville, who continued to patronize him, during the rest of their lives, with the greatest zeal and affection. At the conclusion of the war, he was appointed, through

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through the recommendation of Lord Colville and Sir Hugh Pallifer, to furvey the Gulf of St. Laurence, and the coasts of Newfoundland. In this employment he continued till the year 1767, when he was fixed on by Sir Edward Hawke, to command an expedition to the South Seas, for the purpose of observing the transit of *Venus*, and prosecuting discoveries in that part of the globe.

From this period, as his fervices are too well known to require a recital here, so his reputation has proportionably advanced to a height too great to be affected by my panegyrick. Indeed, he appears to have been most eminently and peculiarly qualified for this species of enterprize. The earliest habits of his life, the course of his services, and the constant application of his mind, all conspired to fit him for it, and gave him a degree of professional knowledge, which can fall to the lot of very few.

The conflitution of his body was robust, inured to labour, and capable of undergoing the feverest hardships. His stomach bore, without difficulty, the coarfest and most ungrateful food. Indeed, temperance in him was fcarcely a virtue; fo great was the indifference with which he fubmitted to every kind of felf-denial. The qualities of his mind were of the fame hardy, vigorous kind with those of his body. His understanding was strong and perspicacious. His judgment, in whatever related to the fervices he was engaged in, quick and fure. His defigns were bold and manly; and both in the conception, and in the mode of execution, bore evident marks of a great original genius. His courage was cool and determined, and accompanied with an admirable prefence of mind in the moment of danger. His manners were plain and unaffected. His temper might perhaps have been justly blamed, as subject

to hastiness and passion, had not these been disarmed by a disposition the most benevolent and humane.

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Such were the outlines of Captain Cook's character; but its most distinguishing feature was, that unremitting perfeverance in the pursuit of his object, which was not only superior to the opposition of dangers, and the pressure of hardships, but even exempt from the want of ordinary relaxation. During the long and tedious voyages in which he was engaged, his eagerness and activity were never in the least abated. No incidental temptation could detain him for a moment; even those intervals of recreation, which sometimes unavoidably occurred, and were looked for by us with a longing, that persons, who have experienced the fatigues of service, will readily excuse, were submitted to by him with a certain impatience, whenever they could not be employed in making further provision for the more effectual prosecution of his designs.

It is not necessary, here, to enumerate the instances in which these qualities were displayed, during the great and important enterprizes in which he was engaged. I shall content myself with stating the result of those services, under the two principal heads to which they may be referred, those of geography and navigation, placing each in a separate and distinct point of view.

Perhaps no science ever received greater additions from the labours of a single man, than geography has done from those of Captain Cook. In his first voyage to the South Seas, he discovered the Society Islands; determined the infularity of New Zealand; discovered the straits which separate the two islands, and are called after his name; and made a complete survey of both. He afterward explored the Eastern coast of New Holland, hitherto unknown; an Vol. III.

extent of twenty-feven degrees of latitude, or upward of two thousand miles.

In his fecond expedition, he refolved the great problem of a Southern continent; having traversed that hemisphere between the latitudes of 40° and 70°, in such a manner, as not to leave a possibility of its existence, unless near the pole, and out of the reach of navigation. During this voyage, he discovered New Caledonia, the largest island in the Southern Pacific, except New Zealand; the island of Georgia; and an unknown coast, which he named Sandwich Land, the thule of the Southern hemisphere; and having twice visited the tropical seas, he settled the situations of the old, and made several new discoveries.

But the voyage we are now relating, is diffinguished, above all the rest, by the extent and importance of its difcoveries. Befides feveral fmaller islands in the Southern Pacific, he discovered, to the North of the equinoctial line, the group called the Sandwich Islands; which, from their fituation and productions, bid fairer for becoming an object of confequence, in the fystem of European navigation, than any other discovery in the South Sea. He afterward explored what had hitherto remained unknown of the Western coast of America, from the latitude of 43° to 70° North, containing an extent of three thousand five hundred miles; afcertained the proximity of the two great continents of Afia and America; paffed the straits between them, and furveyed the coast, on each fide, to fuch a height of Northern latitude, as to demonstrate the impracticability of a passage, in that hemisphere, from the Atlantic into the Pacific Ocean, either by an Eastern or a Western course. In short, if we except the fea of Amur, and the Japanese Archipelago, which still remain imperfectly known to Euro-

peans,

peans, he has completed the hydrography of the habitable globe.

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As a navigator, his fervices were not perhaps lefs fplendid; certainly not lefs important and meritorious. The method which he discovered, and so successfully pursued, of preserving the health of seamen, forms a new æra in navigation, and will transmit his name to suture ages, amongst the friends and benefactors of mankind.

Those who are conversant in naval history, need not be told, at how dear a rate the advantages, which have been fought through the medium of long voyages at fea, have always been purchased. That dreadful disorder which is peculiar to this fervice, and whose ravages have marked the tracks of difcoverers with circumstances almost too shocking to relate, must, without exercifing an unwarrantable tyranny over the lives of our feamen, have proved an infuperable obstacle to the profecution of such enterprizes. It was referved for Captain Cook to shew the world, by repeated trials, that voyages might be protracted to the unufual length of three or even four years, in unknown regions, and under every change and rigour of climate, not only without affecting the health, but even without diminishing the probability of life, in the smallest degree. The method he purfued has been fully explained by himfelf, in a paper which was read before the Royal Society, in the year 1776 \*; and whatever improvements the experience of the prefent voyage has fuggested, are mentioned in their proper places.

With respect to his professional abilities, I shall leave them to the judgment of those who are best acquainted with the nature of the services in which he was engaged. They will

<sup>\*</sup> Sir Godfrey Copley's gold medal was adjudged to him, on that occasion.

readily acknowledge, that to have conducted three expeditions of fo much danger and difficulty, of fo unufual a length, and in fuch a variety of fituation, with uniform and invariable fuccess, must have required not only a thorough and accurate knowledge of his business, but a powerful and comprehensive genius, fruitful in resources, and equally ready in the application of whatever the higher and inferior calls of the fervice required.

Having given the most faithful account I have been able to collect, both from my own observation, and the relations of others, of the death of my ever honoured friend, and also of his character and services; I shall now leave his memory to the gratitude and admiration of posterity; accepting, with a melancholy fatisfaction, the honour, which the lofs of him hath procured me, of feeing my name joined with his; and of testifying that affection and respect for his memory, which, whilft he lived, it was no lefs my inclination, than my conftant study, to shew him.

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Transactions at Owbybee, subsequent to the Death of Captain Cook .- Gallant Behaviour of the Lieutenant of Marines .-Dangerous Situation of the Party at the Morai.-Bravery of one of the Natives .- Confultation respecting future Meafures .- Demand of the Body of Captain Cook .- Evafive and infidious Conduct of Koab, and the Chiefs .- Infolent Behaviour of the Natives .- Promotion of Officers .- Arrival of two Priests with Part of the Body .- Extraordinary Bebaviour of two Boys .- Burning of the Village of Kakooa .-Unfortunate Destruction of the Dwellings of the Priests .-Recovery of the Bones of Captain Cook .- Departure from Karakakooa Bay.

TT has been already related, that four of the marines, who attended Captain Cook, were killed by the iflanders on the spot. The rest, with Mr. Phillips, their Lieutenant, Sunday 14. threw themselves into the water, and escaped, under cover of a fmart fire from the boats. On this occasion, a remarkable inftance of gallant behaviour, and of affection for his men, was shewn by that officer. For he had scarcely got into the boat, when, feeing one of the marines, who was a bad fwimmer, ftruggling in the water, and in danger of being taken by the enemy, he immediately jumped into the fea to his affiftance, though much wounded himfelf; and

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after receiving a blow on the head from a stone, which had nearly sent him to the bottom, he caught the man by the hair, and brought him safe off\*.

Our people continued for some time to keep up a constant fire from the boats (which, during the whole transaction, were not more than twenty yards from the land), in order to afford their unfortunate companions, if any of them should still remain alive, an opportunity of escaping. These efforts, seconded by a few guns, that were fired at the same time, from the Resolution, having forced the natives at last to retire, a small boat, manned by sive of our young mid-shipmen, pulled toward the shore, where they saw the bodies, without any signs of life, lying on the ground; but judging it dangerous to attempt to bring them off, with so small a force, and their ammunition being nearly expended, they returned to the ships, leaving them in possession of the islanders, together with ten stands of arms.

As foon as the general confternation, which the news of this calamity occasioned throughout both crews, had a little fubfided, their attention was called to our party at the *Morai*,

\* From the annexed plate, the reader will be enabled to form a very clear and diffinct idea of the fituation of the feveral places mentioned in this and the three last chapters. On the farthest point of land, beyond the ships, to the left, is situated the village of Kowrowa, where Captain Cook was killed. The pile of stones, with a building on the top, at the other extremity of the plate, represents the Morai, where the observatories were erected. Behind the grove of cocoa-nut trees, stood the cloisters of the priests. To the left of these, is part of the village of Kakooa, which was burnt down on the 17th of February; and, farther on, amongst the rocks, at the end of the beach, is the well where we watered. The steep high ground, above the beach, is the hill from which the natives annoyed the waterers, by rolling down stones.

In the fore ground, a native is fwimming on one of the boards, as described in the seventh chapter. The canoes, and the general air of the people, are represented with the greatest truth and fidelity.

where the mast and fails were on shore, with a guard of only fix marines. It is impossible for me to describe the emotions of my own mind, during the time these transactions had been carrying on, at the other fide of the bay. Being at the distance only of a short mile from the village of Kowrowa, we could fee diffinctly an immense crowd collected on the fpot where Captain Cook had just before landed. We heard the firing of the musquetry, and could perceive fome extraordinary buftle and agitation in the multitude. We afterward faw the natives flying, the boats retire from the shore, and passing and repassing, in great stillness, between the ships. I must confess, that my heart foon mifgave me. Where a life fo dear and valuable was concerned, it was impossible not to be alarmed, by appearances both new and threatening. But, befides this, I knew, that a long and uninterrupted course of fuccefs, in his transactions with the natives of these seas, had given the Captain a degree of confidence, that I was always fearful might, at fome unlucky moment, put him too much off his guard; and I now faw all the dangers to which that confidence might lead, without receiving much confolation from confidering the experience that had given rife to it.

My first care, on hearing the musquets fired, was, to affure the people, who were affembled in considerable numbers, round the wall of our consecrated field, and seemed equally at a loss with ourselves how to account for what they had seen and heard, that they should not be molested; and that, at all events, I was desirous of continuing on peaceable terms with them. We remained in this posture, till the boats had returned on board, when Captain Clerke, observing, through his telescope, that we were surrounded by the

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natives, and apprehending they meant to attack us, ordered two four-pounders to be fired at them. Fortunately these guns, though well aimed, did no mischief, and yet gave the natives a convincing proof of their power. One of the balls broke a cocoa-nut tree in the middle, under which a party of them were sitting; and the other shivered a rock, that stood in an exact line with them. As I had, just before, given them the strongest affurances of their safety, I was exceedingly mortisted at this act of hostility; and, to prevent a repetition of it, immediately dispatched a boat to acquaint Captain Clerke, that, at present, I was on the most friendly terms with the natives; and that, if occasion should hereafter arise for altering my conduct toward them, I would hoist a jack, as a signal for him to afford us all the affishance in his power.

We expected the return of the boat with the utmost impatience; and after remaining a quarter of an hour, under the most torturing anxiety and suspense, our fears were at length confirmed, by the arrival of Mr. Bligh, with orders to strike the tents as quickly as possible, and to send the fails, that were repairing, on board. Just at the same moment, our friend Kaireekeea having also received intelligence of the death of Captain Cook, from a native, who had arrived from the other side of the bay, came to me, with great forrow and dejection in his countenance, to inquire, if it was true?

Our fituation was, at this time, extremely critical and important. Not only our own lives, but the event of the expedition, and the return of at least one of the ships, being involved in the same common danger. We had the mast of the Resolution, and the greatest part of our fails, on shore, ander the protection of only six marines: their loss would

have been irreparable; and though the natives had not as yet shewn the smallest disposition to molest us, yet it was impossible to answer for the alteration, which the news of the transaction at Kowrowa might produce. I therefore thought it prudent to diffemble my belief of the death of Captain Cook, and to defire Kaireekeea to difcourage the report; left either the fear of our refentment, or the fuccessful example of their countrymen, might lead them to feize the favourable opportunity, which at this time offered itself, of giving us a fecond blow. At the same time, I advised him to bring old Kaoo, and the rest of the priests, into a large house that was close to the Morai; partly out of regard to their fafety, in case it should have been found neceffary to proceed to extremities; and partly to have him near us, in order to make use of his authority with the people, if it could be inftrumental in preferving peace.

Having placed the marines on the top of the Morai, which formed a strong and advantageous post, and left the command with Mr. Bligh, giving him the most positive directions to act entirely on the defensive, I went on board the Discovery, in order to represent to Captain Clerke the dangerous situation of our affairs. As soon as I quitted the spot, the natives began to annoy our people with stones; and I had scarcely reached the ship, before I heard the firing of the marines. I therefore returned instantly on shore, where I found things growing every moment more alarming. The natives were arming, and putting on their mats; and their numbers increased very fast. I could also perceive several large bodies marching toward us, along the cliff which separates the village of Kakooa from the North side of the bay, where the village of Kowrowa

is fituated.

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They began, at first, to attack us with stones, from behind the walls of their inclosures, and finding no resistance on our part, they soon grew more daring. A few resolute fellows, having crept along the beach, under cover of the rocks, suddenly made their appearance at the foot of the Morai, with a design, as it seemed, of storming it on the side next the sea, which was its only accessible part; and were not dislodged, till after they had stood a considerable number of shot, and seen one of their party fall.

The bravery of one of these assailants well deserves to be particularly mentioned. For having returned to carry off his companion, amidst the fire of our whole party, a wound, which he received, made him quit the body and retire; but, in a few minutes, he again appeared, and being again wounded, he was obliged a second time to retreat. At this moment I arrived at the *Morai*, and saw him return the third time, bleeding and faint; and being informed of what had happened, I forbad the soldiers to fire, and he was suffered to carry off his friend; which he was just able to perform, and then fell down himself, and expired.

About this time, a strong reinforcement from both ships having landed, the natives retreated behind their walls; which giving me access to our friendly priests, I sent one of them to endeavour to bring their countrymen to some terms, and to propose to them, that if they would desist from throwing stones, I would not permit our men to sire. This truce was agreed to, and we were suffered to launch the mast, and carry off the sails, and our astronomical apparatus, unmolested. As soon as we had quitted the Morai, they took possession of it, and some of them threw a few stones; but without doing us any mischief.

It was half an hour past eleven o'clock, when I got on board the Discovery, where I found no decisive plan had been adopted for our future proceedings. The restitution of the boat, and the recovery of the body of Captain Cook, were the objects, which, on all hands, we agreed to insist on; and it was my opinion, that some vigorous steps should be taken, in case the demand of them was not immediately complied with.

Though my feelings, on the death of a beloved and honoured friend, may be fuspected to have had some share in this opinion, yet there were certainly other reasons, and those of the most ferious kind, that had considerable weight with me. The confidence which their fuccess in killing our Chief, and forcing us to quit the shore, must naturally have inspired; and the advantage, however trifling, which they had obtained over us the preceding day, would, I had no doubt, encourage them to make fome further dangerous attempts; and the more especially, as they had little reason, from what they had hitherto seen, to dread the effects of our fire-arms. Indeed, contrary to the expectations of every one, this fort of weapon had produced no figns of terror in them. On our fide, fuch was the condition of the ships, and the state of discipline amongst us, that had a vigorous attack been made on us, in the night, it would have been impossible to answer for the confequences.

In these apprehensions, I was supported by the opinion of most of the officers on board; and nothing seemed to me so likely to encourage the natives to make the attempt, as the appearance of our being inclined to an accommodation, which they could only attribute to weakness, or fear.

In favour of more conciliatory measures, it was justly urged, that the mischief was done, and irreparable; that the natives had a strong claim to our regard, on account of their former friendship and kindness; and the more especially, as the late melancholy accident did not appear to have arisen from any premeditated defign: that, on the part of Terreeoboo, his ignorance of the theft, his readiness to accompany Captain Cook on board, and his having actually fent his two fons into the boat, must free him from the smallest degree of suspicion: that the conduct of his women, and the Erees, might eafily be accounted for, from the apprehensions occasioned by the armed force with which Captain Cook came on shore, and the hostile preparations in the bay; appearances fo different from the terms of friendship and confidence, in which both parties had hitherto lived, that the arming of the natives was evidently with a defign to refift the attempt, which they had fome reason to imagine would be made, to carry off their king by force, and was naturally to be expected from a people full of affection and attachment to their Chiefs.

To these motives of humanity, others of a prudential nature were added; that we were in want of water, and other refreshments: that our foremast would require six or eight days work, before it could be stepped: that the spring was advancing apace; and that the speedy prosecution of our next Northern expedition ought now to be our sole object: that therefore to engage in a vindictive contest with the inhabitants, might not only lay us under the imputation of unnecessary cruelty, but would occasion an unavoidable delay in the equipment of the ships.

In this latter opinion Captain Clerke concurred; and though

though I was convinced, that an early display of vigorous resentment would more effectually have answered every object both of prudence and humanity, I was not forry, that the measures I had recommended were rejected. For though the contemptuous behaviour of the natives, and their subsequent opposition to our necessary operations on shore, arising, I have no doubt, from a misconstruction of our lenity, compelled us at last to have recourse to violence in our own defence; yet I am not so sure, that the circumstances of the case would, in the opinion of the world, have justified the use of force, on our part, in the first instance. Cautionary rigour is at all times invidious, and has this additional objection to it, that the severity of a preventive course, when it best succeeds, leaves its expediency the least apparent.

During the time we were thus engaged, in concerting fome plan for our future conduct, a prodigious concourse of natives still kept possession of the shore; and some of them came off in canoes, and had the boldness to approach within pistol-shot of the ships, and to insult us by various marks of contempt and defiance. It was with great difficulty we could restrain the sailors from the use of their arms, on these occasions; but as pacific measures had been resolved on, the canoes were suffered to return unmolested.

In pursuance of this plan, it was determined that I should proceed toward the shore, with the boats of both ships, well manned and armed, with a view to bring the natives to a parley, and, if possible, to obtain a conference with some of the Chiefs.

- If this attempt fucceeded, I was to demand the dead bodies, and particularly that of Captain Cook; to threaten them



them with our vengeance in case of a refusal; but, by no means, to fire unless attacked; and not to land on any account whatever. These orders were delivered to me before the whole party, and in the most positive manner.

I left the ships about four o'clock in the afternoon; and, as we approached the shore, I perceived every indication of a hostile reception. The whole crowd of natives was in motion; the women and children retiring; the men putting on their war mats, and arming themselves with long fpears and daggers. We also observed, that, fince the morning, they had thrown up stone breast-works along the beach, where Captain Cook had landed; probably in expectation of an attack at that place; and, as foon as we were within reach, they began to throw stones at us with slings, but without doing any mischief. Concluding, therefore, that all attempts to bring them to a parley would be in vain, unless I first gave them some ground for mutual confidence; I ordered the armed boats to ftop, and went on, in the fmall boat, alone, with a white flag in my hand, which, by a general cry of joy from the natives, I had the fatisfaction to find was inftantly understood. The women immediately returned from the fide of the hill, whither they had retired: the men threw off their mats; and all fat down together by the water-fide, extending their arms, and inviting me to come on shore.

Though this behaviour was very expressive of a friendly disposition, yet I could not help entertaining some suspicions of its sincerity. But when I saw Koah, with a boldness and affurance altogether unaccountable, swimming off toward the boat, with a white slag in his hand, I thought it necessary to return this mark of considence, and therefore received him into the boat, though armed; a circumstance which

which did not tend to leffen my fuspicions. I must confess, I had long harboured an unfavourable opinion of this man. The priefts had always told us, that he was of a malicious disposition, and no friend of ours; and the repeated detections of his fraud and treachery, had convinced us of the truth of their representations. Add to all this, the shocking transaction of the morning, in which he was seen acting a principal part, made me feel the utmost horror at finding myfelf fo near him; and as he came up to me with feigned tears, and embraced me, I was fo distrustful of his intentions, that I could not help taking hold of the point of the pabooab, which he held in his hand, and turning it from me. I told him, that I had come to demand the body of Captain Cook; and to declare war against them, unless it was instantly restored. He affured me this should be done as foon as possible; and that he would go himfelf for that purpofe; and, after begging of me a piece of iron, with much affurance, as if nothing extraordinary had happened, he leaped into the fea, and fwam ashore, calling out to his countrymen, that we were all friends again.

We waited near an hour, with great anxiety, for his return; during which time, the rest of the boats had approached so near the shore, as to enter into conversation with a party of the natives, at some distance from us; by whom they were plainly given to understand, that the body had been cut to pieces, and carried up the country; but of this circumstance I was not informed, till our return to the ships.

I began now to express some impatience at Koah's delay; upon which the Chiefs pressed me exceedingly to come on shore; assuring me, that if I would go myself to Terrecoboo,

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the body would certainly be reftored to me. When they found they could not prevail on me to land, they attempted, under a pretence of wishing to converse with more eafe, to decoy our boat among fome rocks, where they would have had it in their power to cut us off from the rest. It was no difficult matter to see through these artifices; and I was, therefore, ftrongly inclined to break off all further communication with them, when a Chief came to us, who was the particular friend of Captain Clerke, and of the officers of the Discovery, on board which ship he had failed, when we last left the bay, intending to take his paffage to Mowee. He told us, he came from Terreeoboo to acquaint us, that the body was carried up the country; but that it should be brought to us the next morning. There appeared a great deal of fincerity in his manner; and being asked, if he told a falsehood, he hooked his two fore-fingers together, which is understood amongst these islanders as the sign of truth; in the use of which they are very fcrupulous.

As I was now at a lofs in what manner to proceed, I fent Mr. Vancouver to acquaint Captain Clerke with all that had paffed; that my opinion was, they meant not to keep their word with us, and were fo far from being forry at what had happened, that, on the contrary, they were full of fpirits and confidence on account of their late fuccess, and fought only to gain time, till they could contrive fome scheme for getting us into their power. Mr. Vancouver came back with orders for me to return on board; having first given the natives to understand, that, if the body was not brought the next morning, the town should be destroyed.

When they faw that we were going off, they endeavoured to provoke us by the most infulting and contemptuous gef-

tures. Some of our people faid, they could diffinguish feveral of the natives parading about in the clothes of our unfortunate comrades; and, among them, a Chief brandishing Captain Cook's hanger, and a woman holding the fcabbard. Indeed, there can be no doubt, but that our behaviour had given them a mean opinion of our courage; for they could have but little notion of the motives of humanity that directed it.

In confequence of the report I made to Captain Clerke, of what I conceived to be the prefent temper and disposition of the iflanders, the most effectual measures were taken to guard against any attack they might make in the night. The boats were moored with top-chains; additional fentinels were posted on both ships; and guard-boats were stationed to row round them, in order to prevent the natives from cutting the cables. During the night we observed a prodigious number of lights on the hills, which made fome of us imagine they were removing their effects back into the country, in confequence of our threats. But I rather believe them to have been the facrifices that were performing on account of the war, in which they imagined themselves about to be engaged; and most probably the bodies of our flain countrymen were, at that time, burning. We afterward faw fires of the fame kind, as we paffed the ifland of Morotoi; and which, we were told by fome natives then on board, were made on account of the war they had declared against a neighbouring island. And this agrees with what we learned amongst the Friendly and Society Isles, that, previous to any expedition against an enemy, the Chiefs always endeavoured to animate and inflame the courage of the people by feafts and rejoicings in the night.

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We remained the whole night undisturbed, except by the howlings and lamentations which were heard on shore: and early the next morning, Koah came along-fide the Refolution, with a prefent of cloth, and a fmall pig, which he defired leave to prefent to me. I have mentioned before, that I was supposed, by the natives, to be the son of Captain Cook; and as he, in his life-time, had always fuffered them to believe it, I was probably confidered as the Chief, after his death. As foon as I came on deck, I questioned him about the body; and, on his returning me nothing but evafive answers, I refused to accept his presents; and was going to difmifs him, with fome expreffions of anger and refentment, had not Captain Clerke, judging it best, at all events, to keep up the appearance of friendship, thought it more proper, that he should be treated with the usual refpect.

This treacherous fellow came frequently to us, during the course of the forenoon, with some trisling present or other; and, as I always observed him eyeing every part of the ship with great attention, I took care he should see we were well prepared for our defence.

He was exceedingly urgent, both with Captain Clerke and myfelf, to go on shore, laying all the blame of the detention of the bodies on the other Chiefs; and assuring us, that every thing might be settled to our satisfaction, by a perfonal interview with Terreeoboo. However, his conduct was too suspicious to make it prudent to comply with this request; and indeed a fact came afterward to our knowledge, which proved the entire salfehood of his pretences. For we were told, that, immediately after the action in which Captain Cook was killed, the old king had retired to a cave in the steep part of the mountain, that hangs over

the bay, which was accessible only by the help of ropes, and where he remained for many days, having his victuals let down to him by cords.

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When Koah returned from the ships, we could perceive that his countrymen, who had been collected, by break of day, in vast crowds on the shore, thronged about him with great eagerness; as if to learn the intelligence he had acquired, and what was to be done in consequence of it. It is very probable, that they expected we should attempt to put our threats in execution; and they seemed fully resolved to stand their ground. During the whole morning, we heard conchs blowing in different parts of the coast; large parties were seen marching over the hills; and, in short, appearances were so alarming, that we carried out a stream anchor, to enable us to haul the ship abreast of the town, in case of an attack; and stationed boats off the North point of the bay, to prevent a surprize from that quarter.

The breach of their engagement to restore the bodies of the slain, and the warlike posture, in which they, at this time, appeared, occasioned fresh debates amongst us concerning the measures next to be pursued. It was, at last, determined, that nothing should be suffered to interfere with the repair of the mast, and the preparations for our departure; but that we should, nevertheless, continue our negociations for the recovery of the bodies.

The greatest part of the day was taken up in getting the fore-mast into a proper situation on deck, for the carpenters to work upon it; and in making the necessary alterations in the commissions of the officers. The command of the expedition having devolved on Captain Clerke, he removed on board the Resolution, appointed Lieutenant Gore to be Captain of the Discovery, and promoted Mr. Harvey, a mid-

fhipman, who had been with Captain Cook in his two last voyages, to the vacant Lieutenancy. During the whole day, we met with no interruption from the natives; and, at night, the launch was again moored with a top-chain; and guard-boats stationed round both ships as before.

About eight o'clock, it being very dark, a canoe was heard paddling toward the ship; and as foon as it was feen, both the fentinels on deck fired into it. There were two perfons in the canoe, and they immediately roared out "Tinnee," (which was the way in which they pronounced my name), and faid they were friends, and had fomething for me belonging to Captain Cook. When they came on board, they threw themselves at our feet, and appeared exceedingly frightened. Luckily neither of them was hurt, notwithftanding the balls of both pieces had gone through the canoe. One of them was the person, whom I have before mentioned under the name of the Taboo man, who conftantly attended Captain Cook with the circumstances of ceremony I have already described; and who, though a man of rank in the ifland, could fcarcely be hindered from performing for him the lowest offices of a menial servant. After lamenting, with abundance of tears, the loss of the Orono, he told us, that he had brought us a part of his body. He then prefented to us a fmall bundle wrapped up in cloth, which he brought under his arm; and it is impoffible to describe the horror which seized us, on finding in it a piece of human flesh, about nine or ten pounds weight. This, he faid, was all that remained of the body; that the rest was cut to pieces, and burnt; but that the head and all the bones, except what belonged to the trunk, were in the possession of Terreeoboo, and the other Erees; that what we faw had been allotted to Kaoo, the chief of the priefts, to be made use of in some religious ceremony; and that he had sent it as a proof of his innocence and attachment to us.



This afforded an opportunity of informing ourselves whether they were cannibals; and we did not neglect it. We first tried, by many indirect questions, put to each of them apart, to learn in what manner the rest of the bodies had been disposed of; and finding them very constant in one ftory, that, after the flesh had been cut off, it was all burnt; we at last put the direct question, Whether they had not eat some of it? They immediately shewed as much horror at the idea, as any European would have done; and asked, very naturally, if that was the custom amongst us? They afterward asked us, with great earnestness and apparent apprehension, "When the Orono would come again? and what he would do to them on his return?" The fame inquiry was frequently made afterward by others; and this idea agrees with the general tenour of their conduct toward him, which shewed, that they considered him as a being of a fuperior nature.

We preffed our two friendly vifiters to remain on board till morning; but in vain. They told us, that, if this tranfaction should come to the knowledge of the king, or Chiefs, it might be attended with the most fatal consequences to their whole society; in order to prevent which, they had been obliged to come off to us in the dark; and that the same precaution would be necessary in returning on shore. They informed us farther, that the Chiefs were eager to revenge the death of their countrymen; and, particularly, cautioned us against trusting Koah, who, they said, was our mortal and implacable enemy; and desired nothing more ardently, than an opportunity of fighting us; to which the blowing

blowing of the conchs, we had heard in the morning, was meant as a challenge.

We learned from these men, that seventeen of their countrymen were killed in the first action at Kowrowa, of whom five were Chiefs; and that Kaneena and his brother, our very particular friends, were unfortunately of that number. Eight, they faid, were killed at the observatory; three of whom were also of the first rank.

About eleven o'clock, our two friends left us, and took the precaution to defire, that our guard-boat might attend them, till they had paffed the Discovery, lest they should again be fired upon, which might alarm their countrymen on shore, and expose them to the danger of being discovered. This request was complied with; and we had the fatisfaction to find, that they got fafe and undiscovered to

During the remainder of this night, we heard the fame loud howling and lamentations, as in the preceding one. Tuesday 16. Early in the morning, we received another visit from Koah. I must confess, I was a little piqued to find, that, notwithftanding the most evident marks of treachery in his conduct, and the positive testimony of our friends the priests, he should still be permitted to carry on the same farce, and to make us at least appear to be the dupes of his hypocrify. Indeed our fituation was become extremely awkward and unpromifing; none of the purposes for which this pacific course of proceeding had been adopted, having hitherto been in the least forwarded by it. No fatisfactory answer whatever had been given to our demands; we did not feem to be at all advanced toward a reconciliation with the islanders; they still kept in force on the shore, as if determined to refift any attempts we might make to land; and

yet the attempt was become abfolutely necessary, as the completing our fupply of water would not admit of any

longer delay.

However it must be observed, in justice to the conduct of Captain Clerke, that it was very probable, from the great numbers of the natives, and from the refolution with which they feemed to expect us, an attack could not have been made without fome danger; and that the loss of a very few men might have been feverely felt by us, during the remaining course of our voyage. Whereas the delaying the execution of our threats, though, on the one hand, it leffened their opinion of our prowefs, had the effect of caufing them to disperse, on the other. For, this day, about noon, finding us perfift in our inactivity, great bodies of them, after blowing their conchs, and using every mode of defiance, marched off, over the hills, and never appeared afterward. Those, however, who remained, were not the less daring and infolent. One man had the audacity to come within mufquet-shot, a-head of the ship; and, after flinging feveral ftones at us, he waved Captain Cook's hat over his head, whilft his countrymen on shore were exulting, and encouraging his boldness. Our people were all in a flame at this infult, and, coming in a body on the quarterdeck, begged they might no longer be obliged to put up with these repeated provocations; and requested me to obtain permission for them, from Captain Clerke, to avail themselves of the first fair occasion of revenging the death of their Commander. On my acquainting him with what was paffing, he gave orders for some great guns to be fired at the natives on shore; and promised the crew, that if they should meet with any molestation at the watering-place,

the next day, they should then be left at liberty to chastise

It is fomewhat remarkable, that, before we could bring our guns to bear, the iflanders had fuspected our intentions, from the ftir they faw in the ship, and had retired behind their houses and walls. We were therefore obliged to fire, in fome meafure, at random; notwithstanding which, our shot produced all the effects that could have been defired. For, foon after, we faw Koah paddling toward us, with extreme hafte, and, on his arrival, we learned, that fome people had been killed, and amongst the rest, Maiha-maiha, a principal Chief, and a near relation of the king \*.

Soon after the arrival of Koah, two boys fwam off from the Morai toward the ships, having each a long spear in his hand; and after they had approached pretty near, they began to chant a fong in a very folemn manner; the fubject of which, from their often mentioning the word Orono, and pointing to the village where Captain Cook was killed, we concluded to be the late calamitous difafter. Having fung in a plaintive strain for about twelve or fifteen minutes, during the whole of which time they remained in the water, they went on board the Discovery, and delivered their fpears; and, after making a fhort ftay, returned on fhore. Who fent them, or what was the object of this ceremony, we were never able to learn.

At night, the usual precautions were taken for the fecurity of the ships; and as foon as it was dark, our two

friends,

friends, who had visited us the night before, came off again. They affured us, that though the effects of our great guns, this afternoon, had terrified the Chiefs exceedingly, they had by no means laid afide their hoftile intentions, and advised us to be on our guard.

The next morning, the boats of both ships were fent Wednes. 17. ashore for water; and the Discovery was warped close to the beach, in order to cover that fervice. We foon found, that the intelligence which the priefts had fent us, was not without foundation; and that the natives were refolved to take every opportunity of annoying us, when it could be done without much rifk.

Throughout all this group of islands, the villages, for the most part, are situated near the sea; and the adjacent ground is inclosed with stone walls, about three feet high. These, we at first imagined, were intended for the division of property; but we now discovered, that they served, and probably were principally defigned, for a defence against invasion. They confift of loofe stones, and the inhabitants are very dexterous in shifting them, with great quickness, to fuch fituations, as the direction of the attack may require. In the fides of the mountain, which hangs over the bay, they have also little holes, or caves, of confiderable depth, the entrance of which is fecured by a fence of the fame kind. From behind both these defences the natives kept perpetually haraffing our waterers with stones; nor could the fmall force we had on shore, with the advantage of musquets, compel them to retreat.

In this exposed fituation, our people were so taken up in attending to their own fafety, that they employed the whole forenoon in filling only one ton of water. As it was therefore impossible to perform this fervice, till their affailants VOL. III.

<sup>\*</sup> The word matee, is commonly used, in the language of these islands, to express either killing or wounding; and we were afterward told, that this Chief had only received a flight blow on the face from a ftone, which had been ftruck by one of the balls.

were driven to a greater diftance, the Discovery was ordered to dislodge them with her great guns; which being effected by a few discharges, the men landed without molestation. However, the natives soon after made their appearance again, in their usual mode of attack; and it was now found absolutely necessary to burn down some straggling houses, near the well, behind which they had taken fhelter. In executing these orders, I am forry to add, that our people were hurried into acts of unnecessary cruelty and devastation. Something ought certainly to be allowed to their refentment of the repeated infults, and contemptuous behaviour, of the islanders, and to the natural defire of revenging the lofs of their Commander. But, at the fame time, their conduct ferved ftrongly to convince me, that the utmost precaution is necessary in trusting, though but for a moment, the discretionary use of arms, in the hands of private feamen, or foldiers, on fuch occasions. The rigour of discipline, and the habits of obedience, by which their force is kept directed to its proper objects, lead them naturally enough to conceive, that whatever they have the power, they have also the right, to do. Actual disobedience being almost the only crime for which they are accustomed to expect punishment, they learn to confider it as the only measure of right and wrong; and hence are apt to conclude, that what they can do with impunity, they may do with justice and honour. So that the feelings of humanity, which are inseparable from us all, and that generofity toward an unrefifting enemy, which, at other times, is the diftinguishing mark of brave men, become but weak reftraints to the exercise of violence, when opposed to the defire they naturally have of shewing their own independence and power.

I have

February.

I have already mentioned, that orders had been given to burn only a few straggling huts, which afforded shelter to the natives. We were therefore a good deal surprized to see the whole village on fire; and before a boat, that was sent to stop the progress of the mischief, could reach the shore, the houses of our old and constant friends, the priests, were all in slames. I cannot enough lament the illness, that confined me on board this day. The priests had always been under my protection; and, unluckily, the officers who were then on duty, having been seldom on shore at the Morai, were not much acquainted with the circumstances of the place. Had I been present myself, I might probably have been the means of saving their little society from destruction.

Several of the natives were shot, in making their escape from the slames; and our people cut off the heads of two of them, and brought them on board. The fate of one poor islander was much lamented by us all. As he was coming to the well for water, he was shot at by one of the marines. The ball struck his calibash, which he immediately threw from him and sled. He was pursued into one of the caves I have before described, and no lion could have defended his den with greater courage and sierceness; till at last, after having kept two of our people at bay, for a considerable time, he expired, covered with wounds. It was this accident, that first brought us acquainted with the use of these caverns.

At this time, an elderly man was taken prisoner, bound, and sent on board in the same boat with the heads of his two countrymen. I never saw horror so strongly pictured, as in the sace of this man, nor so violent a transition to extravagant joy, as when he was untied, and told he might

go away in fafety. He shewed us he did not want gratitude, as he frequently afterward returned with prefents of provisions; and also did us other fervices.

Soon after the village was deftroyed, we faw, coming down the hill, a man, attended by fifteen or twenty boys, holding pieces of white cloth, green boughs, plantains, &c. in their hands. I know not how it happened, that this peaceful embaffy, as foon as they were within reach, received the fire of a party of our men. This, however, did not ftop them. They continued their procession, and the officer on duty came up, in time, to prevent a fecond discharge. As they approached nearer, it was found to be our much-esteemed friend Kaireekeea, who had fled on our first setting fire to the village, and had now returned, and defired to be fent on board the Refolution.

When he arrived, we found him exceedingly grave and thoughtful. We endeavoured to make him understand the necessity we were under of fetting fire to the village, by which his house, and those of his brethren, were unintentionally confumed. He expostulated a little with us on our want of friendship, and on our ingratitude. And, indeed, it was not till now, that we learnt the whole extent of the injury we had done them. He told us, that, relying on the promifes I had made them, and on the affurances they had afterward received from the men, who had brought us the remains of Captain Cook, they had not removed their effects back into the country, with the rest of the inhabitants, but had put every thing that was valuable of their own, as well as what they had collected from us, into a house close to the Morai, where they had the mortification to fee it all fet on fire by ourfelves.

On coming on board, he had feen the heads of his countrymen lying on the deck, at which he was exceedingly Fe shocked, and defired, with great earnestness, that they might be thrown over-board. This request Captain Clerke inflantly ordered to be complied with.

In the evening, the watering party returned on board, having met with no farther interruption. We passed a gloomy night; the cries and lamentations we heard on shore being far more dreadful than ever. Our only confolation was, the hope that we should have no occasion, in future, for a repetition of fuch feverities.

It is very extraordinary, that, amidst all these disturbances, the women of the ifland, who were on board, never offered to leave us, nor discovered the smallest apprehenfions either for themselves or their friends ashore. So entirely unconcerned did they appear, that fome of them, who were on deck when the town was in flames, feemed to admire the fight, and frequently cried out, that it was maitai, or very fine.

The next morning, Koah came off as usual to the ships. Thursday 18. As there existed no longer any necessity for keeping terms with him, I was allowed to have my own way. When he approached toward the fide of the ship, finging his fong, and offering me a hog, and fome plantains, I ordered him to keep off, cautioning him never to appear again without Captain Cook's bones, left his life should pay the forfeit of his frequent breach of promife. He did not appear much mortified with this reception, but went immediately on fhore, and joined a party of his countrymen, who were pelting the waterers with stones. The body of the young man, who had been killed the day before, was found this morning, lying at the entrance of the cave; and some of

our people went, and threw a mat over it. Soon after which they faw fome men carrying him off on their shoulders, and could hear them finging, as they marched, a mournful fong.

The natives, being at last convinced that it was not the want of ability to punish them, which had hitherto made us tolerate their provocations, defifted from giving us any farther moleftation; and, in the evening, a Chief called Eappo, who had feldom vifited us, but whom we knew to be a man of the very first consequence, came with presents from Terreeoboo to fue for peace. These presents were received, and he was difmiffed with the fame answer which had before been given, that, until the remains of Captain Cook should be restored, no peace would be granted. We learned from this person, that the flesh of all the bodies of our people, together with the bones of the trunks, had been burnt; that the limb bones of the marines had been divided amongst the inferior Chiefs; and that those of Captain Cook had been disposed of in the following manner: the head, to a great Chief, called Kahoo-opeon; the hair to Maiha-maiha; and the legs, thighs, and arms to Terreeoboo. After it was dark, many of the inhabitants came off with roots and other vegetables; and we also received two large prefents of the fame articles from Kaireekeea.

Friday 19.

The 19th was chiefly taken up in fending and receiving the meffages which paffed between Captain Clerke and Terreeoboo. Eappo was very preffing, that one of our officers should go on shore; and, in the mean time, offered to remain as an hostage on board. This request, however, it was not thought proper to comply with; and he left us with a promife of bringing the bones the next day. At

the beach, the waterers did not meet with the leaft opposition from the natives; who, notwithstanding our cautious, behaviour, came amongft us again, without the fmalleft appearance of diffidence or apprehension.

Early in the morning of the 20th, we had the fatisfaction Saturday 20. of getting the fore-mast stepped. It was an operation attended with great difficulty, and fome danger; our ropes being fo exceedingly rotten, that the purchase gave way several times.

Between ten and eleven o'clock, we faw a great number of people descending the hill, which is over the beach, in a kind of procession, each man carrying a sugar-cane or two on his shoulders, and bread-fruit, taro, and plantains in his hand. They were preceded by two drummers; who, when they came to the water-fide, fat down by a white flag, and began to beat their drums, while those who had followed them, advanced, one by one; and, having deposited the prefents they had brought, retired in the fame order. Soon after, Eappo came in fight, in his long feathered cloak, bearing fomething with great folemnity in his hands; and having placed himself on a rock, he made figns for a boat to be fent him.

Captain Clerke, conjecturing that he had brought the bones of Captain Cook, which proved to be the fact, went himself in the pinnace to receive them; and ordered me to attend him in the cutter. When we arrived at the beach, Eappo came into the pinnace, and delivered to the Captain the bones wrapped up in a large quantity of fine new cloth, and covered with a fpotted cloak of black and white feathers. He afterward attended us to the Refolution; but could not be prevailed upon to go on board; probably not choosing, from a fense of decency, to be present at the opening

opening of the bundle. We found in it both the hands of Captain Cook entire, which were well known from a remarkable fcar on one of them, that divided the thumb from the fore-finger, the whole length of the metacarpal bone; the skull, but with the scalp separated from it, and the bones that form the face wanting; the fcalp, with the hair upon it cut fhort, and the ears adhering to it; the bones of both arms, with the skin of the fore-arms hanging to them; the thigh and leg-bones joined together, but without the feet. The ligaments of the joints were entire: and the whole bore evident marks of having been in the fire, except the hands, which had the flesh left upon them, and were cut in feveral places, and crammed with falt, apparently with an intention of preferving them. The fcalp had a cut in the back part of it, but the skull was free from any fracture. The lower jaw and feet, which were wanting, Eappo told us, had been feized by different Chiefs, and that Terreeoboo was using every means to recover them.

Sunday 21. The next morning, Eappo, and the king's fon, came on board, and brought with them the remaining bones of Captain Cook; the barrels of his gun, his shoes, and some other trifles that belonged to him. Eappo took great pains to convince us, that Terreeoboo, Maiha-maiha, and himfelf were most heartily desirous of peace; that they had given us the most convincing proof of it in their power; and that they had been prevented from giving it fooner by the other Chiefs, many of whom were still our enemies. He lamented, with the greatest forrow, the death of fix Chiefs we had killed, fome of whom, he faid, were amongst our best friends. The cutter, he told us, was taken away by Pareea's people; very probably in revenge for the blow that had been

been given him; and that it had been broken up the next day. The arms of the marines, which we had also demanded, he affured us, had been carried off by the common people, and were irrecoverable; the bones of the Chief alone having been preferved, as belonging to Terreeoboo and the Erees.

Nothing now remained, but to perform the last offices to our great and unfortunate commander. Eappo was difmiffed with orders to taboo all the bay; and, in the afternoon, the bones having been put into a coffin, and the fervice read over them, they were committed to the deep with the usual military honours. What our feelings were on this occasion, I leave the world to conceive; those who were prefent know, that it is not in my power to express them.

During the forenoon of the 22d, not a canoe was feen Monday 22, paddling in the bay; the taboo, which Eappo had laid on it the day before, at our request, not being yet taken off. At length Eappo came off to us. We affured him, that we were now entirely fatisfied; and that, as the Orono was buried, all remembrance of what had paffed was buried with him. We afterward defired him to take off the taboo, and to make it known, that the people might bring their provifions as ufual. The fhips were foon furrounded with canoes, and many of the Chiefs came on board, expreffing great forrow at what had happened, and their fatisfaction at our reconciliation. Several of our friends, who did not vifit us, fent prefents of large hogs, and other provisions. Amongst the rest came the old treacherous Koah, but was refused admittance.

As we had now every thing ready for fea, Captain Clerke imagining, that, if the news of our proceedings should VOL. III.

reach the Islands to leeward before us, it might have a bad effect, gave orders to unmoor. About eight in the evening we difmiffed all the natives; and Eappo, and the friendly Kaireekeea, took an affectionate leave of us. We immediately weighed, and stood out of the bay. The natives were collected on the shore in great numbers; and, as we paffed along, received our last farewels with every mark of affection and good-will.

## CHAP. V.

Departure from Karakakooa in Search of an Harbour on the South East Side of Mowee. - Driven to Leeward by the Easterly Winds and Current .- Pass the Island of Taboorowa. -Description of the South West Side of Morvee.-Run along the Coasts of Ranai and Morotoi to Woaboo .- Description of the North East Coast of Woahoo .- Unsuccessful Attempt to water .- Passage to Atooi .- Anchor in Wymoa Bay .-Dangerous Situation of the Watering Party on Shore .- Civil Dissentions in the Islands .- Visit from the contending Chiefs .- Anchor off Oneeheow .- Final Departure from the Sandwich Islands.

WE got clear of the land about ten; and, hoisting in the boats, stood to the Northward, with an intention of fearching for an harbour on the South East fide of Monday 22. Mowee, which we had heard frequently mentioned by the natives. The next morning we found ourselves driven to Tuesday 23. leeward by a heavy swell from the North East; and a fresh gale, fpringing up from the fame quarter, carried us still farther to the Westward. At midnight we tacked, and stood to the South for four hours, in order to keep clear of the land; and, at day-break, we found ourselves Wednes. 24. standing toward a small barren island, called Tahoorowa, which lies feven or eight miles to the South West of Mowee.

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All prospect of examining more nearly the South East parts of Mowee being now deftroyed, we bore away, and ran along the South East fide of Tahoorowa. As we were fleering close round its Western extremity, with an intention of fetching the West side of Mowee, we suddenly fhoaled our water, and observed the sea breaking on some detached rocks, almost right a-head. This obliged us to keep away a league and a half, when we again steered to the Northward; and, after paffing over a bank, with nineteen fathoms water, ftood for a paffage between Mowee and an island called Ranai. At noon, the latitude was, by obfervation, 20° 42' North, and the longitude 203° 22' Eaft; the Southern extremity of Mowee bearing East South East, quarter East; the Southern extremity of Ranai West North West, quarter West; Morotoi, North West and by North; and the Western extremity of Tahoorowa, South by East, feven miles diftant. Our longitude was accurately deduced from observations made by the time-keeper before and after noon, compared with the longitude found by a great many distances of the moon from the sun and stars, which were also observed the same day.

In the afternoon, the weather being calm, with light airs from the West, we stood on to the North North West; but, at fun-fet, observing a shoal, which appeared to ftretch to a confiderable distance from the West point of Mowee, toward the middle of the paffage, and the weather being unfettled, we tacked, and flood toward the South.

The South West side of this island, which we now had paffed without being able to get near the shore, forms the fame distant view with the North East, as seen on our return from the North, in November 1778; the mountainous parts, which

which are connected by a low, flat ifthmus, appearing at first like two separate islands. This deception continued on the South West fide, till we approached within eight or ten leagues of the coast, which, bending inward, to a great depth, formed a fine capacious bay. The Westernmost point, off which the shoal we have just mentioned runs, is made remarkable by a fmall hillock, to the Southward of which there is a fine fandy bay, with feveral huts on the shore, and a number of cocoa-nut trees growing about them.

During the course of the day, we were visited by several of the natives, who came off to fell provisions; and we foon found, that they had heard of our late unfortunate transactions at Owhyhee. They were very curious to learn the particulars, from a woman who had concealed herfelf on board the Refolution, in order to take her paffage to Atooi; inquiring eagerly after Pareea, and fome other Chiefs, and appearing much shocked at the death of Kaneena, and his brother. We had, however, the fatisfaction to find, that, in whatever light the woman might have represented this bufiness, it had no bad effect on their behaviour, which was remarkably civil and fubmiffive.

The weather continued variable, during the night; but in the morning of the 25th, having the wind at East, Thursday 25. we ran along the South fide of Ranai, till near noon; after which, we had calms and baffling winds till evening, when we steered, with a light Easterly breeze, for the West part of Morotoi. In the course of the day, the current, which, from the time we left Karakakooa Bay, had fet from the North East, changed its direction to the South East.

During the night, the wind was again variable; but early Friday 26.

next

next morning, it fettled at East, and blew so fresh, as to oblige us to double-reef the top-sails. At seven, on hauling round the West point of Morotoi, we opened a small bay, at the distance of about two leagues, with a fine sandy beach; but seeing no appearance of fresh water, we stood on to the North, in order to get to the windward of Woahoo, an island which we had seen at our first visit, in January 1778.

At two in the afternoon, we faw the land bearing West by North, eight leagues distant; and having tacked as soon saturday 27. as it was dark, we again bore away at day-light on the 27th; and at half past ten, were within a league of the shore, near the middle of the North East side of the island.

The coast, to the Northward, is formed of detached hills, rising perpendicularly from the sea, with ragged and broken summits; the sides covered with wood, and the vallies between them of a fertile and well-cultivated appearance. To the Southward, we saw an extensive bay, bounded by a low point of land to the South East, which was covered with cocoa-nut trees; and off it stood a high insulated rock, about a mile from the shore. The haziness of the weather prevented our seeing distinctly the land to the Southward of the point; we could only perceive that it was high and broken.

As the wind continued to blow very fresh, we thought it dangerous to entangle ourselves with a lee-shore; and therefore did not attempt to examine the bay, but hauled up, and steered to the Northward in the direction of the coast. At noon we were abreast of the North point of the island, about two leagues from the land, which is low and flat, and has a reef stretching off it to the distance of near a mile and a half. The latitude, by observation, 21° 50′ North, longitude

longitude 202° 15' East; the extreme parts of the island in fight, bearing South South East, quarter East, and South West by South, three-quarters West.

Between the North point and a distant head-land, which we saw to the South West, the land bends inward considerably, and appeared likely to afford a good road. We therefore directed our course along the shore, at the distance of about a mile, carrying regular soundings from twenty to thirteen fathoms. At a quarter past two, the sight of a sine river, running through a deep valley, induced us to come to an anchor in thirteen fathoms water, with a sandy bottom; the extreme points of the bay bearing South West by West half West, and North East by East three-quarters East; and the mouth of the river South East half East, one mile distant. In the afternoon, I attended the two Captains on shore, where we found but sew of the natives, and those mostly women; the men, they told us, were gone to Morotoi to sight Tahyterree; but that their Chief Perreeorance,

We were much disappointed to find the water had a brackish taste, for two hundred yards up the river, owing to the marshy ground through which it empties itself into the sea. Beyond this, it was perfectly fresh, and formed a fine running stream, along the side of which I walked, till I came to the conflux of two small rivulets, that branched off to the right and left of a remarkably steep and romantic mountain. The banks of this river, and indeed the whole we saw of the North West part of Woahoo, are well cultivated, and full of villages; and the sace of the country is uncommonly beautiful and picturesque.

who had ftayed behind, would certainly vifit us, as foon as

he heard of our arrival.

As the watering at this place would have been attended with

February.

with great labour, I was fent to examine the coast to leeward; but not being able to land, on account of a reef of coral, which ftretched along the shore to the distance of half a mile, Captain Clerke determined, without farther loss of time, to proceed to Atooi. At eight in the morning, we weighed, and stood to the Northward, till day-light on Sunday 28. the 28th, when we bore away for that island, which we were in fight of by noon; and about funfet, were off its Eastern extremity, which shews itself in a fine, green, flat point.

It being too late to run for the road, on the South West fide of the ifland, where we had been the last year, we paffed the night in plying on and off, and at nine the next Monday 1. morning, came to an anchor in twenty-five fathoms water, and moored with the best bower in thirty-eight fathoms, the bluff-head, on the West fide of the village, bearing North East by North three-quarters East, two miles distant; the extremes of the ifland, North West by West three-quarters West, and South East by East half East; the island Oneeheow West by South half West. In running down to the road, from the South East point of the island, we faw the appearance of shoal water, in feveral places, at a confiderable distance from the land; and when we were about two miles to the Eastward of the anchoring-place, and two or three miles from the shore, we got into four and half fathoms water, although our foundings had ufually been feven and

> eight fathoms. We had no fooner anchored in our old flation, than feveral canoes came along-fide of us; but we could observe, that they did not welcome us with the fame cordiality in their manner, and fatisfaction in their countenances, as when we were here before. As foon as they got on board, one of the

> > men

men began to tell us, that we had left a diforder amongst their women, of which feveral persons of both sexes had died. He was himfelf afflicted with the venereal difeafe, and gave a very full and minute account of the various fymptoms with which it had been attended. As there was not the flightest appearance of that disorder amongst them on our first arrival, I am afraid it is not to be denied, that we were the authors of this irreparable mischief.

Our principal object here was to water the ships with the utmost expedition; and I was fent on shore early in the afternoon, with the pinnace and launch laden with cafks. The gunner of the Refolution accompanied me to trade for provisions; and we had a guard of five marines. We found a confiderable number of people collected upon the beach, who received us at first with great kindness; but as soon as we had got the casks on shore, began to be exceedingly troublesome. Former experience having taught me how difficult it was to reprefs this disposition, without having recourse to the authority of their Chiefs, I was very forry to find, that they were all at another part of the island. Indeed we foon felt the want of their affiftance; for it was with great difficulty I was able to form a circle, according to our usual practice, for the convenience and fecurity of the trading party; and had no fooner done it, and posted guards to keep off the crowd, than I faw a man laying hold of the bayonet of one of the foldiers musquets, and endeavouring, with all his force, to wrench it out of his hand. On my coming up to them, the native let go his hold and retired; but returned in a moment, with a fpear in one hand, and dagger in the other; and his countrymen had much ado to reftrain him from trying his prowefs with the foldier. This fray was occasioned by the latter's having given the man a VOL. III.

flight

flight prick with his bayonet, in order to make him keep without the line.

I now perceived, that our fituation required great circumspection and management; and accordingly gave the strictest
orders, that no one should fire, nor have recourse to any
other act of violence, without positive commands. As soon
as I had given these directions, I was called to the affistance
of the watering party, where I found the natives equally
inclined to mischief. They had demanded from our people
a large hatchet for every cask of water; and this not being
complied with, they would not suffer the sailors to roll them
down to the boats.

I had no fooner joined them, than one of the natives advanced up to me, with great infolence, and made the fame claim. I told him, that, as a friend, I was very willing to prefent him with a hatchet, but that I should certainly carry off the water, without paying any thing for it; and I immediately ordered the pinnace men to proceed in their business, and called three marines from the traders to protect them.

Though this shew of spirit succeeded so far as to make the natives desist from any open attempt to interrupt us, they still continued to behave in the most teasing and provoking manner. Whilst some of them, under pretence of affisting the men in rolling down the casks, turned them out of their course, and gave them a wrong direction; others were stealing the hats from off the sailors heads, pulling them backward by their clothes, or tripping up their heels; the whole crowd, all this time, shouting and laughing, with a strange mixture of childishness and malice. They afterward found means to steal the cooper's bucket, and took away his bag by force; but the objects

they were most eager to possess themselves of, were the musquets of the marines, who were, every instant, complaining of their attempts to force them out of their hands. Though they continued, for the most part, to pay great deference and respect to me, yet they did not suffer me to escape without contributing my share to their stock of plunder. One of them came up to me with a familiar air, and with great management diverted my attention, whilst another, wrenching the hanger, which I held carelesly in my hand, from me, ran off with it like lightning.

It was in vain to think of repelling this infolence by force; guarding therefore against its effects, in the best manner we were able, we had nothing to do but to fubmit patiently to it. My apprehensions were, however, a little alarmed, by the information I foon after received from the ferjeant of marines, who told me, that, turning fuddenly round, he faw a man behind me holding a dagger in the position of striking. In this he might possibly be mistaken; yet our fituation was certainly alarming and critical, and the fmallest error on our fide might have been fatal to us. As our people were feparated into three fmall parties, one at the lake, filling casks; another rolling them down to the thore; and the third, at fome diffance, purchasing provifions; it had once occurred to me, that it might be proper to collect them all together, and to execute and protect one duty at a time. But on fecond thoughts, I judged it more adviseable to let them continue as they were. In case of a real attack, our whole force, however advantageously difposed, could have made but a poor refistance. On the other hand, I thought it of some confequence to shew the natives, that we were under no fears; and, what was still more ma-

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terial,

terial, the crowd was, by this means, kept divided, and a confiderable part of them fully employed in bartering provisions.

It is probable, that their dread of the effects of our arms, was the principal cause of their backwardness in attacking us; and indeed the confidence we appeared to place in this advantage, by opposing only five marines to their whole force, must have raised in them a very high idea of our superiority. It was our business to keep up this opinion as much as possible; and in justice to the whole party, I must observe, that no men could possibly behave better, for the purpose of strengthening these impressions. Whatever could be taken in jest, they bore with the utmost temper and patience; and whenever any serious attempt was made to interrupt them, they opposed it with bold looks and menaces. By this management, we succeeded so far, as to get all the casks down to the water side, without any material accident.

While we were getting them into the launch, the natives, perceiving the opportunity of plundering would foon be over, became every moment more daring and infolent. On this occasion, I was indebted to the serjeant of marines for suggesting to me, the advantage that would arise from sending off his party first into the boats; by which means, the musquets of the soldiers, which, as I have already mentioned, were the objects the islanders had principally in view, would be removed out of their reach; and in case of an attack, the marines themselves might be employed more effectually in our defence, than if they were on shore.

We had now got every thing into the boats, and only Mr. Anderson the gunner, a seaman of the boat's crew, and myself,

myfelf, remained on shore. As the pinnace lay beyond the furf, through which we were obliged to fwim, I told them . to make the best of their way to it, and that I should follow them. With this order I was furprized to find them both refuse to comply; and the confequence was a contest amongst us, who should be the last on shore. It feems, that fome hafty words I had just before used to the failor, which he thought reflected on his courage, was the cause of this odd fancy in him; and the old gunner, finding a point of honour started, thought he could not well avoid taking a part in it. In this ridiculous fituation we might have remained fome time, had not our difpute been foon fettled by the stones that began to fly about us, and by the cries of the people from the boats, to make hafte, as the natives were following us into the water with clubs and fpears. I reached the fide of the pinnace first, and finding Mr. Anderson was at some distance behind, and not yet entirely out of danger, I called out to the marines, to fire one musquet. In the hurry of executing my orders, they fired two; and when I got into the boat, I faw the natives running away, and one man, with a woman fitting by him, left behind on the beach. The man made feveral attempts to rife, without being able; and it was with much regret, I perceived him to be wounded in the groin. The natives foon after returned, and furrounded the wounded man, brandishing their spears and daggers at us, with an air of threatening and defiance; but before we reached the ships, we faw some persons, whom we supposed to be the Chiefs, now arrived, driving them away from the fhore.

During our absence, Captain Clerke had been under the greatest anxiety for our safety. And these apprehensions were

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were confiderably increased, from his having entirely miftaken the drift of the conversation he had held with some natives who had been on board. The frequent mention of the name of Captain Cook, with other strong and circumftantial descriptions of death and destruction, made him conclude, that the knowledge of the unfortunate events at Owhyhee had reached them, and that these were what they alluded to; whereas all they had in view was, to make known to him the wars that had arisen, in consequence of the goats that Captain Cook had left at Oneeheow, and the flaughter of the poor goats themselves, during the struggle for the property of them. Captain Clerke, applying this earnestness of conversation, and these terrible representations, to our calamitous transactions at Owhyhee, and to an indication of revenge, kept his telescope fixed upon us, and the moment he faw the smoke of the musquets, ordered the boats to be manned and armed, and to put off to our affiftance.

Tuefday 2.

The next morning, I was again ordered on shore, with the watering party. The rifk we had run the preceding day determined Captain Clerke to fend a confiderable force from both fhips for our guard, amounting in all to forty men under arms. This precaution, however, was now unnecessary; for we found the beach left entirely to ourselves, and the ground between the landing-place and the lake, tabooed with fmall white flags. We concluded, from this appearance, that fome of the Chiefs had certainly vifited this quarter; and that, not being able to stay, they had kindly and confiderately taken this step, for our greater security and convenience. We faw feveral men armed with long spears and daggers, on the other fide of the river, on our right; but they did not offer to give us the least moleftation.

lestation. Their women came over, and fat down on the banks close by us, and at noon we prevailed on some of the men to bring hogs and roots for our people, and to drefs them for us. As foon as we had left the beach, they came down to the fea-fide, and one of them threw a stone at us; but his conduct feeming to be highly difapproved of by all the rest, we did not think it proper to shew any refentment.

The next day, we completed our watering, without meet- Wednef. 3. ing with any material difficulty. On our return to the ships, we found that feveral Chiefs had been on board, and had made excuses for the behaviour of their countrymen, attributing their riotous conduct to the quarrels which fubfifted at that time amongst the principal people of the island, and which had occasioned a general want of order and subordination amongst them. The government of Atooi was in difpute between Toneoneo, who had the fupreme power when we were here last year, and a boy named Teavee. They are both, by different fathers, the grandfons of Perrecorannee, king of Woahoo, who had given the government of Atooi to the former, and that of Oneeheow to the latter. The quarrel had arisen about the goats we had left at Oneeheow the last year; the right of property in which was claimed by Toneoneo, on the pretence of that island's being a dependency of his. The friends of Teavee infifting on the right of possession, both parties prepared to maintain their pretentions by force; and, a few days before our arrival, a battle had been fought, in which Toneoneo had been worsted. The consequence of this victory was likely to affect Toneoneo in a much deeper manner than by the mere loss of the objects in dispute; for the mother of Teavee, having married a fecond husband, who was a Chief

of Atooi, and at the head of a powerful faction there, he thought that the prefent opportunity was not to be neglected, of driving Toneoneo entirely out of the island, and of advancing his fon-in-law to the government. I have already had occasion to mention, that the goats, which had increased to the number of fix, and would, probably, in a few years, have stocked all these islands, were destroyed in the contest.

Thurfday 4.

On the 4th, the mother and fifter of the young prince and his father-in-law, with many other Chiefs of that party, came on board the Refolution, and made feveral curious and yaluable prefents to Captain Clerke. Amongst the former, were fome fish-hooks, which they affured us were made of the bones of our old friend Terreeoboo's father, who had been killed in an unfuccefsful defcent upon the island of Woahoo; and a fly-flap, presented to him by the prince's fifter, the handle of which was a human bone, that had been given her as a trophy by her father-in-law. Young Teavee was not of the company, being engaged, as we were told, in performing fome religious ceremonies, in confequence of the victory he had obtained, which were to last twenty days.

This, and the two following days, were employed on fhore, in completing the Difcovery's water; and the carpenters were bufy on board, in caulking the ships, and in making other preparations for our next cruife. The natives defifted from giving us any further diffurbance; and we procured from them a plentiful fupply of pork and vegetables.

At this time, an Indian brought a piece of iron on board the Difcovery to be fashioned into the shape of a pabooab. It was carefully examined both by the officers and men, and appeared to be the bolt of fome large ship timbers. They were not able to discover to what nation it belonged; but from the pale colour \* of the iron, and its not correfponding in shape to our bolts, they concluded that it certainly was not English. This led them to make a strict inquiry of the native, when and where he got it; and, if they comprehended him right, it had been taken out of a piece of timber, larger than the cable bit, to which he pointed. This piece of wood, they farther understood from him to have been driven upon their ifland, fince we were here in January 1778.

On the 7th, we were furprized with a vifit from Toneo- Sunday 7. neo. When he heard the dowager princess was in the ship, it was with great difficulty we could prevail on him to come on board, not from any apprehension that he appeared to entertain of his fafety, but from an unwillingness to see her. Their meeting was with fulky and lowering looks on both fides. He ftaid but a fhort time, and feemed much dejected; but we remarked, with some surprize, that the women, both at his coming and going away, proftrated themselves before him; and that he was treated by all the natives on board with the refpect usually paid to those of his rank. Indeed, it must appear somewhat extraordinary, that a person, who was at this time in a state of actual hostility with Teavee's party, and was even prepared for another battle, should trust himself almost alone within the power of his enemies. It is, therefore, to be observed, that the civil diffentions, which are very frequent throughout all the South Sea Islands, feem to be carried on without much acrimony or bloodshed; and that the deposed governor still

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continues

<sup>\*</sup> It was evident, that the iron we found in possession of the natives at Nootka Sound, and which was mostly made into knives, was of a much paler fort than ours.

continues to enjoy the rank of an Eree, and is left to make use of such means as may arise for the regaining his lost confequence. But I shall have occasion to speak more particularly on this fubject in the next chapter; in which the best account will be given, which we were able to collect, of the political state of those countries.

On the 8th, at nine in the morning, we weighed, and failed toward Oneeheow; and, at three in the afternoon, anchored in twenty fathoms water, nearly on the fame fpot as in the year 1778. We moored with the other anchor in twenty-fix fathoms water. The high bluff, on the South end of the island, bore East South East; the North point of the road, North half East; and a bluff head to the South of it, North East by North. During the night, we had a strong Tuefday 9. gale from the Eastward; and, in the morning of the 9th, found the ship had driven a whole cable's length, and brought both anchors almost ahead. We shortened in the best bower cable; but the wind blowing too fresh to un-Wednes 10. moor, we were obliged to remain, this and the two following days, with the anchors still ahead.

On the 12th, the weather being moderate, the master was fent to the North West side of the island, to look for a more convenient place for anchoring. He returned in the evening, having found, close round the West point of the road where we now lay, which is also the Westernmost point of the island, a fine bay, with good anchorage, in eighteen fathoms water, a clear fandy bottom, not a mile from the beach, on which the furf beats, but not fo as to hinder landing. The direction of the points of the bay were North by East, and South by West; and, in that line, the foundings feven, eight, and nine fathoms. On the North fide of the bay was a fmall village; and a quarter of a mile to the the Eastward were four small wells of good water; the road to them level, and fit for rolling casks. Mr. Bligh went afterward fo far to the North as to fatisfy himfelf, that Oreehoua was a feparate ifland from Oneeheow; and that there was a paffage between them; which, before, we only conjectured to exist.

In the afternoon we hoisted in all the boats, and made ready for going to fea in the morning.

CHAP.

## CHAP. VI.

General Account of the Sandwich Islands.—Their Number, Names, and Situation.—Owhyhee.—Its Extent, and Division into Districts.—Account of its Coasts, and the adjacent Country.—Volcanic Appearances.—Snowy Mountains.—Their Height determined.—Account of a fourney into the interior Parts of the Country.—Mowee.—Tahoorowa.—Morotoi.—Ranai.—Woahoo.—Atooi.—Oneeheow.

Oreehoua.—Tahoora.—Climate.—Winds.—Currents.—Tides.—Animals and Vegetables.—Astronomical Observations.

1779. March. A S we are now about to take our final leave of the Sandwich Islands, it will not be improper to introduce here some general account of their situation and natural history, and of the manners and customs of the inhabitants.

This fubject has indeed been, in fome measure, preoccupied by persons far more capable of doing it justice,
than I can pretend to be. Had Captain Cook and Mr. Anderson lived to avail themselves of the advantages which
we enjoyed by a return to these islands, it cannot be questioned, that the Public would have derived much additional information from the skill and diligence of two such
accurate observers. The reader will therefore lament with
me our common missortune, which hath deprived him
of the labours of such superior abilities, and imposed on
me the task of presenting him with the best supplementary account the various duties of my station permitted me
to furnish.

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This group confifts of eleven islands, extending in latitude from 18° 54' to 22° 15' North; and in longitude from 199° 36' to 205° 06' East. They are called by the natives; 1. Owhyhee. 2. Mowee. 3. Ranai, or Oranai. 4. Morotinnee, or Morokinnee. 5. Kahowrowee, or Tahoorowa. 6. Morotoi, or Morokoi. 7. Woahoo, or Oahoo. 8. Atooi, Atowi, or Towi, and fometimes Kowi \*. o. Neeheehow. or Oneeheow. 10. Oreehoua, or Reehoua; and, 11. Tahoora: and are all inhabited, excepting Morotinnee and Tahoora. Befides the iflands above enumerated, we were told by the Indians, that there is another called Modoopapapa t, or Komodoopapapa, lying to the West South West of Tahoora, which is low and fandy, and vifited only for the purpose of catching turtle and fea-fowl; and, as I could never learn that they knew of any others, it is probable that none exist in their neighbourhood.

They were named by Captain Cook the Sandwich Islands, in honour of the Earl of Sandwich, under whose administration he had enriched geography with so many splendid and important discoveries; a tribute justly due to that noble person for the liberal support these voyages derived from his power, in whatever could extend their utility, or promote their success; for the zeal with which he seconded the views of that great navigator; and, if I may be allowed to add the voice of private gratitude, for the generous protection, which, since the death of their unfortunate commander, he has afforded all the officers that served under him.

Owhyhee,

<sup>\*</sup> It is to be observed, that, among the windward Islands, the k is used instead of the t, as Morokoi instead of Morotoi, &c.

<sup>+</sup> Modoo fignifies island; papapa, flat. This island is called Tammatapappa, by Captain Cook, vol. II. p. 222.

Owhyhee, the Easternmost, and by much the largest, of these islands, is of a triangular shape, and nearly equilateral. The angular points make the North, East, and South extremities, of which the Northern is in latitude 20° 17′ North, longitude 204° 02′ East: the Eastern in latitude 19° 34′ North, longitude 205° 06′ East: and the Southern extremity in latitude 18° 54′ North, longitude 204° 15′ East. Its greatest length, which lies in a direction nearly North and South, is 28½ leagues; its breadth is 24 leagues; and it is about 255 geographical, or 293 English, miles in circumference. The whole island is divided into six large districts; Amakooa and Aheedoo, which lie on the North East side; Apoona and Kaoo on the South East; Akona and Koaarra on the West.

The districts of Amakooa and Aheedoo are separated by a mountain called Mounah Kaah (or the mountain Kaah), which rises in three peaks, perpetually covered with snow, and may be clearly seen at 40 leagues distance.

To the North of this mountain the coast consists of high and abrupt cliffs, down which fall many beautiful cascades of water. We were once flattered with the hopes of meeting with a harbour round a bluff head, in latitude 20° 10′ North, and longitude 204° 26′ East: but, on doubling the point, and standing close in, we found it connected, by a low valley, with another high head to the North West. The country rises inland with a gentle ascent, is intersected by deep narrow glens, or rather chasms, and appeared to be well cultivated and sprinkled over with a number of villages. The snowy mountain is very steep, and the lower part of it covered with wood.

The coast of Aheedoo, which lies to the South of Mouna Kaah, is of a moderate height, and the interior parts appear

more even than the country to the North West, and less broken by ravines. Off these two districts we cruized for almost a month; and, whenever our distance from shore would permit it, were sure of being surrounded by canoes laden with all kinds of refreshments. We had frequently a very heavy sea, and great swell, on this side of the island, and as we had no soundings, and could observe much soul ground off the shore, we never approached nearer the land than two or three leagues, excepting on the occasion already mentioned.

The coast to the North East of Apoona, which forms the Eastern extremity of the island, is low and flat; the acclivity of the inland parts is very gradual, and the whole country covered with cocoa-nut and bread-fruit trees. This, as far as we could judge, is the finest part of the island, and we were afterward told that the king had a place of refidence here. At the South West extremity the hills rise abruptly from the fea-fide, leaving but a narrow border of low ground toward the beach. We were pretty near the shore at this part of the island, and found the sides of the hills covered with a fine verdure; but the country feemed to be very thinly inhabited. On doubling the East point of the island, we came in fight of another fnowy mountain, called Mouna Roa (or the extensive mountain), which continued to be a very confpicuous object all the while we were failing along the South East fide. It is flat at the top, making what is called by mariners table-land: the fummit was conftantly buried in fnow, and we once faw its fides also flightly covered for a confiderable way down; but the greatest part of this disappeared again in a few days.

According to the tropical line of fnow, as determined by Mr. Condamine, from observations taken on the Cordilleras,

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this mountain must be at least 16,020 feet high, which exceeds the height of the Pico de Teyde, or Peak of Tenerisse, by 724 feet, according to Dr. Heberden's computation, or 3680, according to that of the Chevalier de Borda. The peaks of Mouna Kaah appeared to be about half a mile high; and as they are entirely covered with snow, the altitude of their summits cannot be less than 18,400 feet. But it is probable that both these mountains may be considerably higher. For, in insular situations, the effects of the warm sea air must necessarily remove the line of snow, in equal latitudes, to a greater height than where the atmosphere is chilled on all sides by an immense tract of perpetual snow.

The coast of Kaoo presents a prospect of the most horrid and dreary kind: the whole country appearing to have undergone a total change from the effects of some dreadful convulsion. The ground is every where covered with cinders, and intersected in many places with black streaks, which seem to mark the course of a lava that has slowed, not many ages back, from the mountain Roa to the shore. The Southern promontory looks like the mere dregs of a volcano. The projecting head-land is composed of broken and craggy rocks, piled irregularly on one another, and terminating in sharp points.

Notwithstanding the dismalaspect of this part of the island, there are many villages scattered over it, and it certainly is much more populous than the verdant mountains of Apoona. Nor is this circumstance hard to be accounted for. As these islanders have no cattle, they have consequently no use for pasturage, and therefore naturally prefer such ground, as either lies more convenient for fishing, or is best suited to the cultivation of yams and plantains. Now amidst these ruins,

ruins, there are many patches of rich foil, which are carefully laid out in plantations, and the neighbouring fea abounds with a variety of most excellent fish, with which, as well as with other provisions, we were always plentifully supplied. Off this part of the coast we could find no ground, at less than a cable's length from the shore, with a hundred and fixty fathoms of line, excepting in a small bight to the Eastward of the South point, where we had regular soundings of fifty and sifty-eight fathoms over a bottom of sine sand. Before we proceed to the Western districts, it may be necessary to remark, that the whole East side of the island, from the Northern to the Southern extremity, does not afford the smallest harbour or shelter for shipping.

The South West parts of Akona are in the same state with the adjoining district of Kaoo; but farther to the North, the country has been cultivated with great pains, and is extremely populous.

In this part of the ifland is fituated Karakakooa Bay, which has been already described. Along the coast nothing is seen but large masses of slag, and the fragments of black scorched rocks; behind which, the ground rises gradually for about two miles and a half, and appears to have been formerly covered with loose burnt stones. These the natives have taken the pains of clearing away, frequently to the depth of three feet and upward; which labour, great as it is, the fertility of the soil amply repays. Here, in a rich, ashy mould, they cultivate sweet potatoes, and the clothplant. The fields are inclosed with stone-fences, and are interspersed with groves of cocoa-nut trees. On the rising ground beyond these, the bread-fruit trees are planted, and flourish with the greatest luxuriance.

Koaara extends from the Westernmost point to the Nor-Vol. III. P thern

thern extremity of the island; the whole coast between them forming an extensive bay, called Toe-yah-yah, which is bounded to the North by two very conspicuous hills. Toward the bottom of this bay there is foul, corally ground, extending upward of a mile from the shore, without which the soundings are regular, with good anchorage, in twenty fathoms. The country, as far as the eye could reach, seemed fruitful and well inhabited, the soil being in appearance of the same kind with the district of Kaoo; but no fresh water is to be got here.

I have hitherto confined myself to the coasts of this island, and the adjacent country, which is all that I had an opportunity of being acquainted with from my own observation. The only account I can give of the interior parts, is from the information I obtained from a party, who set out, on the afternoon of the 26th of January, on an expedition up the country, with an intention of penetrating as far as they could; and principally of reaching, if possible, the snowy mountains.

Having procured two natives to ferve them as guides, they left the village about four o'clock in the afternoon, directing their course a little to the Southward of the East. To the distance of three or four miles from the bay, they found the country as before described; the hills afterward rose with a more sudden ascent, which brought them to the extensive plantations, that terminate the view of the country, as seen from the ships.

These plantations consist of the \* tarrow or eddy root, and the sweet potatoe, with plants of the cloth-tree, neatly

fet out in rows. The walls that feparate them are made of the loofe burnt stones, which are got in clearing the ground; and, being entirely concealed by sugar-canes, planted close on each side, make the most beautiful sences that can be conceived. The party stopped for the night at the second hut they found amongst the plantations, where they judged themselves to be about six or seven miles from the ships. They described the prospect from this spot as very delightful; they saw the ships in the bay before them; to the lest, a continued range of villages, interspersed with groves of cocoa-nut-trees, spreading along the sea-shore; a thick wood stretching out of sight behind them; and to the right, an extent of ground laid out in regular and well-cultivated plantations, as far as the eye could reach.

Near this fpot, at a diffance from any other dwelling, the natives pointed out to them the refidence of an hermit, who, they faid, had formerly been a great chief and warrior, but had long ago quitted the shores of the island, and now never stirred from his cottage. They prostrated themfelves as they approached him, and afterward presented to him a part of such provisions as they had brought with them. His behaviour was easy and cheerful; he scarce shewed any marks of astonishment at the sight of our people, and though pressed to accept some of our curiosities.

light mould; the latter is left bare to the root, and the mould round it is made in the form of a bason, in order to hold the rain-water, as this root requires a certain degree of moisture. It has been before observed, that the tarrow, at the Friendly and Society Islands, was always planted in low and moist situations, and, generally, where there was the conveniency of a rivulet to flood it. It was imagined that this mode of culture was absolutely necessary; but we now found, that, with the precaution above mentioned, it succeeds equally well in a drier situation: indeed, we all remarked, that the tarrow of the Sandwich Islands is the best we had ever tasted. The plantains are not admitted in these plantations, but grow amongst the bread-fruit trees.

<sup>\*</sup> Both the fweet potatoes, and the tarrow, are here planted four feet from each other: the former was earthed up almost to the top of the stalk, with about half a bushel of light

he declined the offer, and foon withdrew to his cottage. He was described as by far the oldest person any of the party had ever seen, and judged to be, by those who computed his age at the lowest, upward of 100 years old.

As our people had imagined the mountain not to be more than ten or twelve miles from the bay, and confequently, that they should reach it with ease early the next morning, an error into which its great height had probably led them, they were now much surprized to find the distance scarce perceptibly diminished. This circumstance, together with the uninhabited state of the country they were going to enter, made it necessary to procure a supply of provisions; and for that purpose they dispatched one of their guides back to the village. Whilst they were waiting his return, they were joined by some of Kaoo's servants, whom that benevolent old man had sent after them, as soon as he heard of their journey, laden with refreshments, and authorized, as their route lay through his grounds, to demand and take away whatever they might have occasion for.

Our travellers were much aftonished to find the cold here so intense; but having no thermometer with them, could judge of it only by their feelings; which, from the warm atmosphere they had left, must have been a very fallacious measure. They found it, however, so cold, that they could get but little sleep, and the natives none at all; both parties being disturbed, the whole night, by continued coughing. As they could not, at this time, be at any very considerable height, the distance from the sea being only six or seven miles, and part of the road on a very moderate ascent, this extraordinary degree of cold must be ascribed to the easterly wind blowing fresh over the snowy mountains.

Early

Early on the 27th, they fet out again, and filled their calibashes at an excellent well about half a mile from their hut. Having paffed the plantations, they came to a thick wood, which they entered by a path made for the convenience of the natives, who go thither to fetch the wild or horfe-plantain, and to catch birds. Their progress now became very flow, and attended with much labour; the ground being either fwampy, or covered with large stones; the path narrow, and frequently interrupted by trees lying across it, which it was necessary to climb over, the thickness of the underwood, on both fides, making it imposfible to pass round them. In these woods they observed, at fmall distances, pieces of white cloth fixed on poles, which they fupposed to be land-marks for the division of property, as they only met with them where the wild plantains grew. The trees, which are of the fame kind with those we called the spice-tree at New Holland, were lofty and straight, and from two to four feet in circumference.

After they had advanced about ten miles in the wood, they had the mortification to find themselves, on a sudden, within sight of the sea, and at no great distance from it; the path having turned imperceptibly to the Southward, and carried them to the right of the mountain, which it was their object to reach. Their disappointment was greatly increased by the uncertainty they were now under of its true bearings, since they could not, at this time, get a view of it from the top of the highest trees. They, therefore, found themselves obliged to walk back six or seven miles to an unoccupied hut, where they had left three of the natives, and two of their own people, with the small stock that remained of their provisions. Here they spent the second night;

night; and the air was fo very fharp, and fo little to the liking of their guides, that, by the morning, they had all departed, except one.

The want of provisions now making it necessary to return to fome of the cultivated parts of the island, they quitted the wood by the fame path they had entered it; and, on their arrival at the plantations, were furrounded by the natives, of whom they purchased a fresh stock of necessaries; and prevailed upon two of them to supply the place of the guides that were gone away. Having obtained the best information in their power, with regard to the direction of their road, the party, being now nine in number, marched along the skirts of the wood for fix or feven miles, and then entered it again by a path that bore to the Eastward. For the first three miles, they passed through a forest of lofty spice-trees, growing on a strong rich loam; at the back of which they found an equal extent of low fhrubby trees, with much thick underwood, on a bottom of loofe burnt stones. This led them to a fecond forest of fpice-trees, and the fame rich brown foil, which was again fucceeded by a barren ridge of the fame nature with the former. This alternate fuccession may, perhaps, afford matter of curious speculation to naturalists. The only additional circumstance I could learn relating to it was, that these ridges appeared, as far as they could be seen, to run in directions parallel to the fea-shore, and to have Mouna Roa for their centre.

In paffing through the woods, they found many canoes half-finished; and, here and there, a hut; but saw none of the inhabitants. Having penetrated near three miles into the fecond wood, they came to two huts, where they ftopped, exceedingly fatigued with the day's journey, having walked

walked not less than twenty miles, according to their own computation. As they had met with no fprings, from the March. time they left the plantation-ground, and began to fuffer much from the violence of their thirst, they were obliged, before the night came on, to feparate into parties, and go in fearch of water; and, at last, found some, left by rain in the bottom of an unfinished canoe; which, though of the colour of red wine, was to them no unwelcome discovery. In the night, the cold was ftill more intense than they had found it before; and though they had wrapped themselves up in mats and cloths of the country, and kept a large fire between the two huts, they could yet fleep but very little; and were obliged to walk about the greatest part of the night. Their elevation was now probably pretty confiderable, as the ground on which they had travelled had been generally on the afcent.

On the 29th, at day-break, they fet out, intending to make their last and utmost effort to reach the snowy mountain; but their fpirits were much depressed, when they found they had expended the miferable pittance of water they had found the night before. The path, which extended no farther than where canoes had been built, was now at an end; and they were therefore obliged to make their way as well as they could; every now and then climbing up into the highest trees, to explore the country round. At eleven o'clock, they came to a ridge of burnt stones, from the top of which they faw the fnowy mountain, appearing to be about twelve or fourteen miles from them.

It was here deliberated, whether they should proceed any further, or rest satisfied with the view they now had of Mouna Roa. The road, ever fince the path ceafed, had become exceedingly fatiguing; and, every flep they 10 advanced,

advanced, was growing still more fo. The deep chinks, with which the ground was every where broken, being flightly covered with moss, made them stumble at almost every step; and the intermediate space was a furface of loofe burnt stones, which broke under their feet like potsherds. They threw stones into several of these chinks; which, by the noise they made, seemed to fall to a confiderable depth, and the ground founded hollow under their feet. Befides these discouraging circumstances, they found their guides so averse to going on, that they believed, whatever their own determinations might have been, they could not have prevailed on them to remain out another night. They, therefore, at last agreed to return to the ships, after taking a view of the country, from the highest trees which the place afforded. From this elevation they faw themselves furrounded, on all fides, with wood; toward the fea, they could not diffinguish, in the horizon, the sky from the water; and between them and the fnowy mountain, was a valley about feven or eight miles broad, above which the mountain appeared only as a hill of a moderate fize.

They rested this night at a hut in the second wood, and on the 30th, before noon, they had got clear of the first, and found themselves about nine miles to the North East of the ships, toward which they directed their march through the plantations. As they paffed along, they did not observe a fingle fpot of ground, that was capable of improvement, left unplanted; and, indeed, it appeared, from their account, hardly possible for the country to be cultivated to greater advantage for the purpofes of the inhabitants, or made to yield them a larger fupply of necessaries for their fubfift-

ence.

ence. They were furprized to meet with feveral fields of hay; and on inquiring to what uses it was applied, were told, it was defigned to cover the young tarrow grounds, in order to preferve them from being fcorched by the fun. They faw a few fcattered huts amongst the plantations, which ferved for occasional shelter to the labourers; but no villages at a greater diftance than four or five miles from the fea. Near one of them, about four miles from the bay, they found a cave, forty fathoms long, three broad, and of the fame height. It was open at both ends; the fides were fluted, as if wrought with a chiffel, and the furface glazed over, probably by the action of fire.

Having given this account of the most material circumftances that occurred on the expedition to the fnowy mountain, I shall now return to the other islands that remain to be defcribed.

The island next in fize, and nearest in situation, to Owhyhee, is Mowee; which lies at the distance of eight leagues North North West from the former, and is 140 geographical miles in circumference. A low ifthmus divides it into two circular peninfulas, of which that to the East is called Whamadooa, and is double the fize of the Western peninfula called Owhyrookoo. The mountains in both rife to an exceeding great height, having been feen by us at the diftance of upward of thirty leagues. The Northern shores, like those of Owhyhee, afford no foundings; and the country prefents the fame appearance of verdure and fertility. To the South East, between this and the adjacent ifles, we had regular depths with a hundred and fifty fathoms, with a fandy bottom. From the West point, which is low, runs a shoal, stretching out toward Ranai, to a confiderable diftance; and to the Southward of

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this, is a fine spacious bay, with a fandy beach, shaded with cocoa-nut trees. It is probable that good anchorage might be found here, with shelter from the prevailing winds, and that the beach affords a convenient place for landing. The country behind presents a most romantic appearance. The hills rise almost perpendicularly, in a great variety of peaked forms; and their steep sides, and the deep chasms between them, are covered with trees, amongst which those of the bread-fruit were observed particularly to abound. The tops of these hills are entirely bare, and of a reddish brown colour. We were informed by the natives, that there is an harbour to the Southward of the East point, which they affirmed to be superior to that of Karakakooa; and we were also told, that, on the North West side, there was another harbour, called Keepookeepoo.

Tahoorowa is a fmall ifland lying off the South West part of Mowee, from which it is distant three leagues. This island is destitute of wood, and the soil seems to be fandy and barren. Between Tahowrowa and Mowee lies the small uninhabited island Morrotinnee.

Morotoi is only two leagues and a half from Mowee to the West North West. The South Western coast, which was the only part near which we approached, is very low; but the land rises backward to a considerable height; and, at the distance from which we saw it, appeared to be entirely without wood. Its produce, we were told, consists chiefly of yams. It may, probably, have fresh water, and, on the South and West sides, the coast forms several bays, that promise good shelter from the trade winds.

Ranai is about three leagues distant from Mowee and Morotoi, and lies to the South West of the passage between these these islands. The country, to the South, is high and craggy; but the other parts of the island had a better aspect, and appeared to be well inhabited. We were told that it produces very few plantains, and bread-fruit trees; but that it abounds in roots, such as yams, sweet potatoes, and tarrow.

Woahoo lies to the North West of Morotoi, at the distance of about feven leagues. As far as we could judge, from the appearance of the North East and North West parts (for we faw nothing of the Southern fide), it is by far the finest island of the whole group. Nothing can exceed the verdure of the hills, the variety of wood and lawn, and rich cultivated vallies, which the whole face of the country difplayed. Having already given a description of the bay, formed by the North and West extremities, in which we came to anchor, I have only to observe, that in the bight of the bay, to the South of the anchoring-place, we found rocky foul ground, two miles from the shore. Should the ground tackling of a ship be weak, and the wind blow ftrong from the North, to which quarter the road is entirely open, this circumstance might be attended with some danger; but with good cables there would be little rifk, as the ground from the anchoring-place, which is opposite to the valley through which the river runs, to the North point, is a fine fand.

Atooi lies to the North West of Woahoo, and is distant from it about twenty-five leagues. The face of the country, to the North East and North West, is broken and ragged; but to the South it is more even; the hills rise with a gentle slope from the sea-side, and, at some distance back, are covered with wood. Its productions are the same with those of the other islands; but the inhabitants far surpass all the Q 2 neighbouring

neighbouring islanders in the management of their plantations. In the low grounds, adjoining to the bay where we lay at anchor, these plantations were divided by deep and regular ditches; the fences were made with a neatness approaching to elegance, and the roads through them were thrown up and finished, in a manner that would have done credit to any European engineer.

Oneeheow lies five leagues to the Westward of Atooi. The Eastern coast is high, and rises abruptly from the sea, but the rest of the island consists of low ground; excepting a round bluff head on the South East point. It produces abundance of yams, and of the sweet root called Tee; but we got from it no other fort of provisions.

Oreehoua, and Tahoora, are two fmall islands in the neighbourhood of Oneeheow. The former is a fingle high hummock, joined by a reef of coral rocks to the Northern extremity of Oneeheow. The latter lies to the South West, and is uninhabited.

The climate of the Sandwich Islands differs very little from that of the West India Islands, which lie in the same latitude. Upon the whole, perhaps, it may be rather more temperate. The thermometer, on shore in Karakakooa Bay, never rose higher than 88°, and that but one day; its mean height, at noon, was 83°. In Wymoa Bay, its mean height at noon was 76°, and when out at sea, 75°. The mean height of the thermometer at noon, in Jamaica, is about 86°, at sea 80°.

Whether they be subject to the same violent winds and hurricanes, we could not discover, as we were not there in any of the stormy months. However, as the natives gave us no positive testimony of the fact, and no traces of their effects were any where visible, it is probable that, in this respect,

respect, they resemble the Society and Friendly Islands, which are, in a great measure, free from these dreadful visitations.

During the four winter months that we remained amongst these islands, there was more rain, especially in the interior parts, than usually falls during the dry season in the islands of the West Indies. We generally saw clouds collecting round the tops of the hills, and producing rain to leeward; but after they are separated from the land by the wind, they disperse, and are lost, and others succeed in their place. This happened daily at Owhyhee: the mountainous parts being generally enveloped in a cloud; successive showers falling in the inland country; with sine weather, and a clear sky at the sea-shore.

The winds in general were, from East South East to North East; though they sometimes varied a few points each way to the North and South; but these were light, and of short duration. In the harbour of Karakakooa, we had a constant land and sea-breeze every day and night.

The currents feemed very uncertain; fometimes fetting to windward; and, at other times, to leeward, without any regularity. They did not appear to be governed by the winds, nor any other cause that I can affign: they frequently set to windward against a fresh breeze.

The tides are very regular, flowing and ebbing fix hours each. The flood comes from the Eastward; and it is high water, at the full and change of the moon, forty-five minutes past three, apparent time. Their greatest rise is two feet seven inches; and we always observed the water to be four inches higher when the moon was above the horizon, than when it was below.

The quadrupeds in these, as in all the other islands that

have been difcovered in the South fea, are confined to three forts, dogs, hogs, and rats. The dogs are of the fame species with those of Otaheite, having short crooked legs, long backs, and pricked ears. I did not observe any variety in them, except in their fkins; fome having long and rough hair, and others being quite fmooth. They are about the fize of a common turnspit; exceedingly fluggish in their nature; though perhaps this may be more owing to the manner in which they are treated, than to any natural difposition in them. They are, in general, fed, and left to herd, with the hogs; and I do not recollect one infrance in which a dog was made a companion in the manner we do in Europe. Indeed the custom of eating them is an infeparable bar to their admission into society; and, as there are neither beafts of prey in the island, nor objects of chace, it is probable, that the focial qualities of the dog, its fidelity, attachment, and fagacity, will remain unknown to the natives.

The number of dogs in these islands did not appear to be nearly equal, in proportion, to those in Otaheite. But on the other hand, they abound much more in hogs; and the breed is of a larger and weightier kind. The fupply of provisions of this kind, which we got from them, was really aftonishing. We were near four months, either cruifing off the coast, or in harbour at Owhyhee. During all this time, a large allowance of fresh pork was constantly served to both crews: fo that our confumption was computed at about fixty puncheons of five hundred weight each. Besides this, and the incredible waste which, in the midst of such plenty, was not to be guarded against, fixty puncheons more were falted for fea store. The greatest part of this supply was drawn from the ifland of Owhyhee alone, and yet we could

not perceive that it was at all drained, or even that the abundance had any way decreafed.

The birds of these islands are as beautiful as any we have feen during the voyage, and are numerous, though not various. There are four, which feem to belong to the trochili, or honey-fuckers of Linnæus; one of which is fomething larger than a bullfinch; its colour is a fine gloffy black, the rump, vent, and thighs a deep yellow. It is called by the natives booboo. Another is of an exceeding bright scarlet colour; the wings black, and edged with white; and the tail black; its native name is eeeeve. A third, which feems to be either a young bird, or a variety of the foregoing, is variegated with red, brown, and yellow. The fourth is entirely green, with a tinge of yellow, and is called akaiearooa. There is a species of thrush, with a grey breast; and a small bird of the flycatcher kind; a rail, with very short wings and no tail, which, on that account, we named rallus ecaudatus. Ravens are found here, but they are very scarce; their colour is dark brown, inclining to black; and their note is different from the European. Here are two small birds, both of one genus, that are very common; one is red, and generally feen about the cocoa-nut trees, particularly when they are in flower, from whence it feems to derive great part of its fubfiftence; the other is green; the tongues of both are long and ciliated, or fringed at the tip. A bird with a yellow head, which, from the structure of its beak, we called a parroquet, is likewife very common. It, however, by no means belongs to that tribe, but greatly refembles the lexia flavicans, or yellowish cross-bill of Linnæus.

Here are also owls, plovers of two forts, one very like the whiftling plover of Europe; a large white pigeon; a

bird with a long tail, whose colour is black, the vent and feathers under the wing (which is much longer than is usually seen in the generality of birds, except the birds of paradife) are yellow; and the common water or darker hen.

Their vegetable productions are nearly the fame with the rest of the South-sea islands. I have before mentioned, that the tarrow root is much fuperior to any we had before tasted, and that we attributed this excellence to the dry method of cultivating it. The bread-fruit trees thrive here, not in fuch abundance, but produce double the quantity of fruit they do on the rich plains of Otaheite. The trees are nearly of the fame height, but the branches begin to strike out from the trunk much lower, and with greater luxuriance. Their fugar-canes are also of a very unusual fize. One of them was brought to us at Atooi, measuring eleven inches and a quarter in circumference; and having fourteen feet eatable.

At Oneeheow they brought us feveral large roots of a brown colour, shaped like a yam, and from fix to ten pounds in weight. The juice, which it yields in great abundance, is very fweet, and of a pleafant tafte, and was found to be an excellent fubflitute for fugar. The natives are very fond of it, and use it as an article of their common diet; and our people also found it very palatable and wholefome. We could not learn to what species of plant it belonged, having never been able to procure the leaves; but it was supposed, by our botanists, to be the root of some kind of fern.

Agreeably to the practice of Captain Cook, I shall subjoin an abstract of the astronomical observations which were made at the observatory in Karakakooa Bay, for determining

termining its latitude and longitude, and for finding the rate and error of the time-keeper. To these are subjoined the mean variation of the compass, the dip of the magnetic needle, and a table of the latitude and longitude of the Sandwich Islands.

The latitude of the observatory, deduced from meridian zenith distances of the fun, eleven ftars to the South, and four flars to the North of the zenith - - - - -

19° 28′ 0″ North.

The longitude of the observatory, deduced from 253 fets of lunar observations; each fet confifting of fix obferved distances of the moon from the fun, or ftars; 14 of the above fets were only taken at the observatory, 105 fets being taken whilft cruizing off Owhyhee; and 134 fets, when at Atooi and Oneeheow; all these being reduced to the observatory, by means of the time-keeper - - -

204 0 0 Eaft.

The longitude of the observatory, by the time-keeper, on the 19th January 1779, according to its rate, as found at Greenwich - - - 214 7 15 East.

The longitude of the observatory, by the time-keeper, on the 19th January 1779, according to its rate, corrected at different places, and last at Samga-

The

noodha Harbour, in Oonalafchka - 203 37 22 Eaft. VOL. III.

The daily rate of the time-keeper lofing on mean time, was 9", 6; and on the 2d February 1779, it was 14h 41' 1" too flow for mean time. The variation of the compass, by azimuths observed on shore, with four different compaffes - - -8° 6′ 0″ East. The variation of the compass, by azimuths, observed on board the Resolution, with four different compasses - 7 32 o East. Dip of the North pole of (Balancedneedle) 40 22 30 the magnetic needle Unbalanced or plain needle 40 41 15 on shore, with Dip of the North pole of Balanced needle 141 50 0 the magnetic needle Unbalanced 140 30 45 on board, with needle

A Table of the Latitude and Longitude of the Sandwich Islands.

	Islands.				
	thing multiple		Latitude.	Longitude.	
	The North point		20° 17′	204° 2′	
Owhyhee	South point	-	18 54	204 15	
	East point -	-	19 34	205 6	
	Karakakooa Bay		19 28	204 0	
	[East point -		20 50	204 4	
Mowee	South point -		20 34	203 48	
	West point -		20 54	203 24	
Morokinne	e	-	20 39	203 33	
Tahoorowa		-	20 38	203 27	
Ranai. So	uth point	-	20 46	203 8	
Morotoi.	West point	-	21 10	202 46	
				Woahoo.	

							Latitude.		Longitude.	
Woahoo.	Anch	oring-pl	ace	-		-	21°	43	202°	9
Atooi. Wy	moa	Bay	-	-		-	21	57	200	20
Oneeheow.	And	horing-	place	-		-	21	50	199	45
Oreehoua	-		-	2		-	22	2	199	52
Tahoora		-	-			-	21	43	199	36

CHAP.

## CHAP. VII.

General Account of the Sandwich Islands continued.—Of the Inhabitants.—Their Origin.—Persons.—Pernicious Effects of the Ava.—Numbers.—Disposition and Manners.—Reasons for supposing them not Cannibals.—Dress and Ornaments.—Villages and Houses.—Food.—Occupations and Amusements.—Addicted to Gaming.—Their extraordinary Dexterity in Swimming.—Arts and Manusactures.—Curious Specimens of their Sculpture.—Kipparee, or Method of painting Cloth.—Mats.—Fishing Hooks.—Cordage.—Salt Pans.—Warlike Instruments.

1779. March. THE inhabitants of the Sandwich Islands are undoubtedly of the same race with those of New Zealand, the Society and Friendly Islands, Easter Island, and the Marquesas; a race that possesses, without any intermixture, all the known lands between the latitudes of 47° South, and 20° North, and between the longitudes of 184° and 260° East. This fact, which, extraordinary as it is, might be thought sufficiently proved by the striking similarity of their manners and customs, and the general resemblance of their persons, is established, beyond all controversy, by the absolute identity of their language.

From what continent they originally emigrated, and by what steps they have spread through so vast a space, those who are curious in disquisitions of this nature, may perhaps not find it very difficult to conjecture. It has been already observed, that they bear strong marks of affinity to some of the Indian tribes, that inhabit the Ladrones and Caroline Islands; and the same affinity may again be traced amongst the Battas and the Malays. When these events happened, is not so easy to ascertain; it was probably not very lately, as they are extremely populous, and have no tradition of their own origin, but what is perfectly fabulous; whilst, on the other hand, the unadulterated state of their general language, and the similarity which still prevails in their customs and manners, seem to indicate, that it could not have been at any very distant period.

The natives of these islands are, in general, above the middle fize, and well made; they walk very gracefully, run nimbly, and are capable of bearing great fatigue; though, upon the whole, the men are fomewhat inferior, in point of strength and activity, to the Friendly islanders, and the women lefs delicately limbed than those of Otaheite. Their complexion is rather darker than that of the Otaheiteans, and they are not altogether fo handsome a people \*. However, many of both fexes had fine open countenances; and the women, in particular, had good eyes and teeth, and a fweetness and fensibility of look, which rendered them very engaging. Their hair is of a brownish black, and neither uniformly straight, like that of the Indians of America, nor uniformly curling, as amongst the African negroes, but varying, in this respect, like the hair of Europeans. One striking peculiarity, in the features of every part of this great nation, I do not remember to have feen

<sup>\*</sup> The annexed print of a man of Sandwich Islands, was taken from a portrait of our riend Kaneena.

any where mentioned; which is, that, even in the handfomest faces, there is always a fulness of the nostril, without
any flatness or spreading of the nose, that distinguishes
them from Europeans. It is not improbable that this
may be the effect of their usual mode of falutation, which
is performed by pressing the ends of their noses together.

The fame fuperiority that is observable in the persons of the Erees, through all the other islands, is found also here. Those whom we saw were, without exception, perfectly well formed; whereas the lower fort, befides their general inferiority, are fubject to all the variety of make and figure that is feen in the populace of other countries. Inflances of deformity are more frequent here, than in any of the other islands. Whilst we were cruising off Owhyhee, two dwarfs came on board, one an old man, four feet two inches high, but exactly proportioned, and the other a woman, nearly of the fame height. We afterward faw three natives who were hump-backed, and a young man, born without hands or feet. Squinting is also very common amongst them; and a man, who, they faid, had been born blind, was brought to us to be cured. Besides these particular imperfections, they are, in general, very fubject to boils and ulcers, which we attributed to the great quantity of falt they eat with their flesh and fish. The Erees are very free from these complaints; but many of them suffer still more dreadful effects from the immoderate use of the ava. Those who were the most affected by it, had their bodies covered with a white fcurf, their eyes red and inflamed, their limbs emaciated, the whole frame trembling and paralytic, accompanied with a difability to raife the head. Though this drug does not appear univerfally to shorten life, as was evident evident from the cases of Terreeoboo, Kaoo, and some other Chiefs, who were very old men; yet it invariably brings on an early and decrepid old age. It is fortunate, that the use of it is made one of the peculiar privileges of the Chiefs. The young son of Terreeoboo, who was about twelve years old, used to boast of his being admitted to drink ava, and shewed us, with great triumph, a small spot in his side that was growing scaly.

There is fomething very fingular in the history of this pernicious drug. When Captain Cook first visited the Society Islands, it was very little known among them. On his fecond voyage, he found the use of it very prevalent at Ulietea; but it had ftill gained very little ground at Otaheite. When we were last there, the dreadful havock it had made was beyond belief, infomuch that the Captain fcarce knew many of his old acquaintances. At the Friendly Islands, it is also constantly drunk by the Chiefs, but fo much diluted with water, that it does not appear to produce any bad effects. At Atooi, also, it is used with great moderation, and the Chiefs are, in confequence, a much finer fet of men there, than in any of the neighbouring islands. We remarked, that, by discontinuing the use of this root, the noxious effects of it soon wore off. Our good friends, Kaireekeea and old Kaoo, were perfuaded by us to refrain from it; and they recovered amazingly during the fhort time we afterward remained in the island.

It may be thought extremely difficult to form any probable conjectures respecting the population of islands, with many parts of which we are but imperfectly acquainted. There are, however, two circumstances, that take away

much of this objection; the first is, that the interior parts of the country are entirely uninhabited; so that, if the number of the inhabitants along the coast be known, the whole will be pretty accurately determined. The other is, that there are no towns of any considerable size, the habitations of the natives being pretty equally dispersed in small villages round all their coasts. It is on this ground that I shall venture at a rough calculation of the number of perfons in this group of islands.

The bay of Karakakooa, in Owhyhee, is three miles in extent, and contains four villages of about eighty houses each, upon an average; in all three hundred and twenty; befides a number of straggling houses; which may make the whole amount to three hundred and fifty. From the frequent opportunities I had of informing myfelf on this head, I am convinced, that fix persons to a house is a very moderate allowance; fo that, on this calculation, the country about the bay contains two thousand one hundred fouls. To these may be added fifty families, or three hundred persons, which I conceive to be nearly the number employed in the interior parts of the country amongst their plantations; making in all two thousand four hundred. If, therefore, this number be applied to the whole extent of coast round the island, deducting a quarter for the uninhabited parts, it will be found to contain one hundred and fifty thousand. By the same mode of calculation, the rest of the islands will be found to contain the following numbers:

Owhyhee,

	Owhyhee,	unlin-os	bn - 15	Lina - Lie	150,000
	Mowee,	לווכוב-מו	levil a	site File	65,400
	Woahoo,	3mr - 0	721- E	W = 0	60,200
	Atooi,	-	-	-	54,000
	Morotoi,	swife dies	The lo	of Jay	36,000
efon, che	Oneeheow,	31 22 d	10161 EL	Service do	10,000
enly ec	Ranai,	e violi	- nom	ewred)	20,400
and order	Oreehoua,	ring o	aire i	0 01 - H	4,000
and leading	carrie plots if	nobban		watertu.	
	Total of	inhabit	ants,		400,000

I am pretty confident, that, in this calculation, I have not exceeded the truth in the total amount. If we compare the numbers fupposed to be in Owhyhee, with the population of Otaheite, as settled by Dr. Forster, this computation will be found very low. The proportion of coast, in the latter island, is, to that of Owhyhee, only as one to three: the number of inhabitants in Otaheite he states to be one hundred and twenty-one thousand five hundred; though, according to his own principles, it should be double that amount. Again, if we compare it with the medium population of the countries in Europe, the proportion will be in favour of the latter nearly as two to one.

Notwithstanding the irreparable loss we suffered from the sudden resentment and violence of these people, yet, in justice to their general conduct, it must be acknowledged, that they are of the most mild and affectionate disposition; equally remote from the extreme levity and sickleness of the Otaheiteans, and the distant gravity and reserve of the inhabitants of the Friendly Islands. They appear to live in the utmost harmony and friendship with one another. The women, who had children, were re-Vol. III.

markable for their tender and constant attention to them; and the men would often lend their affistance in those domestic offices, with a willingness that does credit to their feelings.

It must, however, be observed, that they fall very short of the other islanders, in that best test of civilization, the respect paid to the women. Here they are not only deprived of the privilege of eating with the men, but the best sorts of food are tabooed, or forbidden them. They are not allowed to eat pork, turtle, several kinds of sish, and some species of the plantains; and we were told that a poor girl got a terrible beating, for having eaten, on board our ship, one of these interdicted articles. In their domestic life, they appear to live almost entirely by themselves, and though we did not observe any instances of personal ill-treatment, yet it was evident they had little regard or attention paid them.

The great hospitality and kindness, with which we were received by them, have been already frequently remarked; and indeed they make the principal part of our transactions with them. Whenever we came on shore, there was a constant struggle who should be most forward in making us little presents, bringing refreshments, or shewing some other mark of their respect. The old people never failed of receiving us with tears of joy; seemed highly gratisted with being allowed to touch us, and were constantly making comparisons between themselves and us, with the strongest marks of humility. The young women were not less kind and engaging, and, till they found, notwithstanding our utmost endeavours to prevent it, that they had reason to repent of our acquaintance, attached themselves to us without the least reserve.

In justice, however, to the sex, it must be observed, that these

these ladies were probably all of the lower class of the people; for I am strongly inclined to believe, that, excepting the few, whose names are mentioned in the course of our narrative, we did not see any woman of rank during our stay amongst them.

Their natural capacity feems, in no respect, below the common standard of mankind. Their improvements in agriculture, and the perfection of their manufactures, are certainly adequate to the circumstances of their situation, and the natural advantages they enjoy. The eager curiosity, with which they attended the armourer's forge, and the many expedients they had invented, even before we left the islands, for working the iron they had procured from us, into such forms as were best adapted to their purposes, were strong proofs of docility and ingenuity.

Our unfortunate friend, Kaneena, possessed a degree of judicious curiosity, and a quickness of conception, which was rarely met with amongst these people. He was very inquisitive after our customs and manners; asked after our King; the nature of our government; our numbers; the method of building our ships; our houses; the produce of our country; whether we had wars; with whom; and on what occasions; and in what manner they were carried on; who was our God; and many other questions of the same nature, which indicated an understanding of great comprehension.

We met with two instances of persons disordered in their minds, the one a man at Owhyhee, the other a woman at Oneeheow. It appeared, from the particular attention and respect paid to them, that the opinion of their being inspired by the Divinity, which obtains among most of the nations of the East, is also received here.

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Though the custom of eating the bodies of their enemies, be not known, by positive evidence, to exist in any of the South Sea Islands, except New Zealand, yet it is extremely probable, that it was originally prevalent in them all. The facrificing human victims, which feems evidently to be a relick of this horrid practice, still obtains univerfally amongst these islanders; and it is easy to conceive, why the New Zealanders should retain the repast, which was probably the last act of these shocking rites, longer than the rest of their tribe, who were situated in more mild and fruitful climates. As the inhabitants of the Sandwich Islands certainly bear a nearer refemblance to those of New Zealand, both in their persons and disposition, than to any other people of this family, fo it was ftrongly fuspected, by Mr. Anderson, that, like them, they still continue to feast on human flesh. The evidence, on which he founds this opinion, has been stated very fully in the tenth chapter of the third book \*; but, as I always entertained great doubts of the justice of his conclusions, it may not be improper to take this occasion of mentioning the grounds on which I venture to differ from him. With respect to the information derived from the natives themselves, I shall only observe, that great pains were taken, by almost every officer on board, to come at the knowledge of fo curious a circumstance; and that, except in the two instances mentioned by Mr. Anderson, we found them invariably denying the existence of any such custom amongst them. It must be allowed, that Mr. Anderson's knowledge of their language, which was fuperior to that of any other person in either ship, ought certainly to give his opinion great weight; at the fame time, I must beg leave to re-

\* See Vol. II. p. 209, 210-214.

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mark, that, being prefent when he examined the man who had the fmall piece of falted flesh wrapped in cloth, it struck me very forcibly, that the figns he made use of meant nothing more, than that it was intended to be eat, and that it was very pleafant or wholefome to the ftomach. In this opinion I was confirmed, by a circumftance which came to our knowledge, after the death of my worthy and ingenious friend, viz. that almost every native of these islands carried about with him, either in his calibash, or wrapped up in a piece of cloth, and tied about his waift, a fmall piece of raw pork, highly falted, which they confidered as a great delicacy, and used now and then to taste of. With respect to the confusion the young lad was in (for he was not more than fixteen or eighteen years of age), no one could have been furprized at it, who had feen the eager and earnest manner in which Mr. Anderson queftioned him.

The argument drawn from the inftrument made with shark's teeth, and which is nearly of the same form with those used at New Zealand for cutting up the bodies of their enemies, is much more difficult to controvert. I believe it to be an undoubted fact, that this knife, if it may be so called, is never used by them in cutting the sless of other animals. However, as the custom of offering human facrifices, and of burning the bodies of the slain, is still prevalent here, it is not improbable, that the use of this instrument is retained in those ceremonies. Upon the whole, I am strongly inclined to think, and particularly from this last circumstance, that the horrid practice, in question, has but lately ceased amongst these and other islands of the South Sea. Omai, when pressed on this subject, confessed, that, in the rage and sury of revenge, they would some-

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times tear the flesh of their enemies, that were slain, with their teeth; but positively denied that they ever eat it. This was certainly approaching as near the fact as could be; but, on the other hand, the denial is a ftrong proof that the practice has actually ceased; fince in New Zealand, where it still exists, the inhabitants never made the smallest fcruple of confessing it.

The inhabitants of these islands differ from those of the Friendly Isles, in fuffering, almost universally, their beards to grow. There were, indeed, a few, amongst whom was the old king, that cut it off entirely; and others that wore it only upon the upper lip. The fame variety, in the manner of wearing the hair, is also observable here, as among the other islanders of the South Sea; besides which, they have a fashion, as far as we know, peculiar to themselves. They cut it close on each fide the head, down to the ears, leaving a ridge, of about a fmall hand's breadth, running from the forehead to the neck; which, when the hair is thick and curling, has the form of the creft of the ancient helmet. Others wear large quantities of false hair, flowing down their backs in long ringlets, like the figure of the inhabitants of Horn Island, as feen in Dalrymple's Voyages; and others, again, tie it into a fingle round bunch on the top of the head, almost as large as the head itself; and fome into five or fix diffinct bunches. They daub their hair with a grey clay, mixed with powdered shells, which they keep in balls, and chew into a kind of foft paste, when they have occasion to make use of it. This keeps the hair fmooth; and, in time, changes it to a pale yellow colour.

Both fexes wear necklaces, made of strings of small variegated shells; and an ornament, in the form of the handle

of a cup, about two inches long, and half an inch broad, made of wood, stone, or ivory, finely polished, which is hung about the neck, by fine threads of twifted hair, doubled fometimes an hundred fold. Inflead of this ornament, fome of them wear, on their breaft, a fmall human figure, made of bone, fuspended in the same man-

The fan, or fly-flap, is also an ornament used by both fexes. The most ordinary kind are made of the fibres of the cocoa-nut, tied loofe, in bunches, to the top of a fmooth polished handle. The tail-feathers of the cock, and of the tropic-bird, are also used in the same manner; but the most valuable are those which have the handle made of the arm or leg bones of an enemy flain in battle, and which are preferved with great care, and handed down, from father to fon, as trophies of inestimable value.

The custom of tattowing the body, they have in common with the rest of the natives of the South Sea Islands; but it is only at New Zealand, and the Sandwich Islands, that they tattow the face. There is also this difference between the two last, that, in the former, it is done in elegant spiral volutes, and in the latter, in straight lines, croffing each other at right angles. The hands and arms of the women are also very neatly marked, and they have a fingular custom amongst them, the meaning of which we could never learn, that of tattowing the tip of the tongues of the females.

From fome information we received, relative to the cuftom of tattowing, we were inclined to think, that it is frequently intended as a fign of mourning on the death of a Chief, or any other calamitous event. For we were often told, that fuch a particular mark was in memory of fuch a

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Chief; and fo of the rest. It may be here, too, observed, that the lowest class are often *tattowed* with a mark, that distinguishes them as the property of the several Chiefs to whom they belong.

The drefs of the men generally confifts only of a piece of thick cloth called the maro, about ten or twelve inches broad, which they pass between the legs, and tie round the waist. This is the common drefs of all ranks of people. Their mats, fome of which are beautifully manufactured, are of various fizes, but mostly about five feet long, and four broad. These they throw over their shoulders, and bring forward before; but they are feldom used, except in time of war, for which purpose they seem better adapted than for ordinary use, being of a thick and cumbersome texture, and capable of breaking the blow of a stone, or any blunt weapon. Their feet are generally bare, except when they have occasion to travel over the burnt stones, when they secure them with a fort of fandal, made of cords, twifted from the fibres of the cocoa-nut. Such is the ordinary drefs of thefe islanders; but they have another, appropriated to their Chiefs, and used on ceremonious occasions, confisting of a feathered cloak and helmet, which, in point of beauty and magnificence, is perhaps nearly equal to that of any nation in the world. As this drefs has been already defcribed with great accuracy and minuteness, I have only to add, that these cloaks are made of different lengths, in proportion to the rank of the wearer, fome of them reaching no lower than the middle, others trailing on the ground. The inferior Chiefs have also a short cloak, resembling the former, made of the long tail-feathers of the cock, the tropic and man of war birds, with a broad border of the fmall red and yellow feathers, and a collar of the fame. Others again

are made of feathers entirely white, with variegated borders. The helmet has a strong lining of wicker-work, capable of breaking the blow of any warlike instrument, and feems evidently designed for that purpose.

These feathered dresses seemed to be exceedingly scarce, appropriated to persons of the highest rank, and worn by the men only. During the whole time we lay in Karakakooa Bay, we never saw them used but on three occasions: in the curious ceremony of Terreeoboo's first visit to the ships; by some Chiefs, who were seen among the crowd on shore, when Captain Cook was killed; and, afterward, when Eappo brought his bones to us.

The exact refemblance between this habit, and the cloak and helmet formerly worn by the Spaniards, was too ftriking not to excite our curiofity to inquire, whether there were any probable grounds for fuppofing it to have been borrowed from them. After exerting every means in our power, of obtaining information on this fubject, we found that they had no immediate knowledge of any other nation whatever; nor any tradition remaining among them of these islands having been ever visited before by such ships as ours. But, notwithstanding the result of these inquiries, the uncommon form of this habit appears to me a fufficient proof of its European origin; especially when added to another circumstance, that it is a fingular deviation from the general refemblance in drefs, which prevails amongst all the branches of this tribe, difperfed through the South Sea. We were driven indeed, by this conclusion, to a supposition of the shipwreck of some Buccaneer, or Spanish ship, in the neighbourhood of these islands. But when it is recollected, that the course of the Spanish trade from Acapulco to the Manillas, is but a few degrees to the Southward of VOL. III.

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the Sandwich Islands, in their passage out, and to the Northward, on their return, this supposition will not appear in the least improbable.

The common drefs of the women bears a close refemblance to that of the men. They wrap round the waift a piece of cloth, that reaches half way down the thighs; and fometimes, in the cool of the evening, they appeared with loofe pieces of fine cloth thrown over their shoulders, like the women of Otaheite. The pau is another drefs very frequently worn by the younger part of the fex. It is made of the thinnest and finest fort of cloth, wrapt several times round the waift, and descending to the leg; so as to have exactly the appearance of a full fhort petticoat. Their hair is cut fhort behind, and turned up before, as is the fashion among the Otaheiteans and New Zealanders; all of whom differ, in this respect, from the women of the Friendly Islands, who wear their hair long. We faw, indeed, one woman in Karakakooa Bay, whose hair was arranged in a very fingular manner; it was turned up behind, and brought over the forehead, and then doubled back, fo as to form a fort of shade to the face, like a small bonnet.

Their necklaces are made of shells, or of a hard, shining, red berry. Besides which, they wear wreaths of dried flowers of the Indian mallow; and another beautiful ornament, called *eraie*, which is generally put about the neck, but is sometimes tied like a garland round the hair, and sometimes worn in both these ways at once, as may be seen in the print of the *woman of the Sandwich Islands*. It is a ruff of the thickness of a singer, made, in a curious manner, of exceedingly small feathers, woven so close together as to form a surface as smooth as that of the richest velvet. The ground was generally of a red colour, with alternate circles of green, yellow,

yellow, and black. Their bracelets, which were also of great variety, and very peculiar kinds, have been already described.

At Atooi, fome of the women wore little figures of the turtle, neatly formed of wood or ivory, tied on their fingers in the manner we wear rings. Why this animal is thus particularly diftinguished, I leave to the conjectures of the curious. There is also an ornament made of shells, fastened in rows on a ground of strong netting, so as to strike each other when in motion; which both men and women, when they dance, tie either round the arm or the ankle, or below the knee. Instead of shells, they sometimes make use of dogs teeth, and a hard red berry, resembling that of the

holly.

There remains to be mentioned another ornament (if fuch it may be called), the figure of which may be better conceived from the annexed print, than any written defcription. It is a kind of mask, made of a large gourd, with holes cut in it for the eyes and nofe. The top was fluck full of fmall green twigs, which, at a diffance, had the appearance of an elegant waving plume; and from the lower part hung narrow ftripes of cloth, refembling a beard. We never faw these masks worn but twice, and both times by a number of people together in a canoe, who came to the fide of the ship, laughing and drolling, with an air of masquerading. Whether they may not likewife be used as a defence for the head against stones, for which they feem best defigned, or in fome of their public games, or be merely intended for the purposes of mummery, we could never inform ourfelves.

It has already been remarked, in a few instances, that the natives of the Sandwich Islands approach nearer to the

New Zealanders, in their manners and customs, than to either of their less distant neighbours of the Society or Friendly Islands. This is in nothing more observable, than in their method of living together in fmall towns or villages, containing from about one hundred to two hundred houses, built pretty close together, without any order, and having a winding path leading through them. They are generally flanked, toward the fea, with loofe detached walls, which probably are meant both for the purpofes of shelter and defence. The figure of their houses has been already described. They are of different fizes, from eighteen feet by twelve, to forty-five by twenty-four. There are fome of a larger kind; being fifty feet long and thirty broad, and quite open at one end. These, they told us, were designed for travellers or ftrangers, who were only making a fhort stay.

In addition to the furniture of their houses, which has been accurately described by Captain Cook, I have only to add, that at one end are mats on which they sleep, with wooden pillows, or sleeping stools, exactly like those of the Chinese. Some of the better fort of houses have a court-yard before them, neatly railed in, with smaller houses built round it, for their servants. In this area they generally eat, and sit during the day-time. In the sides of the hills, and among the steep rocks, we also observed several holes or caves, which appeared to be inhabited; but as the entrance was defended with wicker-work, and we also found, in the only one that was visited, a stone sence running across it within, we imagine they are principally designed for places of retreat, in case of an attack from an enemy.

The food of the lower class of people consists principally of fish, and vegetables; such as yams, sweet-potatoes, tar-

row, plantains, fugar-canes, and bread-fruit. To thefe, the people of a higher rank add the flesh of hogs and dogs, dreffed in the fame manner as at the Society Islands. They also eat fowls of the same domestic kind with ours; but they are neither plentiful, nor much esteemed by them. It is remarked by Captain Cook, that the bread-fruit and yams appeared scarce amongst them, and were reckoned great rarities. We found this not to be the case on our second vifit; and it is therefore most probable, that, as these vegetables were generally planted in the interior parts of the country, the natives had not had time to bring them down to us, during the fhort ftay we made in Wymoa Bay. Their fish they falt, and preferve in gourd-shells; not, as we at first imagined, for the purpose of providing against any temporary fcarcity, but from the preference they give to falted meats. For we also found, that the Erees used to pickle pieces of pork in the fame manner, and esteemed it a great delicacy.

Their cookery is exactly of the same fort with that already described, in the accounts that have been published of the other South Sea islands; and though Captain Cook complains of the sourness of their tarrow puddings, yet, in justice to the many excellent meals they afforded us in Karakakooa Bay, I must be permitted to rescue them from this general censure, and to declare, that I never eat better even in the Friendly Islands. It is however remarkable, that they had not got the art of preserving the bread-fruit, and making the sour paste of it called *Maihee*, as at the Society Islands; and it was some satisfaction to us, in return for their great kindness and hospitality, to have it in our power to teach them this useful secret. They are exceedingly cleanly at their meals; and their mode of dressing

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both their animal and vegetable food, was univerfally allowed to be greatly fuperior to ours. The Chiefs conftantly begin their meal with a dofe of the extract of pepper-root, brewed after the usual manner. The women eat apart from the men, and are tabooed, or forbidden, as has been already mentioned, the use of pork, turtle, and particular kinds of plantains. However, they would eat pork with us in private; but we could never prevail upon them to touch the two last articles.

The way of spending their time appears to be very simple, and to admit of little variety. They rise with the sun; and, after enjoying the cool of the evening, retire to rest a few hours after sun-set. The making of canoes and mats forms the occupations of the *Erees*; the women are employed in manufacturing cloth; and the *Towtows* are principally engaged in the plantations and fishing. Their idle hours are filled up with various amusements. Their young men and women are fond of dancing; and, on more solemn occasions, they have boxing and wrestling matches, after the manner of the Friendly Islands; though, in all these respects, they are much inferior to the latter.

Their dances have a much nearer refemblance to those of the New Zealanders, than of the Otaheiteans or Friendly Islanders. They are prefaced with a flow, solemn song, in which all the party join, moving their legs, and gently striking their breasts, in a manner, and with attitudes, that are perfectly easy and graceful; and so far they are the same with the dances of the Society Islands. When this has lasted about ten minutes, both the tune and the motions gradually quicken, and end only by their inability to support the fatigue; which part of the performance is the exact counterpart of that of the New Zealanders; and (as it is among them) the person who uses the most violent action, and holds out the longest, is applauded as the best dancer. It is to be observed, that, in this dance, the women only take a part, and that the dancing of the men is nearly of the same kind with what we saw of the small parties at the Friendly Islands; and which may, perhaps, with more propriety, be called the accompaniment of songs, with corresponding and graceful motions of the whole body. Yet, as we were spectators of boxing exhibitions, of the same kind with those we were entertained with at the Friendly Islands, it is probable that they had likewise their grand ceremonious dances, in which numbers of both sexes affisted.

Their music is also of a ruder kind, having neither flutes nor reeds, nor instruments of any other fort, that we saw, exept drums of various sizes. But their songs, which they sung in parts \*, and accompany with a gentle motion of the

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\* As this circumstance, of their *finging in parts*, has been much doubted by persons eminently skilled in music, and would be exceedingly curious if it was clearly ascertained, it is to be lamented that it cannot be more positively authenticated.

Captain Burney, and Captain Phillips of the Marines, who both have a tolerable knowledge of mufic, have given it as their opinion, that they did fing in parts; that is to fay, that they fung together in different notes, which formed a pleafing harmony.

These gentlemen have fully testified that the Friendly Islanders undoubtedly studied their performances before they were exhibited in public; that they had an idea of different notes being useful in harmony; and also, that they rehearsed their compositions in private, and threw out the inserior voices, before they ventured to appear before those who were supposed to be judges of their skill in music.

In their regular concerts, each man had a bamboo, which was of a different length, and gave a different tone: these they beat against the ground, and each performer, affisted by the note given by this instrument, repeated the same note, accompanying it by words, by which means it was rendered sometimes short, and sometimes long. In this manner, they sung in chorus, and not only produced octaves to each other, according to their different species of voice, but fell on concords, such as were not disagreeable to the ear.

arms, in the fame manner as the Friendly Islanders, had a very pleasing effect.

It is very remarkable, that the people of these islands are great gamblers. They have a game very much like our draughts; but, if one may judge from the number of squares, it is much more intricate. The board is about two feet long, and is divided into two hundred and thirty-eight squares, of which there are fourteen in a row; and they make use of black and white pebbles, which they move from square to square.

There is another game, which confifts in hiding a ftone under a piece of cloth, which one of the parties spreads out, and rumples in such a manner, that the place where the stone lies is difficult to be distinguished. The antagonist, with a stick, then strikes the part of the cloth where he ima-

Now, to overturn this fact, by the reasoning of persons who did not hear these persormances, is rather an arduous task. And, yet, there is great improbability that any uncivilized people should, by accident, arrive at this degree of persection in the art of music, which we imagine can only be attained by dint of study, and knowledge of the system and theory upon which musical composition is sounded. Such miserable jargon as our country Psalm-singers practise, which may be justly deemed the lowest class of counterpoint, or singing in several parts, cannot be acquired, in the coarse manner in which it is performed in the churches, without considerable time and practice. It is, therefore, scarcely credible, that a people, semi-barbarous, should naturally arrive at any persection in that art, which it is much doubted whether the Greeks and Romans, with all their resinements in music, ever attained, and which the Chinese, who have been longer civilized than any people on the globe, have not yet found out.

If Captain Burney (who, by the testimony of his father, perhaps the greatest musical theorist of this or any other age, was able to have done it) had written down, in European notes, the concords that these people sung; and if these concords had been such as European ears could tolerate, there would have been no longer doubt of the sact: but, as it is, it would, in my opinion, be a rash judgment to venture to affirm that they did or did not understand counterpoint; and therefore I fear that this curious matter must be considered as still remaining undecided.

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gines the stone to be; and as the chances are, upon the whole, considerably against his hitting it, odds, of all degrees, varying with the opinion of the skill of the parties, are laid on the side of him who hides.

Befides these games, they frequently amuse themselves with racing-matches between the boys and girls; and here again they wager with great spirit. I saw a man in a most violent rage, tearing his hair, and beating his breast, after losing three hatchets at one of these races, which he had just before purchased from us, with half his substance.

Swimming is not only a necessary art, in which both their men and women are more expert than any people we had hitherto seen, but a favourite diversion amongst them. One particular mode, in which they sometimes amused themselves with this exercise, in Karakakooa Bay, appeared to us most perilous and extraordinary, and well deserving a distinct relation.

The furf, which breaks on the coast round the bay, extends to the distance of about one hundred and fifty yards from the shore, within which space, the surges of the sea, accumulating from the shallowness of the water, are dashed against the beach with prodigious violence. Whenever, from stormy weather, or any extraordinary swell at sea, the impetuosity of the surf is increased to its utmost height, they choose that time for this amusement, which is performed in the following manner: Twenty or thirty of the natives, taking each a long narrow board, rounded at the ends, set out together from the shore. The first wave they meet, they plunge under, and suffering it to roll over them, rise again beyond it, and make the best of their way, by swimming, out into the sea. The second wave is encountered in the Vol. III.

fame manner with the first; the great difficulty confisting in feizing the proper moment of diving under it, which, if miffed, the person is caught by the furf, and driven back again with great violence; and all his dexterity is then required to prevent himfelf from being dashed against the rocks. As foon as they have gained, by thefe repeated efforts, the fmooth water beyond the furf, they lay themfelves at length on their board, and prepare for their return. As the furf confifts of a number of waves, of which every third is remarked to be always much larger than the others, and to flow higher on the shore, the rest breaking in the intermediate space, their first object is to place themselves on the fummit of the largest furge, by which they are driven along with amazing rapidity toward the shore. If by mistake they should place themselves on one of the smaller waves, which breaks before they reach the land, or should not be able to keep their plank in a proper direction on the top of the fwell, they are left exposed to the fury of the next, and, to avoid it, are obliged again to dive, and regain the place from which they fet out. Those who succeed in their object of reaching the shore, have still the greatest danger to encounter. The coast being guarded by a chain of rocks, with, here and there, a fmall opening between them, they are obliged to fteer their board through one of thefe, or, in case of failure, to quit it, before they reach the rocks, and, plunging under the wave, make the best of their way back again. This is reckoned very difgraceful, and is also attended with the loss of the board, which I have often feen, with great terror, dashed to pieces, at the very moment the islander quitted it. The boldness and address, with which we saw them perform these difficult and dangerous

dangerous manœuvres, was altogether aftonishing, and is fcarcely to be credited \*.

1779. March.

An accident, of which I was a near spectator, shews at how early a period they are so far familiarized to the water, as both to lose all fears of it, and to set its dangers at defiance. A canoe being overset, in which was a woman with her children, one of them an infant, who, I am convinced, was not more than four years old, seemed highly delighted with what had happened, swimming about at its ease, and playing a hundred tricks, till the canoe was put to rights again.

Befides the amusements I have already mentioned, the young children have one, which was much played at, and shewed no small degree of dexterity. They take a short flick, with a peg sharpened at both ends, running through one extremity of it, and extending about an inch on each fide; and throwing up a ball made of green leaves moulded together, and fecured with twine, they catch it on the point of the peg; and immediately throwing it up again from the peg, they turn the flick round, and thus keep catching it on each peg alternately, without miffing it, for a confiderable time. They are not less expert at another game of the fame nature, toffing up in the air, and catching, in their turns, a number of these balls; so that we frequently faw little children thus keep in motion five at a time. With this latter play the young people likewife divert themfelves at the Friendly Islands.

The great refemblance which prevails in the mode of agriculture and navigation, amongst all the inhabitants of the South Sea islands, leaves me very little to add on those

<sup>\*</sup> An amusement, somewhat similar to this, at Otaheite, has been described, Vol. II.

heads. Captain Cook has already described the figure of the canoes we faw at Atooi. Those of the other islands were precifely the fame; and the largest we faw was a double canoe belonging to Terreeoboo, which meafured feventy feet in length, three and a half in depth, and twelve in breadth; and each was hollowed out of one tree.

The progress they have made in sculpture, their skill in painting cloth, and their manufacturing of mats, have been all particularly described. The most curious specimens of the former, which we faw during our fecond vifit, are the bowls, in which the Chiefs drink ava. Thefe are usually about eight or ten inches in diameter, perfectly round, and beautifully polished. They are supported by three, and fometimes four, fmall human figures, in various attitudes. Some of them rest on the hands of their supporters, extended over the head; others on the head and hands: and fome on the shoulders. The figures, I am told, are accurately proportioned, and neatly finished, and even the anatomy of the muscles, in supporting the weight, well expreffed.

Their cloth is made of the fame materials, and in the fame manner, as at the Friendly and Society Islands. That which is defigned to be painted, is of a thick and ftrong texture, feveral folds being beat and incorporated together; after which it is cut in breadths, about two or three feet wide, and is painted in a variety of patterns, with a comprehenfiveness and regularity of design, that bespeaks infinite tafte and fancy. The exactness with which the most intricate patterns are continued, is the more furprizing, when we confider, that they have no ftamps, and that the whole is done by the eye, with pieces of bamboo cane dipped in paint; the hand being supported by another piece of the

cane, in the manner practifed by our painters. Their colours are extracted from the fame berries, and other vegetable fubftances, as at Otaheite, which have been already described by former voyagers.

The business of painting belongs entirely to the women, and is called kipparee; and it is remarkable, that they always gave the fame name to our writing. The young women would often take the pen out of our hands, and shew us, that they knew the use of it as well as we did; at the same time telling us, that our pens were not fo good as theirs. They looked upon a sheet of written paper, as a piece of cloth striped after the fashion of our country; and it was not without the utmost difficulty, that we could make them understand, that our figures had a meaning in them which theirs had not.

Their mats are made of the leaves of the pandanus; and, as well as their cloths, are beautifully worked in a variety of patterns, and flained of different colours. Some have a ground of pale green, fpotted with fquares, or romboids, of red; others are of a ftraw colour, fpotted with green; and others are worked with beautiful stripes, either in straight or waving lines of red and brown. In this article of manufacture, whether we regard the strength, fineness, or beauty, they certainly excel the whole world.

Their fishing-hooks are made of mother-of-pearl, bone, or wood, pointed and barbed with fmall bones, or tortoifeshell. They are of various fizes and forms; but the most common are about two or three inches long, and made in the shape of a small fish, which serves as a bait, having a bunch of feathers tied to the head or tail. Those with which they fish for sharks, are of a very large fize, being generally fix or eight inches long. Confidering the materials of

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which these hooks are made, their strength and neatness are really astonishing; and in fact we found them, upon trial, much superior to our own.

The line which they use for fishing, for making nets, and for other domestic purposes, is of different degrees of fineness, and is made of the bark of the touta, or cloth tree, neatly and evenly twifted, in the fame manner as our common twine; and may be continued to any length. They have a finer fort, made of the bark of a fmall shrub called areemab; and the finest is made of human hair; but this last is chiefly used for things of ornament. They also make cordage of a stronger kind, for the rigging of their canoes, from the fibrous coatings of the cocoa-nuts. Some of this we purchased for our own use, and found it well adapted to the fmaller kinds of running rigging. They likewife make another fort of cordage, which is flat, and exceedingly ftrong, and used principally in lashing the roofing of their houses, or whatever they wish to fasten tight together. This last is not twisted like the former forts, but is made of the fibrous ftrings of the cocoa-nut's coat, plaited with the fingers, in the manner our failors make their points for the reefing of fails.

The gourds, which grow to fo enormous a fize, that fome of them are capable of containing from ten to twelve gallons, are applied to all manner of domestic purposes; and in order to fit them the better to their respective uses, they have the ingenuity to give them different forms, by tying bandages round them during their growth. Thus, some of them are of a long, cylindrical form, as best adapted to contain their fishing-tackle; others are of a dish form, and these serve to hold their falt, and salted provisions, their puddings, vegetables, &c.; which two forts have neat close

covers,

covers, made likewise of the gourd; others again are exactly the shape of a bottle with a long neck, and in these they keep their water. They have likewise a method of scoring them with a heated instrument, so as to give them the appearance of being painted, in a variety of neat and elegant designs.

Amongst their arts, we must not forget that of making falt, with which we were amply fupplied, during our ftay at these islands, and which was perfectly good of its kind. Their falt-pans are made of earth, lined with clay; being generally fix or eight feet fquare, and about eight inches deep. They are raifed upon a bank of stones near the high water mark, from whence the falt water is conducted to the foot of them, in fmall trenches, out of which they are filled, and the fun quickly performs the necessary process of evaporation. The falt we procured at Atooi and Oneeheow. on our first visit, was of a brown and dirty fort; but that which we afterward got in Karakakooa Bay, was white, and of a most excellent quality, and in great abundance. Befides the quantity we used in falting pork, we filled all our empty casks, amounting to fixteen puncheons, in the Resolution only.

Their inftruments of war are spears; daggers, called pa-booas; clubs; and slings. The spears are of two sorts, and made of a hard solid wood, which has much the appearance of mahogany. One fort is from fix to eight feet in length, finely polished, and gradually increasing in thickness from the extremity till within about half a foot of the point, which tapers suddenly, and is surnished with four or six rows of barbs. It is not improbable, that these might be used in the way of darts. The other fort, with which we saw the warriors at Owhyhee and Atooi mostly armed, are

twelve

twelve or fifteen feet long, and, instead of being barbed, terminate toward the point, like their daggers.

The dagger, or pahooa, is made of heavy black wood, refembling ebony. Its length is from one to two feet, with a ftring paffing through the handle, for the purpose of fufpending it to the arm. For its shape, I must refer the reader to figure 6, in Plate LXVII.

The clubs are made indifferently of feveral forts of wood. They are of rude workmanship, and of a variety of shapes and fizes.

The flings have nothing fingular about them; and in no respect differ from our common slings, except that the stone is lodged on a piece of matting instead of leather.

### CHAP. VIII.

General Account of the Sandwich Islands continued .- Government .- People divided into three Classes .- Power of Ereetaboo .- Genealogy of the Kings of Owhyhee and Mowee .-Power of the Chiefs .- State of the inferior Class .- Punishment of Crimes .- Religion .- Society of Priests .- The Orono. -Their Idols. - Songs chanted by the Chiefs, before they drink Ava.-Human Sacrifices .- Custom of knocking out the Fore-teeth.-Notions with regard to a future State.-Marriages. - Remarkable Inflance of Jealoufy. - Funeral Rites.

HE people of these islands are manifestly divided into three classes. The first are the Erees, or Chiefs, of March. each diffrict; one of whom is fuperior to the rest, and is called at Owhyhee Eree-taboo, and Eree-moee. By the first of these words they express his absolute authority; and by the latter, that all are obliged to proftrate themselves (or put themselves to sleep, as the word fignifies) in his presence. The fecond class are those who appear to enjoy a right of property, without authority. The third are the towtows, or fervants, who have neither rank nor property.

It is not possible to give any thing like a systematical account of the fubordination of these classes to each other, without departing from that strict veracity, which, in works of this nature, is more fatisfactory than conjectures, however ingenious. I will, therefore, content myfelf with re-VOL. III. lating

lating fuch facts, as we were witnesses to ourselves, and fuch accounts as we thought could be depended upon; and shall leave the reader to form, from them, his own ideas of the nature of their government.

The great power and high rank of Terreeoboo, the Ereetaboo of Owhyhee, was very evident, from the manner in which he was received at Karakakooa, on his first arrival. All the natives were seen prostrated at the entrance of their houses; and the canoes, for two days before, were tabooed, or forbidden to go out, till he took off the restraint. He was, at this time, just returned from Mowee, for the possession of which he was contending in favour of his son Teewarro, who had married the daughter and only child of the late king of that island, against Taheeterree, his surviving brother. He was attended, in this expedition, by many of his warriors; but whether their service was voluntary, or the condition on which they hold their rank and property, we could not learn.

That he collects tribute from the fubordinate Chiefs, we had a very striking proof in the instance of Kaoo, which has been already related in our transactions of the 2d and 3d of February.

I have before mentioned, that the two most powerful Chiefs of these islands are Terreeoboo of Owhyhee, and Perreeorannee of Woahoo; the rest of the smaller isles being subject to one or other of these; Mowee, and its dependencies, being, at this time, claimed, as we have just observed, by Terreeoboo, for Teewarro his son and intended successor; Atooi and Oneeheow being governed by the grandsons of Perreeorannee.

The following genealogy of the Owhyhee and Mowee kings, which I collected from the priefts, during our refi-

dence at the *Morai* in Karakakooa Bay, contains all the information I could procure relative to the political history of these islands.

This account reaches to four Chiefs, predecessors of the present; all of whom they represent to have lived to an old age. Their names and successions are as follow:

First, Poorahoo Awhykaia was king of Owhyhee, and had an only son, called Neerooagooa. At this time Mowee was governed by Mokoakea; who had also an only son, named Papikaneeou.

Secondly, Neerooagooa had three fons, the eldest named Kahavee; and Papikaneeou, of the Mowee race, had an only son, named Kaowreeka.

Thirdly, Kahavee had an only fon, Kayenewee a mummow; and Kaowreeka, the Mowee king, had two fons, Maiha-maiha, and Taheeterree; the latter of whom is now, by one party, acknowledged Chief of Mowee.

Fourthly, Kayenewee a mummow had two fons, Terreeoboo and Kaihooa; and Maiha-maiha, king of Mowee, had no fon, but left a daughter, called Roaho.

Fifthly, Terreeoboo, the prefent king of Owhyhee, had a fon named Teewarro, by Rora-rora, the widow of Maihamaiha, late king of Mowee; and this fon has married Roaho, his half fifter, in whose right he claims Mowee and its appendages.

Taheeterree, the brother of the late king, supported by a considerable party, who were not willing that the possessions should go into another family, took up arms, and opposed the rights of his niece.

When we were first off Mowee, Terreeoboo was there with his warriors to support the claims of his wife, his son, and daughter-in-law, and had sought a battle with the op-

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posite party, in which Taheeterree was worsted. We afterward understood that matters had been compromised, and that Taheeterree is to have the possession of the three neighbouring islands during his life; that Teewarro is acknowledged the Chief of Mowee, and will also succeed to the kingdom of Owhyhee on the death of Terreeoboo; and also to the sovereignty of the three islands, contiguous to Mowee, on the death of Taheeterree. Teewarro has been lately married to his half fifter; and, should he die without iffue, the government of these islands descends to Maihamaiha, whom we have often had occasion to mention, he being the fon of Kaihooa, the deceafed brother of Terreeoboo. Should he also die without issue, they could not tell who would fucceed; for the two youngest sons of Terreeoboo, one of whom he appears to be exceedingly fond of, being born of a woman of no rank, would, from this circumftance, be debarred all right of fuccession. We had not an opportunity of feeing queen Rora-rora, whom Terreeoboo had left behind at Mowee; but we have already had occasion to take notice, that he was accompanied by Kanee-kabareea, the mother of the two youths, to whom he was very much attached.

From this account of the genealogy of the Owhyhee and Mowee monarchs, it is pretty clear that the government is hereditary; which also makes it very probable, that the inferior titles, and property itself, descend in the same courfe. With regard to Perreeorannee, we could only learn, that he is an Eree-taboo; that he was invading the possession of Taheeterree, but on what pretence we were not informed; and that his grandfons governed the islands to leeward.

The power of the Erees over the inferior classes of people appears

appears to be very absolute. Many instances of this occurred daily during our ftay amongst them, and have been already related. The people, on the other hand, pay them the most implicit obedience; and this state of servility has manifestly had a great effect in debasing both their minds and bodies. It is, however, remarkable, that the Chiefs were never guilty, as far at least as came within my knowledge, of any acts of cruelty or injuffice, or even of infolent behaviour toward them; though, at the fame time, they exercifed their power over one another in the most haughty and oppressive manner. Of this I shall give two instances. A Chief of the lower order had behaved with great civility to the master of the ship, when he went to examine Karakakooa bay, the day before the ship first arrived there; and, in return, I afterward carried him on board, and introduced him to Captain Cook, who invited him to dine with us. While we were at table, Pareea entered, whose face but too plainly manifested his indignation, at seeing our guest in so honourable a fituation. He immediately feized him by the hair of the head, and was proceeding to drag him out of the cabin, when the Captain interfered; and, after a great deal of altercation, all the indulgence we could obtain, without coming to a quarrel with Pareea, was, that our guest should be suffered to remain, being seated upon the floor, whilft Pareea filled his place at the table. At another time, when Terreeoboo first came on board the Resolution, Maihamaiha, who attended him, finding Pareea on deck, turned him out of the ship in the most ignominious manner; and yet Pareea, we certainly knew, to be a man of the first confequence.

How far the property of the lower class is secured against the rapacity and despotism of the great Chiefs, I cannot say;

but it should seem, that it is sufficiently protected against private theft, or mutual depredation. For not only their plantations, which are fpread over the whole country, but also their houses, their hogs, and their cloth, were left unguarded, without the fmallest apprehensions. I have already remarked, that they not only feparate their poffeffions by walls in the plain country, but that, in the woods likewife, wherever the horse-plantains grow, they make use of fmall white flags, in the fame manner, and for the fame purpose of discriminating property, as they do bunches of leaves at Otaheite. All which circumstances, if they do not amount to proofs, are ftrong indications that the power of the Chiefs, where property is concerned, is not arbitrary; but, at least, so far circumscribed and ascertained, as to make it worth the while for the inferior orders to cultivate the foil, and to occupy their poffessions distinct from each other.

With respect to the administration of justice, all the information we could collect was very imperfect and confined. Whenever any of the lowest class of people had a quarrel amongst themselves, the matter in dispute was referred to the decision of some Chief, probably the Chief of the district, or the person to whom they appertained. If an inferior Chief had given cause of offence to one of a higher rank, the feelings of the latter at the moment seemed the only measure of his punishment. If he had the good fortune to escape the first transports of his superior's rage, he generally sound means, through the mediation of some third person, to compound for his crime by a part or the whole of his property and essets. These were the only facts that came to our knowledge on this head.

The religion of these people resembles, in most of its principal

principal features, that of the Society and Friendly Islands. Their Morais, their Whattas, their idols, their facrifices, and their facred fongs, all of which they have in common with each other, are convincing proofs, that their religious notions are derived from the fame fource. In the length and number of their ceremonies, this branch indeed far exceeds the rest; and, though in all these countries there is a certain class of men, to whose care the performance of their religious rites is committed; yet we had never met with a regular fociety of priefts, till we discovered the cloisters of Kakooa in Karakakooa Bay. The head of this order was called Orono; a title which we imagined to imply fomething highly facred, and which, in the person of Omeeah, was honoured almost to adoration. It is probable, that the privilege of entering into this order (at least as to the principal offices in it), is limited to certain families. Omeeah, the Orono, was the fon of Kaoo, and the uncle of Kaireekeea; which last presided, during the absence of his grandfather, in all religious ceremonies at the Morai. It was also remarked, that the child of Omeeah, an only fon, about five years old, was never fuffered to appear without a number of attendants, and fuch other marks of care and folicitude, as we faw no other like inftance of. This feemed to indicate, that his life was an object of the greatest moment, and that he was deftined to fucceed to the high rank of his father.

It has been mentioned, that the title of *Orono*, with all its honours, was given to Captain Cook; and it is also certain, that they regarded us, generally, as a race of people superior to themselves; and used often to say, that great *Eatooa* dwelled in our country. The little image, which we have before described, as the favourite idol on the *Morai* 

in Karakakooa Bay, they call Koonooraekaiee, and faid it was Terreeoboo's God; and that he also resided amongst us.

There are found an infinite variety of these images, both on the *Morais*, and within and without their houses, to which they give different names; but it soon became obvious to us in how little estimation they were held, from their frequent expressions of contempt of them, and from their even offering them to sale for trisles. At the same time, there seldom sailed to be some one particular sigure in favour, to which, whilst this preference lasted, all their adoration was addressed. This consisted in arraying it in red cloth; beating their drums, and singing hymns before it; laying bunches of red feathers, and different sorts of vegetables, at its feet; and exposing a pig, or a dog, to rot on the wbatta that stood near it.

In a bay to the Southward of Karakakooa, a party of our gentlemen were conducted to a large house, in which they found the black figure of a man, resting on his singers and toes, with his head inclined backward; the limbs well formed and exactly proportioned, and the whole beautifully polished. This sigure the natives called *Maee*; and round it were placed thirteen others of rude and distorted shapes, which they said were the *Eatooas* of several deceased Chiefs, whose names they recounted. The place was full of whattas, on which lay the remains of their offerings. They likewise give a place in their houses to many ludicrous and some obscene idols, like the Priapus of the ancients.

It hath been remarked, by former voyagers, that both among the Society and Friendly Islanders, an adoration is paid to particular birds; and I am led to believe, that the same custom prevails here; and that, probably, the raven is

the object of it, from feeing two of these birds tame at the village of Kakooa, which they told me were *Eatooas*; and, refusing every thing I offered for them, cautioned me, at the same time, not to hurt or offend them.

March.

Amongst their religious ceremonies, may be reckoned the prayers and offerings made by the priefts before their meals. Whilft the ava is chewing, of which they always drink before they begin their repast, the person of the highest rank takes the lead in a fort of hymn, in which he is prefently joined by one, two, or more of the company; the rest moving their bodies, and striking their hands gently together, in concert with the fingers. When the ava is ready, cups of it are handed about to those who do not join in the fong, which they keep in their hands till it is ended; when, uniting in one loud response, they drink off their cup. The performers of the hymn are then ferved with ava, who drink it after a repetition of the fame ceremony; and, if there be prefent one of a very fuperior rank, a cup is, last of all, presented to him, which, after chanting fome time alone, and being answered by the reft, and pouring a little out on the ground, he drinks off. A piece of the flesh that is dressed, is next cut off, without any felection of the part of the animal; which, together with fome of the vegetables, being deposited at the foot of the image of the Eatooa, and a hymn chanted, their meal commences. A ceremony of much the fame kind is also performed by the Chiefs, whenever they drink ava, between their meals.

Human facrifices are more frequent here, according to the account of the natives themselves, than in any other islands we visited. These horrid rites are not only had recourse to upon the commencement of war, and preceding Vol. III.

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great battles, and other fignal enterprizes; but the death of any confiderable Chief calls for a facrifice of one or more Towtows, according to his rank; and we were told, that ten men were destined to suffer on the death of Terreeoboo. What may (if any thing poffibly can) leffen, in fome fmall degree, the horror of this practice, is, that the unhappy victims have not the most distant intimation of their fate. Those who are fixed upon to fall, are set upon with clubs wherever they happen to be; and, after being dispatched, are brought dead to the place, where the remainder of the rites are completed. The reader will here call to his remembrance the skulls of the captives, that had been facrificed at the death of some great Chief, and which were fixed on the rails round the top of the Morai at Kakooa. We got a farther piece of intelligence upon this fubject at the village of Kowrowa; where, on our inquiring into the use of a small piece of ground, inclosed with a stone fence, we were told that it was an Here-eere, or buryingground of a Chief; and there, added our informer, pointing to one of the corners, lie the tangata and waheene taboo, or the man and woman who were facrificed at his funeral.

To this class of their customs may also be referred that of knocking out their fore-teeth. Scarce any of the lower people, and very few of the Chiefs, were feen, who had not loft one or more of them; and we always understood that this voluntary punishment, like the cutting off the joints of the finger at the Friendly Islands, was not inflicted on themselves from the violence of grief, on the death of their friends, but was defigned as a propitiatory facrifice to the Eatooa, to avert any danger or mischief to which they might be exposed.

We were able to learn but little of their notions with regard to a future state. Whenever we asked them, whither the dead were gone? we were always answered, that the breath, which they appeared to confider as the foul, or immortal part, was gone to the Eatooa; and on pushing our inquiries farther, they feemed to describe some particular place, where they imagined the abode of the deceafed to be; but we could not perceive, that they thought, in this ftate, either rewards or punishments awaited them.

Having promifed the Reader, in the first Chapter, an explanation of what was meant by the word taboo, I shall, in this place, lay before him the particular inflances that fell under our observation, of its application and effects. On our inquiring into the reasons of the interdiction of all intercourse between us and the natives, the day preceding the arrival of Terreeoboo, we were told, that the Bay was tabooed. The fame reftriction took place, at our request, the day we interred the bones of Captain Cook. In these two inftances the natives paid the most implicit and scrupulous obedience; but whether on any religious principle, or merely in deference to the civil authority of their Chiefs, I cannot determine. When the ground near our observatories, and the place where our mast's lay, were tabooed, by sticking fmall wands round them, this operated in a manner not less efficacious. But though this mode of confecration was performed by the priefts only, yet ftill, as the men ventured to come within the space, when invited by us, it should feem, that they were under no religious apprehensions; and that their obedience was limited to our refufal only. The women could, by no means, be induced to come near us; but this was probably on account of the Morai adjoining; which they are prohibited, at all times, and in all the Y 2

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iflands of those feas, from approaching. Mention hath been already made, that women are always tabooed, or forbidden to eat certain kind of meats. We also frequently faw feveral at their meals, who had the meat put into their mouths by others; and on our asking the reason of this singularity, were told, that they were tabooed, or forbidden, to feed themselves. This prohibition, we understood, was always laid on them, after they had affifted at any funeral, or touched a dead body, and also on other occasions. It is necessary to observe, that, on these occasions, they apply the word taboo indifferently both to perfons and things. Thus they fay, the natives were tabooed, or the bay was tabooed, and fo of the reft. This word is also used to express any thing facred, or eminent, or devoted. Thus the king of Owhyhee was called Eree-taboo; a human victim, tangata-taboo; and, in the fame manner, among the Friendly Islanders, Tonga, the island where the king resides, is named Tonga-taboo

Concerning their marriages, I can afford the reader little farther fatisfaction, than informing him, that fuch a relation or compact exifts amongft them. I have already had occafion to mention, that at the time Terreeoboo had left his queen Rora-rora at Mowee, he was attended by another woman, by whom he had children, and to whom he was very much attached; but how far polygamy, properly fpeaking, is allowed, or how far it is mixed with concubinage, either with respect to the king, the Chiefs, or among the inferior orders, too few facts came to our knowledge to justify any conclusions. It hath also been observed, that, except Kanee-kabareea, and the wife of the Orono, with three women whom I shall have occasion hereafter to mention, we never saw any female of high rank. From what I had an oppor-

tunity of observing of the domestic concerns of the lowest class, the house seemed to be under the direction of one man and woman, and the children in the like state of subordination as in civilized countries.



It will not be improper, in this place, to take notice, that we were eye-witnesses of a fact, which, as it was the only instance we faw of any thing like jealoufy among them, fhews, at the fame time, that not only fidelity, but a degree of referve, is required from the married women of confequence. At one of the entertainments of boxing, Omeeah was observed to rife from his place two or three times, and to go up to his wife with ftrong marks of displeasure, ordering her, as it appeared to us from his manner, to withdraw. Whether it was, that being very handsome, he thought she drew too much of our attention, or without being able to determine what other reason he might have for his conduct, it is but justice to fay, that there existed no real cause of jealousy. However, she kept her place; and when the entertainment was over, joined our party, and foliciting fome trifling prefents, was given to understand, that we had none about us; but that if she would accompany us toward our tent, she should return with such as the liked beft. She was accordingly walking along with us; which Omeeah observing, followed in a violent rage, and feizing her by the hair, began to inflict, with his fifts, a fevere corporal punishment. This fight, especially as we had innocently been the cause of it, gave us much concern; and yet we were told, that it would be highly improper to interfere between man and wife of fuch high rank. We were, however, not left without the confolation of feeing the natives at last interpose; and had the farther satisfaction of meeting them together the next day, in perfect

good-humour with each other; and what is still more singular, the lady would not suffer us to remonstrate with her husband on his treatment of her, which we were much inclined to do, and plainly told us, that he had done no more than he ought.

Whilft I was ashore at the observatory at Karakakooa Bay, I had twice an opportunity of feeing a confiderable part of their funeral rites. Intelligence was brought me of the death of an old Chief in a house near our observatories, foon after the event happened. On going to the place, I found a number of people affembled, and feated round a fquare area, fronting the house in which the deceased lay, whilst a man, in a red feathered cap, advanced from an interior part of the house to the door, and, putting out his head, at almost every moment uttered a most lamentable howl, accompanied with the most fingular grimaces, and violent diffortions of his face, that can be conceived. After this had paffed a fhort time, a large mat was fpread upon the area, and two men and thirteen women came out of the house and fate themselves down upon it, in three equal rows; the two men, and three of the women, being in front. The necks and hands of the women were decorated with feathered ruffs; and broad green leaves, curioufly fcolloped, were fpread over their fhoulders. At one corner of this area, near a fmall hut, were half a dozen boys waving fmall white banners, and the tufted wands, or taboo flicks, which have been often mentioned in the former chapters, who would not permit us to approach them. This led me to imagine, that the dead body might be deposited in this little hut; but I afterward understood, that it was in the house where the man in the red cap opened the rites, by playing his tricks at the door. The company just mentioned,

tioned, being feated on the mat, began to fing a melancholy tune, accompanied with a flow and gentle motion of the body and arms. When this had continued fome time, they raifed themselves on their knees, and, in a posture between kneeling and fitting, began by degrees to move their arms and their bodies with great rapidity, the tune always keeping pace with their motions. As these last exertions were too violent to continue long, they refumed, at intervals, their flower movements; and, after this performance had lafted an hour, more mats were brought and fpread upon the area, and four or five elderly women, amongst whom, I was told, was the dead Chief's wife, advanced flowly out of the house, and feating themselves in the front of the first company, began to cry and wail most bitterly; the women in the three rows behind joining them, whilft the two men inclined their heads over them in a very melancholy and penfive attitude. At this period of the rites, I was obliged to leave them to attend at the observatory; but returning within half an hour, found them in the fame fituation. I continued with them till late in the evening, and left them proceeding, with little variation, as just described; resolving, however, to attend early in the morning, to fee the remainder of the ceremony. On my arrival at the house, as soon as it was day, I found, to my mortification, the crowd difperfed, and every thing quiet; and was given to understand, that the corpfe was removed; nor could I learn in what manner it was difposed of. I was interrupted in making farther inquiries for this purpose, by the approach of three women of rank, who, whilft their attendants flood near them with their fly-flaps, fat down by us, and, entering into conversation, foon made me comprehend, that our presence was a hindrance to the performance of fome necessary rites. I had

I had hardly got out of fight, before I heard their cries and lamentations; and meeting them a few hours afterward, I found they had painted the lower part of their faces perfect black.

The other opportunity I had of observing these ceremonies, was in the case of an ordinary person; when, on hearing fome mournful female cries iffue from a miferable looking hut, I ventured into it, and found an old woman with her daughter, weeping over the body of an elderly man, who had but just expired, being still warm. The first step they took, was to cover the body with cloth. after which, lying down by it, they drew the cloth over themselves, and then began a mournful kind of fong, frequently repeating, Aweb medoaab! Aweb tanee! Oh my father! Oh my hufband! A younger daughter was also at the same time lying prostrate, in a corner of the house, covered over with black cloth, repeating the fame words. On leaving this melancholy fcene, I found at the door a number of their neighbours collected together, and liftening to their cries with profound filence. I was refolved not to miss this opportunity of seeing in what manner they dispose of the body; and therefore, after fatisfying myself, before I went to bed, that it was not then removed, I gave orders, that the fentries should walk backward and forward before the house, and, in case they suspected any measures were taking for the removal of the body, to give me immediate notice. However, the fentries had not kept a good look-out, for in the morning I found the body was gone. On inquiring, what they had done with it? They pointed toward the fea; indicating, most probably, thereby, that it had been committed to the deep, or perhaps that it had been carried beyond the bay, to fome burying-ground in another

another part of the country. The Chiefs are interred in the Morais, or Heree-erees, with the men facrificed on the occasion, by the fide of them; and we observed, that the Morai, where the Chief had been buried, who, as I have already mentioned, was killed in the cave, after so stout a resistance, was hung round with red cloth.

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### BOOK VI.

TRANSACTIONS DURING THE SECOND EXPEDITION TO THE NORTH, BY THE WAY OF KAMTSCHATKA; AND ON THE RETURN HOME, BY THE WAY OF CANTON, AND THE CAPE OF GOOD HOPE.

### CHAP. I.

Departure from Oneebeow.—Fruitless Attempt to discover Modoopapappa.—Course steered for Awatska Bay.—Occurrences during that Passage.—Sudden Change from Heat to Cold.—Distress occasioned by the leaking of the Resolution.—View of the Coast of Kamtschatka.—Extreme Rigour of the Climate.—Lose Sight of the Discovery.—The Resolution enters the Bay of Awatska.—Prospect of the Town of Saint Peter and Saint Paul.—Party sent ashore.—Their Reception by the Commanding Officer of the Port.—Message dispatched to the Commander at Bolcheretsk.—Arrival of the Z 2 Discovery.

Discovery. - Return of the Messengers, from the Commander.—Extraordinary Mode of travelling.—Vifit from a Merchant, and a German Servant belonging to the Commander.

N the 15th of March, at feven in the morning, we weighed anchor, and paffing to the North of Ta-Monday 15. hoora, stood on to the South West, in hopes of falling in with the island of Modoopapappa, which, we were told by the natives, lay in that direction, about five hours fail from Tahoora. At four in the afternoon, we were overtaken by a ftout canoe, with ten men, who were going from Oneeheow to Tahoora, to kill tropic and man-of-war birds, with which that place was faid to abound. It has been mentioned before, that the feathers of these birds are in great requeft, being much used in making their cloaks, and other ornamental parts of their drefs.

At eight, having feen nothing of the island, we hauled the wind to the Northward, till midnight, and then tacked, and flood on a wind to the South East, till day-light next Tuefday 16. morning, at which time Tahoora bore East North East, five or fix leagues diftant. We afterward fteered West South West, and made the Discovery's fignal to spread four miles upon our ftarboard beam. At noon, our latitude was 21° 27', and our longitude 198° 42'; and having stood on till five, in the fame direction, we made the Discovery's fignal to come under our ftern, and gave over all hopes of feeing Modoopapappa. We conceived, that it might probably lie in a more Southerly direction from Tahoora, than that in which we had fleered; though, after all, it is possible, that we might have paffed it in the night, as the islanders described it to be very fmall, and almost even with the furface of the fea.

The next day, we fleered West; it being Captain Clerke's Wednes. 17. intention to keep as near as possible in the same parallel of latitude, till we should make the longitude of Awatska Bay, and afterward to fteer due North for the harbour of Saint Peter and Saint Paul in that bay; which was also appointed for our rendezvous, in case of separation. This track was chosen on account of its being, as far as we knew, unexplored; and we were not without hopes of falling in with fome new islands on our passage.

We had fcarcely feen a bird, fince our losing fight of Tahoora, till the 18th in the afternoon, when, being in the Thursday 18. latitude of 21° 12', and the longitude of 194° 45', the appearance of a great many boobies, and fome man-of-war birds, made us keep a sharp look-out for land. Toward evening, the wind leffened, and the North East fwell, which, on the 16th and 17th, had been fo heavy as to make the thips labour exceedingly, was much abated. The next day, Friday 19. we faw no appearance of land; and at noon, we fteered a point more to the Southward, viz. West by South, in the hopes of finding the trade winds (which blew almost invariably from the East by North) fresher as we advanced within the tropic. It is fomewhat fingular, that though we faw no birds in the forenoon, yet toward evening we had again a number of boobies and man-of-war birds about us. This feemed to indicate, that we had paffed the land from whence the former flights had come, and that we were approaching fome other low ifland.

The wind continued very moderate, with fine weather, till the 23d, when it freshened from the North East by East, Tuesday 230 and increased to a strong gale, which split some of our old

fails, and made the running rigging very frequently give way. This gale lafted twelve hours; it then became more Thursday 25. moderate, and continued so till the 25th at noon, when we entirely loft it, and had only a very light air.

Friday 26.

On the 26th in the morning, we thought we faw land to the West South West, but, after running about fixteen leagues in that direction, we found our mistake; and night coming on, we again steered West. Our latitude, at this time, was 19° 45', which was the greatest Southing we made in this run; our longitude was 183°, and variation 12° 45' East. We continued in this course, with little alteration in the wind, till the 29th, when it shifted to the South East and South South East, and, for a few hours in the night, it was in the West; the weather being dark and cloudy, with much rain. We had met, for some days past, feveral turtles, one of which was the fmallest I ever faw. not exceeding three inches in length. We were also accompanied by man-of-war birds, and boobies of an unufual kind, being quite white (except the tip of the wing, which was black), and eafily miftaken, at first fight, for gannets.

The light winds which we had met with for fome time past, with the present unsettled state of the weather, and the little appearance of any change for the better, induced Captain Clerke to alter his plan of keeping within the tropical latitudes; and accordingly, at fix this evening, we began to fteer North West by North, at which time our latitude was 20° 23', and our longitude 180° 40'. During the continuance of the light winds, which prevailed almost constantly ever fince our departure from the Sandwich Islands, the weather was very close, and the air hot and fultry; the thermometer being generally at 80°, and fometimes at 83°.

All this time, we had a confiderable fwell from the North East; and in no period of the voyage did the ships roll and strain fo violently.

In the morning of the 1st of April, the wind changed Thursday 1. from the South East to the North East by East, and blew a fresh breeze, till the morning of the 4th, when it altered Sunday 4. two points more to the East, and by noon increased to a strong gale, which lasted till the afternoon of the 5th, at- Monday 5. tended with hazy weather. It then again altered its direction to the South East, became more moderate, and was accompanied by heavy showers of rain. During all this time, we kept steering to the North West, against a flow but regular current from that quarter, which caused a constant variation from our reckoning by the log, of fifteen miles a day. On the 4th, being then in the latitude 26° 17', and longitude 173° 30', we passed prodigious quantities of what failors call Portuguese men-of-war (bolothuria physalis), and were also accompanied with a great number of sea birds, amongst which we observed, for the first time, the albatross and sheerwater.

On the 6th, at noon, we lost the trade wind, and were Tuesday 6. fuddenly taken a-back, with the wind from the North North West. At this time, our latitude was 29° 50', and our longitude 170° 1'. As the old running ropes were conftantly breaking in the late gales, we reeved what new ones we had left, and made fuch other preparations, as were neceffary for the very different climate with which we were now fhortly to encounter. The fine weather we met with between the tropics, had not been idly fpent. The carpenters found fufficient employment in repairing the boats. The best bower cable had been so much damaged by the

foul ground in Karakakooa Bay, and whilst we were at an-

chor off Oneeheow, that we were obliged to cut forty fathoms from it; in converting of which, with other old cordage, into fpun-yard, and applying it to different uses, a confiderable part of the people were kept conftantly employed by the boatfwain. The airing of fails and other stores, which, from the leakiness of the decks and sides of the fhips, were perpetually fubject to be wet, had now become a frequent as well as a laborious and troublesome part of our duty.

Befides these cares, which had regard only to the ships themselves, there were others, which had for their object the prefervation of the health of the crews, that furnished a constant occupation to a great number of our hands. The flanding orders, established by Captain Cook, of airing the bedding, placing fires between decks, washing them with vinegar, and fmoking them with gunpowder, were obferved without any intermission. For some time past, even the operation of mending the failors old jackets had rifen into a duty both of difficulty and importance. It may be necessary to inform those who are unacquainted with the disposition and habits of seamen, that they are so accustomed in ships of war to be directed in the care of themfelves by their officers, that they lose the very idea of forefight, and contract the thoughtleffness of infants. I am fure, that if our people had been left to their own difcretion alone, we fhould have had the whole crew naked, before the voyage had been half finished. It was natural to expect, that their experience, during our voyage to the North last year, would have made them sensible of the neceffity of paying fome attention to these matters; but if fuch reflections ever occurred to them, their impression was fo transitory, that, upon our return to the tropical climates, their

their fur jackets, and the rest of their cold country clothes, were kicked about the decks as things of no value; though it was generally known, in both ships, that we were to make another voyage toward the pole. They were, of courfe, picked up by the officers; and, being put into casks, reftored about this time to the owners.

In the afternoon, we observed some of the sheathing floating by the ship; and, on examination, found that twelve or fourteen feet had been washed off from under the larboard-bow, where we fupposed the leak to have been; which, ever fince our leaving Sandwich Islands, had kept the people almost constantly at the pumps, making twelve inches water an hour. This day we faw a number of fmall crabs, of a pale blue colour; and had again, in company, a few albatroffes and sheerwaters. The thermometer, in the night-time, funk eleven degrees; and although it still remained as high as 59°, yet we suffered much from the cold; our feelings being, as yet, by no means reconciled to that degree of temperature.

The wind continued blowing fresh from the North, till the eighth, in the morning, when it became more mode- Thursday 8. rate, with fair weather, and gradually changed its direction to the East, and afterward to the South.

On the ninth, at noon, our latitude was 32° 16'; our lon- Friday 9. gitude 166° 40'; and the variation 8° 30' East. And on the tenth, having croffed the track of the Spanish galleons Saturday 10. from the Manillas to Acapulco, we expected to have fallen in with the Island of Rica de Plata, which, according to De Lisle's chart, in which the route of those ships is laid down, ought to have been in fight; its latitude, as there given, being 33° 30' North, and its longitude 166° Eaft. Notwithstanding we were so far advanced to the North-VOL. III.

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ward,

ward, we faw this day a tropic bird, and also feveral other kinds of fea-birds; fuch as puffins, fea-parrots, fheerwaters, and albatroffes.

Sunday 11.

On the eleventh, at noon, we were in latitude 35° 30', longitude 165° 45'; and during the course of the day, had fea-birds, as before, and paffed feveral bunches of fea-weed. About the fame time, the Difcovery paffed a log of wood; but no other figns of land were feen.

The next day the wind came gradually round to the Eaft, and increased to so strong a gale, as obliged us to strike our top-gallant yards, and brought us under the lower fails, and the main top-fail close reefed. Unfortunately we were upon that tack, which was the most disadvantageous for our leak. But, as we had always been able to keep it under with the hand pumps, it gave us no great uneafiness, till Tuesday 13. the 13th, about fix in the afternoon, when we were greatly alarmed by a fudden inundation, that deluged the whole fpace between decks. The water, which had lodged in the coal-hole, not finding a fufficient vent into the well, had forced up the platforms over it, and in a moment fet every thing afloat. Our fituation was indeed exceedingly diffreffing; nor did we immediately fee any means of relieving ourselves. A pump, through the upper decks into the coalhole, could answer no end, as it would very foon have been choaked up by the fmall coals; and, to bale the water out with buckets, was become impracticable, from the number of bulky materials that were washed out of the gunner's ftore-room into it, and which, by the ship's motion, were toffed violently from fide to fide. No other method was therefore left, but to cut a hole through the bulk-head (or partition) that feparated the coal-hole from the fore-hold, and by that means to make a paffage for the body of water

into the well. However, before that could be done, it was necessary to get the casks of dry provisions out of the forehold, which kept us employed the greatest part of the night; fo that the carpenters could not get at the partition till the next morning. As foon as the passage was made, the greatest wednes, 14. part of the water emptied itself into the well, and enabled us to get out the rest with buckets. But the leak was now fo much increased, that we were obliged to keep one half of the people conftantly pumping and baleing, till the noon of the 15th. Our men bore, with great cheerfulness, this ex- Thursday 15. ceffive fatigue, which was much increased by their having no dry place to fleep in; and, on this account, we began to ferve their full allowance of grog.

The weather now becoming more moderate, and the fwell lefs heavy, we were enabled to clear away the rest of the casks from the fore-hold, and to open a sufficient passage for the water to the pumps. This day we faw a greenish piece of drift-wood, and fancying the water coloured, we founded, but got no bottom with a hundred and fixty fathoms of line. Our latitude, at noon this day, was 41° 52', longitude 161° 15'; variation 6° 30' East; and the wind foon after veering to the Northward, we altered our course three points to the West.

On the 16th, at noon, we were in the latitude of 42° 12', Friday 16.

and in the longitude of 160° 5'; and as we were now approaching the place where a great extent of land is faid to have been feen by De Gama, we were glad of the opportunity which the course we were steering gave, of contributing to remove the doubts, if any should be still

entertained, respecting the falsehood of this pretended

difcovery. For it is to be observed, that no one has ever yet been able to find who John de Gama was,

when

when he lived, or what year this pretended discovery was

According to Mr. Muller, the first account of it given to the Public was in a chart published by Texeira, a Portugueze geographer, in 1649, who places it ten or twelve degrees to the North East of Japan, between the latitudes of 44° and 45°; and announces it to be land feen by John de Gama, the Indian, in a voyage from China to New Spain. On what grounds the French geographers have fince removed it five degrees to the Eastward, does not appear; except we suppose it to have been done in order to make room for another discovery made by the Dutch, called Company's Land; of which we shall have occasion to fpeak hereafter.

During the whole day, the wind was exceedingly unfettled, being feldom fleady to two or three points; and blowing in fresh gusts, which were succeeded by dead calms. These were not unpromising appearances; but, after standing off and on, the whole of this day, without feeing any thing of the land, we again steered to the Northward, not thinking it worth our while to lofe time in fearch of an object, the opinion of whose existence had been already pretty generally exploded. Our people were employed the whole of the 16th, in getting their wet things dry, and in airing the ships below.

We now began to feel very fharply the increasing inclemency of the Northern climate. In the morning of Sunday 18. the 18th, our latitude being 45° 40', and our longitude 160° 25', we had fnow and fleet, accompanied with ftrong gales from the South West. This circumstance will appear very remarkable, if we confider the feafon of the year, and the quarter from which the wind blew. On the 19th,

19th, the thermometer, in the day-time, remained at the freezing point, and at four in the morning fell to 29°. If the reader will take the trouble to compare the degree of Monday 19. heat, during the hot fultry weather we had at the beginning of this month, with the extreme cold which we now endured, he will conceive how feverely fo rapid a change must have been felt by us.

In the gale of the 18th, we had fplit almost all the fails we had bent, which being our fecond best fuit, we were now reduced to make use of our last and best set. To add to Captain Clerke's difficulties, the fea was in general fo rough, and the ships so leaky, that the fail-makers had no place to repair the fails in, except his apartments, which, in his declining state of health, was a ferious inconvenience to him.

On the 20th, at noon, being in latitude 49° 45' North, Tuefday 20. and longitude 161° 15' East; and eagerly expecting to fall in with the coast of Asia, the wind shifted suddenly to the North, and continued in the fame quarter the following day. However, although it retarded our progress, yet the fair weather it brought was no fmall refreshment to us. In the forenoon of the 21st, we saw a whale, and a land- Wednes. 21. bird; and, in the afternoon, the water looking muddy, we founded, but got no ground with an hundred and forty fathoms of line. During the three preceding days, we faw large flocks of wild-fowl, of a species resembling ducks. This is usually confidered as a proof of the vicinity of land; but we had no other figns of it, fince the 16th; in which time we had run upward of an hundred and fifty leagues.

On the 22d, the wind shifted to the North East, attended Thursday 22. with mifty weather. The cold was exceedingly fevere, and

the ropes were fo frozen, that it was with difficulty we could force them through the blocks. At noon, the latitude, by account, was 51° 38', longitude 160° 7'; and on comparing our prefent position with that given to the Southern parts of Kamtschatka, in the Russian charts, Captain Clerke did not think it prudent to run on toward the land all night. We therefore tacked at ten; and, having founded, had ground agreeably to our conjectures, with feventy fathoms of line.

Friday 23. On the 23d, at fix in the morning, being in latitude 52° 09', and longitude 160° 07', on the fog clearing away, the land appeared in mountains covered with fnow; and extending from North three quarters East, to South West, a high conical rock, bearing South West, three quarters West, at three or four leagues distance. We had no sooner taken this imperfect view, than we were again covered with a thick fog. Being now, according to our maps, only eight leagues from the entrance of Awatika Bay, as foon as the weather cleared up, we flood in to take a nearer view of the land; and a more difmal and dreary prospect I never beheld. The coast appears straight and uniform, having no inlets or bays; the ground, from the shore, rifes in hills of a moderate elevation, behind which are ranges of mountains, whose fummits were lost in the clouds. The whole fcene was entirely covered with fnow, except the fides of fome of the cliffs, which rose too abruptly from the sea for the fnow to lie upon them.

The wind continued blowing very ftrong from the North Saturday 24. East, with thick hazy weather and fleet, from the 24th till the 28th. During the whole time, the thermometer was never higher than 30 1 °. The ship appeared to be a complete mass of ice; the shrowds were so incrusted with it, as

to measure in circumference more than double their usual fize; and, in short, the experience of the oldest seaman among us, had never met with any thing like the continued showers of fleet, and the extreme cold, which we now encountered. Indeed the feverity of the weather, added to the great difficulty of working the ships, and the labour of keeping the pumps conftantly going, rendered the fervice too hard for many of the crew, some of whom were frostbitten, and others laid up with bad colds. We continued all this time standing four hours on each tack, having generally foundings of fixty fathoms, when about three leagues from the land; but none at twice that distance. On the 25th, we had a transient view of the entrance of Awatika Sunday 25. Bay; but, in the present state of the weather, we were afraid of venturing into it. Upon our standing off again, we loft fight of the Difcovery; but, as we were now fo near the place of rendezvous, this gave us no great uneafinefs.

On the 28th, in the morning, the weather at last cleared, Wednes. 28. and the wind fell to a light breeze from the fame quarter as before. We had a fine warm day; and, as we now began to expect a thaw, the men were employed in breaking the ice from off the rigging, masts, and fails, in order to prevent its falling on our heads. At noon, being in the latitude of 52° 44', and the longitude of 159°, the entrance of Awatska Bay bore North West, distant three or four leagues; and, about three in the afternoon, a fair wind fprung up from the Southward, with which we flood in, having regular foundings, from twenty-two to feven fathoms.

The mouth of the bay opens in a North North West direction. The land, on the South fide, is of a moderate

height;

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height; to the Northward, it rifes into a bluff head, which is the highest part of the coast. In the channel between them, near the North East side, lie three remarkable rocks; and, farther in, near the opposite coast, a single detached rock of a considerable size. On the North head there is a look-out house, which, when the Russians expect any of their ships upon the coast, is used as a light-house. There was a slag-staff on it; but we saw no sign of any person being there.

Having paffed the mouth of the bay, which is about four miles long, we opened a large circular bason of twenty-five miles in circumference; and, at half past four, came to an anchor in fix fathoms water, being afraid of running foul on a fhoal, or fome funk rocks, which are faid by Muller # to lie in the channel of the harbour of St. Peter and St. Paul. The middle of the bay was full of loofe ice, drifting with the tide; but the shores were still entirely blocked up with it. Great flocks of wild-fowl were feen of various species; likewife ravens, eagles, and large flights of Greenland pigeons. We examined every corner of the bay, with our glaffes, in fearch of the town of St. Peter and St. Paul; which, according to the accounts given us at Oonalashka, we had conceived to be a place of fome ftrength and confideration. At length we discovered, on a narrow point of land to the North North East, a few miserable log-houses, and fome conical huts, raifed on poles, amounting in all to about thirty; which, from their fituation, notwithstanding all the respect we wished to entertain for a Russian oftrog, we were under the necessity of concluding to be Petropaulowska. However, in justice to the generous and hof-

PLAN of the HARBOUR S. PETERand STPAUL. William Bligh. Mafter of the Refolution . High Water at 4.38.00 Full and Change; The Tide rifes Ser 6 feet. PLAN of the BAY AWATSKA on the EAST COAST OF KAMTSCHATKA Scale of the gards or one English Stile

Colour Chart

<sup>\*</sup> Voyages made by the Russians from Asia to America, &c. translated from the German; by T. Jesserys, p. 37.

pitable treatment we found here, I shall beg leave to anticipate the reader's curiofity, by affuring him, that our difappointment proved to be more of a laughable than a ferious nature. For, in this wretched extremity of the earth, fituated beyond every thing that we conceived to be most barbarous and inhospitable, and, as it were, out of the very reach of civilization, barricaded with ice, and covered with fummer fnow, in a poor miserable port, far inferior to the meanest of our fishing towns, we met with feelings of humanity, joined to a greatness of mind, and elevation of sentiment, which would have done honour to any nation or climate.

During the night, much ice drifted by us with the tide, and at day-light I was fent with the boats to exa- Thurfday 291 mine the bay, and deliver the letters we had brought from Oonalashka to the Russian Commander. We directed our course toward the village I have just mentioned, and having proceeded as far as we were able with the boats, we got upon the ice, which extended near half a mile from the shore. Mr. Webber, and two of the seamen, accompanied me, whilst the Master took the pinnace and cutter to finish the survey, leaving the jolly-boat behind to carry us back.

I believe the inhabitants had not yet feen either the ship or the boats; for even after we had got on the ice, we could not perceive any figns of a living creature in the town. By the time we had advanced a little way on the ice, we obferved a few men hurrying backward and forward, and prefently after, a fledge, drawn by dogs, with one of the inhabitants in it, came down to the fea-fide, opposite to us. Whilst we were gazing at this unufual fight, and admiring the great civility of this stranger, which we imagined had Vol. III. ВЪ brought

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brought him to our affiftance, the man, after viewing us for fome time very attentively, turned fhort round, and went off, with great speed, toward the oftrog. We were not less chagrined than disappointed at his abrupt departure, as we began to find our journey over the ice attended not only with great difficulty, but even with danger. We funk at every step almost knee deep in the snow, and, though we found tolerable footing at the bottom, yet the weak parts of the ice not being discoverable, we were constantly exposed to the risk of breaking through it. This accident at last actually happened to myself; for, stepping on quickly over a fuspicious spot, in order to press with less weight upon it, I came upon a fecond, before I could stop myself, which broke under me, and in I fell. Luckily, I rose clear of the ice, and a man that was a little way behind with a boat-hook, throwing it to me, I laid it across some loose pieces near me, and, by that means, was enabled to get upon firm ice again.

As we approached the shore, we found the ice, contrary to our expectations, more broken than it had been before. We were, however, again comforted by the sight of another sledge coming toward us, but instead of proceeding to our relief, the driver stopt short, and began to call out to us. I immediately held up to him Ismyloss's letters; upon which he turned about, and set off back again full speed; followed, I believe, not with the prayers of any of our party. Being at a great loss what conclusions to draw from this unaccountable behaviour, we continued our march toward the ostrog, with great circumspection, and when we had arrived within a quarter of a mile of it, we perceived a body of armed men marching toward us. That we might give them as little alarm, and have as peaceable an appearance as possible,

possible, the two men who had boat-hooks in their hands, were ordered into the rear, and Mr. Webber and myself marched in front. The Ruffian party, confifting of about thirty foldiers, was headed by a decent-looking person, with a cane in his hand. He halted within a few yards of us, and drew up his men in a martial and good order. I delivered to him Ifmyloff's letters, and endeavoured to make him understand, as well as I could (though I afterward found in vain), that we were English, and had brought the papers from Oonalashka. After having examined us attentively, he began to conduct us toward the village, in great filence and folemnity, frequently halting his men, to form them in different manners, and make them perform feveral parts of their manual exercise, probably with a view to shew us, that if we had the temerity to offer any violence, we should have to deal with men who were not ignorant of their business.

Though I was all this time in my wet clothes, shivering with cold, and sufficiently inclined to the most unconditional submission, without having my fears violently alarmed; yet it was impossible not to be diverted with this military parade, notwithstanding it was attended with the most unseasonable delay. At length, we arrived at the house of the Commanding Officer of the party, into which we were ushered; and, after no small stir in giving orders, and disposing of the military without doors, our host made his appearance, accompanied by another person, whom we understood to be the Secretary of the port. One of Ismyloss's letters was now opened, and the other sent off, by a special messenger, to Bolcheretsk, a town on the West side of the peninsula of Kamtschatka, where the Russian Commander of this province usually resides.

1779. April. It is very remarkable, that they had not feen the ship the preceding day, when we came to anchor in the bay, nor indeed this morning, till our boats were pretty near the ice. The panic with which the discovery had struck them, we found, had been very considerable. The garrison was immediately put under arms. Two small field-pieces were placed at the entrance of the Commander's house, and pointed toward our boats; and shot, powder, and lighted matches were all ready at hand.

The officer, in whose house we were at present entertained, was a Serjeant, and the Commander of the oftrog. Nothing could exceed the kindness and hospitality of his behaviour, after he recovered from the alarm occasioned by our arrival. We found the house insufferably hot, but exceedingly neat and clean. After I had changed my clothes, which the Serjeant's civility enabled me to do, by furnishing me with a complete fuit of his own, we were invited to fit down to dinner, which I have no doubt was the best he could procure; and, confidering the shortness of time he had to provide it, was managed with fome ingenuity. As there was not time to prepare foup and bouilli, we had, in their stead, some cold beef sliced, with hot water poured over it. We had next a large bird roafted, of a species with which I was unacquainted, but of a very excellent tafte. After having eaten a part of this, it was taken off, and we were ferved with fish dreffed two different ways; and, foon after, the bird again made its appearance, in favory and fweet pates. Our liquor, of which I shall have to speak hereafter, was of the kind called by the Ruffians quals, and was much the worst part of the entertainment. The Serjeant's wife brought in feveral of the dishes herfelf, and was not permitted to fit down at table. Having finished our repast,

past, during which it is hardly necessary to remark, that our conversation was confined to a few bows, and other figns of mutual refpect, we endeavoured to open to our hoft the cause and objects of our visit to this port. As Ifmyloff had probably written to them on the fame fubject, in the letters we had before delivered, he appeared very readily to conceive our meaning; but as there was unfortunately no one in the place that could talk any other language except Ruffian or Kamtfchadale, we found the utmost difficulty in comprehending the information he meant to convey to us. After some time spent in these endeavours to understand one another, we conceived the sum of the intelligence we had procured to be, that though no fupply, either of provisions or naval stores, was to be had at this place, yet that these articles were in great plenty at Bolcheretik. That the Commander would, most probably, be very willing to give us what we wanted; but that, till the Serjeant had received orders from him, neither he nor his people, nor the natives, could even venture to go on board the ship.

It was now time for us to take our leave; and, as my clothes were still too wet to put on, I was obliged to have recourse again to the Serjeant's benevolence, for his leave to carry those I had borrowed of him on board. This request was complied with very cheerfully, and a sledge, drawn by five dogs, with a driver, was immediately provided for each of our party. The sailors were highly delighted with this mode of conveyance; and what diverted them still more was, that the two boat-hooks had also a sledge appropriated to themselves. These sledges are so light, and their construction so well adapted to the purposes for which they are intended, that they went with great expedition, and perfect

April.

perfect fafety, over the ice, which it would have been impossible for us, with all our caution, to have passed on

On our return, we found the boats towing the ship toward the village; and at feven we got close to the ice, and moored with the fmall bower to the North East, and best bower to the South West; the entrance of the bay bearing South by East, and South three quarters East; and the oftrog . North, one quarter East, distant one mile and a half. The Friday 30. next morning, the casks and cables were got upon the quarter-deck, in order to lighten the ship forward; and the carpenters were fet to work to ftop the leak, which had given us fo much trouble during our last run. It was found to have been occasioned by the falling of some fheathing from the larboard-bow, and the oakum between the planks having been washed out. The warm weather we had in the middle of the day, began to make the ice break away very fast, which, drifting with the tide, had almost filled up the entrance of the bay. Several of our gentlemen paid their vifits to the Serjeant, by whom they were received with great civility; and Captain Clerke fent him two bottles of rum, which he understood would be the most acceptable prefent he could make him, and received in return fome fine fowls of the groufe kind, and twenty trouts. Our sportsmen met with but bad success; for though the bay fwarmed with flocks of ducks of various kinds, and Greenland pigeons, yet they were fo fly, that they could not come within shot of them.

In the morning of the 1st of May, seeing the Discovery flanding into the bay, a boat was immediately fent to her affiftance; and in the afternoon, she moored close by us. They told us, that after the weather cleared up on the 28th,

they found themselves to leeward of the bay, and that, when they got abreaft of it the following day, and faw the entrance choaked up with ice, they flood off, after firing guns, concluding we could not be here; but finding afterward it was only loofe drift-ice, they had ventured in. The next day, the weather was fo very unfettled, attended with Sunday 2. heavy showers of snow, that the carpenters were not able to proceed in their work. The thermometer flood at 28° in the evening, and the frost was exceedingly severe in the

The following morning, on our observing two sledges Monday 3. drive into the village, Captain Clerke fent me on shore, to inquire whether any meffage was arrived from the Commander of Kamtschatka, which, according to the Serjeant's account, might now be expected, in confequence of the intelligence that had been fent of our arrival. Bolcheretsk, by the usual route, is about one hundred and thirty-five English miles from Saint Peter and Saint Paul's. Our difpatches were fent off in a fledge drawn by dogs, on the 29th, about noon. And the answer arrived, as we afterward found, early this morning; fo that they were only a little more than three days and a half in performing a journey of two hundred and feventy miles.

The return of the Commander's answer was, however, concealed from us for the prefent; and I was told, on my arrival at the Serjeant's, that we should hear from him the next day. Whilft I was on shore, the boat, which had brought me, together with another belonging to the Discovery, were fet fast in the ice, which a Southerly wind had driven from the other fide of the bay. On feeing them entangled, the Difcovery's launch had been fent to their affistance, but foon shared the same fate; and, in a short

time, the ice had furrounded them near a quarter of a mile deep. This obliged us to ftay on shore till evening, when finding no prospect of getting the boats off, some of us went in sledges to the edge of the ice, and were taken off by boats sent from the ship, and the rest staid on shore all night.

It continued to freeze hard during the night; but, before Tuefday 4. morning, on the 4th, a change of wind drifted away the floating ice, and fet the boats at liberty, without their having fustained the smallest damage.

About ten o'clock in the forenoon, we faw feveral fledges driving down to the edge of the ice, and fent a boat to conduct the persons who were in them on board. One of these was a Ruffian merchant from Bolcheretsk, named Fedofitsch, and the other a German, called Port, who had brought a letter from Major Behm, the Commander of Kamtschatka, to Captain Clerke. When they got to the edge of the ice, and faw distinctly the fize of the ships, which lay within about two hundred yards from them, they appeared to be exceedingly alarmed; and, before they would venture to embark, defired two of our boat's crew might be left on shore as hostages for their fafety. We afterward found that Ifmyloff, in his letter to the Commander, had mifreprefented us, for what reasons we could not conceive, as two small trading boats, and that the Serjeant, who had only feen the fhips at a diffance, had not, in his difpatches, rectified the mistake.

When they arrived on board, we still found, from their cautious and timorous behaviour, that they were under fome unaccountable apprehensions; and an uncommon degree of satisfaction was visible in their countenances, on the German's finding a person amongst us, with whom he could converse.

converse. This was Mr. Webber, who spoke that language perfectly well; and at last, though with some difficulty, convinced them, that we were Englishmen, and friends. Mr. Port being introduced to Captain Clerke, delivered to him the Commander's letter, which was written in German, and was merely complimental, inviting him and his officers to Bolcheretsk, to which place the people, who brought it, were to conduct us. Mr. Port, at the fame time, acquainted him, that the Major had conceived a very wrong idea of the fize of the ships, and of the service we were engaged in; Ifmyloff, in his letter, having represented us as two small English pacquet boats, and cautioned him to be on his guard; infinuating, that he fufpected us to be no better than pirates. In consequence of this letter, he faid, there had been various conjectures formed about us at Bolcheretsk: that the Major thought it most probable we were on a trading scheme, and for that reason had sent down a merchant to us; but that the officer, who was fecond in command, was of opinion we were French, and come with fome hostile intention, and was for taking measures accordingly. It had required, he added, all the Major's authority to keep the inhabitants from leaving the town, and retiring up into the country; to fo extraordinary a pitch had their fears rifen, from their perfuafion that we were French.

Their extreme apprehensions of that nation were principally occasioned by some circumstances attending an insurrection that had happened at Bolcheretsk, a few years before, in which the Commander had lost his life. We were informed, that an exiled Polish officer, named Beniowski, taking advantage of the confusion into which the town was thrown, had seized upon a galliot, then lying at the entrance of the Bolchoireka, and had forced on board a number of Vol. III.

C c Russian

Ruffian failors, fufficient to navigate her: that he had put on shore a part of the crew at the Kourile Islands; and, among the rest, Ismyloss, who, as the reader will recollect, had puzzled us exceedingly, at Oonalashka, with the history of this transaction; though, for want of understanding his language, we could not then make out all the circumstances attending it: that he passed in sight of Japan; made Luconia; and was there directed how to steer to Canton: that, arriving there, he had applied to the French, and had got a passage in one of their India ships to France: and that most of the Russians had likewise returned to Europe in French ships; and had afterward found their way to Petersburg. We met with three of Beniowski's crew in the harbour of Saint Peter and Saint Paul; and from them we learnt the circumstances of the above story.

On our arrival at Canton, we received a farther corroboration of the facts, from the gentlemen of the English factory, who told us, that a person had arrived there in a Russian galliot, who said he came from Kamtschatka; and that he had been furnished by the French factory with a passage to Europe \*.

We could not help being much diverted with the fears and apprehensions of these good people, and particularly with the account Mr. Port gave us of the Serjeant's wary proceedings the day before. On seeing me come on shore, in company with some other gentlemen, he had made him and the merchant, who arrived in the sledges we had seen come in the morning, hide themselves in his kitchen, and listen to our conversation with one another, in hopes, that

by this means they might discover whether we were really English or not.

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As we concluded, from the commission and dress of Mr. Port, that he might probably be the Commander's secretary, he was received as such, and invited, with his companion, the merchant, to dine with Captain Clerke: and though we soon began to suspect, from the behaviour of the latter toward him, that he was only a common servant, yet, this being no time to facrifice our little comforts to our pride, we prevented an explanation, by not suffering the question to be put to him; and, in return for the satisfaction we reaped from his abilities as a linguist, we continued to let him live on a footing of equality with us.

<sup>\*</sup> It hath fince appeared, from the account of Kerguelen's Voyage, that this extraordinary person, who had entered into the French service, was commander of a new settlement at Madagascar, when Kerguelen touched there in 1774.

## CHAP. II.

Scarcity of Provisions and Stores at the Harbour of Saint Peter and Saint Paul. - A Party fet out to vifit the Commander at Bolcheretsk .- Passage up the river Awatfka .- Account of their Reception by the Toion of Karatchin.—Description of a Kamtschadale Dress.—Journey on Sledges. - Description of this Mode of Travelling. - Arrival at Natcheekin .- Account of bot Springs .- Embark on the Bolchoireka. - Reception at the Capital. - Generous and hospitable Conduct of the Commander and the Garrison .- Description of Bolcheretsk .- Presents from the Commander .- Russian and Kamtschadale Dancing .- Affeeting Departure from Bolcheretsk .- Return to Saint Peter and Saint Paul's, accompanied by Major Behm, who visits the Ships .- Generosity of the Sailors .- Dispatches sent by Major Behm to Petersburg .- His Departure and Character.

DEING now enabled to converse with the Russians, by D the aid of our interpreter, with tolerable facility, our Tuefday 4. first inquiries were directed to the means of procuring a fupply of fresh provisions, and naval stores; from the want of which latter article, in particular, we had been for some time in great diffress. On inquiry, it appeared, that the whole flock of live cattle, which the country about the bay could furnish, amounted only to two heifers; and these the

Serjeant

Serjeant very readily promifed to procure us. Our applications were next made to the merchant, but we found the terms, upon which he offered to ferve us, fo exorbitant, that Captain Clerke thought it necessary to fend an officer to vifit the Commander at Bolcheretsk, and to inquire into , the price of flores at that place. As foon as this determination was communicated to Mr. Port, he dispatched an exprefs to the Commander, to inform him of our intentions, and, at the fame time, to clear us from the fuspicions that were entertained with respect to the designation and purpofes of our voyage.

Captain Clerke having thought proper to fix on me for this fervice, I received orders, together with Mr. Webber, who was to accompany me as interpreter, to be ready to fet out the next day. It proved, however, too ftormy, as did Wednef. 5. also the 6th, for beginning a journey through so wild and Thursday 6. defolate a country; but, on the 7th, the weather appearing Friday 7. more favourable, we fet out early in the morning in the ship's boats, with a view to reach the entrance of the Awatika at high water, on account of the shoals with which the mouth of that river abounds: here the country boats were to meet us, and carry us up the stream.

Captain Gore was now added to our party, and we were attended by Meffrs. Port and Fedofitsch, with two coffacks, and were provided, by our conductors, with warm furred clothing; a precaution which we foon found very neceffary, as it began to fnow brifkly just after we set out. At eight o'clock, being stopped by shoal water, about a mile from the mouth of the river, fome small canoes, belonging to the Kamtschadales, took up us and our baggage, and carried us over a fpit of fand, which is thrown up by the rapidity of the river, and which, they told us, was con-

tinually shifting. When we had crossed this shoal, the water again deepened; and here we found a commodious boat, built and shaped like a Norway yawl, ready to convey us up the river, together with canoes for our baggage.

The mouth of the Awatska is about a quarter of a mile broad; and as we advanced, it narrowed very gradually. After we had proceeded a few miles, we paffed feveral branches, which, we were told, emptied themselves into other parts of the bay; and that some of those on the left hand, flowed into the Paratounca river. Its general direction from the bay, for the first ten miles, is to the North, after which it turns to the Westward: this bend excepted, it preserves, for the most part, a straight course; and the country, through which it flows, to the diffance of near thirty miles from the fea, is low and flat, and fubject to frequent inundations. We were pushed forward by fix men, with long poles, three at each end of the boat; two of whom were Coffacks, the others Kamtschadales; and advanced against a strong stream, at the rate, as well as I could judge, of about three miles an hour. Our Kamtschadales bore this fevere labour, with great stoutness, for ten hours; during which we stopped only once, and that for a short time, whilst they took some little refreshment. As we had been told, at our first setting out in the morning, that we should easily reach an oftrog, called Karatchin, the fame night, we were much disappointed to find ourselves, at fun-fet, fifteen miles from that place. This we attributed to the delay occasioned in passing the shoals we had met with, both at the entrance of the river, and in feveral other places, as we proceeded up it: for our boat being the first that had passed up the river, the guides were not acquainted

acquainted with the fituation of the shifting fand-banks, and unfortunately the fnow not having yet begun to melt, the shallowness of the river was at its extreme.

The fatigue our men had already undergone, and the difficulty of navigating the river, which would have been much increased by the darkness of the night, obliged us to give up all thoughts of continuing our journey that evening. Having therefore found a place tolerably sheltered, and cleared it of the fnow, we erected a fmall marquife, which we had brought with us; and, by the affiftance of a brifk fire, and fome good punch, paffed the night not very unpleafantly. The only inconvenience we laboured under was, the being obliged to make the fire at some distance from us. For, although the ground was, to all appearance, dry enough before, yet when the fire was lighted, it foon thawed all the parts round it into an absolute puddle. We admired much the alertness and expedition with which the Kamtschadales erected our marquife, and cooked our provisions; but what was most unexpected, we found they had brought with them

not to drink tea two or three times a day. We fet out as foon as it was light, in the morning, and Saturday 8. had not advanced far, before we were met by the Toion, or Chief of Karatchin, who had been apprized of our coming, and had provided canoes that were lighter, and better contrived for navigating the higher parts of the river. A commodious veffel, confifting of two canoes, lashed close together with crofs fpars, lined with bear-skins, and furnished with fur cloaks, was also provided for us. We now went on very rapidly, the Toion's people being both flout and fresh, and remarkable for their expertness in this bu-

their tea-kettles, confidering it as the greatest of hardships

finefs. At ten we got to the oftrog, the feat of his command, where we were received at the water-fide by the Kamtschadale men and women, and some Russian servants belonging to Fedofitich, who were employed in making canoes. They were all dreffed out in their best clothes. Those of the women were pretty and gay, confisting of a full loofe robe, of white nankeen, gathered close round the neck, and fastened with a collar of coloured filk. Over this they wore a fhort jacket, without fleeves, made of differentcoloured nankeens, and petticoats of a flight Chinese filk. Their shifts, which had sleeves down to the wrists, were also of filk; and coloured filk handkerchiefs were bound round their heads, concealing entirely the hair of the married women, whilst those who were unmarried, brought the handkerchief under the hair, and fuffered it to flow loofe behind.

This oftrog was pleasantly fituated by the fide of the river; and consisted of three log-houses; three jourts, or houses made under ground; and nineteen balagans, or summer habitations. We were conducted to the dwelling of the Toion, who was a plain decent man, born of a Russian woman, by a Kamtschadale father. His house, like all the rest in this country, was divided into two apartments. A long narrow table, with a bench round it, was all the furniture we saw in the outer; and the houshold stuff of the inner, which was the kitchen, was not less simple and scanty. But the kind attention of our host, and the hearty welcome we received, more than compensated for the poverty of his lodgings.

His wife proved an excellent cook; and ferved us with fish and game of different forts, and various kinds of heathberries,

berries, that had been kept fince the last year. Whilst we were at dinner in this miferable hut, the guefts of a people, with whose existence we had before been scarce acquainted, and at the extremity of the habitable globe, a folitary, half-worn pewter fpoon, whose shape was familiar to us, attracted our attention; and, on examination, we found it stamped on the back with the word London. I cannot pass over this circumstance in silence, out of gratitude for the many pleasant thoughts, the anxious hopes, and tender remembrances it excited in us. Those, who have experienced the effects that long absence and extreme distance from their native country produce on the mind, will readily conceive the pleafure fuch trifling incidents can give. To the philosopher and the politician they may perhaps fuggest reflections of a different nature.

We were now to quit the river, and perform the next part of our journey on fledges; but the thaw had been too powerful in the day-time, to allow us to fet out, till the cold of the evening had again made the furface of the fnow hard and firm. This gave us an opportunity of walking about the village, which was the only place we had yet feen free from fnow fince we landed in this country. It flood upon a well-wooded flat, about a mile and a half in circumference. The leaves were just budding, and the verdure of the whole scene was strongly contrasted with the fides of the furrounding hills, which were still covered with fnow. As the foil appeared to me very capable of producing all the common forts of garden vegetables, I was greatly furprized not to find the fmallest spot any where cultivated. If to this we add, that none of the inhabitants were poffeffed of cattle of any fort, nothing VOL. III. Dd

can be well conceived more wretched than their fituation must be during the winter months. They were at this time removing from their jourts into their balagans, which afforded us an opportunity of examining both these soft habitations; and they will be hereafter more particularly described. The people invited us into their houses with great good-humour; a general air of cheerfulness and content was every where visible, to which the approaching change of season might probably not a little contribute.

On our return to the *Toion*'s, we found supper prepared for us, which differed in nothing from our former repast; and concluded with our treating the *Toion* and his wife with some of the spirits, we had brought with us, made into punch. Captain Gore, who had great generosity on all occasions, having afterward made them some valuable presents, they retired to the kitchen, leaving us in possession of the outward room, where, spreading our bear-skins on the benches, we were glad to get a little repose, having settled with our conductors to resume our journey, as soon as the ground should be judged fit for travelling.

About nine o'clock, the fame evening, we were awakened by the melancholy howlings of the dogs, which continued all the time our baggage was lashing upon the sledges; but, as soon as they were yoked, and we were all prepared to set out, this changed into a light cheerful yelping, which entirely ceased the instant they marched off. But, before we set out, the Reader may expect to be made more particularly acquainted with this curious mode of travelling.

The figure of the fledges will be best conceived by the annexed engraving, which was taken from one I brought over with me, that is now in the possession of Sir Ashton

Lever.

Lever. The body is about four feet and a half long, and a foot wide, made in the form of a crefcent, of light tough wood, strongly bound together with wicker-work; which, in those belonging to the better fort of people, is elegantly stained of a red and blue colour, and the feat covered with bearskins, or other furs. It is supported by four legs, about two feet high, which rest on two long flat pieces of wood, five or fix inches broad, extending a foot at each end beyond the body of the fledge. These are turned up before in the manner of a skate, and shod with the bone of some sea-animal. The fore-part of the carriage is ornamented with thongs of leather and taffels of coloured cloth; and from the crofsbar, to which the harness is joined, are hung links of iron, or fmall bells, the jingling of which they conceive to be encouraging to the dogs. They are feldom used to carry more than one person at a time, who fits aside, resting his feet on the lower part of the fledge, and carrying his provisions and other necessaries, wrapped up in a bundle, behind him. The dogs are usually five in number, yoked two and two, with a leader. The reins, not being fastened to the head of the dogs, but to the collar, have little power over them, and are therefore generally hung upon the fledge, whilft the driver depends entirely on their obedience to his voice for the direction of them. With this view, the leader is always trained up with a particular degree of care and attention; fome of them rifing to a most extraordinary value on account of their docility and steadiness; infomuch, that for one of thefe, I am well affured, forty roubles (or ten pounds) was no unufual price. The driver is also provided with a crooked flick, which answers the purpose both of whip and reins; as by ftriking it into the fnow, he is enabled to moderate the fpeed of the dogs, or even to ftop them entirely; and when D d 2 they

they are lazy, or otherwife inattentive to his voice, he chaftifes them by throwing it at them. Upon these occasions, their dexterity in picking it up again is very remarkable, and forms the principal difficulty of their art. But it is indeed not furprizing, that they should labour to be skilful in a practice upon which their fafety fo materially depends. For they fay, that if the driver should happen to lose his flick, the dogs will inflantly perceive it; and unless their leader be of the most sober and resolute kind, they will immediately run a-head full speed, and never stop till they are quite fpent. But as that will not be the cafe foon, it generally happens, that either the carriage is overturned, and dashed to pieces against the trees, or they hurry down some precipice, and are all buried in the fnow. The accounts that were given us of the fpeed of these dogs, and of their extraordinary patience of hunger and fatigue, were fcarcely credible, if they had not been supported by the best authority. We were indeed ourselves witnesses of the great expedition with which the meffenger, who had been difpatched to Bolcheretik with the news of our arrival, returned to the harbour of St. Peter and St. Paul, though the fnow was, at this time, exceedingly foft. But I was informed, by the Commander of Kamtschatka, that this journey was generally performed in two days and a half; and that he had once received an express from the latter place in twenty-three hours.

The dogs are fed, during the winter, on the offals of dried and stinking sish; but are always deprived of this miferable food, a day before they fet out on a journey, and never suffered to eat before they reach the end of it. We were also told, that it was not unusual for them to continue thus fasting two entire days, in which time they would per-

form a journey of one hundred and twenty miles\*. These dogs are, in shape, somewhat like the Pomeranian breed, but considerably larger.

As we did not choose to trust to our own skill, we had each of us a man to drive and guide the fledge, which, from the flate the roads were now in, proved a very laborious bufinefs. For, as the thaw had advanced very confiderably in the vallies, through which our road lay, we were under the necessity of keeping along the fides of the hills; and this obliged our guides, who were provided with fnowshoes for that purpose, to support the sledges, on the lower fide, with their fhoulders, for feveral miles together. I had a very good-humoured Coffack to attend me, who was, however, fo very unskilful in his business, that we were overturned almost every minute, to the great entertainment of the rest of the company. Our party consisted, in all, of ten fledges. That in which Captain Gore was carried, was made of two lashed together, and abundantly provided with furs and bear-skins; it had ten dogs, yoked four abreast; as had also some of those that were heavy laden with bag-

When we had proceeded about four miles, it began to rain; which, added to the darkness of the night, threw us

<sup>\*</sup> Extraordinary as this may appear, Krascheninikoff, whose account of Kamtschatka, from every thing that I saw, and had an opportunity of comparing it with, seems to me to deserve entire credit; and whose authority I shall, therefore, frequently have recourse to; relates instances of this kind, that are much more surprizing. "Travelling parties," says he, "are often overtaken with dreadful storms of snow, on the approach of which, they drive, with the utmost precipitation, into the nearest wood, and there are obliged to stay, till the tempest, which frequently lasts six or seven days, is over; the dogs remaining all this while quiet and inosfensive; except that, sometimes, when prest by hunger, they will devour their reins, and the other leathern parts of the harness." History and Description of Kamtschatka, by Krascheninikoss.

all into confusion. It was at last agreed, that we should remain, where we were, till day-light; and accordingly we came to anchor in the fnow (for I cannot better express the manner in which the fledges were fecured), and wrapping ourselves up in our furs, waited patiently for the morn-Sunday 9. ing. About three o'clock we were called on to fet out, our guides being apprehensive, that if we waited longer, we might be stopped by the thaw, and neither be able to proceed, nor to return. After encountering many difficulties, which were principally occasioned by the bad condition of the road, at two in the afternoon we got fafe to an offrog, called Natcheekin, fituated on the fide of a fmall ftream, which falls into the Bolchoireka, a little way below the town. The diftance between Karatchin and Natcheekin is thirty-eight werfts (or twenty-five miles); and, had the hard frost continued, we should not, by their account, have been more than four hours in performing it; but the fnow was fo foft, that the dogs, almost at every step, funk up to their bellies; and I was indeed much furprized at their being at all able to overcome the difficulties of fo fatiguing a journey.

> Natcheekin is a very inconfiderable oftrog, having only one log-house, the residence of the Toion; five balagans, and one jourt. We were received here with the same formalities, and in the same hospitable manner, as at Karatchin; and in the afternoon we went to vifit a remarkable hotfpring, which is near this village. We faw, at some distance, the steam rising from it, as from a boiling caldron; and as we approached, perceived the air had a ftrong fulphureous fmell. The main fpring forms a bason of about three feet in diameter; besides which, there are a number of lesser fprings, of the same degree of heat, in the adjacent ground;

fo that the whole fpot, to the extent of near an acre, was fo hot, that we could not stand two minutes in the same place. The water flowing from these springs is collected in a fmall bathing pond, and afterward forms a little rivulet; which, at the diftance of about an hundred and fifty yards, falls into the river. The bath, they told us, had wrought great cures in feveral diforders, fuch as rheumatisms, swelled and contracted joints, and scorbutic ulcers. In the bathing-place the thermometer flood at 100°, or blood heat; but in the fpring, after being immerfed two minutes, it was 1° above boiling fpirits. The thermometer in the air, at this time, was 34°; in the river 40°; and in the Toion's house 64°. The ground where these springs break out, is on a gentle afcent; behind which there is a green hill of a moderate fize. I am forry I was not fufficiently skilled in botany to examine the plants, which seemed to thrive here with great luxuriance; the wild garlic, indeed, forced itself on our notice, and was at this time springing up very vigoroufly.

The next morning, we embarked on the Bolchoireka in Monday 10. canoes; and, having the stream with us, expected to be at our journey's end the day following. The town of Bolcheretsk is about eighty miles from Natcheekin; and we were informed, that, in the fummer feafon, when the river has been full and rapid, from the melting of fnow on the mountains, the canoes had often gone down in a fingle day; but that, in its prefent flate, we should probably be much longer, as the ice had broken up only three days before we arrived; and that ours would be the first boat that had attempted to pass. This intelligence proved but too true. We found ourselves greatly impeded by the shallows; and though the stream, in many places, ran with great rapidity, yet every

half mile we had ripplings and shoals, over which we were obliged to haul the boats. The country, on each fide, was very romantic, but unvaried; the river running between mountains of the most craggy and barren aspect, where there was nothing to diversify the scene, but now and then the fight of a bear, and the flights of wild-fowl. So uninteresting a passage leaves me nothing farther to fay, Tuefday 11. than that this, and the following night, we flept on the banks of the river, under our marquife; and fuffered very much from the feverity of the weather, and the fnow, which still remained on the ground.

At day-light on the 12th, we found we had got clear of the mountains, and were entering a low extensive plain, covered with shrubby trees. About nine in the forenoon, we arrived at an offrog, called Opatchin, which is computed to be fifty miles from Natcheekin, and is nearly of the same fize as Karatchin. We found here a ferjeant with four Ruffian foldiers, who had been two days waiting for our arrival; and who immediately dispatched a light boat to Bolcheretsk, with intelligence of our approach. We were now put into the trammels of formality; a canoe, furnished with skins and furs, and equipped in a magnificent manner, was prepared for our reception, in which we were accommodated much at our ease, but to the exclusion of the rest of our fellow-travellers. It was with much regret we found ourselves obliged to separate from our old companion Monfieur Port, whom we had observed to grow every day more shy and distant, as we drew nearer the end of our journey. Indeed, he had himfelf told us, before we fet out, that we paid him a refpect he had no title to; but, as we found him a very modest and discreet man, we had insisted on his living with us during the whole of our journey. The remainder

remainder of our paffage was performed with great facility and expedition, the river growing more rapid as we defcended, and less obstructed by shoals.

As we approached the capital, we were forry to observe, from an appearance of much ftir and buftle, that we were to be received in form. Decent clothes had been, for fome time, a fcarce commodity amongst us; and our travelling dreffes were made up of a burlefque mixture of European, Indian, and Kamtschadale fashions. We therefore thought it would be too ridiculous to make a parade in this trim through the metropolis of Kamtschatka; and, as we saw a crowd collected on the banks of the river, and were told the Commander would be at the water-fide to receive us, we stopped short at a foldier's house, about a quarter of a mile from the town, from whence we fent Port with a meffage to his Excellency, acquainting him, that the moment we had put off our travelling dreffes, we would pay our refpects to him at his own house; and to beg he would not think of waiting to conduct us. Finding, however, that he perfifted in his intentions of paying us this compliment, we loft no farther time in attiring ourselves, but made all the haste in our power to join him at the entrance of the town. I observed my companions to be as awkward as I felt myself, in making our first salutations; bowing and fcraping being marks of good-breeding that we had now, for two years and a half, been totally unaccustomed to. The manner in which we were received by the Commander, was the most engaging that could be conceived, and increased my mortification, at finding, that he had almost entirely forgot the French language; fo that the fatisfaction of converfing with him was wholly confined to Mr. Webber, who fpoke the German, his native tongue.

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In company with Major Behm, was Captain Shmaleff, the fecond in command, and another officer, with the whole body of the merchants of the place. They conducted us to the Commander's house, where we were received by his lady with great civility, and found tea and other refreshments prepared for us. After the first compliments were over, Mr. Webber was defired to acquaint the Major with the object of our journey, with our want of naval stores, flour, and fresh provisions, and other necessaries for the ships crews; and at the fame time to affure him, that we were fenfible, from what we had already feen of the condition of the country about Awatika Bay, we could not expect much affiftance from him in that quarter; that the impoffibility of fending heavy stores across the peninfula, during the prefent feafon of the year, was but too apparent, from the difficulties we had met with in our journey; and that, long before any material change could take place, we should be under the necessity of proceeding on our voyage. We were here interrupted by the Commander, who obferved, that we did not yet know what they were capable of doing; that, at least, it was not his business to think of the difficulties of fupplying our wants, but only to learn what were the articles we ftood in need of, and the longest time we could allow him, for procuring them. After expreffing our fense of his obliging disposition, we gave him a list of the naval stores, the number of cattle, and the quantity of flour, we were directed to purchase, and told him, that we purposed recommencing our voyage about the 5th of Tune.

Our conversation afterward turned upon different subjects; and it will naturally be supposed, that our inquiries were principally directed to the obtaining some information respecting respecting our own country. Having now been absent three years, we had flattered ourselves with the certainty of receiving intelligence from Major Behm, which could not fail of being interesting; and I cannot express the disappointment we felt, on finding, that he had no news to communicate of a much later date than that of our departure from England.

About feven o'clock, the Commander, conceiving we might be fatigued with our journey, and defirous of taking fome repose, begged he might conduct us to our lodgings. It was in vain that we protested against a compliment which we had certainly no title to expect, but that of being ftrangers; a circumftance which feemed, in the opinion of this generous Livonian, to counterbalance every other confideration. In our way, we paffed by two guard-houses, where the men were turned out under arms, in compliment to Captain Gore; and were afterward brought to a very neat and decent house, which the Major gave us to understand was to be our refidence, during our ftay. Two fentinels were posted at the door; and in a house adjoining, there was a ferjeant's guard. Having shewn us into our apartments, the Major took his leave, with a promife to fee us the next day; and we were left to find out, at our leifure, all the conveniencies that he had most amply provided for us. A foldier, called a putproperschack, whose rank is between that of a ferjeant and corporal, along with our fellow-traveller Port, were appointed to be our male domestics; befides whom, there was a house-keeper and a cook, who had orders to obey Port's directions in dreffing us a fupper, according to our own mode of cookery. We received many civil meffages, in the course of the evening, from the principal people of the town, purporting, that they would not

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add to our fatigues, by paying their respects to us at that time, but would wait on us in the morning. Such well-fupported politeness and attention, in a country so desolate and uncultivated, formed a contrast exceedingly favourable to its inhabitants; and, to finish the piece as it began, at sun-set the serjeant came with the report of his guard to Captain Gore.

Thurfday 13.

Early in the morning, we received the compliments of the Commander, of Captain Shmaleff, and of the principal inhabitants of the town, who all honoured us with vifits foon after. The two first, having fent for Port, after we were gone to rest, and inquired of him, what articles we seemed to be most in want of on board the ships; we found them prepared to insist on our sharing with the garrison under their command, in what little stock of provisions they had remaining. At the same time they lamented, that we had arrived at a season of the year, when there was always the greatest scarcity of every thing amongst them; the sloops not being yet arrived, with their annual supply, from Okotsk.

We agreed to accept the liberality of these hospitable strangers, with the best grace we could; but on condition, that we might be made acquainted with the price of the articles we were to be supplied with; and that Captain Clerke should give bills to the amount, upon the Victualling Office in London. This the Major positively refused; and whenever it was afterward urged, stopped us short, by telling us, he was certain, that he could not oblige his Mistress more, than in giving every affistance in his power to her good friends and allies the English; and that it would be a particular satisfaction to her, to hear, that in so remote a part of the world, her dominions had afforded any relief to ships engaged

engaged in fuch fervices as ours; that he could not therefore act so contrary to the character of his Empress, as to accept of any bills; but that, to accommodate the matter, he would take a bare attestation of the particulars, with which we might be furnished; and that this he should transmit to his Court, as a certificate of having performed his duty. I shall leave (he continued) to the two Courts, all farther acknowledgments; but cannot consent to accept any thing of the kind alluded to.

When this matter was adjusted, he began to inquire about our private wants; faying, he should consider himself as ill used, if we had any dealings with the merchants, or applied to any other person except himself.

In return for fuch fingular generofity, we had little to bestow but our admiration and our thanks. Fortunately, however, Captain Clerke had fent by me a fet of prints and maps, belonging to the last voyage of Captain Cook, which he defired me to prefent in his name to the Commander; who being an enthufiast in every thing relating to discoveries, received it with a fatisfaction which shewed, that, though a trifle, nothing could have been more acceptable. Captain Clerke had likewife intrusted me with a discretionary power of shewing him a chart of the discoveries made in the prefent voyage; and as I judged, that a person in his fituation, and of his turn of mind, would be exceedingly gratified by a communication of this fort, though, out of delicacy, he had forborn to ask more than a few general questions on the subject, I made no scruple to repose in him a confidence, of which his whole conduct shewed him to be deferving.

I had the pleasure to find, that he felt this compliment as I hoped he would, and was much struck at seeing, in one

view, the whole of that coast, as well on the side of Asia as on that of America, of which his countrymen had been so many years employed in acquiring a partial and impersect knowledge \*.

Excepting this mark of confidence, and the fet of prints I have already mentioned, we had brought nothing with us that was in the least worth his acceptance; for it scarce deferves noticing, that I prevailed on his son, a young boy, to accept of a filver watch I happened to have about me; and I made his little daughter very happy with two pair of ear-rings, of French paste. Besides these trisles, I lest with Captain Shmaless the thermometer I had used on my journey; and he promised me, to keep an exact register of the temperature of the air for one year, and to transmit it to Mr. Muller, with whom he had the pleasure of being acquainted.

We dined this day at the Commander's, who, studious on every occasion to gratify our curiosity, had, besides a number of dishes dressed in our own way, prepared a great variety of others, after the Russian and Kamtschadale manner. The afternoon was employed in taking a view of the town, and the adjacent country. Bolcheretsk is situated in a low swampy plain, that extends to the sea of Okotsk, being about forty miles long, and of a considerable breadth. It

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lies on the North fide of the Bolchoireka (or great river), between the mouth of the Gottfofka and the Bistraia, which here empty themselves into this river; and the peninsula, on which it stands, has been separated from the continent by a large canal, the work of the prefent Commander; which has not only added much to its ftrength as a fortrefs, but has made it much less liable, than it was before, to inundations. Below the town, the river is from fix to eight feet deep, and about a quarter of a mile broad. It empties itself into the sea of Okotsk, at the distance of twenty-two miles; where, according to Krascheninikoss, it is capable of admitting veffels of a confiderable fize. There is no corn, of any species, cultivated in this part of the country; and Major Behm informed me, that his was the only garden that had yet been planted. The ground was, for the most part, covered with fnow; that which was free from it appeared full of fmall hillocks, of a black turfy nature. I faw about twenty or thirty cows; and the Major had fix flout horses. These, and their dogs, are the only tame animals they poffess; the necessity they are under, in the present ftate of the country, of keeping great numbers of the latter, making it impossible to bring up any cattle, that are not in fize and ftrength a match for them. For, during the fummer feafon, their dogs are entirely let loofe, and left to provide for themselves; which makes them so exceedingly ravenous, that they will fometimes even attack the bullocks.

The houses in Bolcheretsk are all of one fashion, being built of logs, and thatched. That of the Commander is much larger than the rest, consisting of three rooms of a considerable size, neatly papered, and which might have been reckoned handsome, if the *talc* with which the win-

<sup>\*</sup> On this occasion, Major Behm permitted us to examine all the maps and charts that were in his possession. Those relating to the peninsula of the Tschutski, were made in conformity to the information collected by Plenishner, between the years 1760 and 1770. As the charts of Plenishner were afterward made use of, according to Mr. Coxe, in the compilation of the General Map of Russia, published by the Academy in 1776, it may be necessary to observe, that we found them exceedingly erroneous; and that the compilers of the General Map seem to have been led into some mistakes on his authority. Those, in which the islands on the coast of America were laid down, we found to contain nothing new, and to be much less accurate than those we saw at Oonalashka.

dows were covered, had not given them a poor and difagreeable appearance. The town confifts of feveral rows of low buildings, each confifting of five or fix dwellings, connected together, with a long common paffage running the length of them; on one fide of which is the kitchen and ftore-house; and on the other the dwelling apartments. Besides these, are barracks for the Russian foldiers and Cosfacks; a well-looking church; and a court-room; and at the end of the town a great number of Balagans, belonging to the Kamtschadales. The inhabitants, taken all together, amount to between five and fix hundred. In the evening, the Major gave a handsome entertainment; to which the principal people of the town, of both sexes, were invited.

Friday 14.

The next morning we applied privately to the merchant Fedofitich, to purchase some tobacco for the failors, who had now been upward of a twelvemonth without this favourite commodity. However, this, like all our other transactions of the fame kind, came-immediately to the Major's knowledge; and we were foon after furprized to find, in our house, four bags of tobacco, weighing upward of a hundred pounds each, which he begged might be prefented, in the name of himfelf, and the garrifon under his command, to our failors. At the fame time, they had fent us twenty loaves of fine fugar, and as many pounds of tea, being articles they understood we were in great want of, which they begged to be indulged in prefenting to the officers. Along with thefe, Madame Behm had also fent a present for Captain Clerke, confifting of fresh butter, honey, figs, rice, and fome other little things of the fame kind, attended with many wishes, that, in his infirm state of health, they might be of fervice to him. It was in vain we tried to oppose this profusion profusion of bounty, which I was really anxious to restrain, being convinced, that they were giving away, not a share, but almost the whole stock of the garrison. The constant answer the Major returned us, on those occasions, was, that we had suffered a great deal, and that we must needs be in distress. Indeed, the length of time we had been out, since we touched at any known port, appeared to them so very incredible, that it required the testimony of our maps, and other corroborating circumstances, to gain their belief. Amongst the latter was a very curious fact which Major Behm related to us this morning, and which, he said, but for our arrival, he should have been totally at a loss to account for.

It is well known, that the Tschutski are the only people, of the North of Asia, who have maintained their independence, and refifted all the attempts that have been made by the Ruffians to reduce them. The last expedition against them was undertaken in the year 1750, and terminated, after various fuccefs, in the retreat of the Ruffian forces, and the loss of the commanding officer. Since that time, the Ruffians had removed their frontier fortrefs from the Anadir to the Ingiga, a river that empties itself into the Northern extremity of the fea of Okotík, and gives its name to a gulf, fituated to the West of that of Penshinsk. From this fort, Major Behm had received dispatches the day of our arrival at Bolcheretsk, containing intelligence, that a tribe, or party, of the Tichutiki, had arrived at that place with propositions of friendship, and a voluntary offer of tribute; that on inquiring into the cause of this unexpected alteration in their fentiments, they had informed his people, that toward the latter end of the laft fummer they had been vifited by two very large Ruffian boats; that they had been Vor. III. Ff treated

treated by the people, who were in them, with the greatest kindness, and had entered into a league of friendship and amity with them; and that, relying on this friendly difposition, they were now come to the Russian fort, in order to fettle a treaty, on fuch terms as might be acceptable to both nations. This extraordinary history had occasioned much fpeculation, both at Ingiginsk and Bolcheretsk; and, had we not furnished them with a key to it, must have remained perfectly unintelligible. We felt no fmall fatisfaction in having, though accidentally, fhewn the Ruffians, in this inftance, the only true way of collecting tribute, and extending their dominions; and in the hopes that the good understanding, which this event hath given rise to, may refcue a brave people from the future invafions of fuch powerful neighbours.

We dined, this day, with Captain Shmaleff; and in the afternoon, in order to vary our amusements, he treated us with an exhibition of the Ruffian and Kamtschadale dancing. No description can convey an adequate idea of this rude and uncouth entertainment. The figure of the Ruffian dance was much like those of our hornpipes, and was danced either fingle, or by two or four perfons at a time. Their steps were short and quick, with the feet scarce raifed from the ground; the arms were fixed close to the fides; the body being all the while kept upright and immoveable, excepting when the parties passed each other, at which time the hand was raifed with a quick and awkward motion. But if the Ruffian dance was at the fame time both unmeaning and ridiculous, the Kamtschadale joined to the latter quality the most whimfical idea that ever entered into any people's heads. It is intended to reprefent the awkward and clumfy gestures of the bear, which these people people have frequent opportunities of observing in a great variety of fituations. It will fcarcely be expected that I should give a minute description of all the strange postures which were exhibited on these occasions; and I shall therefore only mention, that the body was always bowed, and the knees bent, whilft the arms were used in imitating the tricks and attitudes of that animal.

As our journey to Bolcheretsk had taken up more time than we expected, and we were told that our return might prove still more difficult and tedious, we were under the neceffity of acquainting the commander, this evening, with our intention of fetting out the next day. It was not without the utmost regret we thought of leaving our new acquaintance; and were therefore most agreeably surprized, when the Major told us, that if we could ftay one day longer, he would accompany us. He had, he faid, made up his dispatches, and refigned the command of Kamtschatka to his fucceffor Captain Shmaleff, and had prepared every thing for his departure to Okotik, which was to take place in a few days; but that he should feel great pleasure in putting off his journey a little longer, and returning with us to Saint Peter and Saint Paul's, that he might himself be a witness of every thing being done for us, that it was in their power to do. .

In return for the few trifles I had given to the children of Major Behm, I was, next morning, the 15th, presented, Saturday 15. by his little boy, with a most magnificent Kamtschadale drefs, which shall be described in its proper place. It was of the kind worn by the principal Toions of the country, on occasions of great ceremony; and, as I was afterward told, by Fedofitsch, could not have been purchased for one hundred and twenty roubles. At the fame time I

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had

had a prefent from his daughter, of a handsome fable muff.

We afterward dined with the Commander, who, in order to let us fee as much of the manners of the inhabitants, and of the customs of the country, as our time would permit, invited the whole of the better fort of people in the village to his house this evening. All the women appeared very fplendidly dreffed, after the Kamtschadale fashion. The wives of Captain Shmaleff, and the other officers of the garrison, were prettily dreffed, half in the Siberian, and half in the European mode; and Madame Behm, in order to make the stronger contrast, had unpacked part of her baggage, and put on a rich European drefs. I was much ftruck with the richness and variety of the filks which the women wore, and the fingularity of their habits. The whole was like fome enchanted fcene in the midft of the wildest and most dreary country in the world. Our entertainment again confifted of dancing and fing-

The next morning being fixed for our departure, we retired early to our lodgings, where the first things we saw were three travelling dresses, made after the fashion of the country, which the Major had provided for us, who came himself to our house soon after, to see all our things packed up, and properly taken care of. Indeed, what with his liberal presents, and the kindness of Captain Shmaless, and many other individuals, who all begged to throw in their mite, together with the ample stock of provisions he had sent us for our journey, we had amassed no inconsiderable load of baggage.

Sunday 16.

Early in the morning, every thing being ready for our departure, we were invited to call on Madame Behm, in

our way to the boats, and take our leave of her. Impreffed, as our minds were, with fentiments of the warmest gratitude, by the attentive, benevolent, and generous treatment we had met with at Bolcheretik, they were greatly heightened by the affecting scene which presented itself to us, on leaving our lodgings. All the foldiers and Coffacks, belonging to the garrison, were drawn up on one hand, and the male inhabitants of the town, dreffed out in their best clothes, on the other; and, as foon as we came out of the house, the whole body of the people joined in a melancholy fong, which, the Major told us, it was usual, in that country, to fing on taking leave of their friends. In this manner we marched down to the Commander's house, preceded by the drums and music of the garrison, where we were received by Madame Behm, attended by the ladies, who were dreffed in long filk cloaks, lined with very valuable furs of different colours, which made a most magnificent appearance. After partaking of fome refreshment, that was prepared for us, we went down to the water-fide, accompanied by the ladies, who now joined the fong with the rest of the inhabitants; and as soon as we had taken leave of Madame Behm, and affured her of the grateful fense we should ever retain of the hospitality of Bolcheretsk, we found ourselves too much affected, not to hasten into the boats with all the expedition we could. When we put off, the whole company gave us three cheers, which we returned from the boat; and, as we were doubling a point, where for the last time we faw our friendly entertainers, they took their farewel in another cheer.

We found the stream, on our return, so exceedingly rapid, that, notwithstanding the Cossacks and Kamtschadales used their utmost exertions, we did not reach the first vil-

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lage, Opatchin, till the evening of the 17th, which was at the rate of about twenty miles a day. We got to Natcheekin Monday 17. on the 19th; and, on the 20th, we croffed the plain to Wednef. 19. Karatchin. We found the road much better than when we had paffed it before, there having been a fmart froft Friday 21. on the night of the 19th. On the 21st, we proceeded down the Awatska River; and, before it was dark, got over the shoals which lie at the entrance of the bay. During the whole course of our journey, we were much pleased with the great good-will with which the Toions, and their Kamtschadales, afforded us their affistance, at the different offrogs through which we paffed; and I could not but observe the pleafure that appeared in their countenances, on feeing

the Major, and their ftrong expressions of forrow, on hearing he was fo foon going to leave them.

We had dispatched a messenger to Captain Clerke, from Bolcheretsk, with an account of our reception, and of the Major's intention of returning with us; at the fame time, apprizing him of the day he might probably expect to fee us. We were therefore very well pleafed to observe, as we approached the harbour, all the boats of the two ships coming toward us, the men clean, and the officers as well dreffed as the fcarcity of our clothing would permit. The Major was much ftruck at the robust and healthy appearance of the boats crews, and still more at feeing most of them without any other covering than a shirt and trowfers, although at the very moment it actually fnowed.

As Major Behm had expressed his intentions of visiting the ships before he landed, as foon as we arrived off the town, I defired to receive his commands; when remarking, that from the account we had given of the very bad state of Captain

Captain Clerke's health, it might be imprudent to diffurb him at fo late an hour (it being now past nine o'clock), he thought it, he faid, most adviseable to remain that night on shore. Accordingly, after attending him to the Serjeant's house, I took my leave, for the present, and went on board to acquaint Captain Clerke with my proceedings at Bolcheretsk. It was with the utmost concern I found, that in the fortnight we had been absent, this excellent officer was much altered for the worse, instead of reaping that advantage we flattered ourselves he might, from the repose of the harbour, and the milk and vegetable diet with which he was fupplied.

As foon as I had dispatched this business, I returned to Saturday 22, the Major, and the next morning conducted him to the ships; where, on his arrival, he was faluted with thirteen guns, and received with every other mark of distinction, that it was in our power to pay him. He was attended by the Commander of one of the Russian galliots, the master of a floop that lay in the harbour, two merchants from Bolcheretik, and the priest of the neighbouring village of Paratounca, for whom he appeared to entertain the highest respect, and whom I shall hereafter have occasion. to mention, on account of his great kindness to Captain Clerke.

After vifiting the Captain, and taking a view of both the fhips, he returned to dinner on board the Refolution; and, in the afternoon, the various curiofities we had collected in the course of our voyage, were shewn him, and a complete affortment of every article prefented to him by Captain Clerke. On this occasion I must not pass over an instance of great generofity and gratitude in the failors of both fhips; who, when they were told of the handsome present of to-

bacco that was made them by the Major, defired, entirely of their own accord, that their grog might be stopped, and their allowance of spirits presented, on their part, to the garrison of Bolcheretsk, as they faid they had reason to conclude that brandy was farce in the country, and would be very acceptable to then, fince the foldiers on fhore had offered four roubles a bottle for it. We, who knew how much the failors always felt, whenever their allowance of grog was ftopped, which was generally done in warm weather, that they might have it in a greater proportion in cold, and that this offer would deprive them of it during the inclement feafon we had to expect in our next expedition to the North, could not but admire fo extraordinary a facrifice; and, that they might not fuffer by it, Captain Clerke, and the rest of the officers, substituted in the room of the very fmall quantity the Major could be prevailed on to accept, the fame quantity of rum. This, with a dozen or two of Cape wine, for Madame Behm, and fuch other little prefents as were in our power to beflow, were accepted in the most obliging manner. The next morning the tobacco was divided between the crews of the two ships, three pounds being allotted to every man that chewed or fmoked tobacco, and one pound to those that did not.

I have before mentioned, that Major Behm had refigned the command of Kamtschatka, and intended to set out in a short time for Petersburg; and he now offered to charge himself with any dispatches we might trust to his care. This was an opportunity not to be neglected; and accordingly Captain Clerke acquainted him, that he would take the liberty of fending by him fome papers relating to our voyage, to be delivered to our Ambaffador at the Ruffian court. Our first intentions were to fend only a small journal

of our proceedings; but afterward, Captain Clerke being perfuaded that the whole account of our discoveries might fafely be trufted to a person who had given such striking proofs both of his public and private virtues; and confidering that we had a very hazardous part of the voyage still to undertake, determined to fend, by him, the whole of the journal of our late Commander, with that part of his own, which completed the period from Captain Cook's death, till our arrival at Kamtschatka; together with a chart of all our discoveries. Mr. Bayly, and myfelf, thought it also proper to fend a general account of our proceedings to the board of longitude; by which precautions, if any misfortune had afterward befallen us, the Admiralty would have been in poffession of a complete history of the principal facts of our voyage. It was also determined, that a smaller pacquet should be fent by an express from Okotsk, which, the Major faid, if he was fortunate in his paffage to that port, would reach Petersburg by December; and that he himself should be there in February or March.

During the three following days, the Major was entertained alternately in the two ships, in the best manner we were able. On the 25th, he took his leave, and was faluted Thursday 25. with thirteen guns; and the failors, at their own defire, gave him three cheers. The next morning, Mr. Webber, Wednef, 26. and myfelf, attended him a few miles up the Awatíka River, where we met the Russian priest, his wife and children, who were waiting to take the last farewel of their commander.

It was hard to fay, whether the good priest and his family, or ourselves, were most affected on taking our leave of Major Behm. Short as our acquaintance had been, his noble and difinterested conduct had inspired us with the VOL. III. highest Gg

highest respect and esteem for him; and we could not part with a perfon to whom we were under fuch obligations, and whom we had little profpect of ever feeing again, without feeling the most tender concern. The intrinsic value of the private prefents we received from him, exclusive of the stores which might be carried to a public account, must have amounted, according to the current price of articles in that country, to upward of two hundred pounds. But this generofity, extraordinary as it must appear in itself, was exceeded by the delicacy with which all his favours were conferred, and the artful manner in which he endeavoured to prevent our feeling the weight of obligations, which he knew we had no means of requiting. If we go a step further, and confider him as supporting a public character, and maintaining the honour of a great Sovereign, we shall find a still higher subject of admiration, in the just and enlarged fentiments by which he was actuated. "The fervice in " which you are employed," he would often fay, " is for " the general advantage of mankind, and therefore gives " you a right, not merely to the offices of humanity, but to " the privileges of citizens, in whatever country you may " be thrown. I am fure I am acting agreeably to the wishes " of my Mistress, in affording you all the relief in our " power; and I cannot forget either her character, or my " own honour, fo much, as to barter for the performance " of a duty." At other times, he would tell us, that he was particularly defirous of fetting a good example to the Kamtschadales, who, he faid, were but just emerging from a ftate of barbarism; that they looked up to the Russians as their patterns in everything; and that he had hopes they might, in future, look upon it as a duty incumbent upon them to affift ftrangers to the utmost of their power,

and believe, that fuch was the univerfal practice of civilized nations. To all this must be added, that, after having relieved, to the utmost of his abilities, all our present distresses, he shewed himself not much less mindful of our future wants; and, as he supposed it more than probable we should not discover the passage we were in search of, and therefore should return to Kamtschatka in the fall of the year, he made Captain Clerke give him a list of what cordage and flour we should want, and promised they should be fent from Okotsk, and wait our arrival. For the same purpose, he gave Captain Clerke a paper, enjoining all the subjects of the Empress, whom we might happen to meet, to give us every affistance in their power.

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### THE PACIFIC OCEAN.

#### CHAP. III.

Continuation of Transactions in the Harbour of St. Peter and St. Paul. - Abundance of Fish. - Death of a Seaman belonging to the Resolution .- The Russian Hospital put under the Care of the Ship's Surgeons .- Supply of Flour and Cattle. - Celebration of the King's Birth-day. - Difficulties in failing out of the Bay .- Eruption of a Volcano .- Steer to the Northward.—Cheepoonskoi Noss.—Errors of the Rusfian Charts.—Kamtschatskoi Noss.—Olutorskoi Noss.—Tschukotskoi Noss.—Island of St. Laurence.—View, from the same Point, of the Coasts of Asia and America, and the Islands of St. Diomede .- Various Attempts to get to the North, between the two Continents .- Obstructed by impenetrable Ice. -Sea-borfes and white Bears killed .- Captain Clerke's Determination, and future Designs.

AVING concluded the last chapter with an account I of our return from Bolcheretik, accompanied by Major Behm, the Commander of Kamtschatka, and of his departure; I shall proceed to relate the transactions that paffed in the harbour of St. Peter and St. Paul during our Friday 7. absence. On the 7th of May, soon after we had left the bay, a large piece of ice drove across the cut-water of the Refolution, and brought home the fmall bower anchor. This obliged them to weigh the other anchor, and moor again.

again. The carpenters, who were employed in stopping the leak, were obliged to take off a great part of the fheathing from the bows, and found many of the trunnels fo very loofe and rotten, as to be eafily drawn out with the fingers.

On the 11th, they had heavy gales from the North East, Tuesday 11. which obliged both the ships to strike yards and topmasts; but in the afternoon, the weather being more moderate, and the ice having drifted away as far as the mouth of the harbour of St. Peter and St. Paul, they warped close to the shore for the greater convenience of watering and wooding, and again moored as before; the town bearing North half West, half a mile distant, and the mouth of the bay, thut in by the Southernmost point of Rakowina harbour, South.

The next day a party was fent on shore to cut wood, but Wednes. 12, made little progress on account of the snow, which still covered the ground. A convenient fpot was cleared away abreast of the ships, where there was a fine run of water; and a tent being erected for the cooper, the empty casks were landed, and the fail-makers fent on shore.

On the 15th, the beach being clear of ice, the people Saturday 15. were fent to haul the feine, and caught an abundant supply of fine flat fish for both the ships companies. Indeed, from this time, during the whole of our flay in the harbour, we were absolutely overpowered with the quantities of fish which came in from every quarter. The Toions, both of this town, and of Paratounca, a village in the neighbourhood, had received orders from Major Behm to employ all the Kamtschadales in our service; so that we frequently could not take into the ships the prefents that were fent us. They confifted, in general,

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of flat fish, cod, trout, and herring. These last, which were in their full perfection, and of a delicious flavour, were exceedingly abundant in this bay. The Difcovery's people furrounded, at one time, fo great a quantity in their feine, that they were obliged to throw a vast number out, left the net should be broken to pieces; and the cargo they landed was afterward fo plentiful, that, besides a sufficient store for immediate use, they filled as many casks as they could spare for falting; and, after fending to the Refolution a fufficient quantity for the fame purpose, they left several bushels behind on the beach.

The fnow now began to difappear very rapidly, and abundance of wild garlic, celery, and nettle-tops were gathered for the use of the crews; which being boiled with wheat and portable foup, made them a wholefome and comfortable breakfast; and with this they were supplied every morning. The birch-trees were also tapped, and the fweet juice, which they yielded in great quantities, was constantly mixed with the men's allowance of brandy.

Sunday 16.

The next day, a fmall bullock, which had been procured for the ships companies by the Serjeant, was killed; and weighed two hundred and feventy-two pounds. It was ferved out to both crews for their Sunday's dinner, being the first piece of fresh beef they had tasted since our departure from the Cape of Good Hope in December 1776, a period of near two years and a half.

This evening died John Macintosh, the carpenter's mate, after having laboured under a dyfentery ever fince our departure from the Sandwich Islands: he was a very hardworking quiet man, and much regretted by his mess-mates. He was the fourth person we lost by sickness during the

voyage; but the first who could be faid, from his age, and the conflitutional habits of his body, to have had, on our fetting out, an equal chance with the rest of his comrades: Watman, we supposed to be about fixty years of age; and Roberts, and Mr. Anderson, from the decay which had evidently commenced before we left England, could not, in all probability, under any circumstances, have lived a greater length of time than they did.

THE PACIFIC OCEAN.

I have already mentioned, that Captain Clerke's health continued daily to decline, notwithstanding the falutary change of diet which the country of Kamtschatka afforded him. The prieft of Paratounca, as foon as he heard of the infirm state he was in, supplied him every day with bread, milk, fresh butter, and fowls, though his house was fixteen miles from the harbour where we lay.

On our first arrival, we found the Ruffian hospital, which is near the town of St. Peter and St. Paul, in a condition truly deplorable. All the foldiers were, more or lefs, affected by the scurvy, and a great many in the last stage of that diforder. The rest of the Russian inhabitants were also in the fame condition; and we particularly remarked, that our friend the Serjeant, by making too free with the spirits we gave him, had brought on himfelf, in the course of a few days, fome of the most alarming fymptoms of that malady. In this lamentable state, Captain Clerke put them all under the care of our furgeons, and ordered a fupply of four-krout, and malt, for wort, to be furnished for their use. It was aftonishing to observe the alteration in the figures of almost every person we met on our return from Bolcheretsk; and I was informed, by our furgeons, that they attributed their speedy recovery principally to the effects of the sweetwort.

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On the 1st of June we got on board two hundred and fifty poods, or nine thousand pound weight of rye-flour, with which we were supplied from the stores of St. Peter and St. Paul's; and the Difcovery had a proportional quantity. The men were immediately put on full allowance of bread, which they had not been indulged in fince our leaving the Cape of Good Hope. The fame day, our watering was completed, having got on board fixty-five tons.

On the 4th, we had fresh breezes, and hard rain, which disappointed us in our design of dressing the ships, and obliged us to content ourselves with firing twenty-one guns in honour of the day, and celebrating it in other respects in the best manner we were able. Port, who was left with us on account of his skill in languages, behaved himself with so much modesty and discretion, that, as soon as his mafter was gone, he was no longer Jean Port, but Monfieur Port, the interpreter; and partook, as well as the Serjeant (in his capacity of commander of the place), of the entertainment of the day. Our worthy friend, the prieft of Paratounca, having got intelligence of its being our king's birth-day, gave also a sumptuous feast; at which fome of our gentlemen were prefent, who feemed highly delighted with their entertainment, which confifted of abundance of good eating and drinking, together with dancing.

On the 6th, twenty head of cattle were fent us, by the Commander's orders, from the Verchnei oftrog, which is fituated on the river Kamtschatka, at the distance of near a hundred miles from this place, in a direct line. They were of a moderate fize; and, notwithstanding the Kamtschadales had been feventeen days in driving them down to the harbour, arrived in good condition. The four following days

were employed in making ready for fea; and, on the 11th, at two in the morning, we began to unmoor; but, before we had got one anchor up, it blew fo ftrong a gale from the Friday 11. North East, that we kept fast, and moored again; conjecturing, from the position of the entrance of the bay, that the current of wind would fet up the channel. Accordingly, the pinnace being fent out to examine the paffage, returned with an account, that the wind blew ftrong from the South East, with a great fwell, fetting into the bay, which would have made any attempt to get to fea very hazardous.

with him the box with our journals, which was to go by the Major, and the pacquet that was to be fent express. On the 12th, the weather being moderate, we began to un- Saturday 12. moor again; but, after breaking the meffenger, and reeving a running purchase with a fix inch hawser, which also broke three times, we were obliged, at last, to heave a strain at low water, and wait for the flowing of the tide to raife the anchor. This project fucceeded; but not without damaging the cable in the wake of the hawfe. At three, we weighed the best bower, and set fail; and, at eight, having little wind, and the tide making against us, we dropped anchor again in ten fathoms, off the mouth of Rakowina harbour; the oftrog bearing North by East half East, two miles and a half diftant; the Needle Rocks, on the East fide of the

Our friend Port now took his leave of us, and carried

the West fide of the passage, South.

On the 13th, at four in the morning, we got under way Sunday 13. with the ebb tide; and, there being a dead calm, the boats were fent ahead to tow the ships. At ten, the wind springing up from the South East by South, and the tide having VOL. III. Hh turned,

paffage, South South Eaft half Eaft; and the high rock, on

1779. June. turned, we were again obliged to drop anchor in feven fathoms; the Three Needle Rocks bearing South half East; and the ostrog North half East, at the distance of one mile from the nearest land. After dinner, I went, with Captain Gore, on shore on the East side of the passage, where we saw, in two different places, the remains of extensive villages; and, on the side of the hill, an old ruined parapet, with sour or sive embrasures. It commanded the passage up the mouth of the bay; and, in Beering's time, as he himself mentions, had guns mounted on it. Near this place were the ruins of some caverns under ground, which we supposed to have been magazines.

At fix in the afternoon we weighed with the ebb tide, and turned to windward; but, at eight, a thick fog arifing, we were obliged to bring to, as our foundings could not afford us a fufficient direction for steering between several funk rocks, which lie on each fide of the paffage we had to make. Monday 14. In the morning of the 14th, the fog clearing away, we weighed as foon as the tide began to ebb; and, having little wind, fent the boats ahead to tow; but, at ten o'clock, both the wind and tide fet in fo strong from the sea, that we were again obliged to drop anchor in thirteen fathoms, the high rock bearing West one quarter South, distant three quarters of a mile. We remained fast for the rest of the day, the wind blowing fresh into the mouth of the bay; and, toward evening, the weather had a very unufual appearance, being exceedingly dark and cloudy, with an unfettled shifting wind.

Tuefday 15.

Before day-light, on the 15th, we were furprized with a rumbling noise, resembling distant hollow thunder; and, when the day broke, we found the decks and sides of the ships covered with a fine dust like emery, near an inch thick.

thick. The air, at the fame time, continued loaded and darkened with this fubstance; and, toward the volcano mountain, fituated to the North of the harbour, it was fo thick and black, that we could not diftinguish the body of the hill. About twelve o'clock, and during the afternoon, the explosions became louder, and were followed by showers of cinders, which were, in general, about the fize of peas; though many were picked up from the deck larger than a hazel nut. Along with the cinders fell feveral fmall ftones, which had undergone no change from the action of fire. In the evening we had dreadful thunder and lightning, which, with the darkness of the atmofphere, and the fulphureous fmell of the air, produced all together a most awful and terrifying effect. We were, at this time, about eight leagues from the foot of the mountain.

On the 16th, at day-light, we again weighed anchor, and flood out of the bay; but the ebb tide fetting across the paffage upon the Eastern shore, and the wind falling, we were driven very near the Three Needle Rocks, which lie on that side of the entrance, and obliged to hoist out the boats, in order to tow the ships clear of them. At noon we were two leagues from the land, and had soundings with forty-three fathoms of line, over a bottom of small stones, of the same kind with those which fell on our decks after the eruption of the volcano; but whether they had been left there by the last, or by some former eruptions, we were not able to determine.

The afpect of the country was now very different from what it had been on our first arrival. The snow, excepting what remained on the tops of some very high mountains, had disappeared; and the sides of the hills, which, in many H h 2 parts,

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1779. June. parts, were well wooded, were covered with a beautiful verdure.

As it was Captain Clerke's intention to keep as much in fight of the coast of Kamtschatka as the weather would permit, in order to determine its position, we continued steering to the North North East, with light and variable winds, till the 18th. The volcano was still seen throwing up immense volumes of smoke; and we had no soundings with one hundred and sifty fathoms, at the distance of sour leagues from the shore.

Friday 18.

On the 18th, the wind freshening from the South, the weather became so thick and hazy, as to make it imprudent to attempt any longer to keep in sight of the land. But, that we might be ready to resume our survey, whenever the fogs should disperse, we ran on in the direction of the coast, as laid down in the Russian charts, and fired signal guns for the Discovery to steer the same course. At eleven o'clock, just before we lost sight of the land, Cheepoonskoi Noss, so called by the Russians (a description of which, as well as the coast between it and Awatska Bay, will be given hereafter), bore North North East, distant seven or eight leagues.

Sunday 20.

On the 20th, at three in the morning, the weather having cleared up, we flood in toward the land; and in an hour's time faw it ahead, extending from North West to North North East, distant about five leagues. The North part we took to be Kronotskoi Noss; its position in the Russian charts agreeing nearly with our reckoning as to its latitude, which was 54° 42′; but, in longitude, we differed from them considerably, they placing it 1° 48′ East of Awatska; whereas, our reckoning, corrected by the time-keepers and lunar obfervations, makes it 3° 34′ Eastward of that place, or 162° 17′

East from Greenwich. The land about this cape is very high, and the inland mountains were still covered with snow. The shore breaks off in steep cliffs, and the coast is without any appearance of inlets or bays. We had not been long gratisted with this sight of the land, when the wind freshened from the South West, and brought on a thick fog, which obliged us to stand off to the North East by East. The weather clearing up again at noon, we steered toward the land, expecting to fall in with Kamtschatskoi Noss, and had sight of it at day-break of the 21st.

Monday

The Southerly wind was foon after fucceeded by a light breeze blowing off the land, which prevented our approaching the coast sufficiently near to describe its aspect, or ascertain, with accuracy, its direction. At noon our latitude, by observation, was 55° 52', and longitude (deduced from a comparison of many lunar observations, taken near this time, with the time-keepers), 163° 50'; the extremities of the land bearing North West by West three quarters West, and North by West three quarters West, the nearest part about eight leagues diffant. At nine o'clock in the evening, having approached about two leagues nearer the coaft, we found it formed a projecting peninfula, extending about twelve leagues in a direction nearly North and South. It is level, and of a moderate height, the Southern extremity terminating in a low floping point; that to the North forming a steep bluff head; and between them, about four leagues to the Southward of the Northern Cape, there is a confiderable break in the land. On each fide of this break the land is quite low; beyond the opening rifes a remarkable faddle-like hill; and a chain of high mountains, covered with fnow, ranges along the back of the whole peninfula.

As the coast runs in an even direction, we were at a great lofs where to place Kamtschatskoi Noss, which, according to Muller, forms a projecting point about the middle of the peninfula, and which certainly does not exift; but I have fince found, that, in the general map published by the Academy of Petersburg in 1776, that name is given to the Southern cape. This was found, by feveral accurate observations, to be in latitude 56° 3', longitude 163° 20'; the difference in longitude, from the Ruffian charts, being the fame as at Kronotskoi Noss. The variation of the compass at this time was 10° East. To the Southward of this peninfula the great river Kamtschatka falls into the fea.

As the feafon was too far advanced to admit of our making an accurate furvey of the coast of Kamtschatka, it was Captain Clerke's plan, in our run to Beering's Strait, to determine principally the positions of the projecting points of the coaft. We therefore directed our course across an extenfive bay, laid down between Kamtschatskoi Noss and Olutorskoi Noss, intending to make the latter; which, according to the Ruffian geographers, terminates the peninfula called Kamtschatka, and becomes the Southern boundary of the Koriaki country.

On the 22d, we paffed a dead whale, which emitted a horrid stench, perceivable at upward of a league's distance; it was covered with a great number of fea-birds, that were feafting on it.

Thurfday 24.

On the 24th, the wind, which had varied round the compass the three preceding days, fixed at South West, and brought clear weather, with which we continued our course to the North East by North, across the bay, without any land in fight.

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This day we faw a great number of gulls, and were witnesses to the disgusting mode of feeding of the arctic gull, which has procured it the name of the parafite, and which, if the reader is not already acquainted with it, he will find in the note below \*.

On the 25th, at one o'clock in the afternoon, being in la- Friday 25. titude 59° 12', longitude 168° 35', the wind freshening from the fame quarter, a thick fog fucceeded; and this unfortunately just at the time we expected to see Olutorskoi Noss, which, if Muller places it right in latitude 59° 30', and in longitude 167° 36', could only have then been twelve leagues from us; at which distance, land of a moderate height might eafily have been feen. But if the fame error in longitude prevails here, which we have hitherto invariably found, it would have been much nearer us, even before the fog came on; and as we faw no appearance of land at that time, it must either have been very low, or there must be fome mistake of latitude in Muller's account. We tried

The weather still thickening, and preventing a nearer approach to the land, at five we steered East by North, which is fomewhat more Easterly than the Ruffian charts lay down the trending of the coast from Olutorskoi Noss. The next Saturday 26. day, we had a fresh gale from the South West, which lasted till the 27th at noon, when the fogs clearing away, we stood sunday 27. to the Northward, in order to make the land. The latitude at noon, by observation, was 59° 49', longitude 175° 43'.

foundings, but had no ground with one hundred and fixty

fathoms of line.

\* This bird, which is fomewhat larger than the common gull, purfues the latter kind whenever it meets them; the gull, after flying for fome time, with loud fcreams, and evident marks of great terror, drops its dung, which its purfuer immediately darts at, and catches before it falls into the fea,

Notwithstanding

Notwithstanding we saw shags in the forenoon, which are fupposed never to go far from land, yet there was no appearance of it this day; but on the 28th, at fix in the morning, we got fight of it to the North West. The coast shews itself in hills of a moderate height; but inland, others are feen to rife confiderably. We could observe no wood, and the fnow lying upon them in patches, gave the whole a very barren appearance. At nine, we were about ten miles from the shore, the Southern extremity bearing West by South, fix leagues distant, beyond which the coast appeared to trend to the Westward. This point being in latitude 61° 48′, longitude 174° 48′, lies, according to the Russian charts, near the mouth of the river Opuka. At the fame time, the Northern extreme bore North by West; between which and a hill bearing North West by West a quarter West, and at this distance appearing to us like an island, the coast seemed to bend to the Westward, and form a deep bay.

About eight miles from land, we perceived ourselves in a ftrong rippling; and being apprehensive of foul ground, we bore away to the North East, along the shore; notwithstanding, on heaving the lead, we found regular foundings of twenty-four fathoms, over a gravelly bottom; from whence we concluded, that this appearance was occasioned by a tide, at that time running to the Southward. At noon, the extremes of the land bearing West South West three-quarters West, and North North East three-quarters East, distant from the nearest shore four leagues, we were abreast of the low land, which we now perceived to join the two points, where we had before expected to find a deep bay. The coast bends a little to the Westward, and has a small inlet, which may probably be the mouth of some trifling stream. Our latitude, by observation, was 61° 56', and longitude 175° 43', and the variation of the compass 17° 30' East.

We continued, during the afternoon, to run along the shore, at the distance of four or five leagues, with a moderate Westerly breeze, carrying regular foundings from twenty-eight to thirty-fix fathoms. The coast presented the fame barren aspect as to the Southward; the hills rising confiderably inland, but to what height, the clouds on their tops put it out of our power to determine. At eight in the evening, land was thought to have been feen to the East by North, on which we steered to the Southward of East; but it turned out to be only a fog bank. At midnight, the extreme point bearing North East a quarter East, we supposed it to be Saint Thadeus's Noss; to the Southward of which, the land trends to the Westward, and forms a deep bight, wherein, according to the Ruffian charts, lies the river Katirka.

On the 29th, the weather was unfettled and variable, Tuefday 29. with the wind from the North East. At noon of the 30th, Wednes. 30. our latitude, by observation, was 61° 48', and longitude 180° o'; at which time Saint Thadeus's Noss bore North North West, twenty-three leagues distant, and beyond it we observed the coast stretching almost directly North. The most Easterly point of the Noss is in latitude 62° 50', and longitude 170° o', being 3½° more to the East, than what the Ruffians make it. The land about it must be of a considerable height from its being feen at fo great a distance. During the two last days, we saw numbers of whales, large feals, and fea-horfes; also gulls, fea-parrots, and albatroffes. We took the advantage of a little calm weather to try for fish, and caught abundance of fine cod. The depth of water from fixty-five to feventy-five fathoms.

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On

Thursday 1.

On the 1st of July at noon, Mr. Bligh having moored a fmall keg with the deep-fea lead, in feventy-five fathoms, found the ship made a course North by East, half a mile an hour. This he attributed to the effect of a long Southerly fwell, and not to that of any current. The wind freshening from the South East toward evening, we shaped our course to the North East by East, for the point called in Beering's chart, Tschukotskoi Noss, which we had observed on the 4th of September last year, at the same time that we faw, to the South East, the island of Saint Laurence. This Cape, and Saint Thadeus's Nofs, form the North East and South West extremities of the large and deep Gulph of Anadir, into the bottom of which the river of that name empties itself, dividing, as it passes, the country of the Koriacs from that of the Tschutski.

On the 3d at noon, the latitude, by observation, was 63° 33', and the longitude 186° 45°; half an hour after which we got fight of the Tschukotskoi Noss, bearing North half West, thirteen or fourteen leagues distant, and at five in the afternoon faw the island of Saint Laurence, bearing East three-quarters North; and another island a little to the Eastward of it, which we supposed to be between Saint Laurence and Anderson's Island, about fix leagues East South East of the former. As we had no certain accounts of this island, Captain Clerke was desirous of a nearer prospect, and immediately hauled the wind toward it; but, unfortunately, we were not able to weather the island of Saint Laurence, and were therefore under the necessity of bearing up again, and paffing them all to the leeward.

We had a better opportunity of fettling the longitude of the ifland Saint Laurence, when we last faw it, than now. But feeing it at that time but once, and to the Southward,

we could only determine its latitude fo far as we could judge of distances; whereas now the noon observations enabled us to afcertain it correctly, which is 63° 47'. Its longitude was found to be 188° 15', as before. This island, if its boundaries were at this time within our view, is about three leagues in circuit. The North part may be feen at the distance of ten or twelve leagues; but as it falls in low land to the South East, the extent of which we could not fee, fome of us conjectured, that it might probably be joined to the land to the Eastward of it; this, however, the haziness of the weather prevented our ascertaining. These islands, as well as the land about the Tschukotskoi Noss, were covered with fnow, and prefented us with a most dreary picture. At midnight, Saint Laurence bore South South East, five or fix miles distant; and our depth of water was eighteen fathoms. We were accompanied by various kinds of fea fowl, and faw feveral fmall crefted awks.

The weather still continuing to thicken, we lost all fight of land till the 5th, when it appeared both to the North Monday 5. East and North West. Our latitude, by account, was, at this time, 65° 24', longitude 189° 14'. As the islands of Saint Diomede, which lie between the two continents in Beering's strait, were determined by us last year to be in latitude 65° 48′, we could not reconcile the land to the North Eaft, with the fituation of these islands. We therefore stood toward the land till three in the afternoon, when we were within four miles of it, and finding it to be two islands, were pretty well fatisfied of their being the fame; but the weather still continuing hazy, to make fure of our fituation, we flood over to the coast of Asia, till seven in the evening; at which time we were within two or three leagues of the East Cape of that continent.

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This

This Cape is a high round head of land, extending four or five miles from North to South, forming a peninfula, and connected with the continent by a narrow neck of low land. Its shore is bold, and off its North part are three high, detached, spiral rocks. At this time it was covered with snow, and the beach furrounded with ice. We were now convinced, that we had been under the influence of a ftrong current, fetting to the North, that had caufed an error in our latitude at noon of twenty miles. In paffing this strait the last year, we had experienced the same effect.

Being at length fure of our position, we held on to the North by East. At ten at night, the weather becoming clear, we had an opportunity of feeing, at the fame moment, the remarkable peaked hill, near Cape Prince of Wales, on the coast of America, and the East Cape of Asia, with the two connecting islands of Saint Diomede between them.

At noon on the 6th, the latitude, by account, was 67° North, and the longitude 191° 6' East. Having already passed a confiderable number of large maffes of ice, and obferved, that it still adhered in feveral places to the shore on the continent of Asia, we were not much surprized to fall in, at three in the afternoon, with an extensive body of it, ftretching away to the Westward. This fight gave great difcouragement to our hopes of advancing much farther Northward this year, than we had done the preceding.

Having little wind in the afternoon, we hoisted out the boats in purfuit of the fea-horfes, which were in great numbers on the detached pieces of ice; but they foon returned without fuccess; these animals being exceedingly fhy, and before they could come within gun-shot, always making their retreat into the water.

At feven in the evening, we hoisted in the boats, and the wind

wind freshening from the Southward, we stood on to the North East, with a view of exploring the continent of America, between the latitudes of 68° and 69°, which, owing to the foggy weather last year, we had not been able to examine. In this attempt we were again in part disappointed. For, on the 7th, at fix in the morning, we were stopped by Wednes. 7. a large field of ice, stretching from North West to South East; but soon after, the horizon becoming clear, we had fight of the coast of America, at about ten leagues distance, extending from North East by East to East, and lying, by observation, between the 68° and 68° 20' of latitude. As the weather was clear, and the ice not high, we were enabled to fee over a great extent of it. The whole prefented a folid and compact furface, not in the smallest degree thawed; and appeared to us likewife to adhere to the land.

The weather foon after changing to hazy, we faw no more of the land; and there not remaining a poffibility of approaching nearer to it, we flood to the North West, keeping the ice close on board, and got round its Western extremity by noon, when we found it trending nearly North. Our latitude at this time was, by account, 68° 22', and longitude 192° 34'. We continued our course to the North North Eaft, along the edge of the ice, during the remaining part of the day, paffing through many loofe pieces that had been broken off from the main body, and against which, notwithstanding all our caution, the ships were driven with great violence. At eight o'clock in the evening, we paffed fome drift-wood; and at midnight the wind shifted to the North West: the thermometer fell from 38° to 31°, and we had continued showers of snow and sleet.

On the 8th, at five in the morning, the wind coming fill Thursday 8. more to the Northward, we could no longer keep on the

fame tack, on account of the ice, but were obliged to ftand to the Westward. At this time our foundings had decreafed to nineteen fathoms, from which, on comparing it with our observations on the depth of water last year, we concluded, that we were not at a greater diffance from the American shore than fix or feven leagues; but our view was confined within a much shorter compass, by a violent fall of fnow. At noon, the latitude, by account, was 60° 21', longitude 192° 42'. At two in the afternoon, the weather cleared up, and we found ourfelves close to an expanse of what appeared from the deck folid ice; but, from the masthead, it was discovered to be composed of huge compact bodies, close and united toward the outer edge, but in the interior parts, feveral pieces were feen floating in vacant fpaces of the water. It extended from North East by the North to West South West. We bore away by the edge of it, to the Southward, that we might get into clearer water; for the strong Northerly winds had drifted down fuch quantities of loofe pieces, that we had been, for fome time, furrounded by them, and could not avoid flriking against feveral, notwithstanding we reefed the topsails, and stood under an eafy fail.

Friday 9. On the 9th, we had a fresh gale from the North North West, with heavy showers of snow and sleet. The thermometer was, in the night-time, 28°, and at noon 30°. We continued to steer West South West, as before, keeping as near the large body of ice as we could, and had the misfortune to rub off some of the sheathing from the bows against the drift pieces, and to damage the cutwater. Indeed, the shocks we could not avoid receiving, were frequently fo fevere, as to be attended with confiderable danger. At noon, the latitude, by account, was 60° 12', and longitude

188° 5'. The variation, in the afternoon, was found to be 29° 30' East.

As we had now failed near forty leagues to the Westward, along the edge of the ice, without feeing any opening, or a clear fea to the Northward beyond it, and had therefore no prospect of advancing farther North for the present, Captain Clerke refolved to bear away to the South by East (the only quarter that was clear), and to wait till the feafon was more advanced, before he made any farther efforts to penetrate through the ice. The intermediate time he proposed to fpend in examining the bay of Saint Laurence, and the coast to the Southward of it; as a harbour so near, in case of future damage from the ice, would be very defirable. We also wished to pay another visit to our Tschutski friends: and, particularly, fince the accounts we had heard of them from the Commander of Kamtschatka.

We therefore stood on to the Southward, till the noon of the 10th, at which time we passed great quantities of drift- Saturday 10. ice, and the wind fell to a perfect calm. The latitude, by observation, was 68° 1'; longitude 188° 30'. We passed several whales in the forenoon; and, in the afternoon, hoifted out the boats, and fent them in pursuit of the fea-horses, which were in great numbers on the pieces of ice that furrounded us. Our people were more fuccessful than they had been before, returning with three large ones, and a young one; befides killing and wounding feveral others. The gentlemen who went on this party were witneffes of feveral remarkable inflances of parental affection in those animals. On the approach of our boats toward the ice, they all took their cubs under their fins, and endeavoured to escape with them into the sea. Several, whose young were killed or wounded, and left floating on the furface,

rose again, and carried them down, sometimes just as our people were going to take them up into the boat; and might be traced bearing them to a great distance through the water, which was coloured with their blood: we afterward observed them bringing them, at times, above the furface, as if for air, and again diving under it with a dreadful bellowing. The female, in particular, whose young had been destroyed, and taken into the boat, became so enraged, that she attacked the cutter, and struck her two tusks through the bottom of it.

At eight in the evening, a breeze fprung up to the Eaftward, with which we ftill continued our course to the Southward, and at twelve fell in with numerous large bodies of ice. We endeavoured to push through them with an easy fail, for fear of damaging the ship: and having got a little farther to the Southward, nothing was to be feen, but one compact field of ice, stretching to the South West, South East, and North East, as far as the eye could reach. This unexpected and formidable obstacle put an end to Captain Clerke's plan of vifiting the Tschutski; for no space remained open, but back again to the Northward. Accord-Sunday 11. ingly, at three in the morning of the 11th, we tacked, and flood to that quarter. At noon, the latitude, by observation, was 67° 49', and longitude 188° 47'.

ther; and, on trying the current, we found it fet to the North West, at the rate of half a knot an hour. We conti-

nued to fteer Northward, with a moderate Southerly breeze Tuesday 13. and fair weather, till the 13th, at ten in the forenoon, when we again found ourselves close in with a solid field of ice, to which we could fee no limits from the mast-head. This, at once, dashed all our hopes of penetrating farther; which

had

Monday 12. On the 12th, we had light winds, with thick hazy wea-

had been confiderably raifed, by having now advanced near ten leagues through a fpace, which, on the 9th, we had found occupied by impenetrable ice. Our latitude, at this time, was 69° 37'; our position nearly in the mid channel between the two continents; and the field of ice extending from East North East, to West South West.

As there did not remain the smallest prospect of getting farther North in the part of the fea where we now were, Captain Clerke refolved to make one more, and final attempt on the American coast, for Baffin's Bay, since we had been able to advance the farthest on this side last year. Accordingly, we kept working, the remaining part of the day, to the windward, with a fresh Easterly breeze. We saw several fulmars and arctic gulls, and paffed two trees, both appearing to have lain in the water a long time. The larger was about ten feet in length, and three in circumference, without either bark or branches, but with the roots remaining attached.

On the 14th, we flood on to the Eastward, with thick and Wednes. 14. foggy weather, our courfe being nearly parallel to that we fteered the 8th and 9th, but fix leagues more to the Northward. On the 15th, the wind freshened from the West- Thursday 15. ward, and having, in a great measure, dispersed the fog, we immediately flood to the Northward, that we might take a nearer view of the ice; and in an hour were close in with it, extending from North North West, to North East. We found it to be compact and folid; the outer parts were ragged, and of different heights; the interior furface was even; and, we judged, from eight to ten feet above the level of the fea. The weather becoming moderate for the remaining part of the day, we directed our

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course according to the trending of the ice, which in many parts formed deep bays.

Friday 16.

In the morning of the 16th, the wind freshened, and was attended with thick and frequent showers of snow. At eight in the forenoon, it blew a ftrong gale from the West South West, and brought us under double-reefed top-fails; when, the weather clearing a little, we found ourselves embayed; the ice having taken a fudden turn to the South East, and in one compact body furrounding us on all fides, except on the South quarter. We therefore hauled our wind to the Southward, being at this time in latitude 70° 8' North, and in twenty-fix fathoms water; and, as we fupposed, about twenty-five leagues from the coast of America. The gale increasing, at four in the afternoon we close reefed the fore and main-top-fails, furled the mizentop-fail, and got the top-gallant-yards down upon deck. At eight, finding the depth of water had decreased to twenty-two fathoms, which we confidered as a proof of our near approach to the American coaft, we tacked and flood to the North. We had blowing weather, accom-Saturday 17. panied with fnow, through the night; but next morning, it became clear and moderate; and, at eight in the forenoon, we got the top-gallant-yards across, and made fail with the wind still at West South West. At noon, we were in latitude, by observation, 69° 55', longitude 194° 30'. Toward evening, the wind flackened, and at midnight it was a calm.

Sunday 18.

On the 18th, at five in the morning, a light breeze fprung up from the East North East, with which we continued our courfe to the North, in order to regain the ice as foon as possible. We passed some small logs of drift-wood, and IO

faw abundance of fea-parrots, and the fmall ice-birds, and likewise a number of whales. At noon, the latitude, by observation, was 70° 26', and longitude 194° 54'; the depth of water twenty-three fathoms; the ice stretched from North to East North East, and was distant about three miles. At one in the afternoon, finding that we were close in with a firm united field of it, extending from West North West to East, we tacked, and, the wind coming round to the Westward, stood on to the Eastward, along its edge, till eleven at night. At that time a very thick fog coming on, and the water shoaling to nineteen fathoms, we hauled our wind to the South. The variation observed this day was 31° 20' East. It is remarkable, that though we faw no fea-horses on the body of the ice, yet they were in herds, and in greater numbers on the detached fragments, than we had ever observed before. About nine in the evening, a white bear was feen fwimming close by the Difcovery; it afterward made to the ice, on which were also two others.

latitude,

On the 19th, at one in the morning, the weather clearing Monday 19. up, we again fleered to the North East, till two, when we were a fecond time fo completely embayed, that there was no opening left, but to the South; to which quarter we accordingly directed our course, returning through a remarkably fmooth water, and with very favourable weather, by the same way we had come in. We were never able to penetrate farther North than at this time, when our latitude was 70° 33'; and this was five leagues short of the point to which we advanced last feason. We held on to the South South West, with light winds from the North West, by the edge of the main ice, which lay on our left hand, and stretched between us and the continent of America. Our

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latitude, by observation at noon, was 70° 11', our longitude 196° 15', and the depth of water fixteen fathoms. From this circumstance, we judged that the Icy Cape was now only at feven or eight leagues distance; but, though the weather was in general clear, it was at the fame time hazy in the horizon; fo that we could not expect to fee it.

In the afternoon, we faw two white bears in the water, to which we immediately gave chace in the jolly boat, and had the good fortune to kill them both. The larger, which probably was the dam of the younger, being fhot first, the other would not quit it, though it might eafily have escaped on the ice, whilft the men were reloading, but remained fwimming about, till, after being fired upon feveral times, it was shot dead.

# The dimensions of the larger were as follow:

		Feet.	Inches.
From the fnout to the end of the tail -	-	7	2
From the fnout to the fhoulder-bone -	-	2	3
Height of the shoulder	-	4	3
Circumference near the fore-legs -	-	4	10
Breadth of the fore-paw	_	-	IO
	16.		
Weight of the four quarters	43	6	
Weight of the four quarters of the smallest	25		

On comparing the dimensions of this with Lord Mulgrave's white bear, they were found almost exactly the fame, except in the circumference, where our's fell exceedingly fhort.

These animals afforded us a few excellent meals of fresh meat. The flesh had indeed a strong fishy taste, but was,

in every respect, infinitely superior to that of the sea-horse; which, nevertheless, our people were again perfuaded, without much difficulty, to prefer to their falted provisions.

At fix in the morning of the 20th, a thick fog coming Tuefday 20. on, we loft fight of the ice for two hours; but the weather clearing, we faw the main body again to the South South East, when we hauled our wind, which was Easterly, toward it, in the expectation of making the American coast to the South East, and which we effected at half past ten. At noon, the latitude, by account, was 69° 33', and longitude 194° 53', and the depth of water nineteen fathoms. The land extended from South by East, to South South West half West, distant eight or ten leagues, being the same we had feen last year; but it was now much more covered with fnow than at that time; and, to all appearance, the ice adhered to the shore. We continued, in the afternoon, failing through a fea of loofe ice, and ftanding toward the land, as near as the wind, which was East South East, would admit. At eight, the wind leffening, there came on a thick fog; and, on perceiving a rippling in the water, we tried the current, which we found to fet to the East North East, at the rate of a mile an hour, and therefore determined to fteer, during the night, before the wind, in order to stem it, and to oppose the large fragments of loose ice, that were fetting us on toward the land. The depth of the water, at midnight, was twenty fathoms.

At eight in the morning of the 21st, the wind freshening, Wednes, 21. and the fog clearing away, we faw the American coast to the South East, at the distance of eight or ten leagues, and hauled in for it; but were stopped again by the ice, and obliged to bear away to the Westward, along the edge of it.

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At noon, the latitude, by account, was 69° 34', and longitude 193°, and the depth of water twenty-four fathoms.

Thus, a connected, folid field of ice, rendering every effort we could make to a nearer approach to the land fruit-lefs, and joining, as we judged, to it, we took a last farewel of a North East passage to Old England. I shall beg leave to give, in Captain Clerke's own words, the reasons of this his final determination, as well as of his future plans; and this the rather, as it is the last transaction his health permitted him to write down.

"It is now impossible to proceed the least farther to the Northward upon this coast (America); and it is equally as improbable that this amazing mass of ice should be dissolved by the few remaining summer-weeks which will terminate this season; but it will continue, it is to be believed, as it now is, an insurmountable barrier to every attempt we can possibly make. I, therefore, think it the best step that can be taken, for the good of the service, to trace the sea over to the Asiatic coast, and to try if I can find any opening, that will admit me farther North; if not, to see what more is to be done upon that coast; where I hope, yet cannot much flatter myself, to meet with better success; for the sea is now so choaked with ice, that a passage, I fear, is totally out of the question."

## CHAP. IV.

Fruitless Attempts to penetrate through the Ice to the North West .- Dangerous Situation of the Discovery .- Sea-borses killed .- Fresh Obstructions from the Ice .- Report of Damages received by the Discovery .- Captain Clerke's Determination to proceed to the Southward .- foy of the Ships Crews on that Occasion .- Pass Serdze Kamen .- Return through Beering's Strait .- Inquiry into the Extent of the North East Coast of Asia.—Reasons for rejecting Muller's Map of the Promontory of the Tschutski.-Reasons for believing the Coast does not reach a higher Latitude than 701° North.—General Observations on the Impracticability of a North East, or North West Passage from the Atlantic into the Pacific Ocean.—Comparative View of the Progress made in the Years 1778 and 1779 .- Remarks on the Sea, and Sea-coasts, North of Beering's Strait.—History of the Voyage refumed.—Pass the Island of St. Laurence.—The Island of Mednoi .- Death of Captain Clerke .- Short Account of bis Services.

CAPTAIN CLERKE having determined, for the reasons affigned at the conclusion of the last Chapter, to give up all farther attempts on the coast of America, and to make his last efforts, in search of a passage, on the coast of the opposite continent, we continued, during the afternoon of

July.

CHAP.

the 21st of July, to steer to the West North West, through much loofe ice. At ten at night, discovering the main body Wednes. 21. of it through the fog, right ahead, and almost close to us, and being unwilling to take a Southerly courfe, fo long as we could poffibly avoid it, we hauled our wind, which was Easterly, and stood to the Northward; but, in an hour after, the weather clearing up, and finding ourselves furrounded by a compact field of ice, on every fide, except to the South South West, we tacked, and stood on in that direction, in order to get clear of it.

At noon of the 22d, our latitude, by observation, was 69° 30', and longitude 187° 30'. In the afternoon, we again came up with the ice, which extended to the North West and South West, and obliged us to continue our course to the Southward, in order to weather it.

It may be remarked, that fince the 8th of this month, we had twice traversed this sea, in lines nearly parallel with the run we had just now made; that in the first of those traverses, we were not able to penetrate so far North, by eight or ten leagues, as in the fecond; and that in the last we had again found an united body of ice, generally about five leagues to the Southward of its position in the preceding run. As this proves that the large, compact fields of ice, which we faw, were moveable, or diminishing; at the fame time, it does not leave any well-founded expectation of advancing much farther in the most favourable feafons.

At feven in the evening, the weather being hazy, and no ice in fight, we bore away to the Westward; but, at half past eight, the fog dispersing, we found ourselves in the midst of loose ice, and close in with the main body; we therefore stood upon a wind, which was still Easterly, and

kept beating to windward during the night, in hopes of weathering the loofe pieces, which the freshness of the July. wind kept driving down upon us in fuch quantities, that we were in manifest danger of being blocked up by them.

In the morning of the 23d, the clear water, in which we Friday 23. continued to fland to and fro, did not exceed a mile and a half, and was every inftant leffening. At length, after using our utmost endeavours to clear the loose ice, we were driven to the necessity of forcing a passage to the Southward, which, at half past seven, we accomplished, but not without fubjecting the ship to some very severe shocks. The Discovery was less successful. For, at eleven, when they had nigh got clear out, fhe became fo entangled by feveral large pieces, that her way was stopped, and immediately dropping bodily to leeward, fhe fell, broadfide foremost, on the edge of a considerable body of ice; and having, at the fame time, an open fea to windward, the furf caused her to strike violently upon it. This mass at length either fo far broke, or moved, as to fet them at liberty to make another trial to escape; but, unfortunately, before the ship gathered way enough to be under command, she again fell to leeward on another fragment; and the fwell making it unfafe to lie to windward, and finding no chance of getting clear, they pushed into a small opening, furled their fails, and made fast with ice-hooks.

In this dangerous fituation we faw them at noon, about three miles from us, bearing North West, a fresh gale from the South East driving more ice to the North West, and increafing the body that lay between us. Our latitude, by account, was 69° 8', the longitude 187°, and the depth of water twenty-eight fathoms. To add to the gloomy appre-

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henfions which began to force themselves on us, at half past four in the afternoon, the weather becoming thick and hazy, we loft fight of the Discovery; but, that we might be in a fituation to afford her every affiftance in our power, we kept standing on close by the edge of the ice. At fix, the wind happily coming round to the North, gave us fome hopes, that the ice might drift away and release her; and in that case, as it was uncertain in what condition she might come out, we kept firing a gun every half hour, in order to prevent a feparation. Our apprehensions for her fafety did not cease till nine, when we heard her guns in answer to ours; and foon after, being hailed by her, were informed, that upon the change of wind, the ice began to separate; and that, fetting all their fails, they forced a paffage through it. We learned farther, that whilft they were encompaffed by it, they found the ship drift, with the main body, to the North East, at the rate of half a mile an hour. We were forry to find, that the Difcovery had rubbed off a great deal of the sheathing from the bows, and was become very leaky, from the strokes she had received when she fell upon the edge of the ice.

On the 24th, we had fresh breezes from South West, with hazy weather, and kept running to the South East till eleven in the forenoon, when a large body of loofe ice, extending from North North East, round by the East, to South South East, and to which (though the weather was tolerably clear) we could fee no end, again obstructed our course. We therefore kept working to windward, and at noon, our latitude, by observation, was 68° 53', longitude 188°; the variation of the compass 22° 30' East. At four in the afternoon, it became calm, and we hoisted out the boats in pursuit of the fea-horfes, which were in prodigious herds on every fide of

us. We killed ten of them, which were as many as we could make use of for eating, or for converting into lamp oil. We kept on with the wind, from the South West, along the edge of the ice, which extended in a direction almost due East and West, till four in the morning of the 25th, when observing a clear sea beyond it, to the South East, Sunday 25. we made fail that way, with a view of forcing through it. By fix, we had cleared it, and continued the remainder of the day running to the South East, without any ice in fight. At noon, our latitude, by observation, was 68° 38', longitude 189° 9', and the depth of water thirty fathoms. At midnight, we tacked, and flood to the Westward, with a fresh gale from the South; and at ten in the forenoon of the 26th, Monday 26. the ice again shewed itself, extending from North West to South. It appeared loose, and drifting, by the force of the wind, to the Northward. At noon, our latitude, by observation, was 68° North, longitude 188° 10' East; and we had foundings with twenty-eight fathoms. For the remaining part of the day, and till noon of the 27th, we kept standing Tuefday 27. backward and forward, in order to clear ourselves of different bodies of ice. At noon, we were in latitude, by observation, 67° 47', longitude 188°. At two in the afternoon, we faw the continent to the South by East; and at four, having run, fince noon, with a South South East wind to the South West, we were furrounded by loose masses of ice, with the firm body of it in fight, stretching in a North by West, and a South by East direction, as far as the eye could reach; beyond which we faw the coast of Asia, bearing South, and South by Eaft.

As it was now necessary to come to some determination with respect to the course we were next to steer, Captain Clerke fent a boat, with the carpenters, on board the Difco-

very, to inquire into the particulars of the damage she had fustained. They returned, in the evening, with the report of Captain Gore, and of the carpenters of both ships, that the damages they had received were of a kind that would require three weeks to repair; and that it would be neceffary, for that purpose, to go into some port.

Thus, finding a farther advance to the Northward, as well as a nearer approach to either continent, obstructed by a fea blocked up with ice, we judged it both injurious to the fervice, by endangering the fafety of the ships, as well as fruitless, with respect to the design of our voyage, to make any farther attempts toward a paffage. This, therefore, added to the representations of Captain Gore, determined Captain Clerke not to lofe more time in what he concluded to be an unattainable object, but to fail for Awatika Bay, to repair our damages there; and, before the winter should set in, and render all other efforts toward discovery impracticable, to explore the coast of Japan.

I will not endeavour to conceal the joy that brightened the countenance of every individual, as foon as Captain Clerke's refolutions were made known. We were all heartily fick of a navigation full of danger, and in which the utmost perseverance had not been repaid with the smallest probability of fuccess. We therefore turned our faces toward home, after an absence of three years, with a delight and fatisfaction, which, notwithstanding the tedious voyage we had still to make, and the immense distance we had to run, were as freely entertained, and perhaps as fully enjoyed, as if we had been already in fight of the Land'send.

Wednef. 28.

On the 28th, we kept working to windward with a fresh breeze from the South East, having the coast of Asia still in

fight. At four in the morning, the Cape, which, on the authority of Muller, we have called Serdze Kamen, bore South South West, distant fix or seven leagues. We saw, in different places, upon the tops of the hills, which rife inland on both fides of the Cape, protuberances of a confiderable height, which had the appearance of huge rocks, or pillars of stone.

but flow progrefs to the Southward. At midnight we had thick, foggy weather, accompanied with a breeze from the North North West, with which we directed our course to the South South East, through the strait, and had no land in fight till feven in the evening of the 30th; when the fog Friday 30. clearing away, we faw Cape Prince of Wales bearing South by East, distant about fix leagues; and the island St. Diomede South West by West. We now altered our course to the West, and at eight made the East Cape, which, at midnight, bore West by North, distant four leagues. In the night we steered to the South South West, with a fresh West North Westerly breeze; and, at four in the morning of the 31st, the East Cape bore North North East, and the North Saturday 31. East part of the bay of St. Laurence (where we anchored the last year) West by South, its distance being four leagues. As we could not have worked up to windward without a greater waste of time than the object appeared to deserve, we ran across the bay, regretting much, as we passed along,

the lofs of this opportunity of paying a fecond vifit to the Tschutski. At noon our latitude, by observation, was 65° 6',

and longitude 189°. The South point of the Bay of St. Lau-

rence bore North by West one quarter West, and was distant

feven or eight leagues. In the afternoon the variation was

found to be 22° 50' East.

On the 29th, the wind still continuing contrary, we made Thursday 29.

Having

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Having now paffed Beering's Strait, and taken our final leave of the North East coast of Asia, it may not be improper, on this occasion, to state the grounds on which we have ventured to adopt two general conclusions respecting its extent, in opposition to the opinions of Mr. Muller. The first, that the promontory named East Cape is actually the Easternmost point of that quarter of the globe; or, in other words, that no part of the continent extends in longitude beyond 190° 22' East: the fecond, that the latitude of the North Easternmost extremity falls to the Southward of 70° North. With respect to the former, if such land exist, it must necessarily be to the North of latitude 69°, where the discoveries made in the present voyage terminate; and, therefore, the probable direction of the coaft, beyond this point, is the question I shall endeavour, in the first place, to investigate.

As the Ruffian is the only nation that has hitherto navigated these seas, all our information respecting the situation of the coast to the Northward of Cape North, must neceffarily be derived from the charts and journals of the persons who have been employed, at various times, in ascertaining the limits of that empire; and these are, for the most part, so imperfect, so confused, and contradictory, that it is not easy to form any distinct idea of their pretended, much less to collect the amount of their real discoveries. It is on this account, that the extent and form of the peninfula, inhabited by the Tschutski, still remains a point on which the Ruffian geographers are much divided. Mr. Muller, in his map, published in the year 1754, supposes this country to extend toward the North East, to the 75° of latitude, and in longitude 190° East of Greenwich, and to terminate in a round Cape, which he calls Tschukotskoi Noss.

To the Southward of this Cape he conceives the coast to form a bay to the Westward, bounded, in latitude 67° 18', by Serdze Kamen, the Northernmost point seen by Beering in his expedition in the year 1728. The map, published by the academy of St. Petersburg, in the year 1776, gives the whole peninfula entirely a new form, placing its North Easternmost extremity in the latitude 73°, longitude 178° 30'. The Easternmost point in latitude 65° 30', longitude 189° 30'. All the other maps we faw, both printed and in manuscript, vary between these two, apparently more according to the fancy of the compiler, than on any grounds of more accurate information. The only point in which there is a general coincidence, without any confiderable variation, is in the position of the East Cape in latitude 66°. The form of the coast, both to the South and North of this Cape, in the map of the academy, is exceedingly erroneous, and may be totally difregarded. In that of Mr. Muller, the coast to the Northward bears a confiderable refemblance to our furvey, as far as the latter extends, except that it does not trend fufficiently to the Westward; receding only about 5° of longitude, between the latitude of 66° and 69°; whereas, in reality, it recedes near ten. Between the latitude of 69° and 74°, he makes the coast bend round to the North and North East, and to form a confiderable promontory. On what authority, now remains to be examined.

Mr. Coxe, whose accurate researches into this subject, give his opinion great weight, is persuaded that the extremity of the No/s in question, was never passed but by Deshness and his party, who sailed from the river Kovyma in the year 1648, and are supposed to have got round it into the Anadir. As the account of this expedition, the substance of which the Reader will find in Mr. Coxe's Ac-

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count of Ruffian Discoveries, contains no geographical delineation of the coast along which they failed, its position must be conjectured from incidental circumstances; and from these it appears very manifest, that the Tschukotskoi Noss of Deshneff is no other than the promontory called, by Captain Cook, the East Cape. Speaking of the Noss, he fays, "One might fail from the ifthmus to the river Ana-" dir, with a fair wind, in three days and three nights." This exactly coincides with the fituation of the East Cape, which is about one hundred and twenty leagues from the mouth of the Anadir; and as there is no other isthmus to the Northward between that and the latitude of 69°, it is obvious, that, by this description, he must intend either the Cape in question, or some other to the Southward of it. In another place he fays, " Overagainst the isthmus there " are two iflands in the fea, upon which were feen people " of the Tschutski nation, through whose lips were run " pieces of the teeth of the fea-horse." This again perfeetly agrees with the two islands fituated to the South East of the East Cape. We saw indeed no inhabitants on them; but it is not at all improbable, that a party of the Americans, from the opposite continent, whom this description accurately fuits, might, at that time, have been accidentally there; and whom it was natural enough for him to miftake for a tribe of the Tschutski \*.

Thefe

These two circumstances are of so striking and unequivocal a nature, that they appear to me conclusive on the point of the Tschukotskoi Noss, notwithstanding there are others of a more doubtful kind, which we have from the fame authority, and which now remain to be confidered. "To go," fays Defineff in another account, " from the "Kovyma to the Anadir, a great promontory must be "doubled, which stretches very far into the sea;" and afterward, "this promontory ftretches between North and "North Eaft." It was probably from the expressions contained in these passages, that Mr. Muller was induced to give the country of the Tschutski the form we find in his map; but had he been acquainted with the fituation of the East Cape, as ascertained by Captain Cook, and the remarkable coincidence between it and this promontory or ifthmus (for it must be observed, that Deshneff appears to be all along fpeaking of the fame thing), in the circumstances already mentioned, I am confident, he would not have thought those expressions, merely by themselves, of sufficient weight to warrant him in extending the North Eaftern extremity of Afia, either fo far to the North or to the Eastward. For, after all, these expressions are not irreconcileable with the opinion we have adopted, if we suppose

in these islands, and the Tschutski, was sufficient to lead Deshneff into the error of imagining them to be the same. "Opposite to the Noss," he says, "is an island of moderate size, without trees, whose inhabitants resemble, in their exterior, the Tschutski, although they are quite another nation; not numerous indeed, yet speaking their own particular language." Again, "One may go in a baidare from the Noss to the island in half a day: beyond is a great continent, which can be discovered from the island in serene weather. When the weather is good, one may go from the island to the continent in a day. The inhabitants of the continent are similar to the Tschutski, excepting that they speak another language."

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Mm

Deshneff

<sup>\*</sup> From the circumstance, related in the last Volume, that gave name to Sledge Island, it appears, that the inhabitants of the adjacent continents visit occasionally the small islands lying between them, probably for the conveniency of fishing, or in pursuit of surs.

It appears also from Popoff's deposition, which I shall have occasion to speak of more particularly hereafter, that the general resemblance between the people, who are seen

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Defineff to have taken these bearings from the small bight which lies to the Westward of the Cape.

The deposition of the Coffack Popoff, taken at the Anadirskoi ostrog, in the year 1711, seems to have been the next authority on which Mr. Muller has proceeded; and befide these two, I am not acquainted with any other. This Coffack, together with feveral others, was fent by land to demand tribute from the independent Tschutski tribes, who lived about the Noss. The first circumstance in the account of this journey, that can lead to the fituation of Tschukotskoi Noss, is its distance from Anadirsk; and this is stated to be ten weeks journey, with loaded rein-deer; on which account, it is added, their day's journey was but very finall. It is impossible to conclude much from fo vague an account; but, as the distance between the East Cape and the offrog is upward of two hundred leagues in a ftraight line, and therefore may be supposed to allow twelve or fifteen miles a day; its fituation cannot be reckoned incompatible with Popoff's calculation. The next circumstance mentioned in this deposition is, that their route lay by the foot of a rock called Matkol, fituated at the bottom of a great gulf. This gulf Muller supposes to be the bay he had laid down between latitude 66° and 72°; and accordingly places the rock Matkol in the centre of it; but it appears equally probable, even if we had not fo many reasons to doubt the exiftence of that bay, that it might be some part of the gulf of Anadir, which they would undoubtedly touch upon in their road from the oftrog to the East Cape.

But what feems to put this matter beyond all dispute, and to prove that the Cape visited by Poposs cannot be to the Northward of 69° latitude, is that part of his deposition, which I have already quoted, relative to the island lying off

the Noss, from whence the opposite continent might be seen. For as the two continents, in latitude 69°, have diverged so far as to be more than three hundred miles distant, it is highly improbable, that the Asiatic coast should again trend in such a manner to the Eastward, as to come nearly within sight of the coast of America.

If these arguments should be deemed conclusive against the existence of the peninsula of the Tschutski, as laid down by Muller, it will follow, that the East Cape is the Tschukotskoi Noss of the \* more early Russian navigators; and, confequently, that the undefcribed coaft, from the latitude of 69° to the mouth of the River Kovyma, must uniformly trend more or less to the Westward. As an additional proof of this, it may be remarked, that the Tschukotskoi Noss is always reprefented as dividing the fea of Kovyma from that of Anadir, which could not be the case, if any considerable cape had projected to the North East in the higher latitudes. Thus, in the depositions taken at Anadirsk, it is related, "that opposite the Noss, on both sides, as well in " the fea of Kovyma, as in that of Anadir, an island is faid " to be feen at a great diftance, which the Tschutski call a " large country; and fay, that people dwell there who have " large teeth put in their mouths, that project through their " cheeks." Then follows a description of these people and their country, exactly corresponding with our accounts of the opposite continent.

The last question that arises is, to what degree of Northern latitude this coast extends, before it trends more directly to

<sup>\*</sup> I mention the more early Ruffian navigators, because Beering, whom we have also followed, and after him all the late Ruffian geographers, have given this name to the South East Cape of the peninsula of the Tschutski, which was formerly called the Anadirskoi Noss.

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the Westward. If the situation of the mouth of the Kovyma, both with respect to its latitude and longitude, were accurately determined, it would perhaps not be very difficult to form a probable conjecture upon this point. Captain Cook was always ftrongly of opinion, that the Northern coaft of Afia, from the Indigirka Eastward, has hitherto been generally laid down more than two degrees to the Northward of its true position; and he has, therefore, on the authority of a map that was in his possession, and on the information he received at Oonalashka, placed the mouth of the river Kovyma, in his chart of the North West coast of America, and the North East coast of Asia, in the latitude of 68°. Should he be right in this conjecture, it is probable for the reasons that have been already stated, that the Asiatic coast does not any where exceed 70° before it trends to the Westward; and confequently, that we were within 1° of its North Eastern extremity. For, if the continent be fupposed to stretch any where to the Northward of Shelatfkoi Nofs, it is fcarcely poffible, that fo extraordinary a circumftance should not have been mentioned by the Russian navigators; and we have already shewn, that they make mention of no remarkable promontory between the Kovyma and the Anadir, except the East Cape. Another circumstance, related by Deshneff, may, perhaps, be thought a further confirmation of this opinion, namely, that he met with no impediment from ice in navigating round the North East extremity of Asia; though he adds, that this fea is not always fo free from it; as indeed is manifest from the failure of his first expedition, and, fince that, from the unfuccessful attempts of Shalauroff, and the obstacles we met with, in two different years, in our prefent voyage.

The continent, left undetermined in our chart, between

Cape North, and the mouth of the Kovyma, is, in longitudinal extent, one hundred and twenty-five leagues. One third, or about forty leagues, of this diftance, from the Kovyma Eastward, was explored in the year 1723, by a Sinbojarskoi of Jakutz, whose name was Feodor Amosfoff; by whom Mr. Muller was informed, that its direction was to the Eastward. It is said to have been since accurately surveyed by Shalauroff, whose chart makes it trend to the North East by East, as far as the Shelatskoi Noss, which he places about forty-three leagues to the Eastward of the Kovyma. The space between this Noss and Cape North, about eighty-two leagues, is therefore the only part of the Russian empire that now remains unascertained.

But if the river Kovyma be erroneously situated with refpect to its longitude, as well as in its latitude, a supposition for which probable grounds are not wanting, the extent of the unexplored coast will become proportionably diminished. The reafons which incline me to believe, that the mouth of this river is placed in the Ruffian charts much too far to the Westward, are as follow: First, because the accounts that are given of the navigation of the Frozen Sea from that river, round the North East point of Asia, to the gulf of Anadir, do not accord with the supposed distance between those places. Secondly, because the distance over land, from the Kovyma to the Anadir, is represented by the early Ruffian travellers as a journey eafily performed, and of no very extraordinary length. Thirdly, because the coast from the Shelatskoi Noss of Shalauroff \* feems to trend directly South East to the East Cape. If this be so, it will follow, that, as we were probably not more than 1° to the

Southward

<sup>\*</sup> See Chart in Coxe's Account of Ruffian Difcoveries.

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Southward of Shelatikoi Nofs, only fixty miles of the Afiatic coast remain unascertained.

Had Captain Cook lived to this period of our voyage, and experienced, in a fecond attempt, the impracticability of a North East or North West passage from the Pacific to the Atlantic Ocean, he would doubtless have laid before the Public, in one connected view, an account of the obstacles which defeated this, the primary object of our expedition, together with his observations on a subject of such magnitude, and which had engaged the attention, and divided the opinions of philosophers and navigators, for upward of two hundred years. I am very fensible how unequal I am to the task of supplying this deficiency; but, that the expectations of the reader may not be wholly disappointed, I must beg his candid acceptance of the following observations, as well as of those I have already ventured to offer him, relative to the extent of the North East coast of Asia.

The evidence that has been fo fully and judiciously stated in the introduction, amounts to the highest degree of probability, that a North West passage, from the Atlantic into the Pacific Ocean, cannot exist to the Southward of 65° of latitude. If then there exists a passage, it must be either through Bassin's Bay, or round by the North of Greenland, in the Western hemisphere; or else through the Frozen Ocean, to the Northward of Siberia, in the Eastern; and on whichever side it lies, the navigator must necessarily pass through Beering's Strait. The impracticability of penetrating into the Atlantic on either side, through this strait, is therefore all that remains to be submitted to the consideration of the Public.

As far as our experience went, it appears, that the fea to the North of Beering's strait, is clearer of ice in August than in July, and perhaps in a part of September it may be still more free. But, after the equinox, the days shorten so fast, that no farther thaw can be expected; and we cannot rationally allow so great an effect to the warm weather in the first half of September, as to imagine it capable of dispersing the ice from the most Northern parts of the American coast. But admitting this to be possible, it must at least be granted, that it would be madness to attempt to run from the Icy Cape to the known parts of Bassin's Bay (a distance of four hundred and twenty leagues), in so short a time as that passage can be supposed to continue open.

Upon the Afiatic fide, there appears still less probability of success, both from what came to our own knowledge, with respect to the state of the sea to the Southward of Cape North, and also from what we learn from the experience of the \* Lieutenants under Beering's direction, and the journal of Shalauross, in regard to that on the North of Siberia.

The voyage of Deshneff, if its truth be admitted, proves undoubtedly the possibility of passing round the North East point of Asia; but when the reader reflects, that near a century and a half has elapsed since the time of that navigator, during which, in an age of great curiosity and enterprize, no man has yet been able to follow him, he will not entertain very sanguine expectations of the public advantages that can be derived from it. But let us even suppose, that in some singularly savourable season a ship has found a clear passage round the coast of Siberia, and is safely arrived at the mouth of the Lena, still there remains the Cape of Tai-

mura, stretching to the 78° of latitude, which the good fortune of no single voyager has hitherto doubled.

It is, however, contended, thas there are ftrong reasons for believing, that the fea is more free from ice, the nearer we approach to the pole; and that all the ice we faw in the lower latitudes, was formed in the great rivers of Siberia and America, the breaking up of which had filled the intermediate fea. But even if that supposition be true, it is equally fo, that there can be no access to those open seas, unless this great mass of ice is so far dissolved in the summer, as to admit of a ship's getting through it. If this be the fact, we have taken a wrong time of the year for attempting to find this paffage, which should have been explored in April and May, before the rivers were broken up. But how many reasons may be given against such a suppofition? Our experience at Saint Peter and Saint Paul enabled us to judge what might be expected farther North: and upon that ground, we had reason to doubt, whether the continents might not in winter be even joined by the ice; and this agreed with the stories we heard in Kamtschatka, that on the Siberian coast, they go out from the shore in winter, upon the ice, to greater distances than the breadth of the fea is, in fome parts, from one continent to the other.

In the depositions referred to above, the following remarkable circumstance is related. Speaking of the land seen from the Tschukotskoi Noss, it is said, "that in summer time they sail in one day to the land in baidares, a fort of vessel constructed of whale-bone, and covered with seal-skins; and in winter time, going swift with rein-deer, the journey may likewise be made in a day." A sufficient proof,

proof, that the two countries were usually joined together by the ice.

The account given by Mr. Muller, of one of the expeditions undertaken to discover a supposed island in the Frozen Sea, is still more remarkable. "In the year 1714, a new expedition was prepared from Jakutzk, for the same place, under the command of Alexei Markoff, who was to sail from the mouth of the Jana; and if the Schitiki were not sit for sea voyages, he was to construct, at a pro-

" per place, veffels fit for profecuting the difcoveries with-

" out danger. "On his arrival at Uft-janskoe Simovie, the port at which " he was to embark, he fent an account, dated February 2, " 1715, to the Chancery of Jakutzk, mentioning that it " was impossible to navigate the fea, as it was continually " frozen, both in fummer and winter; and that, confe-" quently, the intended expedition was no otherwise to be " carried on, but with fledges drawn by dogs. In this man-" ner he accordingly fet out, with nine persons, on the " 10th of March the fame year, and returned on the 3d of "April, to Ust-janskoe Simovie. The account of his jour-" ney is as follows: that he went feven days, as fast as " his dogs could draw him (which, in good ways and wea-" ther, is eighty or a hundred werfts in a day) directly to-" ward the North, upon the ice, without discovering any " ifland: that it had not been poffible for him to proceed " any farther, the ice rifing there in the fea like mountains: " that he had climbed to the top of fome of them, whence " he was able to fee to a great diffance round about him, " but could difcern no appearance of land: and that, at laft, " wanting food for his dogs, many of them died, which " obliged him to return."

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Befides these arguments, which proceed upon an admiffion of the hypothesis, that the ice in those seas comes from the rivers, there are others which give great room to sufpect the truth of the hypothesis itself. Captain Cook, whose opinion respecting the formation of ice had formerly coin-

cided with that of the theorifts we are now controverting, found abundant reason, in the present voyage, for changing his sentiments. We found the coast of each continent to be low, the soundings gradually decreasing toward them.

be low, the foundings gradually decreafing toward them, and a striking resemblance between the two; which, together with the description Mr. Hearne gives of the copper-

mine river, afford reason to conjecture, that whatever rivers may empty themselves into the Frozen Sea, from the American continent, are of the same nature with those on the

Afiatic fide; which are represented to be so shallow at the entrance, as to admit only small vessels; whereas the ice we

have feen, rifes above the level of the fea to a height equal to the depth of those rivers; so that its entire height must

be at least ten times greater.

The curious reader will also, in this place, be led naturally to reflect on another circumstance, which appears very incompatible with the opinion of those who imagine land to be necessary for the formation of ice; I mean the different state of the sea about Spitsbergen, and to the North of Beering's Strait. It is incumbent on them to explain how it comes to pass, that in the former quarter, and in the vicinity of much known land, the navigator annually penetrates to near 80° North latitude; whereas, on the other side, his utmost efforts have not been able to carry him beyond 71°; where, moreover, the continents diverge nearly East and West, and where there is no land yet known to exist near the pole. For the farther satisfaction of the reader on this point,

point, I shall beg leave to refer him to Observations made during a voyage round the world, by Dr. Forster, where he will find the question of the formation of ice, fully and fatisfactorily discussed, and the probability of open polar seas disproved by a variety of powerful arguments.

I shall conclude these remarks with a short comparative view of the progress we made to the Northward, at the two different seasons we were engaged in that pursuit, together with a few general observations relative to the sea, and the coast of the two continents, which lie to the North of Beering's Strait.

It may be observed, that in the year 1778, we did not meet with the ice, till we advanced to the latitude of 70°, on August 17th; and that then we found it in compact bodies, extending as far as the eye could reach, and of which a part or the whole was moveable, fince, by its drifting down upon us, we narrowly escaped being hemmed in between it and the land. After experiencing both how fruitless and dangerous it would be to attempt to penetrate farther North, between the ice and the land, we stood over toward the Afiatic fide, between the latitude 69° and 70°, frequently encountering, in this tract, large and extensive fields of ice; and though, by reason of the fogs, and thickness of the weather, we were not able absolutely and entirely to trace a connected line of it across, yet we were fure to meet with it before we reached the latitude of 70°, whenever we attempted to fland to the Northward. On the 26th of August, in latitude 691°, and longitude 184°, we were obstructed by it in fuch quantities, as made it impossible for us to pass either to the North or West, and obliged us to run along the edge of it to the South South West, till we faw land, which we afterward found to be the coast of Asia. With the sea-

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fon thus far advanced, the weather fetting in with fnow and fleet, and other figns of approaching winter, we abandoned our enterprize for that time.

In this fecond attempt, we could do little more than confirm the observations we had made in the first; for we were never able to approach the continent of Afia higher than the latitude of 67°, nor that of America in any parts, excepting a few leagues between the latitude of 68° and 68° 20', that were not feen the last year. We were now obstructed by ice 3° lower, and our endeavours to push farther to the Northward, were principally confined to the mid-space between the two coasts. We penetrated near 3° farther on the American fide than on the Afiatic, meeting with the ice both years fooner, and in greater quantities, on the latter coaft. As we advanced North, we still found the ice more compact and folid; yet as, in our different traverses from fide to fide, we paffed over spaces which had before been covered with it, we conjectured, that most of what we faw was moveable. Its height, on a medium, we took to be from eight to ten feet, and that of the highest to have been fixteen or eighteen. We again tried the currents twice, and found them unequal, but never to exceed one mile an hour. By comparing the reckoning with the observations, we also found the current to fet different ways, yet more from the South West than any other quarter; but whatever their direction might be, their effect was fo trifling, that no conclufions, respecting the existence of any passage to the Northward, could be drawn from them. We found the month of July to be infinitely colder than that of August. The thermometer in July was once at 28°, and very commonly at 30°; whereas the last year, in August, it was very rare to have it fo low as the freezing point. In both feafons, we had fome

high winds, all of which came from the South West. We were fubject to fogs, whenever the wind was moderate, from whatever quarter, but they attended Southerly winds more confrantly than contrary ones.

The straits, between the two continents, at their nearest approach, in latitude 66°, were afcertained to be thirteen leagues, beyond which they diverge to North East by East and West North West; and in latitude 69°, they become 14° of longitude, or about one hundred leagues, afunder. A great fimilarity is observable in the appearance of the two countries, to the Northward of the straits. Both are destitute of wood. The shores are low, with mountains rising to a great height farther up the country. The depth of water in the mid-way between them, was twenty-nine and thirty fathoms, decreasing gradually as we approached either continent, with the difference of being fomewhat fhoaler on the American than on the Afiatic coast, at the fame diftance from land. The bottom, in the middle, was a foft flimy mud; and on drawing near to either shore, a brown fand, intermixed with fmall fragments of bones, and a few shells. We observed but little tide or current; what there was, came from the Westward.

But it is now time to refume the narrative of our voyage, which was broken off on the 31st of July, on which day at noon we had advanced eighteen leagues to the Southward of the East Cape.

We had light airs from the South West, till noon of the Sunday 1. Ift of August, at which time our latitude, by observation, was 64° 23', longitude 189° 15'; the coast of Asia extended from North West by West to West half South, distant about twelve leagues; and the land to the Eastward of Saint Laurence bore South half West. On the 2d, the weather be- Monday z.

coming

coming clear, we faw the fame land at noon, bearing from West South West half West to South East, making in a number of high hummocks, which had the appearance of feparate islands; the latitude, by observation, was 64° 3', longitude 189° 28', and depth of water feventeen fathoms. We did not approach this land fufficiently near to determine, whether it was one island, or composed of a cluster together. Its Westernmost part we passed July 3d, in the evening, and then supposed to be the island of Saint Laurence; the Easternmost we ran close by in September last year, and this we named Clerke's Island, and found it to confift of a number of high cliffs, joined together by very low land. Though we mistook, the last year, those cliss for feparate islands, till we approached very near the shore, I should still conjecture, that the island Saint Laurence was distinct from Clerke's Island, fince there appeared a confiderable space between them, where we could not perceive the fmallest rising of ground. In the afternoon, we also saw what bore the appearance of a fmall island, to the North East of the land which was seen at noon, and which, from the haziness of the weather, we had only fight of once. We estimated its distance to be nineteen leagues from the island of Saint Laurence, in a North East by East half East Tuesday 3. direction. On the 3d, we had light variable winds, and directed our course round the North West point of the island Wednes. 4. of Saint Laurence. On the 4th, at noon, our latitude, by account, was 64° 8', longitude 188°; the Island St. Laurence bearing South one quarter East, distant seven leagues. In the afternoon, a fresh breeze springing up from the East, we steered to the South South West, and soon lost fight Saturday 7. of St. Laurence. On the 7th, at noon, the latitude, by obfervation, was 59° 38', longitude 183°. In the afternoon, it

fell calm, and we got a great number of cod in feventyeight fathoms of water. The variation was found to be 19° East. From this time to the 17th, we were making the best of our way to the South, without any occurrence worth remarking, except that the wind coming from the Western quarter, forced us farther to the Eastward than we wished, as it was our intention to make Beering's island.

On the 17th, at half past four in the morning, we faw Tuesday 17. land to the North West, which we could not approach, the wind blowing from that quarter. At noon, the latitude, by observation, was 53° 49', longitude 168° 5', and variation 10° East. The land in fight bore North by West, twelve or fourteen leagues diftant. This land we take to be the ifland Mednoi, laid down, in the Ruffian charts, to the South East of Beering's Island. It is high land, and appeared clear of fnow. We place it in the latitude 54° 28', longitude 167° 52'. We got no foundings with one hundred and fifty fathoms of line.

Captain Clerke was now no longer able to get out of his bed; he therefore defired, that the officers would receive their orders from me, and directed that we should proceed, with all fpeed, to Awatska Bay. The wind continuing Westerly, we flood on to the South, till early on the morning of the 19th, when, after a few hours rain, it blew from the Thursday 19. Eastward, and freshened to a strong gale. We accordingly made the most of it whilst it lasted, by standing to the Westward, under all the fail we could carry. On the 20th, the Friday 20. wind shifting to the South West, our course was to the West North West. At noon, the latitude, by observation, was 53° 7', longitude 162° 49'. On the 21st, at half past five in saturday 21. the morning, we faw a very high peaked mountain on the coast of Kamtschatka, called Cheepoonskoi Mountain, from

its lying behind the Nofs, bearing North West by North, twenty-five or thirty leagues diffant. At noon, the coast extended from North by East to West, with a very great haziness upon it, and distant about twelve leagues. We had light airs the remaining part of this and the following day, and got no foundings with one hundred and forty fathoms of line.

On the 22d of August, 1779, at nine o'clock in the morning, departed this life Captain Charles Clerke, in the thirtyeighth year of his age. He died of a confumption, which had evidently commenced before he left England, and of which he had lingered during the whole voyage. His very gradual decay had long made him a melancholy object to his friends; yet the equanimity with which he bore it, the constant flow of good spirits, which continued to the last hour, and a cheerful refignation to his fate, afforded them fome confolation. It was impossible not to feel a more than common degree of compassion for a person, whose life had been a continued scene of those difficulties and hardships, to which a feaman's occupation is fubject, and under which he at last funk. He was brought up to the Navy from his earliest youth, and had been in feveral actions during the war which began in 1756, particularly in that between the Bellona and Courageux, where being flationed in the mizentop, he was carried overboard with the mast, but was taken up without having received any hurt. He was Midshipman in the Dolphin, commanded by Commodore Byron, on her first voyage round the world, and afterward ferved on the American station. In 1768, he made his second voyage round the world, in the Endeavour, as Master's Mate, and by the promotion, which took place during the expedition, he returned a Lieutenant. His third voyage round the world was in the Refolution, of which he was appointed the Second Lieutenant: and foon after his return, in 1775, he was promoted to the rank of Mafter and Commander. When the prefent expedition was ordered to be fitted out, he was appointed to the Discovery, to accompany Captain Cook; and, by the death of the latter, fucceeded, as has been already mentioned, to the chief command.

It would be doing his memory extreme injuffice not to fay, that during the fhort time the expedition was under his direction, he was most zealous and anxious for its fuccess. His health, about the time the principal command devolved upon him, began to decline very rapidly, and was every way unequal to encounter the rigours of a high Northern climate. But the vigour and activity of his mind had, in no shape, fuffered by the decay of his body: and though he knew, that by delaying his return to a warmer climate, he was giving up the only chance that remained for his recovery, yet, careful and jealous to the last degree, that a regard to his own fituation should never bias his judgment to the prejudice of the fervice, he persevered in the search of a pasfage, till it was the opinion of every officer in both ships, that it was impracticable, and that any farther attempts would not only be fruitless, but dangerous.

## CHAP. V.

Return to the Harbour of Saint Peter and Saint Paul .-Promotion of Officers .- Funeral of Captain Clerke .- Damages of the Discovery repaired. - Various other Occupations of the Ships Crews.—Letters from the Commander.— Supply of Flour and Naval Stores from a Russian Galliot .-Account of an Exile.—Bear-bunting and Fishing Parties.— Difgrace of the Serjeant .- Celebration of the King's Coronation Day, and Visit from the Commander .- The Serjeant reinstated. - A Russian Soldier promoted at our Request .-Remarks on the Discipline of the Russian Army. - Church at Paratounca .- Method of Bear-bunting .- Farther Account of the Bears and Kamtschadales .- Inscription to the Memory of Captain Clerke .- Supply of Cattle .- Entertainments on the Empress's Name Day. - Present from the Commander. - Attempt of a Marine to desert. - Work out of the Bay. - Nautical and Geographical Description of Awatska Bay .- Astronomical Tables, and Observations.

SENT Mr. Williamson to acquaint Captain Gore with I the death of Captain Clerke, and received a letter from Sunday 22. him, ordering me to use all my endeavours to keep in company with the Difcovery; and, in case of a separation, to make the best of my way to the harbour of St. Peter and

St.

St. Paul. At noon, we were in latitude 53° 8' North, longitude 160° 40' East, with Cheepoonskoi Noss bearing West. We had light airs in the afternoon, which lasted through the forenoon of the 23d. At noon, a fresh breeze springing Monday 23. up from the Eastward, we stood in for the entrance of Awatfka Bay; and at fix in the evening, faw it bearing West North West half West, distant five leagues. At eight, the light-house, in which we now found a good light, bore North West by West, three miles distant. The wind about this time died away; but the tide being in our favour, we fent the boats ahead, and towed beyond the narrow parts of the entrance; and, at one o'clock in the morning of the 24th, the ebb tide fetting against us, we dropped anchor. Tuesday 24. At nine, we weighed, and turned up the bay with light airs, and the boats still ahead till one; when, by the help of a fresh breeze, we anchored, before three in the afternoon. in the harbour of St. Peter and St. Paul, with our enfign half staff up, on account of our carrying the body of our late Captain; and were foon after followed by the Difcovery.

We had no fooner anchored, than our old friend, the Serjeant, who was still the Commander of the place, came on board with a prefent of berries, intended for our poor deceafed Captain. He was exceedingly affected when we told him of his death, and shewed him the coffin that contained his body. And as it was Captain Clerke's particular request to be buried on shore, and, if possible, in the church of Paratounca, we took the prefent opportunity of explaining this matter to the Serjeant, and confulting with him about the proper steps to be taken on the occasion. In the course of our conversation, which, for want of an interpreter, was carried on but imperfectly, we learned that Profef-

for de L'Isle, and several Russian gentlemen, who died here, had been buried in the ground near the barracks at the oftrog of St. Peter and St. Paul's; and that this place would be preferable to Paratounca, as the church was to be removed thither the next year. It was therefore determined, that we should wait for the arrival of the Priest of Paratounca, whom the Serjeant advised us to fend for, as the only person that could fatisfy our inquiries on this subject. The Serjeant having, at the fame time, fignified his intentions of fending off an express to the Commander at Bolcheretsk, to acquaint him with our arrival, Captain Gore availed himself of that occasion of writing him a letter, in which he requested that fixteen head of black cattle might be fent with all possible expedition. And because the Commander did not understand any language except his own, the nature of our request was made known to the Serjeant, who readily undertook to fend, along with our letter, an explanation of its contents.

We could not help remarking, that, although the country was much improved in its appearance fince we were last here, the Ruffians looked, if poffible, worse now than they did then. It is to be owned, they observed, that this was also the case with us; and, as neither party seemed to like to be told of their bad looks, we found mutual confolation in throwing the blame upon the country, whose green and lively complexion, we agreed, caft a deadness and fallowness upon our own.

The eruption of the volcano, which was fo violent when we failed out of the bay, we found had done no damage here, notwithstanding stones had fallen at the oftrog, of the fize of a goofe's egg. This was all the news we had to inquire after, and all they had to tell; excepting that of the arrival

arrival of Sopofnikoff from Oonalashka, who took charge of the pacquet Captain Cook had fent to the Admiralty, and which, it gave us much fatisfaction to find, had been forwarded.

In the morning of the 25th, Captain Gore made out Wednes. 25. the new commissions, in consequence of Captain Clerke's death; appointing himfelf to the command of the Refolution, and me to the command of the Discovery; and Mr. Lanyan, Mafter's Mate of the Resolution, who had served in that capacity on board the Adventure in the former voyage, was promoted to the vacant Lieutenancy. Thefe promotions produced the following farther arrangements: Lieutenants Burney and Rickman were removed from the Discovery, to be First and Second Lieutenants of the Resolution; and Lieutenant Williamson was appointed First Lieutenant of the Discovery. Captain Gore also permitted me to take into the Difcovery, four Midshipmen, who had made themselves useful to me in astronomical calculations, and whose affistance was now particularly necessary, as we had no ephemeris for the present year. And, that astronomical observations might continue to be made in both fhips, Mr. Bayly took my place in the Refolution. The fame day we were vifited by the Pope Romanoff Vereshagen, the worthy Priest of Paratounca. He expressed his forrow at the death of Captain Clerke in a manner that did honour to his feelings, and confirmed the account given by the Serjeant, respecting the intended removal of the church to the harbour; adding, that the timber was actually preparing, but leaving the choice of either place entirely to Captain Gore.

The Discovery, as has been mentioned, had suffered great damage from the ice, particularly on the 23d day of July;

and having, ever fince, been exceedingly leaky, it was imagined that fome of her timbers had ftarted. Captain Gore therefore fent the carpenters of the Refolution to affift our own in repairing her; and accordingly, the fore-hold being cleared, to lighten her forward, they were fet to work, to rip the damaged fleathing from the larboard bow. This operation discovered, that three feet of the third strake, under the wale, were staved, and the timbers within started. A tent was next erected, for the accommodation of fuch of our people as were employed on fhore; and a party were fent a mile into the country, to the Northward of the harbour, to fell timber. The observatories were erected at the West end of the village, near a tent, in which Captain Gore and myfelf took up our abode.

Thursday 26.

The farther we proceeded in removing the fleathing, the more we discovered of the decayed state of the ship's hull. The next morning, eight feet of a plank in the wale were found to be fo exceedingly rotten, as to make it necessary to shift it. This left us for some time at a stand, as nothing was to be found, in either ship, wherewith to replace it, unless we chose to cut up a top-mast; an expedient not to be had recourse to, till all others failed. The carpenters were therefore fent on shore in the afternoon, in fearch of a tree big enough for the purpose. Luckily they found a birch, which I believe was the only one of fufficient fize in the whole neighbourhood of the bay, and which had been fawed down by us when we were last here; fo that it had the advantage of having lain fome time to feafon. This was fhaped on the fpot, and brought on board the next morning.

As the feafon was now fo far advanced, I was fearful left any delay or hindrance should arise, on our parts, to Captain

Gore's farther views of discovery, and therefore gave orders that no more fleathing should be ripped off, than was absolutely necessary for repairing the damages fustained by the ice. This I did, being apprehensive of their meeting with more decayed planks, which, I judged, had much better remain in that flate, than be filled up with green birch, upon a supposition that such was to be had. All hands were, at prefent, bufily employed in feparate duties, that every thing might be in readiness for sea, against the time our carpenters should have finished their work. We set apart four men to haul the feine for falmon, which were caught in great abundance, and found to be of an excellent quality. After fupplying the immediate wants of both ships, we falted down near a hogshead a day. The invalids, who were four in number, were employed in gathering greens, and in cooking for the parties on shore. Our powder was alfo landed, in order to be dried; and the fea-horse blubber, with which both ships, in our passage to the North (as has been before related), had flored themselves, was now boiled down for oil, which was become a necessary article, our candles having long fince been expended. The cooper was fully engaged in his department: and in this manner were both ships companies employed in their feveral occupations, till Saturday afternoon, which was given up to all Saturday 28. our men, except the carpenters, for the purpose of washing their linen, and getting their clothes in some little order, that they might make a decent appearance on Sun-

In the afternoon of that day, we paid the last offices to Sunday 29. Captain Clerke. The officers and men of both fhips walked in proceffion to the grave, whilft the ships fired minuteguns; and the fervice being ended, the marines fired three vollies.

vollies. He was interred under a tree, which stands on rifing ground, in the valley to the North fide of the harbour, where the hospital and store-houses are situated; Captain Gore having judged this fituation most agreeable to the last wishes of the deceased, for the reasons above-mentioned; and the Priest of Paratounca having pointed out a spot for his grave, which, he faid, would be, as near as he could guess, in the centre of the new church. This reverend Paftor walked in the procession, along with the gentleman who read the fervice; and all the Russians in the garrison were affembled, and attended with great respect and solemnity.

Monday 30.

On the 30th, the different parties returned to their respective employments, as mentioned in the course of the preceding week; and on the 2d of September, the carpenters having shifted the rotten and damaged planks, and repaired and caulked the sheathing of the larboard bow, proceeded to rip off the sheathing that had been injured by the ice, from the starboard side. Here, again, they discovered four feet of a plank, in the third strake under the wale, fo thaken, as to make it necessary to be replaced. This was Friday 3. accordingly done, and the sheathing repaired on the 3d. In the afternoon of the fame day, we got on board fome ballast, unhung the rudder, and fent it on shore, the lead of the pintles being found entirely worn away, and a great part of the sheathing rubbed off. As the carpenters of the Refolution were not yet wanted, we got this fet to rights Saturday 4. the next day, but finding the rudder out of all proportion heavy, even heavier than that of the Resolution, we let it remain on fhore, in order to dry and lighten.

> The fame day, an enfign arrived from Bolcheretsk with a letter from the Commander to Captain Gore, which we

put into the Serjeant's hands, and, by his affiftance, were made to understand, that orders had been given about the cattle; and that they might be expected here in a few days; and, moreover, that Captain Shmaleff, the prefent Commander, would himfelf pay us a vifit immediately on the arrival of a floop which was daily expected from Okotzk. The young officer, who brought the letter, was the fon of the Captain Lieutenant Synd, who commanded an expedition on discovery, between Asia and America, eleven years ago, and refided at this time at Okotzk \*. He informed us, that he was fent to receive our directions, and to take care to get us fupplied with whatever our fervice might require; and that he should remain with us, till the Commander was himfelf able to leave Bolcheretsk; after which he was to return, that the garrison there might not be left without an officer.

On the 5th, the parties that were on shore returned Sunday 5. on board, and were employed in fcrubbing the ship's bot-

\* See all that is known of his voyage, and a Chart of his discoveries, in Mr. Coxe's Account of Russian Discoveries between Asia and America. We were not able to learn, from the Russians in Kamtschatka, a more perfect account of Synd than we now find is given by Mr. Coxe; and yet they feemed disposed to communicate all that they really knew. Major Behm could only inform us, in general, that the expedition had mifcarried as to its object, and that the commander had fallen under much blame. It appeared evidently, that he had been on the coast of America to the Southward of Cape Prince of Wales, between the latitude of 64° and 65°; and it is most probable, that his having got too far to the Northward to meet with fea-otters, which the Ruffians, in all their attempts at discoveries, seem to have principally in view, and his returning without having made any that promifed commercial advantages, was the cause of his difgrace, and of the great contempt with which the Ruffians always spoke of this officer's

The clufter of illands, placed in Synd's chart, between the latitude of 61° and 65°, is undoubtedly the fame with the island, called, by Beering, St. Laurence's, and those we named Clerke's, Anderson's, and King's Islands; but their proportionate fize, and relative fituation, are exceedingly erroneous.

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tom, and getting in eight tons of shingle ballast. We also got up two of our guns, that had been stowed in the fore-hold, and mounted them on the deck, being now about to vifit nations, our reception amongst whom might a good deal depend on the respectability of our appearance.

The Refolution hauled on shore on the 8th, to repair Wednef. 8. fome damages, which she had also received among the ice, in her cut-water; and our carpenters, in their turn, were fent to her affiftance.

> About this time we began to brew a ftrong decoction of a species of dwarf-pine that grows here in great abundance, thinking that it might hereafter be useful in making beer, and that we should probably be able to procure fugar or melaffes to ferment with it at Canton. At all events, I was fure it would be ferviceable as a medicine for the fcurvy; and was more particularly defirous of fupplying myfelf with as much of it as I could procure, because most of the preventatives we had brought out, were either used, or spoiled by keeping. By the time we had prepared a hogshead of it, the ship's copper was discovered to be very thin, and cracked in many places. This obliged me to defift, and to give orders, that it should be used as sparingly, for the future, as possible. It might, perhaps, be an useful precaution for those who may hereafter be engaged in long voyages of this kind, either to provide themfelves with a fpare copper, or to fee that the copper usually furnished be of the strongest kind. The various extrafervices, in which it will be found necessary to employ them, and especially the important one of making antiscorbutic decoctions, feem absolutely to require some such provision; and I should rather recommend the former, on account of

the additional quantity of fuel that would be confumed in heating thick coppers.

In the morning of the 10th, the boats from both ships Friday 10. were fent to tow into the harbour a Ruffian galliot from Okotzk. She had been thirty-five days on her paffage, and had been feen from the light-house a fortnight ago, beating up toward the mouth of the bay. At that time, the crew had fent their only boat on shore for water, of which they now began to be in great want; and the wind freshening, the boat was loft on its return; and the galliot, being driven out to fea again, had fuffered exceedingly.

There were fifty foldiers in her, with their wives and children; and feveral other paffengers, befides the crew, which confifted of twenty-five; fo that they had upward of an hundred fouls on board. A great number for a veffel of eighty tons; and that was also heavy laden with stores and provisions. Both this galliot, and the sloop we faw here in May, are built like the Dutch doggers. Soon after she had come to anchor, we received a visit from a Put-parouchick, or Sub-lieutenant, who was a paffenger in the galliot, and fent to take the command of this place. Part of the foldiers, we understood, were also designed to reinforce the garrifon; and two pieces of fmall cannon were landed, as an additional defence to the town. It should seem, from these circumstances, that our visit here had drawn the attention of the Ruffian Commanders in Siberia, to the defenceless situation of the place; and I was told by the honest Serjeant, with many fignificant shrugs, that, as we had found our way into it, other nations might do the fame, fome of whom might not be altogether fo welcome.

Next morning the Refolution hauled off from the shore, Saturday 11. having

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having repaired the damages she had fustained by the ice; and, in the course of the day, we got from the galliot a fmall quantity of pitch, tar, cordage, and twine; canvass was the only thing we asked for, with which their scanty ftore did not put it into their power to fupply us. We also received from her an hundred and forty skins of flour, amounting to 13,782 pounds English, after deducting five pounds for the weight of each bag.

We had a constant course of dry weather till this day, when there came on a heavy rain, accompanied with strong fqualls of wind, which obliged us to ftrike our yards and

topmasts.

The 12th, being Sunday, was kept as a day of rest; but the weather unfortunately continuing foul, our men could not derive the advantage from it we wished, by gathering the berries that grew in great quantities and varieties on the coast; and taking other pastime on shore. The same day, Enfign Synd left us to return to Bolcheretik with the remainder of the foldiers that came in the galliot. He had been our conftant guest during his stay. Indeed, we could not but confider him, on his father's account, as, in some measure, belonging to us, and entitled, as one of the family of discoverers, to a share in our affections.

We had hitherto admitted the Serjeant to our tables, in confideration of his being Commander of the place: and, moreover, because he was a quick, sensible man, and comprehended, better than any other, the few Ruffian words we had learned. Enfign Synd had very politely fuffered him to enjoy the fame privileges during his flay; but, on the arrival of the new Commander from Okotzk, the Serjeant, for fome cause or other, which we could not learn, fell into difgrace, and was no longer fuffered to fit down in the company

pany of his own officers. It was in vain to think of making any attempt to obtain an indulgence, which, though it would have been highly agreeable to us, was doubtlefs incompatible with their discipline.

On Wednesday we had finished the stowage of the holds; Wednes. 15. got on board all our wood and water; and were ready to put to fea at a day's notice. It is however necessary to observe, that though every thing was in this degree of readiness on board, the cattle were not yet arrived from Verchnei; and as fresh provisions were the most important article of our wants, and in a great measure necessary for the health of the men, we could not think of taking our departure without them. We therefore thought this a favourable opportunity (especially as there was an appearance of fine weather) of taking some amusement on shore, and acquiring a little knowledge of the country. Accordingly, Captain Gore proposed a party of bear-hunting, which we all very readily came into.

We did not fet out on this expedition till Friday the 17th, Friday 17. in order to give a day's reft to the Hofpodin Ivafkin, a new acquaintance, that was to be of our party, and who came down here on Wednefday. This gentleman, who, we understood, usually resides at Verchnei, had been defired by Major Behm to attend us on our return to the harbour, in order to be our interpreter; and the accounts we had heard of him, before his arrival, had excited in us a great curiofity to fee him.

He is of a confiderable family in Ruffia. His father was a General in the Empress's service; and he himself, after having received his education partly in France, and partly in Germany, had been page to the Empress Elizabeth, and an Enfign in her guards. At the age of fixteen he was

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September

knowted, had his nose slit, and was banished first to Siberia and afterward to Kamtschatka, where he had now lived thirty-one years. He was a very tall thin man, with a face all over furrowed with deep wrinkles; and bore, in his whole figure, the strongest marks of old age, though he had scarcely reached his sifty-fourth year.

To our very great disappointment, he had so totally forgotten both his German and French, as not to be able to fpeak a fentence, nor readily to understand what was faid to him, in either of these languages. We found ourselves thus unfortunately deprived of what we flattered ourselves would have turned out a favourable opportunity of getting farther information relative to this country. We had also promifed ourselves much pleasure from the history of this extraordinary man, which he probably would have been induced to relate to strangers, who might perhaps be of fome little fervice to him, but who could have no inducement to take advantage, from any thing he might fay, to do him an injury. No one here knew the cause of his banishment; but they took it for granted, that it must have been for fomething very atrocious; particularly, as two or three Commanders of Kamtschatka have endeavoured to get him recalled, fince the prefent Empress's reign; but, far from fucceeding in this, they have not been even able to get the place of his banishment changed. He told us, that, for twenty years, he had not tafted bread, nor had been allowed fubfiftence of any kind whatfoever; but that, during this period, he had lived among the Kamtschadales, on what his own activity and toil in the chace had furnished. That afterward he had a fmall pension granted; and that, fince Major Behm came to the command, his fituation had been infinitely mended. The notice that worthy man had taken

of him, and his having often invited him to become his guest, had been the occasion of others following his example; besides which, he had been the means of getting his pension increased to one hundred roubles a year; which is the common pay of an Ensign in all parts of the Empress's dominions, except in this province, where the pay of all the officers is double. Major Behm told us, that he had obtained permission to take him to Okotzk, which was to be the place of his residence in future; but that he should leave him behind for the present, on an idea, that he might, on our return to the bay, be useful to us as an interpreter.

Having given orders to the First Lieutenants of both ships, to let the rigging have such a repair as the supply of stores, we had lately received, would permit, we set out on our hunting party, under the direction of the corporal of the Kamtschadales, intending, before we began to look for our game, to proceed straight to the head of Behm's Harbour. It is an inlet on the West side of the bay (which we had named after that officer, from its being a favourite place of his, and having been surveyed by himself), and is called by the natives Tareinska.

In our way toward this harbour, we met the Toion of Saint Peter and Saint Paul, in a canoe, with his wife and two children, and another Kamtschadale. He had killed two seals upon a round island, that lies in the entrance of the harbour, with which, and a great quantity of berries that he had gathered, he was returning home. As the wind had veered to the South West, we now changed our route, by his advice; and, instead of going up the harbour, directed our course to the Northward, toward a pool of water that lies near the mouth of the river Paratounca, and which was

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a known haunt of the bears. We had fcarce landed, when unfortunately the wind changed to the Eastward, and a fecond time deftroyed all hopes of coming up with our game; for the Kamtschadales affured us, that it was in vain to expect to meet with bears, whilst we were to the windward; owing to their being poffeffed of an uncommon acuteness in fcenting their purfuers, which enabled them, under fuch circumstances, to avoid the danger, whilst it is yet at a very great distance. We returned therefore to the boat, and paffed the night on the beach, having brought a tent with Saturday 18. us for that purpose; and the next day, by the advice of our guides, croffed the bay, and went to the head of Rakoweena Harbour.

Having here fecured the boats, we proceeded with all our luggage on foot, and, after a walk of five or fix miles, came to the fea-fide, a league to the Northward of the Lighthouse Head. From hence, as far as we could see toward Cheepoonskoi Noss, there is a continued narrow border of low level ground adjoining to the fea, which is covered with heath, and produces great abundance of berries, particularly those called partridge and crow berries. We were told, we should not fail to meet with a number of bears, feeding upon these berries; but that the weather being showery, was unfavourable for us.

Accordingly, we directed our course along this plain; and though we faw feveral bears at a diftance, we could never, with all our management, contrive to get within shot of them. Our diversion was therefore changed to spearing of falmon, which we faw pushing, in great numbers, through the furf into a fmall river. I could not help observing, how much inferior our Kamtschadales were at this method of fishing, to the people at Oonalashka; nor were their instruments,

ments, although pointed with iron, near fo good for the purpose, nor to be compared in neatness, to those of the September. Americans, though pointed only with bone. On inquiring into the reason of this inferiority, I was informed by the corporal, who had lived many years amongst the Americans, that formerly the Kamtschadales made use of the fame kind of darts and spears with the Americans, headed and barbed with bone, and were not less dexterous in the management of them than the latter. We could not understand one another sufficiently for me to learn the cause of this change; probably it was one of the not unufual effects of a forced and imperfect state of improvement. It fell out very opportunely, that the water afforded us a little prey; for, befides our ill fuccess in the chace by land, we had also been disappointed in our expectations of shooting wild fowl, on a fupply of which we had in some meafure depended for our fubfiftence; and on its failure, began to think that we had been full long abfent from head-

Our Kamtschadales now discovered, that the want of succefs, in not meeting with game, was owing to the party being too large, and to the unavoidable noise that was the confequence of it. We therefore agreed to feparate; Ivafkin, the corporal, and myfelf, forming one party; Captain Gore, and the rest of the company, the other.

Accordingly, after paffing the night under our tent, we fet out on the morning of the 19th, by different routes, Sunday 19. meaning to take a circuit round the country, and meet at Saint Peter and Saint Paul. The party to which I belonged, took the course of the river, at the mouth of which we had fished for the falmon; and, after being thoroughly foaked by the heavy rains that fell all the morning, we VOL. III. Qq

came about three in the afternoon to fome old balagans, where a Kamtschadale village had been formerly situated, without meeting with a fingle bear during the whole of a long and tedious walk. It was our first intention to have remained here all night, in order to have refumed our chace early the next morning; but the weather clearing, and at the same time a fresh breeze springing up from a quarter unfavourable to our defigns, the Hofpodin, whom former fufferings had made very unfit to bear much fatigue, and who feemed, at prefent, more particularly diftreffed from having emptied his fnuff-box, began to be very importunate with us to return home. It was fome time before the old corporal confented, alleging, that we were at a great diftance from the harbour; and that, on account of the badness of the way, the night would probably overtake us before we reached the end of our journey. At length, however, he yielded to Ivaskin's intreaties, and conducted us along the fide of a number of fmall lakes, with which the flat part of this country feems much to abound. These lakes are from half a mile to two miles in length, and about half a mile broad; the water is fresh and clear, and they are full of a red-coloured fifh, refembling, both in fhape and fize, a fmall falmon; of which a more particular description will be given hereafter. The banks of these lakes were covered with the fragments of fish that the bears had half eaten, and which caused an intolerable stench. We often came upon the spots which the bears had just left, but were never able even to come within fight of them.

It was night before we reached the ships, and we had then been twelve hours upon our legs. Poor Ivaskin found himself exceedingly tired and overcome with fatigue; probably,

bably, he was more fenfible of it, for want of a fupply of fnuff; for, every step he took, his hand dived mechanically into his pocket, and drew out his huge empty box. We had fcarcely got into the tent, when the weather fet in exceedingly rough and wet. We congratulated ourfelves, that we had not flayed out another day, the Hofpodin's box was replenished, and we forgot the fatigues and ill fuccess of our expedition over a good supper.

I was exceedingly forry, on being told the next day, that Monday 20. our friend the Serjeant had undergone corporal punishment, during our absence, by command of the old Putparouchick. None of our people had been able to learn what was the cause of his displeasure; but it was imagined to have arisen from some little jealousy subsisting between them, on account of the civility which we had shewn to the former. However, having every reason to believe, that the offence, whatever it might be, did not call for fo difgraceful a chaftifement, we could not help being both forry and much provoked at it, as the terms on which we had lived with him, and the interest we were known to take in his affairs, made the affront in some measure perfonal to ourselves. For it has not yet been mentioned, that we had confulted with the late worthy Commander, Major Behm, who was also his friend, by what means we might be most likely to fucceed in doing him some service, for the good order he had kept in the oftrog during our stay, and for his readiness, on all occasions, to oblige us. The Major advised a letter of recommendation to the Governor General, which Captain Clerke had accordingly given him, and which, backed with his own reprefentations, he had no doubt would get the Serjeant advanced a step higher in his profession.

We did not choose to make any remonstrance on this fubject, till the arrival of Captain Shmaleff. Indeed our inability, from the want of language, to enter into any difcussion of the business, made it adviseable to come to this determination. However, when the Put-paroucbick paid us his next visit, we could not help testifying our chagrin, by receiving him very coolly.

Wednef. 22.

The 22d, being the anniverfary of his Majesty's coronation, twenty-one guns were fired, and the handsomest feast our fituation would allow of was prepared, in honour of the day. As we were fitting down to dinner, the arrival of Captain Shmaleff was announced. This was a most agreeable furprize; in the first place, because he arrived so opportunely to partake of the good fare and festivity of the occasion; and, in the next, because in our last accounts of him, we were given to understand, that the effects of a severe illness had made him unequal to the journey. We were glad to find this had been merely an excuse; that, in fact, he was ashamed of coming empty-handed, knowing we must be in great want of tea, sugar, &c. &c.; and that therefore he had deferred his fetting out, in daily expectation of the floop from Okotzk; but having no tidings of her, and dreading left we fhould fail, without his having paid us a vifit, he was determined to fet out, though with nothing better to prefent to us, than apologies for the poverty of Bolcheretsk. At the same time he acquainted us, that our not having received the fixteen head of black cattle, we had defired might be fent down, was owing to the very heavy rains at Verchnei, which had prevented their fetting out. We made the best answer we were able, to fo much politeness and generosity; and the next day, on coming on board the Refolution, he was faluted with eleven

eleven guns. Specimens of all our curiofities were prefented to him; and Captain Gore added to them a gold watch, and a fowling-piece.

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The next day he was entertained on board the Discovery; Thursday 23. and on the 25th, he took leave of us to return to Bolcheretik. Saturday 25. He could not be prevailed on to lengthen his vifit, having fome expectations, as he told us, that the Sub-governor General, who was at this time making a tour through all the provinces of the Governor General of Jakutzk, might arrive in the floop that was daily expected from Okotzk. Before his departure, and without any interference of ours, he reinstated the Serjeant in the command of this place, having determined to take the Put-parouchick along with him; at the fame time, we understood that he was highly difpleafed with him, on account of the punishment that had been inflicted on the Serjeant, and for which there did not appear to be the flightest grounds.

Captain Shmaleff's great readiness to give us every poffible proof of his defire to oblige us, encouraged us to ask a finall favour, for another of our Kamtschadale friends. It was to requite an old foldier, whose house had been, at all times, open to the inferior officers, and who had done both them, and all the crew, a thousand good offices. The Captain most obligingly complied with our request, and dubbed him (which was all he wished for) a corporal, upon the fpot; and ordered him to thank the English officers for his great promotion. It may not here be improper to obferve, that, in the Ruffian army, the inferior class of officers enjoy a degree of pre-eminence above the private men, with which we, in our fervice, are in a great measure unacquainted. It was no fmall aftonishment to us, to fee a ferjeant keep up all the state, and exact all the respect,

from all beneath him, belonging to a field officer. It may be farther remarked, that there are many more gradations of rank amongst them, than are to be met with in other countries. Between a ferjeant and a private man, there are not less than four intermediate steps; and I have no doubt, but that the advantages arifing from this fystem are found to be very confiderable. The falutary effects of little fubordinate ranks in our fea-fervice, cannot be questioned. It gives rife to great emulation, and the fuperior officers are enabled to bestow, on almost every possible degree of merit, a reward proportioned to it.

Having been incidentally led into this fubject, I shall beg leave to add but one observation more, namely, that the discipline of the Russian army, though at this distance from the feat of government, is of the strictest and feverest kind; from which even the commissioned officers are not exempt. The punishment of the latter for small offences is imprisonment, and a bread and water diet. An Enfign, a good friend of ours at this place, told us, that for having been concerned in a drunken riot, he was confined in the black hole for three months, and fed upon bread and water; which, he faid, fo shattered his nerves, that he had never fince had fpirits for a common convivial meeting.

I accompanied Captain Shmaleff to the entrance of Awatska River, and, having bid him farewel, took this opportunity of paying a vifit to the Priest of Paratounca. On Sun-Sunday 26. day the 26th, I attended him to church. The congregation confifted of his own family, three Kamtschadale men, and three boys, who affifted in finging part of the fervice; the whole of which was performed in a very folemn and edifying manner. The church is of wood, and by far the best building either in this town, or in that of St. Peter and St. Paul. It is ornamented with many paintings, particularly with two pictures of St. Peter and St. Paul, prefented by Beering; and which, in the real richness of their drapery, would carry off the prize from the first of our European performances; for all the principal parts of it are made of thick plates of folid filver, fastened to the canvass, and fashioned into the various foldings of the robes with which the figures were clothed.

The next day, I fet on foot another hunting party, and Monday 27. put myfelf under the direction of the Clerk of the parish, who was a celebrated bear-hunter. We arrived, by fun-fet, at the fide of one of the larger lakes. The next step was to conceal ourselves as much as possible; and this we were able to do very effectually, among fome long grafs and brush-wood, that grew close to the water's edge. We had not lain long in ambush, before we had the pleasure to hear the growlings of bears in different parts round about us; and our expectations were foon gratified, by the fight of one of them in the water, which feemed to be fwimming directly to the place where we lay hid. The moon, at this time, gave a confiderable light; and when the animal had advanced about fifteen yards, three of us fired at it, pretty nearly at the fame time. The beaft immediately turned fhort on one fide, and fet up a noise, which could not properly be called roaring, nor growling, nor yelling, but was a mixture of all three, and horrible beyond description. We plainly faw that it was feverely wounded, and that with difficulty it gained the bank, and retreated to some thick bushes at a little distance. It still continued to make the fame loud and terrible noise; and though the Kamtschadales were perfuaded it was mortally wounded, and could get no farther,

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farther, yet they thought it most adviseable not to rouse it again for the present. It was, at this time, past nine o'clock; and the night becoming overcast, and threatening a change of weather, we thought it most prudent to return home, and defer the gratification of our curiosity till morning, when we returned to the spot, and sound the bear dead in the place to which it had been watched. It proved to be a female, and beyond the common size.

As the account of our first hunting party will be apt to give the reader a wrong idea of the method in which this sport is usually conducted; it may not be amiss to add a few more words on the subject; and which I am the better able to do since this last expedition.

When the natives come to the ground frequented by the bears, which they contrive to reach about fun-fet, the first step is to look for their tracks, to examine which are the freshest, and the best situated with a view to concealment, and taking aim at the beaft, either as he is paffing by, or advancing in front, or going from them. These tracks are found in the greatest numbers, leading from the woods down to the lakes, and among the long fedgy grafs and brakes by the edge of the water. The place of ambufcade being determined upon, the hunters next fix in the ground the crutches, upon which their firelocks are made to reft, pointing them in the direction they mean to make their shot. This done, they kneel or lie down, as the circumstances of the cover require; and, with their bear-spears by their fide, wait for their game. These precautions, which are chiefly taken in order to make fure of their mark, are, on feveral accounts, highly expedient. For, in the first place, ammunition is fo dear at Kamtfchatka, that the price of a bear will not purchase more of it than is sufficient to load load a mufquet four or five times; and, what is more material, if the bear be not rendered incapable of purfuit by the first shot, the consequences are often fatal. He immediately makes toward the place from whence the noise and smoke issue, and attacks his adversaries with great fury. It is impossible for them to reload, as the animal is seldom at more than twelve or fifteen yards distance, when he is fired at: so that, if he does not fall, they immediately put themselves in a posture to receive him upon their spears; and their safety greatly depends on their giving him a mortal stab, as he first comes upon them. If he parries the thrust (which, by the extraordinary strength and agility of their paws, they are often enabled to do), and thereby breaks in upon his adversaries, the consist becomes very unequal, and it is well if the life of one of the party alone suffice to pay the forseit.

There are two feafons of the year when this diversion, or occupation, as it may be rather called, is more particularly dangerous: in the fpring, when the bears first come forth, after having fubfifted, as is univerfally afferted here, on fucking their paws through the winter; and especially if the frost happen to be severe, and the ice not to be broken up in the lake at that time, by which means they are deprived of their ordinary and expected food. Under thefe circumftances, they foon become exceedingly famished, and fierce and favage in proportion. They will purfue the natives by the fcent; and, as they now prowl about out of their usual tracks, frequently come upon them unawares; and when this happens, as the Kamtschadales have not the fmallest notion of shooting flying, nor even at an animal running, or in any way except with their piece on a reft, the bear-hunters often fall a facrifice to their hunger. The

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other feafon in which it is dangerous to come in their way, is at the time of their copulation, which is generally about this time of the year.

An extraordinary inftance of natural affection in these animals hath been already mentioned. The chace affords a variety of a fimilar nature, and not less affecting; many of which were related to me. The Kamtschadales derive great advantage in hunting, from this circumstance. They never venture to fire upon a young bear, when the mother is near: for, if the cub drop, she becomes enraged to a degree little fhort of madness; and if she get sight of the enemy, will only quit her revenge with her life. On the contrary, if the dam be shot, the cubs will not leave her side, even after she has been dead a long time; but continue about her, shewing, by a variety of affecting actions and gestures, marks of the deepest affliction, and thus become an easy prev to the hunters.

Nor is the fagacity of the bears, if the Kamtschadales are to be credited, less extraordinary, or less worthy to be remarked, than their natural affection. Of this they have a thousand stories to relate. I shall content myself with mentioning one instance, which the natives speak of as a wellknown fact; and that is, the stratagem they have recourse to, in order to catch the bareins, which are confiderably too fwift of foot for them. These animals keep together in large herds; they frequent mostly the low grounds, and love to browfe at the feet of rocks and precipices. The bear hunts them by fcent, till he come in fight; when he advances warily, keeping above them, and concealing himfelf amongst the rocks, as he makes his approaches, till he gets immediately over them, and nigh enough for his purpose.

pose. He then begins to push down, with his paws, pieces of the rock amongst the herd below. This manœuvre is not followed by any attempt to purfue, until he find he has maimed one of the flock, upon which a course immediately enfues, that proves fuccefsful, or otherwife, according to the hurt the barein has received.

I cannot conclude this digreffion, without observing, that the Kamtschadales very thankfully acknowledge their obligations to the bears for what little advancement they have hitherto made, either in the sciences or polite arts. They confess that they owe to them all their skill both in physic and furgery; that by remarking with what herbs these animals rub the wounds they have received, and what they have recourfe to when fick and languid, they have become acquainted with most of the simples in use among them, either in the way of internal medicine, or external application. But what will appear fomewhat more fingular, is, they acknowledge the bears likewife for their dancingmafters. Indeed, the evidence of one's fenfes puts this out of dispute; for the bear-dance of the Kamtschadales is an exact counterpart of every attitude and gesture peculiar to this animal, through its various functions; and this is the foundation and ground-work of all their other dances, and what they value themselves most upon.

I returned to the ships on the 28th, very well pleased with Tuesday 28. my excursion, as it had afforded me an opportunity of seeing a little more of the country, and of observing the manners and behaviour of the Kamtschadales, when freed from that conftraint, which they evidently lie under in the company of the Ruffians.

No occurrence worth mentioning took place till the 30th, Thursday 30. when Captain Gore went to Paratounca, to put up in the Rr 2 church

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church there an efcutcheon, prepared by Mr. Webber, with an infcription upon it, fetting forth Captain Clerke's age and rank, and the object of the expedition in which he was engaged at the time of his deceafe. We also affixed to the tree, under which he was buried, a board, with an infcription upon it to the same effect.

Before his departure, Captain Gore left orders with me to get the ships out of the harbour into the bay, to be in readiness to fail. We were prevented from doing this, by a violent gale of wind, which lasted the whole day of the first of October. However, on the 2d, both ships warped out of the harbour, clear of the narrow paffage, and came to anchor in feven fathoms, a quarter of a mile from the

The day before we went out of the harbour, the cattle arrived from Verchnei; and, that the men might receive the full benefit of this capital and much-longed-for fupply, by confuming it fresh, Captain Gore came to a determination of flaying five or fix days longer. Nor was this time idly employed. The boats, pumps, fails, and rigging, of both ships, thereby received an additional repair. And Captain Gore, sparing me some molosses, and the use of the Resolution's copper, I was enabled to brew a fortnight's beer for the crew, and to make a farther provision of ten puncheons of strong spruce effence. The present supply was the more acceptable, as our last cask of spirits, except a small quantity left in referve for cases of necessity, was now serving

Sunday 3.

The 3d was the name-day of the Empress; and we could want no inducement to fhew it every poffible respect. Accordingly Captain Gore invited the Priest of Paratounca, Ivaskin, and the Serjeant, to dinner; and an entertainment was also provided for the inferior officers of the garrison, for the two Toions of Paratounca, and St. Peter and St. Paul, and for the other better fort of Kamtschadale inhabitants. The rest of the natives, of every description, were invited to partake with the ships companies, who had a pound of good fat beef ferved out to each man; and what remained of our fpirits was made into grog, and divided amongst them. A falute of twenty-one guns was fired at the ufual hour; and the whole was conducted (confidering the part of her dominions it was in) in a manner not unworthy fo renowned and magnificent an Empress.

On the 5th, we received, from Bolcheretik, a fresh supply Tuesday 5. of tea, fugar, and tobacco. This prefent had met Captain Shmaleff on his return, and was accompanied by a letter from him, in which he informed us, that the floop from Okotzk had arrived during his abfence, and that Madame Shmaleff, who was entirely in our interests, had lost no time in dispatching a courier, with the few presents, of which our acceptance was requested.

The appearance of foul weather, on the 6th and 7th, pre- Wednes. 6. vented our unmooring; but on the morning of the 8th, we Friday 8. failed out toward the mouth of the bay, and hoisted in all the boats; when the wind, veering to the Southward, stopped our farther progress, and obliged us to drop anchor in ten fathoms; the oftrog bearing due North, half a league distant.

The weather being foggy, and the wind from the fame quarter during the forenoon of the 9th, we continued in Saturday 9. our station. At four in the afternoon, we again unmoored; but whilft we were, with great difficulty, weighing our last anchor, I was told that the drummer of the marines had left the boat, which had just returned from the village, and that

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that he was laft feen with a Kamtschadale woman, to whom his messmates knew he had been much attached, and who had often been observed persuading him to stay behind. Though this man had been long useless to us, from a swelling in his knee, which rendered him lame, yet this made me the more unwilling he should be left behind, to become a miserable burthen, both to the Russians and himself. I therefore got the Serjeant to send parties of soldiers, in different directions, in search of him, whilst some of our sailors went to a well-known haunt of his in the neighbourhood, where they found him with his woman. On the return of this party, with our deserter, we weighed, and sollowed the Resolution out of the bay.

Having at length taken our leave of St. Peter and St. Paul, I shall conclude this chapter with a particular description of Awatika bay, and the coast adjoining; not only because (its three inlets included) it conflitutes perhaps the most extenfive, and fafeft, harbour that has yet been discovered; but because it is the only port in this part of the world, capable of admitting ships of any considerable burthen. The term Bay, indeed, is perhaps not applicable, properly fpeaking, to a place fo well sheltered as Awatska; but then it must be observed, that from the loose, undistinguishing manner, in which navigators have denominated certain fituations of fea and land, with refpect to each other, bays, roads, founds, harbours, &c. we have no defined and determinate ideas affixed to these words, sufficient to warrant us in changing a popular name, for one that may appear more proper.

The entrance into this bay, is in 52° 51' North latitude, and 158° 48' East longitude, and lies in the bight of another exterior bay, formed by Cheepoonskoi Noss, to the North,

and Cape Gavareea to the South. The former of these head-lands bears from the latter North East by North, three quarters East, and is distant thirty-two leagues. The coast, from Cape Gavareea to the entrance of Awatska Bay, takes a direction nearly North, and is eleven leagues in extent. It consists of a chain of high, ragged cliffs, with detached rocks frequently lying off them. This coast, at a distance, presents, in many parts, an appearance of bays or inlets, but on a nearer approach, the head-lands were found connected by low ground.

Cheepoonskoi Noss bears from the entrance of the bay, East North East a quarter East, and is twenty-five leagues distant. On this side, the shore is low and flat, with hills rising behind, to a considerable height. In the latitude of Cape Gavareea, there is an error of twenty-one miles in the Russian charts; its true latitude being 52° 21'.

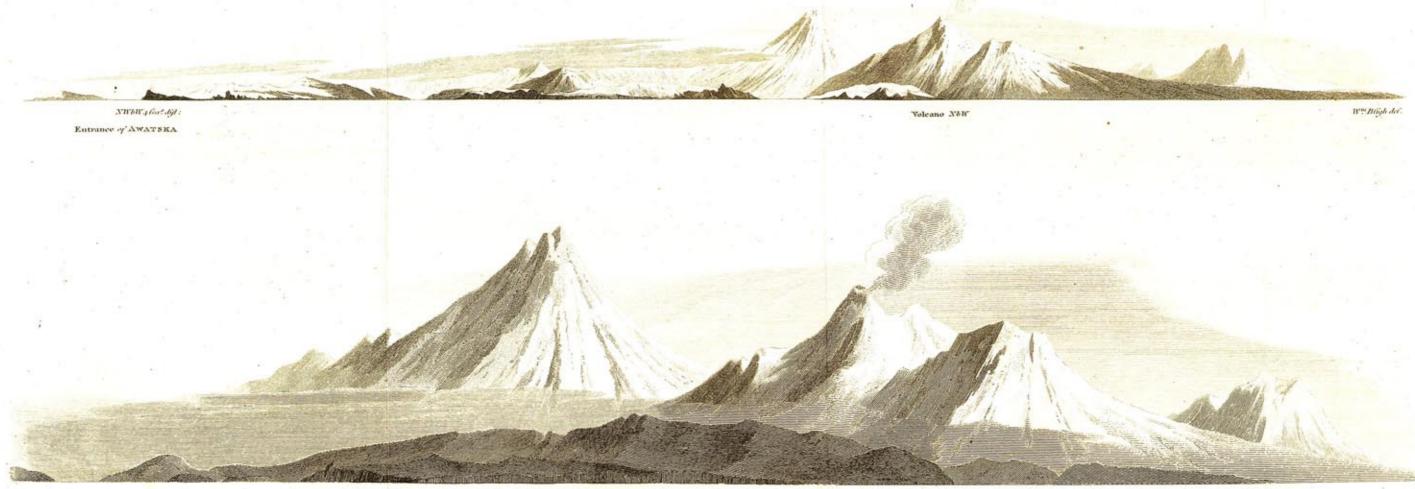
This striking difference of the land on each side Awatska Bay, with their different bearings, are the best guides to steer for it, in coming from the Southward: and, in approaching it from the Northward, Cheepoonskoi Noss will make itself very conspicuous; for it is a high projecting head-land, with a considerable extent of level ground, lower than the Noss, uniting it to the continent. It presents the same appearance, whether viewed from the North or South, and will warn the mariner not to be deceived, in imagining Awatska Bay to lie in the bight, which the coast forms to the Northward of this Noss; and which might be the case, from the striking resemblance there is between a conical hill within this bight or bay, and one to the South of Awatska Bay.

I have been thus particular, in giving a minute description of this coast, from our own experience of the want of

it. For had we been furnished with a tolerable account of the form of the coast, on each fide of Awatska Bay, we fhould, on our first arrival upon it, have got fafely within the bay two days before we did, and thereby have avoided part of the stormy weather, which came on when we were plying off the mouth of the harbour. Befides, from the prevalence of fogs, in these seas, it must frequently happen, that an observation for ascertaining the latitude cannot be got; to which we may add, that the deceptive appearances land makes, when covered with fnow, and when viewed through an hazy atmosphere, both which circumstances prevail here during the greatest part of the year, render the knowledge of a variety of discriminating objects the more necessary.

Should, however, the weather be clear enough to admit a view of the mountains on the coast in its neighbourhood, these will serve to point out the situation of Awatska Bay, with a great deal of precision. For to the South of it are two high mountains; that which is nearest the bay, is shaped like a fugar-loaf; the other, which is farther inland, does not appear fo high, and is flat at the top. To the North of the bay, are three very conspicuous mountains; the Westernmost is, to appearance, the highest; the next is the volcano mountain, which may be known from the fmoke that iffues from its top, and likewife from fome high table-hills connected with it, and stretching to the Northward: thefe two are fomewhat peaked. The third, and the most northerly, might perhaps be more properly called a cluster of mountains, as it presents to the fight several flat tops.

When the navigator has got within the Capes, and into the outward bay, a perpendicular head-land, with a light-



Entrance of AWATSEA Bay

North head 3 miles diffient

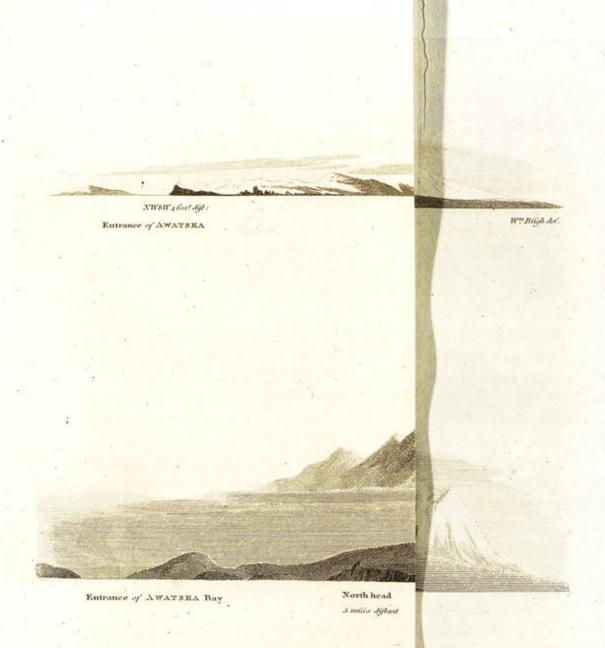


J.W. del!

VIEW in the entrance of AWATSKA Bay when the light-House on North Head bor SEbS diffant 2 miles .

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house erected upon it, will point out the entrance of the bay of Awatska to the Northward. To the Eastward of this head-land lie many sunken rocks, stretching into the sea, to the distance of two or three miles; and which will shew themselves, if there be but a moderate sea or swell. Four miles to the South of the entrance lies a small round island, very distinguishable from being principally composed of high pointed rocks, with one of them strikingly remarkable, as being much larger, more peaked and perpendicular, than the rest.

It is no way necessary to be equally particular in the defcription of the bay itself, as of its approaches and environs; since no words can give the mariner so perfect an idea of it, as the annexed plan. From this it will appear, that the entrance is at first near three miles wide, and in the narrowest part one mile and a half, and four miles long, in a North North West direction. Within the mouth is a noble bason of twenty-five miles circuit, with the capacious harbours of Tareinska to the West, of Rakoweena to the East, and the small one of St. Peter and St. Paul, where we lay, to the North.

Tareinska harbour is about three miles in breadth, and twelve in length; it stretches to the East South East, and is separated from the sea, at the bottom, by a narrow neck of land. The road into this harbour is perfectly free from rocks or shoals. We had never less than seven fathoms water, as far as our survey extended; for we were not able to get to the bottom of the harbour on account of the ice.

The harbour of Rakoweena would deferve the preference over the other two, if its entrance were not impeded by a shoal lying in the middle of the channel; which, in Vol. III.

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general, will make it necessary to warp in, unless there be a leading wind. It is from one mile to half a mile in width, and three miles long, running at first in a South East, and afterward in an Easterly direction. Its depth is from thirteen to three fathoms.

St. Peter and St. Paul's is one of the most convenient little harbours I ever saw. It will hold conveniently half a dozen ships, moored head and stern; and is fit for giving them any kind of repairs. The South side is formed by a low sandy neck, exceedingly narrow, on which the ofrog is built; and whose point may almost be touched by ships going in; having three fathoms water close in with it. In the mid channel, which is no more than two hundred and seventy-eight feet across, there is six sathoms and a half; the deepest water within is seven fathoms; and in every part over a muddy bottom. We found some inconvenience from the toughness of the ground, which constantly broke the messenger, and gave us a great deal of trouble in getting up the anchors. There is a watering-place at the head of the harbour.

The plan will likewise point out the shoal that is to be avoided, lying off the Eastern harbour, as well as the spit within the entrance, stretching from the South West shore; and over which there is only three fathoms water. In order to steer clear of the latter, a small island, or perhaps it may rather be called a large detached rock, lying on the West shore of the entrance, is to be shut in with the land to the South of it; and, to steer clear of the former, the Three Needle Rocks, which lie on the East shore of the entrance near the light-house head, are to be kept open with the head-lands (or bluss-heads) that rise to the Northward of the first small bay, or bending, observable on the East side of the

the entrance. When arrived to the North of the North head-land of the Eastern harbour, the shoal is past.

In failing into the harbour of St. Peter and St. Paul, and approaching the village, it is necessary to keep in close to the Eastern shore, in order to avoid a spit, which runs from the head-land to the South West of the town.

Before I proceed to give a table of the refult of our aftronomical observations at this place, it may be proper to acquaint the Reader, that the time-keeper we had on board the Refolution, which was an exact copy of that invented by Mr. Harrison, and executed by Mr. Kendal, stopped on the 27th of April, a few days before we first came into Awatika Bay. It had been always kept with the most fcrupulous care during the voyage, having never been trufted for a moment into any other hands than those of Captain Cook and mine. No accident could, therefore, have happened to it, to which we could attribute its ftopping; nor could it have arisen from the effects of intense cold, as the thermometer was very little below the freezing point. As foon as the difcovery was made, I confulted with Captain Clerke, what course it was best to pursue; whether to let it remain as it was, entirely useless to us, for the purpose of fatisfying the curious at home, where it was fure of being examined by proper judges, or fuffer it to be infpected by a feaman on board, who had ferved a regular apprenticeship to a watch-maker in London; and appeared. fufficiently knowing in the bufinefs, from his fuccefs in cleaning and repairing feveral watches fince we had been out. The advantages we had derived from its accuracy made us extremely unwilling to be deprived of its ufe during the remaining part of the voyage; and that object appeared to us of much greater importance than the fmall Sf 2

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degree of probability, which we understood was all that could be expected, of obtaining any material knowledge respecting its mechanism, by deferring the inspection of it. At the fame time, it should be remembered, that the watch had already had a fufficient trial, both in the former voyage, and during the three years we had now had it on board, to afcertain its utility. On these considerations, we took the opportunity of the first clear day, after our arrival in Awatika Bay, of opening the watch, which was done in the Captain's cabin, and in our presence. The watchmaker found no part of the work broken; but, not being able to fet it a-going, he proceeded to take off the cock and balance, and cleaned both the pivot-holes, which he found very foul, and the rest of the work rather dirty; he also took off the dial-plate; and, between two teeth of the wheel that carries the fecond-hand, found a piece of dirt, which he imagined to be the principal cause of its stopping. Having afterward put the work together, and oiled it as fparingly as possible, the watch appeared to go free and well.

Having received orders the next day to go to Bolcheretsk, the time-keeper was left in the care of Mr. Bayly, to compare it with his watch and clock, in order to get its rate. On my return, I was told it had gone for some days with tolerable regularity, losing only from sifteen to seventeen seconds a-day, when it stopped a second time. It was again opened, and the cause of its stopping appeared to be owing to the man having put some part of the work badly together when he sirst opened it. Being again adjusted, it was found to gain above a minute a day; and, in the attempt to alter the regulator and balance-spring, he broke the latter. He afterward made a new spring; but the watch

now went fo irregularly, that we made no farther use of it. The poor fellow was not less chagrined than we were, at our bad success; which, however, I am convinced was more owing to the miserable tools he was obliged to work with, and the stiffness his hands had contracted from his ordinary occupation, than to his want of skill.

For the fatisfaction of those who may wish to have a general view of its rate of going, I have added the following table.

The first and fecond columns contain the dates when. and the names of the places where, its rate was observed. The third column contains the daily error of its rate, fo found from mean time. The fourth column has the longitude of each place, according to the Greenwich rate; that is, calculated on a supposition that the time-keeper had not varied its rate from the time it left Greenwich. But as we had frequent opportunities of afcertaining the variation of its daily error, or finding its new rate, the fifth column has the longitude according to its last rate, calculated from the true longitude of the place last departed from. The fixth is the true longitude of the place deduced from aftronomical observations made by ourselves, and compared with those made by others, whenever fuch could be obtained. The feventh column shews the difference between the fourth column and the fixth in space; and the eighth the fame difference in time. The ninth shews the number of months and days in which the error, thus determined, had been accumulating. The difference between the fifth and fixth columns is found in the tenth, and shews the error of the time-keeper, according to its rate last found, in fpace; and the eleventh, the fame error in time. The twelfth contains the time elapfed in failing from the place

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where the rate was last taken, to the place whose longitude is last determined. The thirteenth and fourteenth contain the state of the air at the time of each observation.

As persons, unaccustomed to calculations of this fort, may find some difficulty in comprehending the nature of the table, the two following instances will more clearly explain it.

Thus, on the 24th October, 1776 (first column), at the Cape of Good Hope (fecond column), we found the daily error in the rate of its going, to be 2",26 (third column. The longitude of that place, calculated on a supposition that the rate of the time-keeper had continued the fame from the time of our leaving Greenwich, that is, had a regular daily error of 1",21, is found to be 18° 26' 30" East (fourth column). And as its rate at Greenwich is, in this instance, its latest rate, the longitude thus found is the same (fifth column). The true longitude of the place is 18° 23′ 15″ (fixth column). From whence it appears, that in our run from Greenwich to the Cape, the watch would have led us into an error only of 3' 15" (feventh column), or three miles one quarter; or had varied 13" of time (eighth column), in four months twenty-three days (ninth column), the period between our leaving Greenwich and our arrival at the Cape. As the Greenwich is the latest error, the tenth, eleventh, and twelfth columns will be the fame with the feventh and ninth.

But, on the 22d of February, 1777 (first column), at Queen Charlotte's Sound, New Zealand (second column), the daily error of its rate was found to be 2",91 (third column). The longitude of this place, according to the Greenwich rate, is 175° 25' (fourth column). But having found, at the Cape, that it had altered its rate from a daily error of 1",21,

I",21 to 2",26 the longitude corrected by this new rate is found to be 174° 54′ 23″ (fifth column). The true longitude of the place being 174° 23′ 31″ (fixth column); it appears, that, in our run from Greenwich to New Zealand, the error would have been only 1° 1′ 29″ (feventh column), or fixty-one miles and a half, even if we had not had an opportunity of correcting its daily error; or, in other words, that the watch had varied 4′ 5″,3 (eighth column), in nine months four days (ninth column). But the longitude as given by its new rate, leaves an error of only 30′ 54″ (tenth column), near thirty-one miles, or, in time, 2′ 3″,6 (eleventh column); which has been accumulating during our run from the Cape to New Zealand, or in four months, nine days (twelfth column). The thirteenth and four-teenth columns require no explanation.

TABLE

ABLE of the Rate and Error of Mr. Kendal's Watch, on board the Refolution.

June 11. Greenwich Oct. 24. Cape of Good }  1777. Feb. 22. Queen Char- }  New Zealand, New Zealand, New Zealand, Anamooka Hune 7, Anamooka		Creenwich Rate.  0 0 0 0 0 18 26 30 775 25 0 775 25 0 88 28 88 28		Longi new 0 18 2 17 4 5 186 1	Congitude by new Rate.  O / // O O OE.  18 26 30  74 54 25  86 13 15  86 12 42	17 o o 18 17 4 4 18 5 18 5 18 5 18 5 18 5 18 5 18 5	VI. Long VI.		A Accus o + O + O + O + O + O + O + O + O + O +	Accumulated Greenwich in Space.    1   1   29   0   1   29   0   27   10   0   0   0   0   0   0   0   0	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rate o 4 4 4	13,0 4 (Mod 113,0 4 (13,0 4 (13,0 4 (13,0 4 (13,0 13,0 4 (13,0 13,0 13,0 13,0 13,0 13,0 13,0 13,0	IX. Length of Time. Mo.Da. 4 2 3 4 4 2 3 11 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		+ + ++	Error by Space.		Н // H. 150 0 5570	XI. Time.	13,0 13,0 13,0 17,8 2,5 2,5 2,5 2,5 2,5 2,5 2,5 2,5 2,5 2,5	X 10 1 6 4 4 4 4 -	23 Da. 18	XIII. Thermometer.  Gr.   Leaft Height.  Height.  73 53 74 83 774		Barometer.	. 0 0 - 1
ha and trka }	7, 6 2 2 3 6 7 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		35 52 52 60 0		20 25 25 25 80 37 93 93 93 93 93 93 93 93 93 93 93 93 93	185 233 233 193 193 158	43 0 317 25 25 25 25 25 25 25 25 25 25 25 25 25	20 2 27 4 28 29 27 4 29 20 20 20 20 20 20 20 20 20 20 20 20 20	00 44 0 4	52 7 1 12 2 5 2 1 5 2 4 5 3 3 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5	4 3 5 2 2 2 3 2 8 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	wwww 00 6 0			25 27 17 17 10 15 14 18		H H H H	1 2 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	221 4 4 8 4 4 8 8 4 9 9 9 9 9 9 9 9 9 9 9 9	40100 41 1 4	5,6 6,6,6 8,0 0,0 3,5,0 15,0 16,9	-04 +0 WO W W	27 27 4	88 88 88	7 34 777093	30,15 30,15 30,15 29,7 29,7 30,0	22101 0 2 8

From this view of the time-keeper it appears, that, for near two years, it altered its rate very inconfiderably, and therefore, that its error, according to the Greenwich rate, if we had had no opportunities of correcting it, would have amounted only to 21°. That afterward, at King George's Sound, or Nootka, it was found to have varied exceedingly; of course, the longitude, by its Greenwich rate, was becoming confiderably erroneous. About this time, it should be remarked, the thermometer was varying from 65° to 41°. The greatest alteration we ever observed in the watch was, during the three weeks we were cruizing to the North; in which interval, it gave the longitude of the East Cape with a difference of twenty-eight miles. I have marked the longitude of Saint Peter and Saint Paul, as given by the time-keeper, notwithstanding it stopped a few days before we arrived there; this I was enabled to do, from comparing the longitude it gave the day before it stopped, with that given by Mr. Bayly's watch, and allowing for the error of the latter.

The use of so accurate a measure of time is sufficiently evident, from its furnishing in itself the means of approximating to the longitude at fea, as may be feen in the above table. But, befides this, we were enabled, by the fame means, to give a degree of accuracy to the lunar observations, which they cannot otherwise pretend to; and, at the fame time, by reducing a number of those observations to one time, obtain refults approaching still nearer the truth. In furveying coasts, and afcertaining the true positions of capes and head-lands, it reaches the utmost degree of practical exactness. On the other hand, it is to be observed, that lunar observations, in their turn, are absolutely necessary, in

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order

order to reap the greatest possible advantages from the timekeeper; fince, by afcertaining the true longitude of places, they discover the error of its rate. The original observations, that were made in the courfe of this voyage, have been published by order of the board of longitude, and to those I must refer the reader, for his further information on this fubject.

N. B. The observatories were placed on the West side of the village of Saint Peter and Saint Paul.

di	tude deduced from meridian zenith stances of the fun, and of five stars the South, and five to the North of				
	e zenith		o'	38"	North.
	gitude deduced from one hundred d forty-fix fets of lunar obferva-				
	ons		43	16	Eaft.
	gitude by time-keeper, according its Greenwich rate		36	0	
Lon	gitude by time-keeper, according				
to	its rate found at Owhyhee -	159	20	0	
	ation of the compass, by azimuths ken with three compasses, made by				
	night, Gregory, and Martin -		18	40	East.
n	of the North pole of the mag-	9			
	ofervations taken in June and Sep-	100		_	
te	mber	03	5	0	

It was high water, on the full and change of the moon, at thirty-fix minutes past four, and the greatest rise was five five feet eight inches. The tides were very regular every twelve hours. On the coast, near the bay, the flood came from the South, and the time of high-water was near two hours fooner than in the harbour of Saint Peter and Saint Paul.

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CHAP.

## CHAP. VI.

General Account of Kamtschatka. — Geographical Description.—Rivers.—Soil.—Climate.—Volcanos.—Hot Springs.—Productions.—Vegetables.—Animals.—Birds.—Fish.



AMTSCHATKA is the name of a peninfula fituated on the Eastern coast of Asia, running nearly North and South, from 52° to 61° North latitude; the longitude of its Southern extremity being 156° 45' East. The isthmus, which joins it to the continent on the North, lies between the Gulf of Olutorsk and the Gulf of Penshinsk. Its Southern extremity is Cape Lopatka, a word fignifying the bladebone of a man, and is fo called from its supposed resemblance to it. The shape of the whole peninfula is not unlike that of a shoe, widening from the toe (which we may fuppose to be Cape Lopatka) toward the middle, and narrowing again toward the heel, the neck of land above-mentioned connecting it with the continent. Its greatest breadth is from the mouth of the river Tigil to that of Kamtschatka, and is computed to be two hundred and thirty-fix miles, from whence it narrows very gradually toward each extremity.

It is bounded on the North by the country of the Koriacks; to the South and East, by the North Pacific Ocean;

and to the West, by the sea of Okotzk. A chain of high mountains stretches the whole length of the country, from North to South, dividing it nearly into two equal parts, from whence a great number of rivers take their rise, and empty themselves, on each side, into the Pacific Ocean and the sea of Okotzk.

There are three rivers of much greater magnitude than the rest; the Bolchoireka, or great river, so called from bolchoia, which fignifies great, and reka, a river; the river Kamtschatka, and the Awatska. The first empties itself into the fea of Okotzk, and is navigable, for the Ruffian galliots, upward of five leagues from its mouth, or within nine miles of Bolcheretsk, a town situated at the conflux of the Goltfoffka and the Bistraia, which here lose themfelves in the Bolchoireka. The Bistraia itself is no inconfiderable river. It derives its fource from the fame mountain with the river Kamtschatka, and, by taking a direct contrary course, affords the Kamtschadales the means of transporting their goods by water, in small canoes, almost across the whole peninsula. The river Kamtschatka, after maintaining a course of near three hundred miles from South to North, winds round to the Eastward, in which direction it empties itself into the ocean, a little to the Southward of Kamtschatkoi Noss. Near the mouth of the Kamtschatka, to the North West, lies the great lake called Nerpitsch, from nerpi, a Kamtschadale word, signifying a feal, with which this lake abounds. About twenty miles up the river, reckoning from the mouth of the lake, is a fort called Nishnei Kamtschatka ostrog, where the Rusfians have built an hospital and barracks, and which, we were informed, is become the principal mart in this country.

The river Awatska arises from the mountains situated between the Bolchoireka and the Bistraia, and running, from North West to South East, a course of one hundred miles, falls into the bay of Awatska. The Tigil is likewife a river of confiderable fize, rifing amidst some very high mountains, which lie under the fame parallel with Kamtschatkoi Noss, and, running in an even course from South East to North West, falls into the sea of Okotzk. All the other rivers of this peninfula, which are almost infinite in number, are too fmall to deferve a particular enumeration.

If I may judge of the foil, from what I faw of its vegetable productions, I should not hesitate in pronouncing it barren in the extreme. Neither in the neighbourhood of the bay, nor in the country I traverfed on my journey to Bolcheretsk, nor in any of our hunting expeditions, did I ever meet with the fmallest spot of ground that resembled what in England is called a good green turf; or that feemed as if it could be turned to any advantage, either in the way of pasturage, or other mode of cultivation. The face of the country in general was thinly covered with stunted trees, having a bottom of moss, mixed with low weak heath. The whole bore a more striking resemblance to Newfoundland, than to any other part of the world I had ever feen.

It must however be observed, that I saw at Paratounca three or four ftacks of fweet and very fine-looking hay; and Major Behm informed me, that many parts of the peninfula, particularly the banks of the river Kamtschatka and the Bistraia, produce grass of great height and strength, which they cut twice in the fummer; and that the hay is of a fucculent quality, and particularly well adapted to the fattening

fattening of cattle. Indeed it should appear, from the fize and fatness of the thirty-fix head that were fent down to us from the Verchnei oftrog, and which, we were told, were bred and fattened in the neighbourhood, that they must have had the advantage of both good pastures and meadows. For it is worth our notice, that the first supply we received, confifting of twenty, came to us just at the close of the winter, and before the fnow was off the ground, and therefore probably had tafted nothing but hay for the feven preceding months. And this agrees with what is related by Krascheninikoss, that there is no part of the country equal in fertility to that which borders on the River Kamtschatka; and that to the North and South it is much inferior both in point of foil and climate. He relates, that repeated experiments have been made in the culture of oats, barley, and rye, in different quarters near this river, which have generally fucceeded; that, in particular, fome perfons belonging to the convent of Jakutzk, who had fettled in that part of the country, had fown barley there, which had yielded an extraordinary increase; and he has no doubt but that wheat, in many parts, particularly near the fource of the Bistraia and Kamtschatka, would grow as well as in the generality of countries fituated in the fame latitude. Perhaps the fuperior fertility of the country here fpoken of may, in a great measure, be accounted for, from its lying in that part of the peninfula, which is by much the wideft, and confequently farthest removed from the sea, on each side. The moift chilling fogs, and drizzling weather, which prevail almost perpetually along the coast, must necessarily render the parts adjacent very unfit for all the purposes of agriculture.

It is natural to suppose, that the severity of the climate

must be in due proportion to the general sterility of the soil, of which it is probably the cause. The first time we saw this country was in the beginning of May, 1779, when the whole face of it was covered with fnow, from fix to eight feet deep. On the 6th, we had fnow, with the wind from the North East. On the 8th of May, at noon, the thermometer stood at 32°; and, the same day, some of our men were sent on fhore to try to cut wood; but the fnow was still so deep on the ground, as to render all their attempts fruitless. Nor was it found practicable to proceed in this necessary business, with all the efforts of a very stout party, till the 12th, at which time, the thaw began to advance gradually. The fides of the hills were now in fome places free from fnow; and, by the beginning of June, it was generally melted from the low lands. On the 15th of June, the day we failed out of the harbour, the thermometer had never rifen higher than 58°, nor the barometer than 30° 04'. The winds blew almost invariably from the Eastward during our stay, and the South East was more prevalent than any other.

On our return, the 24th of August, the foliage of the trees, and all other sorts of vegetation, seemed to be in the utmost state of perfection. For the remainder of this month, and through September, the weather was very changeable, but in no respect severe. The winds, at the beginning of the month, were, for the most part, Easterly, after which they got round to the West. The greatest height of the thermometer was 65°, the lowest 40°. The barometer's greatest height 30°; its lowest 29, 3. So that, upon the whole, during this month, an equal and moderate degree of temperature prevailed. But at the beginning of October, the tops of the hills were again covered with new-fallen snow, the wind continuing Westerly.

In computing the feafons, the fpring ought certainly not to be taken into the account. From the middle of June, to the middle of September, may be properly faid to conflitute the fummer. October may be confidered as an autumnal month; from thence, till the middle of June, it is perfect winter. It was toward the end of May that we made our journey between Bolcheretik and Awatika, over the fnow in fledges.

It is faid that the climate, in the country adjoining to the river Kamtschatka, is not less serene and temperate, than in many parts of Siberia that are under the same latitude. This variation is probably owing to the same causes, to which the superior fertility of the soil in those parts has been before attributed. But it is not in the sterility of the ground alone that the Kamtschadales feel the unfavourable temperature of their climate. The uncertainty of the summer season sometimes prevents their laying up a sufficient stock of dried sish for their winter's provision, and the moisture of the air causes worms to breed in them, which not unfrequently destroy the greatest part.

I do not remember that we had either thunder or lightning during our stay, excepting on the night of the eruption of the volcano; and, from the account of the inhabitants, they are very seldom troubled with storms of this kind, and never but in a slight degree. The general severity of the winter, as well as the dreadful hurricanes of wind and snow that season brings along with it, cannot be questioned, from the subterraneous habitations the natives are under a necessity of retiring to, for warmth and security. Major Behm told us, that the cold and inclemency of the winter of 1779 was such, that, for several weeks, all intercourse between the inhabitants was entirely stopped, every one being afraid

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to ftir even from one house to another, for fear of being frost-bitten. This extraordinary rigour of climate, in so low a latitude, may be accounted for, from its being situated to the East of an immense uncultivated tract of country, and from the prevalence of the Westerly winds, blowing over so extensive and cold a continent. The extraordinary violence and impetuosity of the winds, is attributed to the subterraneous fires, the sulphureous exhalations, and the general volcanic disposition of the country.

This peninfula abounds in volcanos, of which only three have, for fome time past, been subject to eruptions. We have already mentioned that which is situated in the neighbourhood of Awatska. Besides this, there are others not less remarkable, according to the account given of them by Krascheninikoff.

The volcano of Tolbatchick is fituated on a neck of ground between the River of Kamtschatka and Tolbatchick. The mountain, from the fummit of which the eruptions proceed, is of a confiderable height, and terminates in pointed rocks. In the beginning of the year 1739, there issued from it a whirlwind of flames, which reduced to ashes the forests of the neighbouring mountains. This was fucceeded by a cloud of fmoke, which fpread over and darkened the whole country, till it was diffipated by a shower of cinders, that covered the ground to the distance of thirty miles. Mr. Krascheninikoss, who was at this time on a journey from Bolchoireka to the Kamtschatka ostrog, at no great distance from the mountain, relates, that the eruption was preceded by an alarming found in the woods, which he thought the forerunner of fome dreadful fform or hurricane, till three shocks of an earthquake, at about a minute's interval each, convinced him of its real cause; but that he was hindered

dered from approaching nearer the mountain, by the cinders that fell, and prevented him from proceeding on his journey.

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The third volcano is on the top of the mountain of Kamt-fchatka, which is mentioned as by far the highest in the peninsula. A thick smoke never ceases to ascend from its summit, and it has frequent eruptions, of the most violent and dreadful kind, some of which were much talked of, and seemed to be fresh in the memories of the Kamt-schadales.

The country is likewise said to contain numerous springs of hot water. The only one that I had an opportunity of seeing was at Natcheekin oftrog, and hath been already described. Krascheninikoss mention of several others, and also of two very extraordinary pits or wells, at the bottom of which the water is seen to boil as in a caldron, with prodigious force and impetuosity; at the same time a dreadful noise issues out of them, and so thick a vapour, that a man cannot see through it.

Of the trees which fell under our notice, the principal are the birch, the poplar, the alder (with the bark of which they stain their leather), many species of the willow, but all small; and two forts of dwarfish pines or cedars \*. One of these grows upon the coast, creeping along the ground, and seldom exceeds two feet in height. It was of this fort we made our effence for beer, and found it excellent for the purpose. The other grows on the mountains, to a greater height, and bears a small nut or apple. We were told by the old *Toion* at St. Peter and St. Paul, that Beering, during the time he lay in that harbour, first taught them the use of

<sup>\*</sup> Krascheninikoss says, that the tree here spoken of, is a dwarf cedar, for that there is not a pine in the peninsula.

the decoction of these pines, and that it had proved a most excellent remedy for the scurvy; but, whether from the great scarcity of sugar, or from what other cause, we could not learn, we were forry to find, that it was no longer in use amongst them.

The birch was by far the most common tree we saw; and of this we remarked three sorts. Two of them fit for timber, and differing only in the texture and colour of the bark; the third of a dwarfish kind. This tree is applied to a great variety of uses by the inhabitants. The liquor which, on tapping, it yields in great abundance, they drink without mixture, or any preparation, as we had frequent opportunities of observing, upon our journey to Bolcheretsk; and found it, ourselves, pleasant and refreshing, but somewhat purgative. The bark they convert into vessels, for almost all their domestic and kitchen purposes; and it is of the wood of this tree the sledges and canoes are also made \*.

The birch, and every other kind of tree in the neighbourhood of the bay, were fmall and ffunted; and they are obliged to go many miles up into the country, for wood of a proper fize to work into canoes, for the principal timbers of their balagans, and the like uses.

Befides the trees above mentioned, Krascheninikoff relates, that the larch grows on the banks of the River Kamtschatka, and of those that fall into it, but nowhere else; and that there are firs in the neighbourhood of the River Berezowa; that there is likewise the service-tree (padus foliis

annuis);

annuis); and two species of the white-thorn, one bearing a red, the other a black berry.

October

Of the shrub kind, as junipers, the mountain-ash, wild rose-trees, and rasberry-bushes, the country produces great abundance; together with a variety of berries; blue-berries of two sorts, round and oval; partridge-berries; cran-berries; crow-berries, and black-berries. These the natives gather at proper seasons, and preserve, by boiling them into a thick jam, without sugar. They make no inconsiderable part of their winter provisions, and are used as sauce to their dried and salt sish; of which kind of food they are unquestionably excellent correctives. They likewise eat them by themselves, in puddings, and various other ways, and make decoctions of them for their ordinary liquor.

We met with feveral wholesome vegetables in a wild state, and in great quantities, fuch as wild celery, angelica, chervil, garlic, and onions. Upon fome few patches of ground in the vallies, we found excellent turnips, and turnipradishes. Their garden cultivation went no farther; yet from hence I am led to conclude, that many of the hardy forts of vegetables (fuch at least as push their roots downward), like carrots, parsnips, and beet, and perhaps potatoes, would thrive tolerably well. Major Behm told me, that fome other forts of kitchen vegetables had been tried, but did not answer; that neither any of the cabbage or lettuce kind would ever head; and that peafe and beans fhot up very vigorous stalks, flowered and podded, but the pods never filled. He likewise told me, that in the experiments made by himfelf at Bolcheretik, with different forts of farinaceous grain, there generally came up a very high and strong blade, which eared, but that the ears never vielded flour.

This

<sup>\*</sup> Krascheninikoff says, that the natives likewise convert the bark into a pleasant wholesome food, by stripping it off whilst it is young and green, and cutting it into long narrow stripes, like vermicelli, drying it, and stewing it afterward along with their caviar.

This fhort account of the vegetable productions reaches to fuch parts of the country only as fell within our notice. In the neighbourhood of the Kamtschatka River, where (as has been observed) both the foil and climate is by much the best in the whole peninfula, garden culture is attended to, and probably with great fuccess, as appears from our having received, at the fame time with the fecond drove of cattle from Verchnei, a prefent of cucumbers, of very large fine turnips, celery, and fome other garden-stuff, of which I do not recollect the kinds.

There are two plants, which, from the great use made of them, merit a particular mention and description. The first is called by the natives the faranne; and by botanists, Lilium Kamtskatiense flore atro rubente \*. The stem is about the thickness of that of the tulip, and grows to the height of five inches, is of a purple colour toward the bottom, and green higher up, and hath, growing from it, two tier of leaves of an oval figure, the lower confifting of three leaves, the uppermost of four, in the form of a cross: from the top of the stalk grows a fingle flower, of an exceedingly dark red colour, in shape resembling the flower of the narcissus, only much fmaller: from the centre of the flower, rifes a ftyle of a triangular form, and obtuse at the end, which is furrounded by fix white flamina, whose extremities are yellow. The root is of the bulbous kind, and refembles, in fhape, that of garlic, being much of the same size, but rounder, and having, like that, four or five cloves hanging together. The plant grows wild, and in confiderable abundance: the women are employed in collecting the roots at the beginning of August, which are afterward dried in the fun, and then laid up for use. On our second arrival, this

\* Gmelin, p. 41. Steller enumerates five different species of this plant.

harvest

harvest was just over, and had fallen much short of its usual produce. It is a common observation, amongst the Kamtschadales, that the bounty of Providence never fails them, for that fuch feafons as are most hurtful to the faranne, are always the most favourable for fishing; and that, on the contrary, a bad fishing month is always made up by the exuberance of the faranne harvest. It is used in cookery in various ways. When roafted in embers, it supplies the place of bread, better than any thing the country affords. After being baked in an oven, and pounded, it becomes an excellent fubflitute for flour and meal of every fort, and in this form is mixed in all their foups, and most of their other difhes. It is esteemed extremely nourishing; has a pleafant bitter tafte, and may be eaten every day without cloying. We used to boil these roots, and eat them as potatoes, either alone, or with our meat, and found them very wholesome and pleafant. It has been already mentioned, that this useful plant grows also at Oonalashka, where the roots of it are used, and constitute a considerable part of their food, in like manner as in Kamtschatka.

The other plant alluded to is called the fweet grass; the boranical description is Heracleum Sibericum foliis pinnatis, foliolis quinis, intermediis sessilibus, corollulis uniformibus. Hort. Upfal. 65. The time, I took particular notice of it, was in May, when it was about a foot and a half high, had much the appearance of fedge, and was covered with a white down, or duft, which looked exceedingly like the hoar-frost hanging upon it, and might be rubbed off: it tafted as fweet as fugar; but was hot and pungent. The stalk is hollow, and confists of three or four joints; from each of which arife large leaves, and, when at its full growth, is fix feet high.

This

This plant was formerly a principal ingredient in the cookery of most of the Kamtschadale dishes; but fince the Ruffians got poffession of the country, it has been almost entirely appropriated to the purpose of distillation. The manner in which it is gathered, prepared, and afterward diffilled, is as follows: having cut fuch stalks as have leaves growing on them, of a proper age (the principal stem, by the time the plant has attained its full growth, having become too dry for their purpose), and scraped off with shells the downy fubstance on their furface, they are laid in small heaps, till they begin to fweat and fmell. On growing dry again, they put them into facks made of matting; where, after remaining a few days, they are gradually covered with a fweet faccharine powder, which exudes from the hollow of the stalk. From thirty-fix pounds of the plant, in this state, they obtain no more than a quarter of a pound of powder. The women, whose province it is to collect and prepare the materials, are obliged to defend their hands with gloves whilft they are fcraping the ftalks, the rind they remove being of fo acrid a quality, as to blifter, and even ulcerate whatever it touches.

The *fpirit* is drawn from the plant in this ftate by the following process. After steeping bundles of it in hot water, they promote its fermentation in a small vessel, by the help of berries of the *gimolost*\*, or of the *golubitsa*†, being careful to close up well the mouth of the vessel, and to keep it in a warm place whilst the fermentation is going on, which is generally so violent as to occasion a considerable noise, and to agitate the vessel in which it is contained. After draw-

ing off this first liquor, they pour on more hot water, and make a second in the same manner. They then pour both liquor and herbs into a copper still, and draw off the spirit after the usual method. The liquor, thus obtained, is of the strength of brandy; and is called by the natives raka. Two pood (seventy-two pounds) of the plant yield generally one vedro (twenty-five pints) of raka.

Steller fays, that the fpirit diffilled from this plant, unfcraped, is exceedingly prejudicial to the health, and produces the most fudden and terrible nervous effects.

Besides these, Krascheninikoss mentions a variety of other plants, from whence the inhabitants prepare several decoctions; and which, being mixed with their sish, make palatable and wholesome ragouts. Such as the kipri\*, with which is brewed a pleasant common beverage; and, by boiling this plant and the sweet berb together, in the proportion of one to sive of the latter, and fermenting the liquor in the ordinary way, is obtained a strong and excellent vinegar. The leaves of it are used instead of tea; and the pith is dried and mixed in many of their dishes; the morkovai†, which is very like angelica; the kotkorica‡, the root of which they eat indifferently, green or dried; the ikoum §; the utchichlei ||, which is much eaten with sish: with many others.

It is faid, that the Kamtschadales (before their acquaintance with fire-arms), poisoned their spears and arrows with the juice of the root of the zgate ¶; and that wounds in-

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flicted

<sup>\*</sup> Lonicera pedunculis bifloris, floribus înfundibili formis, baccâ folitariâ, oblongâ, angulofâ. Gmel. Flor. Sib.

<sup>†</sup> Myrtillus grandis cæruleus.

<sup>\*</sup> Epilobium.

<sup>‡</sup> Tradescantia fructu molli edulo.

<sup>|</sup> Jacobea foliis cannabis. Steller.

<sup>+</sup> Chærephyllum seminibus levibus.

<sup>§</sup> Bistorta foliis ovatis, oblongis, acuminatis.

<sup>¶</sup> Anemonoides et ranunculus.

flicted by them are equally destructive to land and marine animals. The Tschutski are reported to use the same drug for this purpose at present.

I shall conclude this part of the natural history of Kamt-schatka with an account, from the same author, of three plants, which furnish the materials of all their manufactures. The first is the triticum radice perenni spiculis binis lanuginosis\*, which grows in abundance along the coast. Of the straw of this grass they make a strong fort of matting, which they use not only for their floors, but for sacks, bed-clothes, curtains, and a variety of other domestic purposes. Of the same materials they also make very neat little bags and baskets, of different forms, and for various uses.

The plant called bolotnaia, which grows in the marshes, and resembles cyperoides, is gathered in the autumn, and carded like wool, with a comb made of the bones of the seafwallow; with this, in lieu of linen and woollen clothes, they swathe their new-born infants, and use it for a covering next the skin whilst they are young. It is also made into a kind of wadding, and used for the purpose of giving additional warmth to various parts of their clothing.

There remains still a vulgar and well-known plant, which, as it contributes more effectually to their subsistence than all the rest put together, must not be passed over in silence. This is the nettle; which, as the country produces neither hemp nor flax, supplies the materials, of which are made their fishing-nets; and without which they could not possibly subsist. For this purpose they cut it down in August; and, after hanging it up in bundles in the shade, un-

\* Gmel. Sib. Tom. i. p. 119. Tab. XXV.

der their balagans, the remainder of the fummer, treat it like hemp. They then spin it into thread with their singers, and twist it round a spindle; after which they twine several threads together, according to the different purposes for which it may be designed.

Though there is little doubt but that many parts of this peninfula would admit of fuch cultivation as might contribute confiderably to the comfort of the inhabitants, yet its real riches must always consist in the number of wild animals it produces; and no labour can ever be turned to so good account as what is employed upon their furrieries. The animals, therefore, which supply these, come next to be considered: and these are, the common fox; the stoat, or ermine; the zibeline, or sable; the isatis, or arctic fox; the varying hare; the mountain rat, or earless marmot; the weasel; the glutton, or wolverene; the argali, or wild sheep; rein-deer; bears; wolves; dogs.

The fox \* is the most general object of the chace; and they are found in great numbers, and of variety of colours. The most common is the same in species with the European, with this variation, that the colours are more bright and shining; some are of a dark chesnut; others are striped with dark-coloured bars; others have the belly black, and the rest of the body of a light chesnut. Some again are of a very dark brown; some black; others of a stone colour; and there are a few quite white; but these last are very scarce. Their sur is exceedingly thick and sine, and of a quality much superior to those either of Siberia or America. A variety of artisices are made use of by the hunters to catch this animal, which, in all climates, seems to preserve the same character of craftiness and cunning.

\* Canis vulpes. X X 2

Traps

Traps of different forts, some calculated to fall upon them, others to catch them by the feet, others by the head, are amongst the most common; to which may be added, several ingenious contrivances for taking them in nets. Poisoned baits are likewise in use; and the nux vomica is the drug principally employed for this purpose. Before their knowledge of the Russians, by which they became acquainted with fire-arms, they also carried bows and arrows to the chace. But fince that period, almost every Kamtschadale is provided with a risle-barrel gun; and, though far from being dextrous in the use of it, its superiority over the former instruments he is ready to acknowledge.

The fables \* of Kamtschatka are faid to be confiderably larger than those of Siberia, and their fur much thicker and brighter, though not of fo good a black as those in the neighbourhood of the Olekma and the Vitime +, a circumstance which depreciates their value much more than their fuperiority in other respects enhances it. The fables of the Tigil and Ouka are counted the best in Kamtschatka; and a pair of these sometimes sell for thirty roubles (five pounds sterling). The worst are those of the Southern extremity. The apparatus of the fable hunters confift of a rifle-barrel gun of an exceedingly fmall bore, a net, and a few bricks: with the first they shoot them when they fee them on the trees; the net is to furround the hollow trees in which, when purfued, they take refuge; and the bricks are heated, and put into the cavities, in order to fmoke them out.

I must refer the Reader for an account of the *isatis*, or arctic fox, to Mr. Pennant's Arctic Zoology, as I never saw either the animal or the skin, which I understand they set no value upon. The varying hare t is also neglected on the same account. They are in great abundance; and, as is always the case with this species, turn quite white during the winter. Our shooting parties saw several of this colour the beginning of May, but found them so shy, that they were not able to get within gun-shot.

The mountain-rat, or earless marmot ‡, is a beautiful little animal, considerably smaller than a squirrel, and, like it, feeds upon roots, berries, the cedar-apple, &c. which it eats sitting upon its hind-legs, and holding them up to its mouth with the paws. Its skin is much valued by the Kamtschadales, is both warm and light, and of a bright shining colour, forming, like the plumage of some birds, various colours when viewed in different lights.

The ftoat, or *ermine* §, is here held in no eftimation, and, confequently, never engages the attention of the hunters, because, as I have heard, its fur is of an ordinary kind. I saw many of these little animals running about; and we bought several of their skins, which were of a bad white, and of a dirty yellow toward the belly. The common weasel || is also neglected, and for the same reason.

On the contrary, the skin of the glutton, or wolverene ¶, is here in the highest repute; insomuch, that a Kamtschadale looks upon himself as most richly attired, when a small quantity of this fur is seen upon him. The women adorn their hair with its pats, which are white, and con-

fidered

<sup>\*</sup> Mustela zibellina.

<sup>+</sup> Rivers emptying themselves into the Lena, near its source.

<sup>\*</sup> Canis lagopus.

§ Mustela erminea.

<sup>+</sup> Lepus timidus.

| Mustela nivalis.

<sup>‡</sup> Mus citellus.

¶ Urfus lufcus.

fidered as an extraordinary piece of finery; and they have a fuperstitious opinion, that the angels are clad with the skins of those animals. It is faid, that this creature is easily tamed, and taught a number of pleasant tricks.

Having already had occasion to speak, as fully as my own knowledge enables me, of the bears, and the method of killing them, I shall only here observe, that all those I saw were of a dun brown colour; that they are generally seen in companies of four or five together; that the time they are most abroad is during the season that the fish (which is their principal food) are pushing up from the sea into the rivers, and that they are seldom visible in the winter months.

Their skins are exceedingly useful. They make both excellent warm matrasses, and coverings for their beds; comfortable bonnets and gloves, and good collars for the dogs harness. Their slesh, and particularly the fat, is considered as great delicacies.

The wolves are only feen in the winter; at which feafon they prowl about, as I was told, in large companies, in fearch of prey.

There are rein-deer, both wild and tame, in feveral parts of the peninfula, but none in the neighbourhood of Awatfka. It is fomewhat fingular, that this nation should never have used the rein-deer for the purposes of carriage, in the same manner, as their neighbours, both to the North and the Eastward. Their dogs, indeed, seem fully sufficient for all the demands of the natives in their present state; and the breed of Russian horses will, probably, increase with the future necessities of the country. But when it is recollected, that the use of dogs, in a great measure, precludes them from the advantage of bringing up any other domestic animals, it will appear the more extraordinary, that they should not have adopted the services of an animal so much more gentle as well as powerful.

The argali, or wild mountain-sheep \*, an animal, I believe, unknown in Europe (except in Corfica and Sardinia), is here in great plenty. Its skin is like the deer's, but in gait and general appearance, it partakes more of the goat. It has two large twifted horns, fometimes weighing, when at full growth, from twenty-five to thirty pounds, which. in running, it rests upon its back. These creatures are exceedingly nimble and fwift, haunt only the most craggy and mountainous parts, and make their way among the fteepest rocks with an agility that is astonishing. The natives work their horns into fpoons, and fmall cups and platters; and have frequently one of a fmaller fize hanging to a belt, which ferves them to drink out of in their hunting expeditions. This animal is gregarious. I frequently tafted the flesh of them, and thought it had a very sweet and delicate flavour; but never had an opportunity of feeing one alive. I must, therefore, refer the Reader for a particular description of this beautiful animal (for such it is faid to be), to the Memoirs of the Academy of Petersburg, Tom. iv. tab. xiii.

<sup>\*</sup> Krascheninikoff relates, that this small animal frequently destroys deer, and the wild mountain-sheep, in the following way: they scatter at the bottom of trees bark and moss, which those animals are fond of; and whilst they are picking it up, drop suddenly upon them, and fastening behind the head, suck out their eyes.

<sup>+</sup> The Koriacks make use of a very simple method of catching bears. They suspend, between the forks of a tree, a running noose, within which they sasten a bait, which the animal, endeavouring to pull away, is caught sometimes by the neck, and sometimes by the paw.

<sup>\*</sup> Capra ammon, or wild fheep. Aret. Zool. i. p. 12.

I have already observed, that the dogs of this country are, in shape and mien, exceedingly like the Pomeranian, with this difference, that they are a great deal larger, and the hair fomewhat coarfer. They are of a variety of colours; but the most general is a light dun, or dirty cream-colour. Toward the end of May, they are all turned loofe, and left to provide for themselves through the summer, being sure to return to their respective homes when the snow begins to fall. Their food, in the winter, confifts entirely of the head, entrails, and back bones of falmon; which are put afide, and dried for that purpose; and with this diet they are fed but sparingly. The number of dogs must needs be very great, fince five are yoked to a fledge, and a fledge carries but one person; so that on our journey to Bolcheretfk, we required no fewer than an hundred and thirtynine, at the two stages of Karatchin and Natcheekin. It is also to be remarked, that they never make use of bitches for the draft, nor dogs, but those that are cut. The whelps are trained to this business, by being tied to stakes with light leathern thongs, which are made to ftretch, and having their victuals placed at a proper distance out of their reach; fo that, by conftantly pulling and labouring, in order to come at their food, they acquire both the strength of limbs, and the habit of drawing, that are necessary for their future destination.

The coast and bays of this country are frequented by almost every kind of Northern sea-fowl; and amongst the rest are the sea-eagles, but not, as at Oonalashka, in great numbers. The rivers inland (if I may judge from what I saw in our journey to Bolcheretsk), are stored with numerous slocks of wild-ducks of various species; one kind of which, in particular, has a most beautiful plumage, and is called,

by the natives, a-an-gitche, a word intended to express its cry, which is not less singular than agreeable, consisting of three distinct notes, rising, at equal intervals, above each other \*.

There is another species called the mountain duck †, which, Steller says, is peculiar to Kamtschatka. The drake is covered with plumage of extraordinary beauty. Besides these, we observed a variety of other water-sowl, which, from their size, seemed to be of the wild-goose kind.

In the woods through which we passed, were seen several eagles of a prodigious size; but of what species they were, I cannot pretend to determine. These are said to be of three different sorts: the black eagle, with a white head, tail, and legs ‡; of which the eaglets are as white as snow: the white eagle, so called, though, in fact, it is of a light grey: and the lead, or stone coloured eagle §, which is the most common; and probably those I saw were of this sort. Of the hawk, falcon, and bustard kind, there are great numbers.

This country likewise affords woodcocks, snipes, and two forts of grouse, or moor-game. Swans are also said to be in great plenty; and, in their entertainments, generally to make a part of the repast, though I do not remember to have seen one on any occasion. The vast abundance of wild-fowl, with which the country is stored, was manifest

\* Mr. Steller has made the following scale of its cry:



For a further account of this bird, I must refer the Reader to Krascheninikoss

+ Anas picta, capite pulchre fasciato. Steller.

‡ Falco leucocephalus. § Vultur albiulla

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Yу

from

from the numerous prefents we received from the *Toion* of St. Peter and St. Paul; and which fometimes confifted of twenty brace.

We met with no amphibious fea-animals on the coaft, except feals, with which the bay of Awatika fwarmed; as they were, at this time, in purfuit of the falmon that were collecting in shoals, and ready to ascend the rivers. Some of them are said to pursue the fish into the fresh water, and to be found in most of the lakes which communicate with the sea.

The fea-otters \* are exactly the fame with those we met with at Nootka Sound, which have been already fully defcribed, and where they are in great plenty. They are also said to have been formerly in equal abundance here; but, since the Russians have opened a trade for their skins to China, where they are sold at a price much beyond that of any other kind of fur, they have been hunted almost entirely out of the country. Amongst the Kurile islands they are still caught, though in no great numbers; but are of a superior quality to those of Kamtschatka, or the American coast.

We are informed, that, on Mednoi and Beering's Island, fcarce a fea-otter is now to be found; though it appears from Muller †, that, in his time, they were exceedingly plentiful.

The Ruffian voyagers make mention of a great variety of amphibious fea-animals, which are faid to frequent these coasts: the reason why we saw no other kinds might be, that this was the season of their migration.

Not having it in my power to treat these articles more fully, I conclude them with the less regret, since the inge-

\* Mustela lutris. + English translation, p. 59.

nious

nious Mr. Pennant has a work, almost ready for publication, intitled Arctic Zoology; in which the learned will receive full information concerning the animals of this peninsula. This gentleman has very obligingly communicated to me his Catalogue of Arctic Animals, with references to his Work, and permission to insert it. It will be found at the end of this Chapter; and I feel myself extremely happy in laying it before the Reader, and thereby presenting him with, what could have been furnished from no other quarter, one entire view of Kamtschadale zoology.

Fish may be considered as the staple article of food with which Providence hath supplied the inhabitants of this peninfula; who, in general, must never expect to draw any considerable part of their sustenance either from grain or cattle. It is true, the soil, as has been remarked, affords some good and nourishing roots, and every part of the country abounds in berries; but though these alone would be insufficient for the support of the people, yet, at the same time, they are necessary correctives of the putrescent quality of their dried sish. In short, sish may, with much greater justice, be here called the staff of life, than bread is in other countries; since it appears, that neither the inhabitants, nor the only domestic animal they have, the dog, could exist without it.

Whales are frequently feen, both in the fea of Okotzk, and on the fide of the Eastern ocean, and, when caught, are turned to a variety of uses. Of the skin they make the soles of their shoes, and straps and thongs for various other purposes. The slesh they eat, and the fat is carefully stored, both for kitchen use, and for their lamps. The whiskers are found to be the best materials for sewing to-

Y y 2

gether

gether the feams of their canoes; they likewife make nets of them for the larger kind of fish; and with the under jaw-bones their sledges are shod. They likewife work the bones into knives; and formerly the chains with which their dogs are tied, were made of that material, though at present iron ones are generally used. The intestines they clean, then blow and dry like bladders, and it is in these their oil and grease is stored; and of the nerves and veins, which are both strong, and slip readily, they make excellent snares; so that there is no part of the whale which here does not find its use.

From the middle of May, till our departure on the 24th of June, we caught great quantities of excellent flat fish, trout, and herrings. Upward of three hundred of the former, befides a number of fea-trout, were dragged out at one haul of the feine, the 15th of May. Thefe flat fish are firm, and of a good flavour, studded upon the back with round prickly knobs, like turbot, and ftreaked with dark brown lines, running from the head toward the tail. About the end of May the first herring season begins. They approach in great shoals, but do not remain long on the coast. They had entirely left the bay before we failed out of it the first time, but were beginning to revisit it again in October. It has been already mentioned, that the herrings were remarkably fine and large, and that we filled a great part of our empty casks with them. The beginning of June, large quantities of excellent cod were taken; a part of which were likewife falted. We caught too, at different times, numbers of fmall fish, much refembling a fmelt, and once drew out a wolf-fish.

Notwithstanding this abundance of flat-fish, cod, and herring, it is on the salmon fishery alone that the Kamtschadales fchadales depend for their winter provisions. Of these, it is said, by naturalists, there are to be found, on this coast, all the different species that are known to exist, and which the natives formerly characterized by the different months in which they ascend the rivers. They say too, that though the shoals of different forts are seen to mount the rivers at the same time, yet they never mix with each other; that they always return to the same river in which they were bred, but not till the third summer; that neither the male nor semale live to regain the sea; that certain species frequent certain rivers, and are never sound in others, though they empty themselves nearly at the same place.

The first shoals of falmon begin to enter the mouth of the Awatika about the middle of May; and this kind, which is called by the Kamtschadales Tchavitsi \*, is the largest and most valued. Their length is generally about three feet and a half; they are very deep in proportion, and their average weight is from thirty to forty pounds. The tail is not forked, but straight. The back is of a dark. blue, fpotted with black; in other respects they are much like our common falmon. They afcend the river with extraordinary velocity, infomuch that the water is fenfibly agitated by their motion; and the Kamtschadales, who are always on the watch for them about the time they are expected, judge of their approach by this circumstance, and immediately let drop their nets before them. We were presented with one of the first that was caught, and given to understand that it was the greatest compliment that could be paid us. Krascheninikoff relates, that formerly

the

<sup>\*</sup> Consult the introduction to the Arctic Zoology for a full account of the falmon tribe, which frequents Kamsfehatka.

the Kamtschadales made a point of eating the first fish they took, with great rejoicings, and a variety of superstitious ceremonies; and that after the Russians became their masters, it was for a long time a constant subject of quarrel between them, to whom the first should belong. The feason for fishing, for this species, lasts from the middle of May till the end of June.

The other fort is of a fmaller kind, weighing only from eight to fixteen pounds; they are known by the general name of the red fish, and begin to collect in the bays, and at the mouths of the rivers, the beginning of June; from which time, till the end of September, they are caught in great quantities both upon the Eastern and Western coast, where any fresh water falls into the fea, and likewise all along the course of the rivers, to their very source. The manner in which they draw their nets within the bay of Awatika, is as follows: They tie one end of the net to a large frone at the water's edge, they then push off in a canoe about twenty yards in a right line, dropping their net as they advance, after which they turn and run out the remainder of the net in a line parallel to the shore; in this position they wait, concealing themselves very carefully in the boat, and keeping a sharp look-out for the fish, which always direct their course close in with the shore, and whose approach is announced by a rippling in the water, till they find that the shoal has advanced beyond the boat, when they shoot the canoe to shore in a direct line, and never fail of inclofing their prey. Seldom more than two men are employed to a net, who haul with facility, in this manner, feines larger than ours, to which we appoint a dozen. We at first met with very poor fuccess in our own method of hauling; but after the Kamtschadales had very kindly

kindly put us in the way, we were not less successful than themselves. In the rivers, they shoot one net across, and haul another down the stream to it.

October.

The lakes that have a communication with the fea, which was the case of all those that I saw, abound with sish, that have very much the resemblance of small salmon, and are from four to six pounds weight. I could not understand that the inhabitants thought it worth their while to sish for them. As these lakes are not deep, they become an easy prey to the bears and dogs during the summer; and, if I might judge from the quantity of bones to be seen upon the banks, they devour vast numbers of them.

The inhabitants, for the most part, dry their salmon, and salt very little of it. Each sish is cut into three pieces, the belly-piece being sirst taken off, and afterward a slice along each side the back-bone. The former of these are dried and smoked, and esteemed the sinest part of the sish, and sold, when we were at St. Peter and St. Paul's, at the rate of one hundred for a rouble. The latter are dried in the air, and either eaten whole as bread, or reduced to powder, of which they make paste and cakes, that are not unpleasant to the taste. The head, tail, and bones, are hung up and dried for winter provision for the dogs.

List of the Animals found in Kamtschatka, communicated by Mr. Pennant \*.

	**	Argali, wild sheep, Arc	t. 2	Zool. 7	Capra ammon, Lin. Syft.	
		Vol. I			Capra ammon, Lin. Syst.	97.
		Ibex, or wild goat -	-	16.	Capra ibex	90.
	张米	Rein	-	22.	Cervus tarandus	93.
	**	Wolf	-	38.	Canis lupus	58.
	**	Dog	-	40.		7.
	**	Arctic fox -	-	42.	Canis lagopus	59.
	**	European fox -	-	45.	Canis vulpes	59.
		a. black -	-	46.		
		b. cross -	-	ib.		
•	米米	Polar bear, in the Fro	zen	fea ?	Ursus arctos	69.
		only	-	55.		og.
		Dear - "	-	57.	Ursus arctos	
		Wolverene -	-	66.	Urfus luscus	71.
	**	Common weafel -	-	75.	Mustela nivalis	69.
	**	otoat, or crimine -	-	ibid.	Mustela erminea	68.
	**	Sable	-	79.	Mustela zibellina	68.
	ale ste	Common otter -	-	86.	Mustela lutra	66.
	**	our otter	-	88.	Mustela lutris	66.
	**	Varying hare -	-	94.	Lepus timidus	
	ale de	Alpine hare -	-	97.		
	零零	Earless marmot -		-	Mus citellus	113.
		Bobak marmot -		115.		
		Water rat		130.		82.
		Common moufe -	-	131.	Mus musculus	83.

<sup>\*</sup> The quadrupeds and birds mentioned in this part of the voyage are marked in this lift with a double afterisk.

Oeconomic

Oeconomic moufe -	- 134.			THE
Red moufe -	- 136.			
Ichelag moufe -	- 138.			
Fœtid shrew -	- 139.	Sorex araneus -	-	74.
** Walrus. Icy fea -	- 144.	Trichechus rofmarus	-	49.
** Common feal -	- 151.	Phoca vitulina -	-	56.
Great-feal		2 Westing shart		
Leporine feal -		moundado V		
Harp feal	- 163.			191
Rubbon feal. Kurile	isles 165.	Marie Marie 19		J.
Urfine feal -		Phoca urfina -	-	58.
Leonine feal		and an analysis of the same of		
** Whale-tailed manati	- 177.			

There were no domestic animals in Kamtschatka, till they were introduced by the Russians. The dogs, which seem to be of wolf-ish descent, are aboriginal.

### B I R D S.

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<sup>\*</sup> The birds which are not described by Linnæus, are referred to the History of Birds, now publishing by Mr. Latham, Surgeon, in Dartford, Kent.

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Gambet	mile no	-	No. 394.	Tringa gambe	tta .	_	248.
Golden p	lover	-	No. 399.	Charadrius pl	uvialis		254.
Pied oyfte	r-catche	er	No.	Hæmatopus oft	A CONTRACTOR		
.002 - 2	Marganie	7	With pinnate	d Feet.			mo.
Plain pha	larope	10	conta ditto		a. gliff)		No
				AT .			

000	consolitate ink.	With	webbed	Feet.	mu bir	
	Wandering albatrofs	No.	423.	Diomedea exula	ns -	- 214.
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		No.		No.	Vol	Value I
	Parroquet			off - Tall		
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	Foolish guillemot -			Colymbus troille	1 -15	- 220.
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		No.		ON THE PARTY		100
	Imber diver		_	Colymbus immer		- 222.
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	Month		Zz			Great

	Great tern	-	No. 448.	Sterna birundo		
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			No. 477.	wing alberroid No.	hr	EVI
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		-	No. 490.	Anas bistrionica	-	204.
		-	No. 494.	Anas boschas -		205.
**	Western -		No. 497.	r guillener - No.		esil
		in	No. 500.	Anas acuta -	1	202.
**	Longtailed -		No. 501.	Anas glacialis -	-	203.
			AC DEL	0 1 - 9-00		della

<sup>\*</sup> I never faw this, but it is mentioned by Mr. Ellis. I had omitted it in my zoologic part; but it is mentioned in p. cxlviii, of the introduction.

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CHAP.

Morillon

### CHAP. VII.

General Account of Kamtschatka continued .- Of the Inhabitants .- Origin of the Kamtschadales .- Discovered by the Russians .- Abstract of their History .- Numbers .- Present State. - Of the Russian Commerce in Kamtschatka. - Of the Kamtschadale Habitations and Dress .- Of the Kurile Islands .- The Koreki .- The Tschutski.

HE present inhabitants of Kamtschatka are of three forts. The natives, or Kamtschadales. The Ruffians and Coffacks: and a mixture of these two by marriage.

Mr. Steller, who refided fome time in this country, and feems to have taken great pains to gain information on this fubject, is perfuaded, that the true Kamtfchadales are a people of great antiquity, and have for many ages inhabited this peninfula; and that they are originally descended from the Mungalians, and not either from the Tongufian Tartars, as fome, or the Japanese, as others have imagined.

The principal arguments, by which he supports these opinions, are: That there exists not among them the trace of a tradition of their having migrated from any other country: that they believe themselves to have been created and placed in this very fpot by their god Koutkou: that they

are the most favoured of his creatures; the most fortunate and happy of beings; and that their country is fuperior to all others, affording means of gratification far beyond what are any where elfe to be met with: that they have a perfect knowledge of all the plants of the country, their virtues and uses, which could not be acquired in a short time: that their inftruments and household utenfils differ greatly from those of any other nation, and are made with an extraordinary degree of neatness and dexterity, which implies that they are both of their own invention, and have been long in arriving at fo great perfection: that antecedently to the arrival of the Ruffians and Coffacks among them, they had not the fmallest knowledge of any people, except the Koreki: that it is but of late they had an intercourse with the Kuriles, and still later (and happened by means of a veffel being shipwrecked on their coast) that they knew any thing of the Japanese; and, lastly, that the country was very populous, at the time the Ruffians first got footing in it.

The reasons he alleges for supposing them to be originally descended from the Mungalians, are: That many words in their language have terminations fimilar to those of the Mungalian Chinese, such as, ong, ing, oing, tching, tcha, tchoing, kfi, kfung, &c.; and moreover, that the fame principle of inflexion or derivation obtains in both languages: that they are in general under-fized, as are the Mungalians: that their complexion, like theirs, is fwarthy: that they have black hair, little beard, the face broad, the nofe short and flat, the eyes fmall and funk, the eye-brows thin, the belly pendant, the legs fmall; all which are peculiarities that are to be found among the Mungalians. From the whole of which he draws this conclusion, that they fled for

fafety to this peninfula, from the rapid advances of the Eastern conquerors; as the Laplanders, the Samoides, &c. were compelled to retreat to the extremities of the North, by the Europeans.

The Russians having extended their conquests, and established posts and colonies along that immense extent of coast of the frozen sea, from the Jenesei to the Anadir, appointed commissaries for the purpose of exploring and subjecting the countries still farther Eastward. They soon became acquainted with the wandering Koriacs inhabiting the North and North East coast of the sea of Okotzk, and without difficulty made them tributary. These being the immediate neighbours of the Kamtschadales, and likewise in the habits of bartering with them, a knowledge of Kamtschatka followed of course.

The honour of the first discovery is given to Feodot Alexeieff, a merchant, who is faid to have failed from the river Kovyma, round the peninfula of the Tschutski, in company with feven other veffels, about the year 1648. The tradition goes, that being feparated from the rest by a ftorm, near the Tschukotskoi Noss, he was driven upon the coast of Kamtschatka, where he wintered; and the fummer following coafted round the promontory of Lopatka, into the fea of Okotzk, and entered the mouth of the Tigil; but that he and his companions were cut off by the Koriacs, in endeavouring to pass from thence by land to the Anadirík. This, in part, is corroborated by the accounts of Simeon Deshneff, who commanded one of the feven veffels, and was thrown on shore at the mouth of the Anadir. Be this as it may, fince thefe difcoverers, if fuch they were, did not live to make any report of what they had done, Volodimir Atlaffoff, a Coffack,

fack, flands for the first acknowledged discoverer of Kamtfchatka \*.

Octobe

This person was sent, in the year 1607, from the fort Jakutzk to the Anadirsk, in the quality of commissary, with instructions to call in the affistance of the Koriacs, with a view to the discovery of countries beyond theirs, and to the fubjecting them to a tribute. In 1699, he penetrated, with about fixty Ruffian foldiers, and the fame number of Coffacks, into the heart of the peninfula, gained the Tigil, and from thence levying a tribute in furs, in his progress croffed over to the River Kamtschatka, on which he built the higher Kamtschatka oftrog, called Verchnei, where he left a garrison of fixteen Coffacks, and returned to Jakutzk in 1700, with an immense quantity of rare and valuable tributary furs. Thefe he had the good fenfe and policy to accompany to Mofcow, and, in recompence for his fervices, was appointed Commander of the fort of Jakutzk, with farther orders to repair again to Kamtschatka, having first drawn from the garrison at Tobolsk a reinforcement of a hundred Coffacks, with ammunition, and whatever effe could give efficacy to the completion and fettlement of his late difcoveries. Advancing with this force toward the Anadirsk, he fell in with a bark on the River † Tunguska, laden with Chinese merchandize, which he pillaged; and, in confequence of a remonstrance from the fufferers to the Ruffian court, he was feized upon at Jakutzk, and thrown into prifon.

<sup>\*</sup> It is proper to remark, that Atlaffoff fent an advanced party, under the command of a fubaltern, called Lucas Molofkoff, who certainly penetrated into Kamtschatka, and returned with an account of his success, before Atlasfoff set out, and is therefore not unjustly mentioned as the Discoverer of Kamtschatka.

<sup>+</sup> This river empties itself into the Jenesei.

In the mean time, Potop Serioukoff, who had been left by Atlasfoff, kept peaceable possession of the garrison of Verchnei; and though he had not a fufficient force to compel the payment of a tribute from the natives, yet by his management and conciliating disposition, he continued to carry on an advantageous traffic with them as a merchant. On his return to the Anadirsk, with the general good-will of the natives of Kamtschatka, himself and party were attacked by the Koriacs, and unfortunately all cut off. This happened about 1703; and feveral other fucceffive commissaries were fent into Kamtschatka, with various fuccess, during the difgrace and trial of Atlaffoff.

In 1706, Atlaffoff was reinstated in his command, and appointed to conduct a fecond expedition into Kamtfchatka, with inftructions to gain upon the natives by all peaceable means, but on no pretence to have recourse to force and compulsion: but, instead of attending to his orders, he not only, by repeated acts of cruelty and injustice, made the natives exceedingly hoftile and averse to their new governors, but likewise so far alienated the affections of his own people, that it ended in a mutiny of the Coffacks, and their demand of another commander. The Coffacks having carried their point, in displacing Atlasfoff, seized upon his effects; and, after once tafting the fweets of plunder, and of living without discipline or controul, in vain did his fucceffors attempt to reduce them to military discipline and fubjection. Three fucceffive commanders were affaffinated in their turn; and the Coffacks, being thus in open rebellion to the Ruffian government, and with arms in their hands, were let loofe upon the natives. The history of this country from that period, till the grand revolt of the Kamtschadales in 1731, presents one unvaried detail of masfacres.

facres, revolts, and favage and fanguinary rencounters between fmall parties, from one end of the peninfula to the other.

What led to this revolt, was the discovery of a passage from Okotzk to the Bolchoireka, which was first made by Cosmo Sokoloff, in the year 1715. Hitherto the Russians had no entrance into the country, but on the fide of Anadirfk; fo that the natives had frequent opportunities of both plundering the tribute, as it was carried by fo long a journey out of the peninfula, and haraffing the troops in their march into it. But by the discovery of this communication, there existed a safe and speedy means, as well of exporting the tribute, as of importing troops and military ftores into the very heart of the country; which the natives eafily faw gave the Ruffians fo great an advantage, as must foon confirm their dominion, and therefore determined them to make one grand and immediate struggle for their liberty. The moment refolved upon, for carrying their defigns into execution, was when Beering should have fet fail, who was at this time on the coast with a small squadron, and had dispatched all the troops that could well be spared from the country, to join Powloutski, in an expedition against the Tschutski. The opportunity was well chosen; and it is altogether furprizing, that this conspiracy, which was fo general, that every native in the peninfula is faid to have had his share in it, was at the same time conducted with fuch fecrecy, that the Ruffians had not the fmalleft fuspicion that any thing hostile to their interests was in agitation. Their other measures were equally well taken. They had a ftrong body in readiness to cut off all communication with the fort Anadirsk; and the Eastern coast was likewise lined with detached parties, with a view of seizing

on any Ruffians that might by accident arrive from Okotzk. Things were in this state, when the commissary Cheekhaerdin marched from Verchnei with his tribute, efcorted by the troops of the fort, for the mouth of the Kamtfchatka River, where a veffel was lying to convey them to the Anadir. Besides waiting for the departure of Beering, the revolt was to be fufpended till this veffel should be out at fea, notice of which was to be given to the different Chiefs. Accordingly, the moment she was out of fight, they began to maffacre every Ruffian and Coffack that came in their way, and to fet fire to their houses. A large body afcended the River Kamtschatka, made themselves masters of the fort and oftrog the commissary had just quitted, put to death all that were in it, and, except the church and the fort, reduced the whole to ashes. Here it was that they first learned that the Ruffian veffel, in which the commiffary had embarked, was ftill on the coast, which determined them to defend themselves in the fort. The wind fortunately foon brought the veffel back to the harbour; for had she proceeded in her voyage, nothing probably could have prevented the utter extirpation of the Ruffians. The Coffacks finding, on their landing, that their houses had been burnt to the ground, and their wives and children either maffacred or carried off prisoners, were enraged to madness. They marched directly to the fort, which they attacked with great fury, and the natives as resolutely defended, till at length the powder-magazine taking fire, the fort was blown up, together with most of those that were in it. Various rencounters fucceeded to this event, in which much blood was spilled on both fides: at length, two of the principal leaders being flain, and the third (after dispatching his wife and children, to prevent their falling into the enemy's

enemy's hand) having put an end to himfelf, peace was established.

From that period every thing went on very peaceably, till the year 1740, when a few Russians lost their lives in a tumult, which was attended with no farther consequences; and, except the insurrection at Bolcheretsk in 1770 (which hath been already noticed), there has been no disturbance fince.

Though the quelling the rebellion of 1731 was attended with the loss of a great number of inhabitants, yet I was informed, that the country had recovered itself, and was become more populous than ever, when, in the year 1767, the fmall-pox, brought by a foldier from Okotzk, broke out among them for the first time, marking its progress with ravages not lefs dreadful than the plague, and feeming to threaten their entire extirpation. They compute that near twenty thousand died of this disorder in Kamtschatka, the Koreki country, and the Kurile islands. The inhabitants of whole villages were fwept away. Of this we had fufficient proofs before our eyes. There are no less than eight offrogs fcattered about the bay of Awatika, all which, we were informed, had been fully inhabited, but are now entirely defolate, except St. Peter and St. Paul; and even that contains no more than feven Kamtschadales, who are tributary. At Paratounca oftrog there are but thirty-fix native inhabitants, men, women, and children, which, before it was vifited by the fmall-pox, we were told, contained three hundred and fixty. In our road to Bolcheretik, we passed four extensive oftrogs, with not an inhabitant in them. In the prefent diminished state of the natives, with fresh supplies of Rusfians and Coffacks perpetually pouring in, and who intermix with them by marriage, it is probable, that in lefs

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than half a century there will be very few of them left. By Major Behm's account, there are not now more than three thousand who pay tribute, the Kurile islanders included.

I understood that there are at this time, of the military, in the five forts of Nichnei, Verchnei, Tigil, Bolcheretsk, and St. Peter and St. Paul, about four hundred Russians and Cossacks, and near the same number at Ingiga, which, though to the North of the peninsula, is, I learned, at prefent under the Commander of Kamtschatka; to these may be added the Russian traders and emigrants, whose numbers are not very considerable.

The Ruffian government, established over this country, is mild and equitable, considered as a military one, in a very high degree. The natives are permitted to choose their own magistrates from among themselves, in the way, and with the same powers they had ever been used. One of these, under the title of Toion, presides over each ostrog; is the referee in all differences; imposes sines, and inslicts punishments for all crimes and misdemeanors; referring to the governor of Kamtschatka such only as he does not choose, from their intricacy or heinousness, to decide upon himself. The Toion has likewise the appointment of a civil officer, called a Corporal, who assists him in the execution of his office, and in his absence acts as his deputy.

By an edict of the present Empress, no crime whatsoever can be punished with death. But we were informed, that in cases of murder (of which there are very few), the punishment of the *knout* is administered with such severity, that the offender, for the most part, dies under it.

The only tribute exacted (which can be confidered as

little more than an acknowledgment of the Ruffian dominion over them) confifts, in some districts, of a fox's skin, in others of a fable's, and in the Kurile ifles of a fea otter's; but as this is much the most valuable, one skin serves to pay the tribute of feveral persons. The Toions collect the tribute in their respective districts. Besides the mildness of their government, the Ruffians have a claim to every praife for the pains they have bestowed, and which have been attended with great fuccess, in converting them to Christianity, there remaining, at present, very few idolaters among them. If we may judge of the other missionaries, from the hospitable and benevolent pastor of Paratounca (who is a native on the mother's fide), more fuitable perfons could not be fet over this business. It is needless to add, that the religion taught is that of the Greek church. Schools are likewise established in many of the ostrogs, where the children of both the natives and Coffacks are gratuitoufly inftructed in the Ruffian language.

The commerce of this country, as far as concerns the exports, is entirely confined to furs, and carried on principally by a company of merchants, inftituted by the prefent Empress. This company originally consisted of twelve, and three have been lately added to it. They are indulged with certain privileges, and distinguished by wearing a golden medal, as a mark of the Empress's encouragement and protection of the fur-trade. Besides these, there are many inferior traders (particularly of the Cossacks) scattered through the country. The principal merchants, for the time they are here, reside at Bolcheretsk, or the Nichnei oftrog, in which two places the trade almost wholly centers. Formerly this commerce was altogether carried on in the way of barter, but of late years every article is bought and sold

for ready money only; and we were furprized at the quantity of specie in circulation in so poor a country. The furs fell at a high price, and the fituation and habits of life of the natives call for few articles in return. Our failors brought a great number of furs with them from the coast of America, and were not less astonished than delighted with the quantity of filver the merchants paid down for them; but on finding neither gin-shops to refort to, nor tobacco, or any thing elfe that they cared for, to be had for money, the roubles foon became troublefome companions, and I often observed them kicking them about the deck. The merchant I have already had occasion to mention, gave our men at first thirty roubles for a sea-otter's skin, and for others in proportion; but finding that they had confiderable quantities to dispose of, and that he had men to deal with who did not know how to keep up the market, he afterward bought them for much lefs.

The articles of importation are principally European, but not confined to Ruffian manufactures; many are English and Dutch; feveral likewife come from Siberia, Bucharia, the Calmucks, and China. They confift of coarfe woollen and linen clothes, yarn stockings, bonnets, and gloves; thin Persian silks; cottons, and pieces of nankeen, silk and cotton handkerchiefs; brafs coppers and pans, iron floves, files, guns, powder and fhot; hardware, fuch as hatchets, bills, knives, sciffars, needles, looking-glasses; flour, sugar; tanned hides, boots, &c. We had an opportunity of feeing a great many of these articles in the hands of a merchant, who came in the Empress's galliot from Okotzk; and I shall only observe generally, that they fold for treble the price they might have been purchased for in England. And though the merchants have fo large a profit upon these imported

imported goods, they have a still larger upon the furs at Kiachta, upon the frontiers of China, which is the great market for them. The best fea-otter skins fell generally in Kamtschatka, for about thirty roubles apiece. The Chinese merchant at Kiachta purchases them at more than double that price, and fells them again at Pekin at a great advance, where a farther profitable trade is made with fome of them to Japan. If, therefore, a skin is worth thirty roubles in Kamtschatka, to be transported first to Okotzk, thence to be conveyed by land to Kiachta, a distance of one thousand three hundred and fixty-four miles, thence on to Pekin, feven hundred and fixty miles more, and after this to be transported to Japan, what a prodigiously advantageous trade might be carried on between this place and Japan, which is but about a fortnight's, at most three weeks, fail from it!

All furs exported from hence across the sea of Okotzk, pay a duty of ten per cent. and sables a duty of twelve. And all forts of merchandize, of whatever denomination, imported from Okotzk, pay half a rouble for every pood \*\*.

The duties arifing from the exports and imports, of which I could not learn the amount, are paid at Okotzk: but the tribute is collected at Bolcheretsk; and, I was informed by Major Behm, amounted in value to ten thousand roubles annually.

There are fix veffels (of forty to fifty tons burthen) employed by the Empress between Okotzk and Bolcheretsk; five of which are appropriated to the transporting of stores and provisions from Okotzk to Bolcheretsk; except that once in two or three years, some of them go round to Awat-

\* Thirty-fix pounds English.

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fka, and the Kamtschatka River; the fixth is only used as a packet-boat, and always kept in readiness, and properly equipped for conveying dispatches. Besides these, there are about fourteen vessels employed by the merchants in the fur-trade, amongst the islands to the Eastward. One of these we found frozen up in the harbour of St. Peter and St. Paul, which was to sail on a trading voyage to Oonalashka, as soon as the season would permit.

It is here to be observed, that the most considerable and valuable part of the fur-trade is carried on with the islands that lie between Kamtschatka and America. These were first discovered by Beering, in 1741, and being found to abound with fea-otters, the Ruffian merchants became exceedingly eager in fearching for the other islands feen by that navigator, to the South East of Kamtschatka, called, in Muller's Map, the Islands of Seduction, St. Abraham, &c. In these expeditions they fell in with three groups of islands. The first about fifteen degrees to the East of Kamtfchatka, in 53° North latitude; the fecond about twelve degrees to the Eastward of the former; and the third, Oonalashka, and the islands in its neighbourhood. These trading adventurers advanced also as far East as Shumagin's Islands (fo called by Beering), the largest of which is named Kodiak. But here, as well as on the continent at Alashka, they met with fo warm a reception in their attempts to compel the payment of a tribute, that they never afterward ventured fo far. However they conquered and made tributary the three groups before mentioned.

In the Ruffian charts, the whole fea between Kamtschatka and America is covered with islands; for the adventurers in these expeditions frequently falling in with land, which they imagined did not agree with the situation of other laid

laid down by preceding voyagers, immediately concluded it must be a new discovery, and reported it as such on their return; and, since the vessels employed in these expeditions were usually out three or four years, and oftentimes longer, these mistakes were not in the way of being soon rectified. It is however now pretty certain, that the islands already enumerated are all that have yet been discovered, by the Russians, in that sea, to the Southward of 60° of latitude.

It is from these islands that the sea-otter skins, the most valuable article of the fur-trade, are for the most part drawn; and as they are brought completely under the Ruffian dominion, the merchants have fettlements upon them, where their factors refide, for the purpose of bartering with the natives. It was with a view to the farther increase and extension of this trade, that the Admiralty of Okotzk fitted out an expedition for the purpose of making discoveries to the North and North East of the islands above-mentioned, and gave the command of it, as I have already observed, to Lieutenant Synd. This gentleman, having directed his course too far to the Northward, failed in the object of his voyage; for, as we never faw the fea-otter to the Northward of Bristol Bay, it seems probable, that they shun those latitudes where the larger kind of amphibious fea-animals abound. This was the last expedition undertaken by the Ruffians for profecuting discoveries to the Eastward; but they will undoubtedly make a proper use of the advantages we have opened to them, by the difcovery of Cook's river.

Notwithstanding the general intercourse that, for the last forty years, hath taken place between the natives, the Russians, and Cossacks, the former are not more distinguished.

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guished from the latter by their features and general figure, than by their habits and cast of mind. Of the persons of the natives, a description hath been already given, and I shall only add, that their stature is much below the common fize. This Major Behm attributes, in a great measure, to their marrying fo early; both fexes generally entering into the conjugal state at the age of thirteen or fourteen. Their industry is abundantly conspicuous, without being contrasted with the laziness of their Russian and Cossack inmates, who are fond of intermarrying with them, and, as it should seem, for no other reason, but that they may be supported in floth and inactivity. To this want of bodily exertion may be attributed those dreadful scorbutic complaints, which none of them escape; whilst the natives, by constant exercise and toil in the open air, are entirely free from them.

Referring the reader, for an account of the manners, cuftoms, and fuperstitions of the Kamtschadales, at the time the Russians became first acquainted with this country, to Krascheninikoff, I shall proceed to a description of their habitations and dress.

The houses (if they may be allowed that name) are of three distinct forts, jourts, balagans, and loghouses, called here isbas. The first are their winter, the second their summer habitations; the third are altogether of Russian introduction, and inhabited only by the better and wealthier fort.

The jourts, or winter habitations, are constructed in the following manner: An oblong square, of dimensions proportioned to the number of persons for whom it is intended (for it is proper to observe, that several families live together in the same jourt) is dug in the earth to the depth of about

about fix feet. Within this fpace, ftrong posts, or wooden pillars, are fastened in the ground, at proper distances from each other, on which are extended the beams for the fupport of the roof, which is formed by joifts, resting on the ground with one end, and on the beams with the other. The interftices between the joifts are filled up with a ftrong wicker-work, and the whole covered with turf; fo that a jourt has externally the appearance of a round fquat hillock. A hole is left in the centre, which ferves for chimney, window, and entrance, and the inhabitants pass in and out by means of a ftrong pole (inftead of a ladder) notched just deep enough to afford a little holding to the toe. There is likewise another entrance in the side, even with the ground, for the convenience of the women; but if a man makes use of it, he subjects himself to the same disgrace and derifion, as a failor would, who defcends through lubbershole. The jourt confifts of one apartment, of the form of an oblong fquare. Along the fides are extended broad platforms made of boards, and raifed about fix inches from the ground, which they use as feats, and on which they go to rest, after strewing them with mats and skins. On one side is the fire-place, and the fide opposite is entirely fet apart for the stowage of provisions and kitchen utenfils. At their feafts, and ceremonious entertainments, the hotter the jourts are made for the reception of the guests, the greater the compliment. We found them at all times fo hot, as to make any length of ftay in them to us intolerable. They betake themselves to the jourts the middle of October; and, for the most part, continue in them till the middle of

The balagans are raifed upon nine posts, fixed into the earth in three rows, at equal distances from one another,



ther, and about thirteen feet high from the furface. At the height of between nine and ten feet, rafters are paffed from post to post, and firmly secured by strong ropes. On these rafters are laid the joists, and the whole being covered with turf, constitutes the platform or floor of the balagan. On this is raifed a roof of a conical figure, by means of tall poles, fastened down to the rafters at one end, and meeting together in a point at the top, and thatched over with ftrong coarse grass. The balagans have two doors placed opposite each other, and they ascend to them by the same fort of ladders they use in the jourts. The lower part is left entirely open; and within it they dry their fish, roots, vegetables, and other articles of winter confumption. The proportion of jourts to balagans, is as one to fix; fo that fix families generally live together in one jourt.

The loghouses (isbas) are raised with long timbers piled horizontally, the ends being let into one another, and the feams caulked with mofs. The roof is floping like that of our common cottage-houses, and thatched with coarse grass or rushes. The infide confists of three apartments. At one end is what may be called the entry, which runs the whole width and height of the house, and is the receptacle of their fledges, harnefs, and other more bulky gears and household stuff. This communicates with the middle and best apartment, furnished with broad benches, for the purpose, as hath been above mentioned, of both eating and fleeping upon. Out of this is a door into the kitchen, one half of which is taken up by the oven or fire-place, fo contrived, by being let into the wall that feparates the kitchen and the middle apartment, as to warm both at the fame time. Over the middle apartment and kitchen are

two lofts, to which they afcend by a ladder placed in the entry. There are two small windows in each apartment, made of talc, and in the houses of the poorer fort, of sishin. The beams and boards of the cieling are dubbed smooth with a hatchet (for they are unacquainted with the plane), and from the effects of the smoke are as black and shining as jet.

A town of Kamtschatka is called an ostrog, and consists of several of the three forts of houses above described; but of which balagans are much the most numerous; and I must observe, that I never met with a house of any kind detached from an ostrog. Saint Peter and Saint Paul consists of seven loghouses, or isbas, nineteen balagans, and three jourts. Paratounca is of about the same size. Karatchin and Natcheekin contain sewer loghouses, but full as many jourts and balagans as the former; from whence I conclude, that such is the usual size of the ostrogs.

Having already had occasion to mention the dress of the Kamtschadale women, I shall here confine myself to a defcription of that of the men.

The outermost garment is of the shape of a carter's frock. Those worn in summer are of nankeen; in winter they are made of skins, most commonly of the deer or dog, tanned on one side, the hair being left on the other, which is worn innermost. Under this is a close jacket of nankeen, or other cotton stuffs, and beneath that a shirt of thin Persian silk, of a blue, red, or yellow colour. The remaining part of their dress consists of a pair of tight trowsers, or long breeches, of leather, reaching down to the calf of the leg; of a pair of dog or deer skin boots, with the hair innermost; and of a fur cap, with two slaps, which are generally

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tied up close to the head, but in bad weather are let to fall round the shoulders.

The fur dress presented to me by a son of Major Behm (as already mentioned) is one of those worn by the Toions, on ceremonious occasions. The form exactly refembles that of the common exterior garment just described. It is made of fmall triangular pieces of fur, chequered brown and white, and joined fo neatly as to appear to be one fkin. A border of fix inches breadth, wrought with threads of different-coloured leather, and producing a rich effect, furrounds the bottom, to which is fufpended a broad edging of the fea-otter skin. The fleeves are turned up with the fame materials; and there is likewife an edging of it round the neck, and down the opening at the breaft. The lining is of a fmooth white skin. A cap, a pair of gloves, and boots, wrought with the utmost degree of neatness, and made of the fame materials, conftitute the remainder of this fuit. The Ruffians in Kamtschatka wear the European drefs; and the uniform of the troops quartered here, is of a dark green, faced with red.

As the people fituated to the North and South of this country are yet imperfectly known, I shall conclude the account of Kamtschatka with such information concerning the Kurile Islands, and the Koreki and Tschutski, as I have been able to acquire.

The chain of islands, running in a South West direction from the Southern promontory of Kamtschatka to Japan, extending from latitude 51° to 45°, are called the Kuriles. They obtained this name from the inhabitants of the neighbourhood of Lopatka, who being themselves called Kuriles, gave their own name to these islands, on first becoming

coming acquainted with them. They are, according to Spanberg, twenty-two in number, without reckoning the very fmall ones. The Northernmost, called Shoomska, is not more than three leagues from the promontory Lopatka, and its inhabitants are a mixture of natives and Kamtfchadales. The next to the South, called Paramoufir, is much larger than Shoomska, and inhabited by the true natives; their ancestors, according to a tradition among them, having come from an island a little farther to the South, called Onecutan. Those two islands were first visited by the Ruffians in 1713, and at the fame time brought under their dominion. The others, in order, are at prefent made tributary, down to Ooshesheer inclusive, as I am informed by the worthy Pastor of Paratounca, who is their Missionary, and visits them once in three years, and speaks of the islanders in terms of the highest commendation, representing them as a friendly, hospitable, generous, humane race of people, and excelling their Kamtschadale neighbours, not less in the formation of their bodies, than in docility and quickness of understanding. Though Ooshesheer is the Southernmost island that the Russians have yet brought under their dominion, yet I understand that they trade to Ooroop, which is the eighteenth; and, according to their accounts, the only one where there is a good harbour for ships of burthen. Beyond this, to the South, lies Nadeegfda, which was reprefented to us by the Ruffians, as inhabited by a race of men remarkably hairy, and who, like those of Ooroop, live in a state of entire independence \*.

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<sup>\*</sup> Spanberg places the island here spoken of in 43° 50' North latitude, and mentions his having watered upon it; and that this watering party brought off eight of the natives; of whom he relates the following circumstances: That their bodies were co-Vol. III.

In the fame direction, but inclining fomething more to the Westward, lies a group of islands, which the Japanese call Jeso; a name which they also give to the whole chain of islands between Kamtschatka and Japan. The Southernmost, called Matmai, hath been long subject to the Japanese, and is fortisted and garrisoned on the side toward the continent. The two islands to the North East of Matmai, Kunachir, and Zellany, and likewise the three still farther to the North East, called the Three Sisters, are perfectly independent.

A trade of barter is carried on between Matmai and the islands last mentioned; and between those again and the Kuriles, to the Northward; in which, for furs, dried fish, and oil, the latter get filk, cotton, iron, and Japanese articles of furniture \*.

The inhabitants of as many of the islands as are brought under the Russian dominion, are, at present, converted to Christianity. And probably the time is not very distant,

vered all over with hair; that they wore a loofe striped silk gown, reaching as low as their ankles; and that some of them had silver rings pendant from the ears: that, on spying a live cock on deck, they fell on their knees before it; and likewise, before the presents that were brought out to them, closing and stretching forth their hands, and bowing their heads, at the same time, down to the ground; that, except the peculiarity of their hairiness, they resembled the other Kurile islanders in their features and sigure, and spoke the same language. The journal of the ship Castricom also mentions this circumstance, of the inhabitants of the country discovered by them, and called Jeso, being hairy all over the body.

\* This accounts for what Krascheninikoff says, that he got from Paramousir a japanned table and vase, a scymeter, and a silver ring, which he sent to the cabinet of her Imperial Majesty at Petersburg. And if what Mr. Steller mentions, on the authority of a Kurile, who was interpreter to Spanberg in his voyage to Japan, is to be credited, that nearly the same language is spoken at Kunashir and Paramousir, it cannot be questioned, that some intercourse has always subsisted between the inhabitants of this extensive chain of islands.

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when a friendly and profitable intercourse will be brought about between Kamtschatka and the whole of this chain of islands; and which will draw after it a communication with Japan itself. This may eventually be greatly facilitated by a circumstance related to me by Major Behm, that several Russians, who had been taught the Japanese language, by two men belonging to a vessel of that nation, which had been \*shipwrecked on the coast of Kamtschatka, had been fent among those islands.

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\* The veffel here fpoken of was from Satíma, a port in Japan, bound for another Japanese port, called Azaka, and laden with rice, cotton, and filks. She sailed with a savourable wind; but, before she reached her destination, was driven out to sea by a violent storm, which carried away her masts and rudder.

On the storm's abating, not one of the crew, which confisted of seventeen (having probably never made other than coafting voyages), knew where they were, or what course to fteer. After remaining in this fituation fix months, they were driven on shore near the promontory Lopatka; and having cast out an anchor, began to carry on shore such articles as were necessary to their existence. They next erected a tent, and had remained in it twenty-three days, without feeing a human being; when chance conducted a Coffack officer, called Andrew Chinnikoff, with a few Kamtschadales, to their habitation. The poor unfortunate Japanese, overwhelmed with joy at the fight of fellow-creatures, made the most fignificant tenders, they were able, of friendship and affection; and prefented their vifiters with filks, fabres, and a part of whatever elfe they had brought from the ship. The treacherous Chinnikoff made reciprocal returns of kindness and goodwill; and, after remaining with them long enough to make fuch observations as fuited his defigns, withdrew from them in the night. The Japanese, finding that their visiters did not return, knew not what course to take. In despair they manned their boat, and were rowing along the coast in search of a habitation, when they came up with their vessel, which had been driven ashore; and found Chinnikoff and his companions pillaging her, and pulling her in pieces for the fake of the iron. This fight determined them to continue their course, which Chinnikoff perceiving, ordered his men to pursue and massacre them. The unfortunate Japanese, seeing a canoe in pursuit, and which they could not escape, apprehended what was to follow. Some of them leaped into the sea; others, in vain, had recourse to prayers and intreaties. They were all massacred but two, by the very fabres they had presented to their supposed friends a few days before. One of the two was a boy about eleven years old, named Gowga, who had accompanied his father, the

The advantages that would accrue to the Ruffians by an immediate trade to Japan, have been already adverted to, and are too many, and too obvious, to need infifting upon.

The Koreki country includes two diffinct nations, called the Wandering and Fixed Koriacs.

The former inhabit the Northern part of the isthmus of Kamtschatka, and the whole coast of the Eastern ocean, from thence to the Anadir.

The country of the Wandering Koriacs stretches along the North East of the sea of Okotzk to the river Penskina, and Westward toward the river Kovyma.

The Fixed Koriacs have a strong resemblance to the Kamtschadales; and, like them, depend altogether on fishing for subsistence. Their dress and habitations are of the same kind. They are tributary to the Russians, and under the district of the Ingiga.

The Wandering Koriacs occupy themselves entirely in breeding and pasturing deer, of which they are said to possess immense numbers; and that it is no unusual thing for an individual Chief to have a herd of sour or sive thousand. They despise sish, and live entirely on deer. They have no balagans; and their only habitations are

fhip's pilot, to learn navigation; the other was a middle-aged man, the fupercargo, and called Sofa.

Chinnikoff foon met with the punishment due to his crimes. The two strangers were conducted to Petersburg, where they were sent to the academy, with proper instructors and attendants; and several young men were, at the same time, put about them for the purpose of learning the Japanese language.

They were thrown on the coast of Kamtschatka in 1730. The younger survived the absence from his country five, the other six years. Their portraits are to be seen in the cabinet of the empress at Petersburg.—Vid. Krascheninikoss, Vol. ii. part 4. Fr. Ed.

like the Kamtschadale jourts, with this difference, that they are covered with raw deer-skins in winter, and tanned ones in summer. Their sledges are drawn by deer, and never by dogs; which, like the latter, are likewise always spayed, in order to be trained to this business. The draft deer pasture in company with the others; and when they are wanted, the herdsmen make use of a certain cry, which they instantly obey, by coming out of the herd.

The priest of Paratounca informed me, that the two nations of the Koriacs, and the Tschutski, speak different dialects of the same language; and that it bears not the smallest resemblance to the Kamtschadale.

The country of the Tschutski is bounded on the South by the Anadir, and extends along the coast to the Tschutskoi Noss. Like the Wandering Koriacs, their attention is principally confined to their deer, of which their country affords great numbers, both tame and wild. They are a stout, well-made, bold, warlike race of people; redoubtable neighbours to both nations of the Koriacs, who often feel the effects of their depredatory incursions. The Russians have, for many years, been using their endeavours to bring them under their dominion; and, after losing a great many men in their different expeditions for this purpose, have not been able to effect it.

I shall here conclude this article, since all we can say of this people, on our own knowledge, hath been laid before the Reader in the preceding Volume.

### THE PACIFIC OCEAN.

### CHAP. VIII.

Plan of our future Proceedings .- Course to the Southward, along the Coast of Kamtschatka.-Cape Lopatka.-Pass the Islands Shoomska and Paramousir.—Driven to the Eastward of the Kuriles.—Singular Situation with respect to the pretended Discoveries of former Navigators .- Fruitless Attempts to reach the Islands North of Japan .- Geographical Conclusions .- View of the Coast of Japan .- Run along the East Side .- Pass two Japanese Vessels .- Driven off the Coast by contrary Winds .- Extraordinary Effect of Currents .-Steer for the Bashees .- Pass large Quantities of Pumice Stone.—Discover Sulphur Island.—Pass the Pratas.—Isles of Lema, and Ladrone Island .- Chinese Pilot taken on board the Resolution .- fournals of the Officers and Men secured.

UR instructions from the Board of Admiralty having left a discretionary power with the commanding Of-Saturday 9. ficer of the expedition, in case of failure in the search of a paffage from the Pacific into the Atlantic Ocean, to return to England, by whatever route he should think best for the farther improvement of geography; Captain Gore demanded of the principal officers their fentiments, in writing, respecting the manner in which these orders might most effectually be obeyed. The refult of our opinions, which

which he had the fatisfaction to find unanimous, and entirely coinciding with his own, was, that the condition of the ships, of the fails and cordage, made it unsafe to attempt, at fo advanced a feafon of the year, to navigate the fea between Japan and Afia; which would otherwise have afforded the largest field for discovery; that it was therefore adviseable to keep to the Eastward of that island, and in our way thither to run along the Kuriles, and examine more particularly the iflands that lie nearest the Northern coast of Japan, which are represented as of a considerable fize, and independent of the Ruffian and Japanese governments. Should we be fo fortunate as to find in these any fafe and commodious harbours, we conceived they might be of importance, either as places of shelter for any future navigators, who may be employed in exploring the feas, or as the means of opening a commercial intercourse among the neighbouring dominions of the two empires. Our next object was to furvey the coast of the Japanese Islands, and afterward to make the coast of China, as far to the Northward as we were able, and run along it to Macao.

This plan being adopted, I received orders from Captain Gore, in case of separation, to proceed immediately to Macao; and at fix o'clock in the evening of the 9th of Oc- Saturday 9. tober, having cleared the entrance of Awatika Bay, we fleered to the South East, with the wind North West and by West. At midnight we had a dead calm, which continued till noon of the 10th; the light-house, at this time, Sunday 10. bearing North half West, distant five leagues, and Cape Gavareea South by West half West. Being luckily in foundings of fixty and feventy fathoms water, we employed our time very profitably in catching cod, which were exceed-

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ingly fine and plentiful; and at three in the afternoon, a breeze fprung up from the West, with which we stood along the coast to the Southward. A head-land, bearing South by West, now opened with Cape Gavareea, lying about feven leagues beyond it. Between them are two narrow but deep inlets, which may probably unite behind what appears to be an high island. The coast of these inlets is fleep and cliffy. The hills break abruptly, and form chasms and deep vallies, which are well wooded. Between Cape Gavareea (which lies in latitude 52° 21', longitude 158° 38') and Awatika Bay, there are appearances of feveral inlets, which at first fight may flatter the mariner with hopes of finding shelter and safe anchorage: but the Ruffian pilots affured us, that there are none capable of admitting veffels of the fmallest fize, as the low land fills up the fpaces that appear vacant between the high projecting head-lands. Toward evening, it again became calm; but, at midnight, we had a light breeze from the North, which increased gradually to a Monday 11. ftrong gale; and at noon, the next day, we found ourfelves in latitude 52° 4', longitude 158° 31', when Cape Gavareea bore North by West one quarter West; the South extreme South West half West. We were at this time distant from the nearest shore about three leagues, and faw the whole country inland covered with fnow. A point of land to the Southward, which we place in latitude 51° 54', formed the North fide of a deep bay, called Achachinfkoi, in the diffant bottom of which we supposed a large river to empty itself, from the land behind being fo unufually low. South of Achachinfkoi Bay, the land is not fo rugged and barren as that part of the country which we had before paffed.

fails, and make it prudent to stand more off the shore. At fix, the weather becoming more moderate and fair, we again made fail, and flood in for the land. At noon, our latitude was 51° o', longitude 157° 25'. The Northernmost land in fight, being the point we have mentioned as first opening with Cape Gavareea, bore North North East. A head-land, with a flat top, which is in latitude 51° 27', and makes the South point of an inlet, called Girowara, bore North one quarter East, and the Southernmost land in fight West three quarters North, distant fix leagues. At this time we could just perceive low land stretching from the Southern extreme; but the wind veering round to the North West, we could not get a nearer view of it. At fix in the afternoon, we faw, from the mast-head, Cape Lopatka, the Southernmost extremity of Kamtschatka. It is a very low flat Cape, floping gradually from the high level land that we faw at noon, and bore West half North, about five leagues distant; and the high land North West by West half West. As this point of land forms so marked an object in the geography of the Eastern coast of Asia, we were glad to be able, by an accurate observation, and several good angles, to determine its precise situation, which is in latitude 51° o', longitude 156° 45'. To the North West of it we faw a remarkable high mountain, the top of which loses itself in the clouds; and, at the same time, the first of the Kurile Islands, called Shoomska, appeared in fight, bearing West half South. The passage between this island and Cape Lopatka, the Ruffians describe as being three miles broad, and very dangerous, on account of the ra-

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pidity of the tides, and the funk rocks that are off the Cape. From Cape Gavareea to Lopatka, the coast trends South East. South of Achachinskoi, the land is not so high and broken as between that Bay and the mouth of Awatika, being only of a moderate elevation toward the fea, with hills gradually rifing farther back in the country. The coast is steep and bold, and full of white chalky patches.

At noon, the weather falling again to a calm, afforded us an opportunity of catching fome fine cod. We were, at this time, in forty fathoms water, and about five or fix leagues from Cape Lopatka. Both in the fore and afternoon, we had observations, with different compasses, for the variation, and found it to be 5° 20' East.

We flood on all night, under an eafy fail, to the South South West, having the wind Westerly. At midnight we founded, and had fixty fathoms; and, at day-break of the Wednes. 13. 13th, we faw the fecond of the Kurile Islands (called by the Ruffians Paramoufir), extending from North West by West, to West half South. This land is very high, and almost entirely covered with fnow. At noon, the extremes bore from North North West half West, to West North West half West; and a high peaked mountain, from which some thought they faw fmoke iffuing, North West by West half West, about twelve or fourteen leagues distant. At this time our latitude, by observation, was 49° 49', and our longitude 157° o'. In the course of the day we saw many gulls and albatroffes, and feveral whales.

> Paramoufir is the largest of the Kuriles under the dominion of Ruffia, and well deferves a more accurate furvey, than we were at this time allowed to take. For, in the afternoon, the gale increasing from the West, we were never

able to approach it nearer than we had done at noon; and were, therefore, obliged to be contented with endeavouring to afcertain its fituation at that diffance. We place the South end of the island in latitude 49° 58'; the North end in latitude 50° 46', and in longitude 10' West of Lopatka; and as this position is found not to differ materially from that given by the Ruffians, it is probably very near the truth. Whilft we were abreaft of this island, we had a very heavy fwell from the North East, though the wind had, for some time, been from the Westward; a circumstance which we have already remarked more than once during the course of our voyage. In the night we tried for foundings, but found no ground with fifty fathoms of line.

On the 14th and 15th, the wind blowing steadily and fresh Thursday 14.

from the Westward, we were obliged to stand to the South- Friday 15. ward; and confequently hindered from feeing any more of the Kurile islands. At noon of the 16th, the latitude, by Saturday 16. observation, was 45° 27'; the longitude, deduced from a number of lunar observations taken during the three days past, 155° 30'. The variation 4° 30' East. In this situation, we were almost furrounded by the supposed discoveries of former navigators, and uncertain to which we should turn ourselves. To the Southward and the South West were placed, in the French charts, a group of five islands, called the Three Sifters, Zellany, and Kunashir. We were about ten leagues, according to the fame maps, to the Westward of the land of De Gama, which we had paffed to the Eastward in April last, at a distance rather less than this, without feeing any appearance of it; from which circumstance we may now conclude, that, if such land exist at all, it must be an island of a very inconsiderable

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fize\*. On the other hand, if we give credit to the original position of this land, fixed by Texiera †, it lay to the West by South; and as the Company's Land ‡, Staten Island §, and the famous land of Jeso ||, were also supposed to lie nearly

\* From Muller's account of the course steered by Captain Spanberg, in his route from Kamtschatka to Japan, it appears, that he must also undoubtedly have seen De Gama's Land, if it really has the extent given it in Mr. d'Anville's maps. Walton, who commanded a vessel in the same expedition, seems also to have looked in vain for this land on his return from Japan; and three years afterward, on account of some doubts that had arisen respecting Spanberg's course, Beering went directly in search of it, as low as the latitude of 46°.—See Voyages et Decouvertes, &c. p. 210, & seq.

+ See Book VI. Chap. i. p. 180.

‡ This land was feen by the Dutchmen who failed in the Castricom and Breskes, and imagined by them to be part of the continent of America. There now remains scarce any doubt of its being the islands of Ooroop and Nadeegsda.—See the Journals of the Castricom and Breskes, published by Wetzer.

§ This land was also discovered by the Castricom; and, from its situation, as described in the journal of that vessel, it appears to be the islands of the Three Sisters.

| The country of Jeso, which has so long been a stumbling-block to our modern geographers, was first brought to the knowledge of Europeans by the Dutch vessels mentioned in the preceding notes. The name appears, from the earliest accounts, to have been well known, both to the Japanese and the Kamtschadales; and used by them, indiscriminately, for all the islands lying between Kamtschadales; and Japan. It has since been applied to a large imaginary island, or continent, supposed to have been discovered by the Castricom and Breskes; and it may not, therefore, be improper to consider the grounds of this mistake, as far as can be collected from the Journals of that expedition. The object of the voyage, in which those ships were engaged, was to explore the Eastern shore of Tartary; but, being separated by a storm off the South East point of Japan, they sailed in different tracks along the East side of that island; and, having passed its Northern extremity, proceeded singly on their intended expedition.

The Castricom, commanded by De Vries, steering Northward, sell in with land on the third day, in latitude 42°. He sailed along the South East coast about fixty leagues in a constant fog; and, having anchored in various places, held a friendly intercourse with the inhabitants. Thus far the Journal. Now, as the islands of Matimai, Kunashir, and Zellany appear, from Captain Spanberg's Discoveries, to lie exactly in this situation, there

nearly in the same direction, together with the group first mentioned, according to the Russian charts, we thought this course deserved the preference, and accordingly hauled round to the Westward, the wind having shifted, in the afternoon, to the Northward. During this day we saw large slocks of gulls, several albatrosses, fulmars, and a number of sish, which our sailors called grampuses; but, as far as we could judge from the appearance of those that passed close by the ships, we imagined them to be the kasatka, or sword-sish, described by Krascheninikoss, to whom I refer the Reader, for a curious account of the manner in which they attack the whales. In the evening, a visit from a small land-bird, about the fize of a gold-sinch, and resembling that bird in shape and plumage, made us keep a good look-out for land. However, at mid-

can be no doubt of their being the same land; and the circumstance of the sog sufficiently accounts for the error of De Vries, in imagining them to be one continent; without having recourse to the supposition of an earthquake, by which Mr. Muller, from his desire to reconcile the opinion generally received, with the later Russian discoveries, conceives the several parts to have been separated. The Journal then proceeds to give an account of the discovery of Staten Island and Company's Land, of which I have already given my opinion, and shall have occasion to speak hereafter. Having passed through the Straits of De Vries, says the Journal, they entered a vast, wild, and tempessuous sea, in which they steered, through mists and darkness, to the 48° latitude North; after which they were driven by contrary winds to the Southward, and again sell in with land to the Westward, in latitude 45°, which they unaccountably still imagined to be part of the continent of Jeso; whereas, whoever examines Jansen's map of their discoveries (which appears to be exceedingly accurate, as far as his information went), will, I believe, have no doubt, that they were, at this time, on the coast of Tartary. Having traced this land sour degrees to the Northward, they returned to the Southward through the Straits they had passed before.

It is not necessary to trouble the Reader with the Journal of the Breskes, as it contains no new matter, and has been already republished, and very fatisfactorily animadverted upon by Mr. Muller.—Voyages from Asia to America, &c. English Translation, p. 78.

night, on trying for foundings, we found no ground with forty-five fathoms of line.

On the 17th, at noon, we were in latitude 45° 7', by observation, longitude 154° o'. The wind now again coming to the Westward, obliged us to steer a more Southerly course; and, at midnight, it blew from that quarter a fresh gale, accompanied with heavy rain. In the morning, we faw another land-bird, and many flocks of gulls and peterels bending their course to the South West. The heavy North East swell, with which we had constantly laboured fince our departure from Lopatka, now ceafed, and changed fuddenly to the South East. In the forenoon of Monday 18. the 18th, we passed great quantities of rock-weed, from which, and the flights of birds above mentioned, we conjectured we were at no great distance from the Southernmost of the Kuriles; and, at the same time, the wind coming round to the South, enabled us to stand in for it. At two, we fet studding-fails, and steered West; but the wind increafing to a gale, foon obliged us to double reef the topfails; and, at midnight, we judged it necessary to try for foundings. Accordingly we have to; but, finding no bottom at feventy-five fathoms, we were encouraged to perfevere, and again bore away West, with the wind at South Tuesday 19. East. This course we kept till two in the morning, when the weather becoming thick, we hauled our wind, and fleered to the South West till five, when a violent storm reduced us to our courses.

Notwithstanding the unfavourable state of the weather left us little prospect of making the land, we still kept this object anxiously in view; and, at day-light, ventured to fteer West by South, and continued to stand on in this direction till ten in the forenoon, when the wind, fuddenly fhifting

shifting to the South West, brought with it clear weather. Of this we had fcarcely taken advantage, by fetting the topfails, and letting out the reefs, when it began to blow fo ftrong from this quarter, that we were forced to clofe-reeve again; and, at noon, the wind shifting two points to the West, rendered it vain to keep any longer on this tack. We therefore put about, and steered to the Southward. At this time, our latitude, by observation, was 44° 12', and longitude 150° 40'; fo that, after all our efforts, we had the mortification to find ourselves, according to the Ruffian charts, upon a meridian with Nadeegfda, which they make the Southernmost of the Kurile islands, and about twenty leagues to the Southward.

But, though the violent and contrary winds we had met with during the last fix days, prevented our getting in with thefe iflands, yet the course we had been obliged to hold, is not without its geographical advantages. For the group of islands, confisting of the Three Sisters, Kunashir, and Zellany (which, in D'Anville's maps, are placed in the track we had just croffed) being, by this means, demonstratively removed from that fituation, an additional proof is obtained of their lying to the Westward, where Spanberg actually places them, between the longitude 142° and 147°. But as this space is occupied, in the French charts, by part of the fupposed land of Jeso and Staten Island, Mr. Muller's opinion becomes extremely probable, that they are all the fame lands; and, as no reasons appear for doubting Spanberg's accuracy, we have ventured, in our general map, to reinstate the Three Sisters, Zellany, and Kunashir, in their proper fituation, and have entirely omitted the reft. When the Reader recollects the manner in which the Ruffians have multiplied the islands of the Northern Archipelago,

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from the want of accuracy in determining their real fituation, and the defire men naturally feel of propagating new discoveries, he will not be furprized, that the same causes should produce the same effects. It is thus that the Jesoian lands, which appear, both from the accounts of the Japanese, and the earliest Russian traditions, to be no other than the Southern Kurile islands, have been supposed diftinct from the latter. The land of De Gama is next on record; and was originally placed nearly in the fame fituation with those just mentioned; but was removed, as has been already fuggested, to make room for Staten Island, and the Company's Land; and as Jeso, and the Southernmost of the Kuriles, had also possession of this space, that nothing might be loft, they were provided for, the former a little to the Westward, and the latter to the Eastward.

As the islands of Zellany and Kunashir, according to the Ruffian charts, were still to the Southward, we were not without hopes of being able to make them, and therefore kept our head as much to the Westward as the wind would Wednes. 20. permit. On the 20th, at noon, we were in latitude 43° 47', and longitude 150° 30'; and fteering West by South, with a moderate breeze from South East, and probably not more than twenty-four leagues to the Eastward of Zellany, when our good fortune again deferted us. For, at three o'clock in the afternoon, the wind, veering round to the North West, began to blow so strong, that we were brought under our forefail and mizen flay-fail. We had very heavy fqualls, and hard rain, during the next twenty-four hours; after which, the horizon clearing a little, and the weather growing moderate, we were enabled to fet the topfails; but the wind, still continuing to blow from the North West,

baffled

baffled all our endeavours to make the land, and obliged us, at last, to give up all further thoughts of discovery to the North of Japan. We fubmitted to this disappointment with the greater reluctance, as the accounts that are given of the inhabitants of these islands, mentioned at the end of the last Chapter, had excited in us the greater curiofity to visit them.

In the afternoon, the leach-rope of the Refolution's foretop-fail gave way, and fplit the fail. As this accident had often happened to us in Captain Cook's life-time, he had ordered the foot and leach-ropes of the topfails to be taken out, and larger fixed in their flead; and as these also proved unequal to the strain that was on them, it is evident, that the proper proportion of strength between those ropes and the fail is exceedingly miscalculated in our service. This day a land-bird perched on the rigging, and was taken; it was larger than a sparrow, but, in other respects, very like one.

The gale now abated gradually; fo that, in the morning of the 22d, we let out the reefs of the topfails, and made Friday 22. more fail. At noon, we were in latitude 40° 58', and longitude 148° 17'; the variation 3° East. In the afternoon, another little wanderer from the land pitched on the ship, and was fo worn out with fatigue, that it fuffered itself to be taken immediately, and died a few hours afterward. It was not bigger than a wren, had a tuft of yellow feathers on its head, and the rest of its plumage like that of the linnet. The sparrow, being stronger, lived a long time. These birds plainly indicating, that we could not be at any great distance from the land, and the wind, after varying a little, fixing in the evening at North, our hopes of making the land again revived, and we hauled up to the West VOL. III. 3 E North

North West, in which direction, the Southernmost islands, feen by Spanberg, and faid to be inhabited by hairy men, lay at the distance of about fifty leagues. But the wind not keeping pace with our wishes, blew in such light airs, Saturday 23. that we made little way, till eight the next morning, when we had a fresh breeze from the South South West, with which we continued to fteer West North West till the evening. At noon, we were in latitude 40° 35', longitude 146° 45'; the latter deduced from feveral lunar observations taken during the night. The variation of the needle we found to be 17' East. In the evening, we had strong squally gales attended with rain, and having paffed, in the courfe of the day, feveral patches of green grafs, and feen a fhag, many fmall land birds, and flocks of gulls, it was not thought prudent, with all these figns of the vicinity of land, to stand on during the whole night. We therefore tacked at midnight, and steered a few hours to the South Sunday 24. East, and at four in the morning of the 24th, again directed our course to the West North West, and carried a press of fail till feven in the evening, when the wind shifted from South South West to North, and blew a fresh gale. At this time we were in the latitude of 40° 57', and the longitude of 145° 20'.

> This fecond disappointment in our endeavours to get to the North West, together with the boisterous weather we had met with, and the little likelihood, at this time of the year, of its becoming more favourable to our views, were Captain Gore's motives for now finally giving up all farther fearch for the islands to the North of Japan, and for shaping a course West South West, for the North part of that island. In the night, the wind shifted to the North East, and blew a fresh gale, with hard rain, and hazy weather, which,

which, by noon of the 25th, brought us to the latitude of 40° 18', in the longitude 144° o'. To-day we faw flights of wild ducks, a pigeon lighted on our rigging, and many Monday 25. birds, like linnets, flew about us with a degree of vigour that feemed to prove, they had not been long upon the wing. We also passed patches of long grass, and a piece either of fugar-cane or bamboo. These figns, that land was at no great diffance, induced us to try for foundings; but we found no ground with ninety fathoms of line. Toward evening, the wind by degrees shifted round to the South, with which we still kept on to the West South West; and at day-break of the 26th, we had the pleasure of de- Tuesday 26. fcrying high land to the Westward, which proved to be Japan. At eight, it extended from North West to South by West, distant three or four leagues. A low flat cape bore North West three-quarters West, and seemed to make the South part of the entrance of a bay. Toward the South extreme, a conical shaped hill bore South by West threequarters West. To the Northward of this hill there appeared to be a very deep inlet, the North fide of the entrance into which is formed by a low point of land, and, as well as we could judge by our glaffes, has a fmall ifland near it to the Southward.

We flood on till nine, when we were within two leagues of the land, bearing West three-quarters South, and had foundings of fifty-eight fathoms, with a bottom of very fine fand. We now tacked and flood off; but the wind dying away, at noon we had got no farther than three leagues from the coast, which extended from North West by North three-quarters West, to South half East, and was, for the most part, bold and cliffy. The low cape to the Northward bore North West by West, fix leagues distant;

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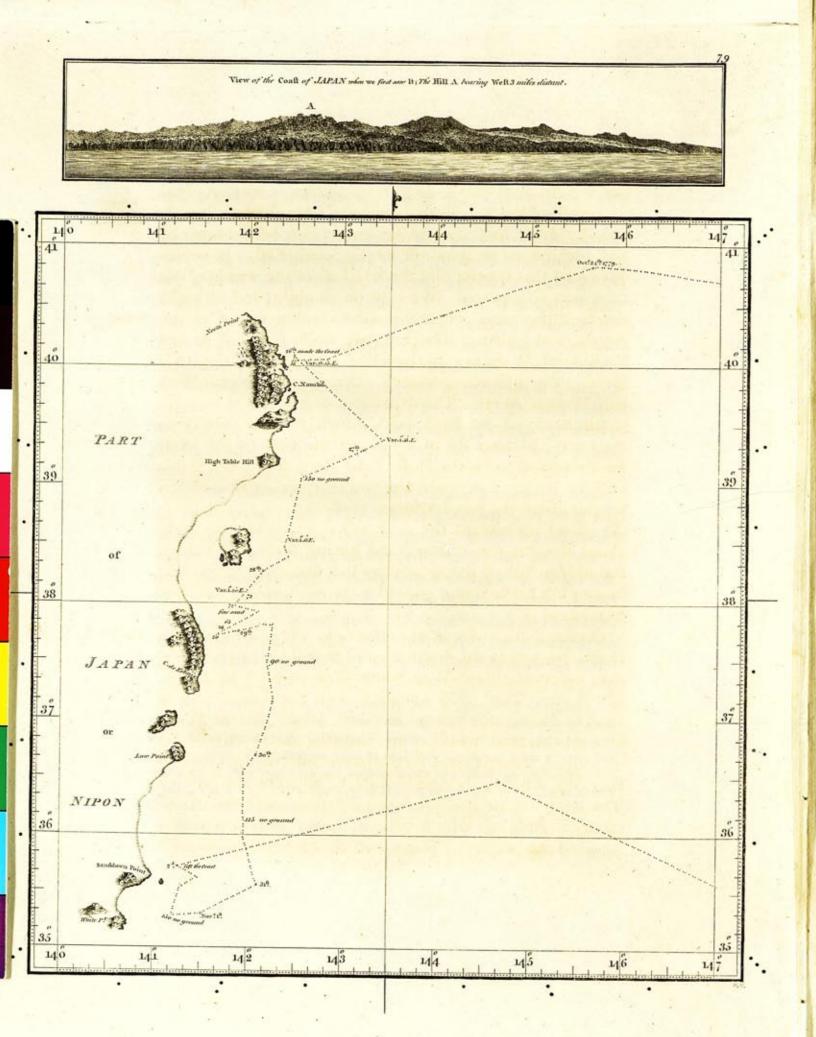
and the North point of the inlet South, three-quarters West. The latitude, by observation, was 40° 5', and longitude 142° 28'. The Northernmost land in fight, we judged to be the Northern extremity of Japan \*. It is lower than any other part; and, from the range of the high lands that were feen over it from the mast-head, the coast appeared evidently to incline round to the Westward. The North point of the inlet we supposed to be Cape Nambu, and the town to be fituated in a break of the high land, toward which the inlet feemed to direct itself t. The country is of a moderate height, confifts of a double range of mountains; it abounds with wood, and has a pleafing variety of hills and dales. We faw the fmoke of feveral towns or villages, and many houses near the shore, in pleasant and cultivated situations.

During the calm, being willing to make the best use of our time, we put our fishing lines overboard, in fixty fathoms water, but without any fuccess. As this was the only amusement our circumstances admitted, the disappointment was always very fenfibly felt, and made us look back with regret to the cod-banks of the dreary regions we had left, which had fupplied us with fo many wholesome meals, and, by the diversion they afforded, had given a variety to the wearifome fuccession of gales and calms, and the tedi-

<sup>\*</sup> The only authentic furvey of the Eastern coast of Japan, with which I am acquainted, is that published by Jansen in his Atlas, and compiled with great accuracy from the charts and journals of the Castricom and Breskes. I have therefore adopted, whereever the identity of the fituations could be nearly afcertained, the names given in that map to the corresponding points and head-lands seen by us along the coast.

Jansen places the Northern extremity of Japan in latitude 40° 15'. The point seen by us was in latitude 40° 27'.

<sup>+</sup> This town is called by Jansen, Nabo.



Colour Chart #13

# THE PACIFIC OCEAN.

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ous repetition of the fame nautical observations. At two in the afternoon, the breeze freshened from the Southward, and, by four, had brought us under close-reefed topfails, and obliged us to fland off to the South East. In confequence of this course, and the haziness of the weather, the land foon disappeared. We kept on all night, and till eight the next morning, when the wind coming round to the Wednef. 27. North, and growing moderate, we made fail, and steered West South West, toward the land; but did not make it till three in the afternoon, when it extended from North West half West to West. The Northernmost extreme being a continuation of the high land, which was the Southernmost we had seen the day before; the land to the West we conceived to be the Hofe Tafel Berg (the High Table Hill) of Jansen. Between the two extremes, the coast was low and fcarcely perceptible, except from the mast-head. We stood on toward the coast till eight, when we were about five leagues diftant; and having shortened fail for the night, steered to the Southward, founding every four hours; but never found ground with one hundred and fixty fathoms of line.

On the 28th, at fix in the morning, we again faw land, Thursday 28. twelve leagues to the Southward of that feen the preceding day, extending from West South West to West by North. We steered South West obliquely with the shore; and, at ten, faw more land open to the South West. To the Westward of this land, which is low and flat, are two islands, as we judged, though fome doubts were entertained, whether they might not be connected with the adjacent low ground. The hazy weather, joined to our distance, prevented us also from determining, whether there are any inlets or harbours between the projecting points, which feem here to promife

good shelter. At noon, the North extreme bore North West by North, and a high peaked hill, over a fteep head-land, West by North, distant five leagues. Our latitude at this time, by observation, was 38° 16', longitude 142° 9'. The mean of the variation, from observations taken both in the fore and afternoon, was 1° 20' Eaft.

At half past three in the afternoon, we lost fight of the land; and, from its breaking off fo fuddenly, conjectured, that what we had feen this day is an island, or, perhaps, a cluster of islands, lying off the main land of Japan; but as the islands, called by Jansen the Schildpads, and by Mr. D'Anville Matsima, though laid down nearly in the same fituation, are not equal in extent to the land feen by us, we must leave this point undecided. Having kept a South West course during the remaining part of the day, we found ourselves, at midnight, in seventy fathoms water, over a bottom of fine dark brown fand. We therefore hauled up Friday 29. to the Eastward, till morning, when we saw the land again, about eleven leagues to the Southward of that which we had feen the day before; and at eight, we were within fix or feven miles of the shore, having carried in regular foundings from fixty-five to twenty fathoms, over coarfe fand and gravel. Unluckily there was a haze over the land, which hindered our diftinguishing small objects on it. The coast is straight and unbroken, and runs nearly in a North and South direction. Toward the fea the ground is low, but rifes gradually into hills of a moderate height, whose tops are tolerably even, and covered with wood.

At nine o'clock, the wind shifting to the Southward, and the sky lowring, we tacked and stood off to the East, and foon after, we faw a veffel, close in with the land, standing along the shore to the Northward, and another in the offing,

coming down on us before the wind. Objects of any kind, belonging to a country fo famous, and yet fo little known, it will be eafily conceived, must have excited a general curiofity, and accordingly every foul on board was upon deck in an instant, to gaze at them. As the vessel to windward approached us, she hauled farther off shore; upon which, fearing that we should alarm them by the appearance of a purfuit, we brought the ships to, and she passed ahead of us, at the distance of about half a mile. It would have been eafy for us to have fpoken with them; but perceiving, by their manœuvres, that they were much frightened, Captain Gore was not willing to augment their terrors; and, thinking that we should have many better opportunities of communication with this people, fuffered them to go off without interruption. Our distance did not permit us to remark any particulars regarding the men on board, who feemed to be about fix in number, especially as the haziness of the weather precluded the use of our glasses. According to the best conjectures we were able to form, the vessel was about forty tons burthen. She had but one mast, on which was hoisted a square sail, extended by a yard aloft, the braces of which worked forward. Half-way down the fail, came three pieces of black cloth, at equal diffances from each other. The veffel was higher at each end than in the midship; and we imagined, from her appearance and form, that it was impossible for her to fail any otherwise than large.

At noon the wind freshened, and brought with it a good deal of rain; by three, it had increased so much, that we were reduced to our courses; at the same time, the sea ran as high as any one on board ever remembered to have feen it. If the Japanese vessels are, as Kæmpfer describes them,

open

open in the stern, it would not have been possible for those we faw, to have furvived the fury of this ftorm; but, as the appearance of the weather, all the preceding part of the day, foretold its coming, and one of the floops had, notwithstanding, stood far out to sea, we may fafely conclude, that they are perfectly capable of bearing a gale of wind. Spanberg indeed describes two kinds of Japanese vessels; one answering to the above description of Kæmpfer; the other, which he calls buffes, and in which, he fays, they make their voyages to the neighbouring islands, exactly corresponds with those we faw \*.

At eight in the evening, the gale shifted to the West, without abating the leaft in violence, and by raifing a fudden fwell, in a contrary direction to that which prevailed before, occasioned the ships to strain and labour exceedingly. During the storm, several of the fails were split on board the Resolution. Indeed they had been so long bent, and were worn fo thin, that this accident had of late happened to us almost daily, in both ships; especially when, being stiff and heavy with the rain, they became less able to bear the shocks of the violent and variable winds we at this time experienced. The gale at length growing moderate, and fettling to the West, we kept upon a wind to the Southward; Saturday 30. and at nine in the morning of the 30th, we faw the land, at the distance of about fifteen leagues, bearing from West by North to North West one quarter West. It appeared in detached parts; but whether they were fmall iflands, or parts of Japan, our distance did not enable us to determine. At noon, it extended from North West to West, the nearest land being about thirteen leagues diftant, beyond which the coast feemed to run in a Westerly direction. The lati-

\* Vide Muller, Fr. ed. page 215.

tude,

tude, by observation, was 36° 41', longitude 142° 6'. The point to the Northward, which was supposed to be near the Southernmost land seen the day before, we conjectured to be Cape de Kennis, and the break to the Southward of this point, to be the mouth of the river on which the town of Giffima is faid to be fituated. The next Cape is probably that called in the Dutch charts Boomtje's Point; and the Southernmost, off which we were abreast at noon, we suppose to be near Low Point \*, and that we were at too great a distance to see the low land, in which it probably terminates, to the Eastward.

In the afternoon, the wind veering round to the North East, we stood to the Southward, at the distance of about eighteen leagues from the shore, trying for foundings, as we went along, but finding none with one hundred and fifteen fathoms of line. At two the next morning, it shifted Sunday 31. to West, attended with rain and lightning, and blowing in heavy fqualls. During the course of the day, we had feveral fmall birds of a brown plumage, refembling linnets, flying about us, which had been forced off the land by the strong Westerly gales; but toward the evening, the wind coming to the North West, we shaped our course, along with them, to West South West, in order to regain the coast. In the morning of the 1st of November, the wind again shifted to South East, and bringing with it fair Monday 1. weather, we got forty-two fets of distances of the moon from the fun and ftars, with four different quadrants, each fet confifting of fix observations; these agreeing pretty nearly with each other, fix our fituation at noon the fame day, with great accuracy, in longitude 141° 32', the latitude, by observation, was 35° 17'. We found an error of latitude,

\* Lage Hoeck, or Low Point, is placed by Jansen in latitude 36° 40'. VOL. III.

3 F

in our reckonings of the preceding day, of eight miles, and in this day's of feventeen; from whence, and from our being much more to the Eastward than we expected, we concluded, that there had been a ftrong current from the South West.

At two in the afternoon, we again made the land to the Westward, at the distance of about twelve leagues; the Southernmost land in fight, which we supposed to be White Point \*, bore West South West half West; a hummock to the Northward, which had the appearance of being an island, bore North North West half West, within which we faw from the mast-head low land, which we took to be Sand-down Point t. We stood in toward the land, till half past five, when we hauled our wind to the Southward. At this time we faw a number of Japanese vessels, close in with the land, feveral feemingly engaged in fifhing, and others flanding along shore. We now discovered to the Westward a remarkably high mountain, with a round top, rifing far inland. There is no high ground near it, the coast being of a moderate elevation, and, as far as we could judge, from the haziness of the horizon, much broken by fmall inlets. But to the Southward of the hummock ifland before mentioned, there appeared, at a great distance, within the country, a ridge of hills, stretching in a direction toward the mountain, and probably joining with it. As this is the most remarkable hill on the coast, we could have wished to have settled its situation exactly; but having only had this fingle view, were obliged to be contented with fuch accuracy as our circumstances would allow. Its latitude therefore we conceive to be 35° 20', its longitude, estimated

by its distance from the ships, at this time fifteen leagues, 140° 26'.

As the Dutch charts make the coast of Japan extend about ten leagues to the South West of White Point, at eight we tacked, and stood off to the Eastward, in order to weather the point. At midnight, we again tacked to the South West, expecting to fall in with the coast to the Southward, but were furprized, in the morning at eight, to fee the Tuefday 2. hummock, at the diftance only of three leagues, bearing West North West. We began, at first, to doubt the evidence of our fenses, and afterward to suspect some deception from a fimilarity of land; but, at noon, we found ourselves, by observation, to be actually in latitude 35° 43', at a time when our reckonings gave us 34° 48'. So that, during the eight hours in which we supposed we had made a course of nine leagues to the South West, we had in reality been carried eight leagues from the position we left, in a direction diametrically opposite; which made, on the whole, in that short space of time, a difference, in our reckoning, of feventeen leagues. From this error, we calculated, that the current had fet to the North East by North, at the rate of at least five miles an hour. Our longitude, at this time, was 141° 16'.

The weather having now the fame threatening appearance as on the 29th of October, which was followed by fo fudden and fevere a gale, and the wind continuing at South South East, it was thought prudent to leave the shore, and stand off to the Eastward, to prevent our being entangled with the land. Nor were we wrong in our prognoftications; for it foon afterward began, and continued till next day, to blow a heavy gale, accompanied with hazy and rainy weather. In the morning of the 3d, we found our- wednes, 3,

3 F 2

felves,

<sup>\*</sup> Witte Hoeck, placed by Jansen in latitude 35° 24'.

<sup>+</sup> Sanduynege Hoeck, in latitude 35° 55'. Jansen.

felves, by our reckoning, upward of fifty leagues from the land; which circumftance, together with the very extraordinary effect of currents we had before experienced, the late feafon of the year, the unfettled state of the weather, and the little likelihood of any change for the better, made Captain Gore refolve to leave Japan altogether, and profecute our voyage to China; hoping, that as the track he meant to purfue had never yet been explored, he should be able to make amends, by fome new discovery, for the difappointments we had met with on this coaft.

If the reader should be of opinion that we quitted this object too hastily, in addition to the facts already stated, it ought to be remarked, that Kæmpfer describes the coast of Japan as the most dangerous in the whole world \*; that it would have been equally dangerous, in case of distress, to run into any of their harbours; where we know, from the best authorities, that the aversion of the inhabitants to any intercourse with strangers, has led them to commit the most atrocious barbarities; that our ships were in a leaky condition; that our fails were worn out, and unable to withftand a gale of wind; and that the rigging was fo rotten as to require constant and perpetual repairs.

As the strong currents, which set along the Eastern coast of Japan, may be of dangerous confequence to the navigator, who is not aware of their extraordinary rapidity, I shall take leave of this island, with a summary account of their force and direction, as observed by us from the 1st to the 8th of November. On the 1st, at which time we were about eighteen leagues to the Eastward of White Point, the current fet North East and by North, at the rate of three miles an hour; on the 2d, as we approached the shore, we

\* See Kæmpfer's Hift. of Japan, Vol. I. p. 92, 93, 94, and 102.

found

found it continuing in the same direction, but increased in its rapidity to five miles an hour; as we left the shore it November. again became more moderate, and inclined to the Eastward; on the 3d, at the distance of fixty leagues, it set to the East North East, three miles an hour; on the 4th and 5th, it turned to the Southward, and at one hundred and twenty leagues from the land, its direction was South East, and its rate not more than a mile and half an hour: on the 6th and 7th, it again shifted round to the North East, its force gradually diminishing till the 8th; when we could no longer perceive any at all.

During the 4th and 5th, we continued our course to the Thursday 4. South East, having very unsettled weather, attended with much lightning and rain. On both days we paffed great quantities of pumice-stone, several pieces of which we took up, and found to weigh from one ounce to three pounds. We conjectured that these stones had been thrown into the fea, by eruptions of various dates, as many of them were covered with barnacles, and others quite bare. At the fame time, we faw two wild ducks, and feveral fmall land birds, and had many porpuffes playing round us.

On the 6th, at day-light, we altered our course to the Saturday 6. South South West; but at eight in the evening, we were taken back, and obliged to fleer to the South East. On the 7th, at noon, we faw a finall land bird, our latitude, by ob- Sunday 7. fervation, at this time, being 33° 52', and longitude 148° 42'. On the 9th, we were in latitude 31° 46', longitude 146° 20', Tuesday 9. when we again faw a finall land bird, a tropic bird, porpuffes, flying fishes, and had a great swell from the East South East. We continued our course to the South West, having the winds from the Northward, without any remarkable occurrence, till the 12th, when we had a most Friday 12. violent

violent gale of wind from the fame quarter, which reduced us to the fore-fail, and mizen stay-fail; and, as the weather was fo hazy, that we were not able to fee a cable's length before us, and many shoals and small islands are laid down in our charts, in this part of the ocean, we brought to, with our heads to the South West. At noon, the latitude, by account, was 27° 36', longitude 144° 25'. In the morning Saturday 13. of the 13th, the wind shifting round to the North West, brought with it fair weather; but though we were at this time nearly in the fituation given to the island of St. Juan, we faw no appearance of land. We now bore away to the South West, and set the top-sails, the gale still continuing with great violence. At noon, the latitude, by observation, was 26° o', longitude 143° 40', and variation 3° 50' Eaft. In the afternoon, we faw flying fish, and dolphins, also tropic birds, and albatroffes. We ftill continued to pass much pumice-stone: indeed, the prodigious quantities of this substance, which float in the sea, between Japan and the Bashee Islands, feem to indicate, that some great volcanic convulfion must have happened in this part of the Pacific Ocean; and, confequently, give fome degree of probability to the opinion of Mr. Muller, which I have already had occasion to mention, respecting the separation of the continent of Jeso, and the disappearance of Company's Land, and Staten Island.

At fix in the afternoon, we altered our course to the West South West, Captain Gore judging it useless to steer any longer to the South South West, as we were near the meridian of the Ladrones, or Marianne Islands, and at no great distance from the track of the Manilla ships. In the Sunday 14. morning of the 14th, the weather became fine, and the wind, which was moderate, gradually shifted to the North

East, and proved to be the trade wind. At ten, Mr. Trevenen, one of the young gentlemen who came along with me into the Difcovery, faw land appearing, like a peaked mountain, and bearing South West. At noon, the latitude, by observation, was 24° 37', longitude 142° 2'. The land, which we now discovered to be an island, bore South West half West, distant eight or ten leagues; and at two in the afternoon, we faw another to the West North West. This fecond island, when feen at a distance, has the appearance of two; the South point confifting of a high conical hill, joined by a narrow neck to the Northern land, which is of a moderate height. As this was evidently of greater extent than the island to the South, we altered our course toward it. At four, it bore North West by West; but, not having day-light sufficient to examine the coast, we stood upon our tacks during the night.

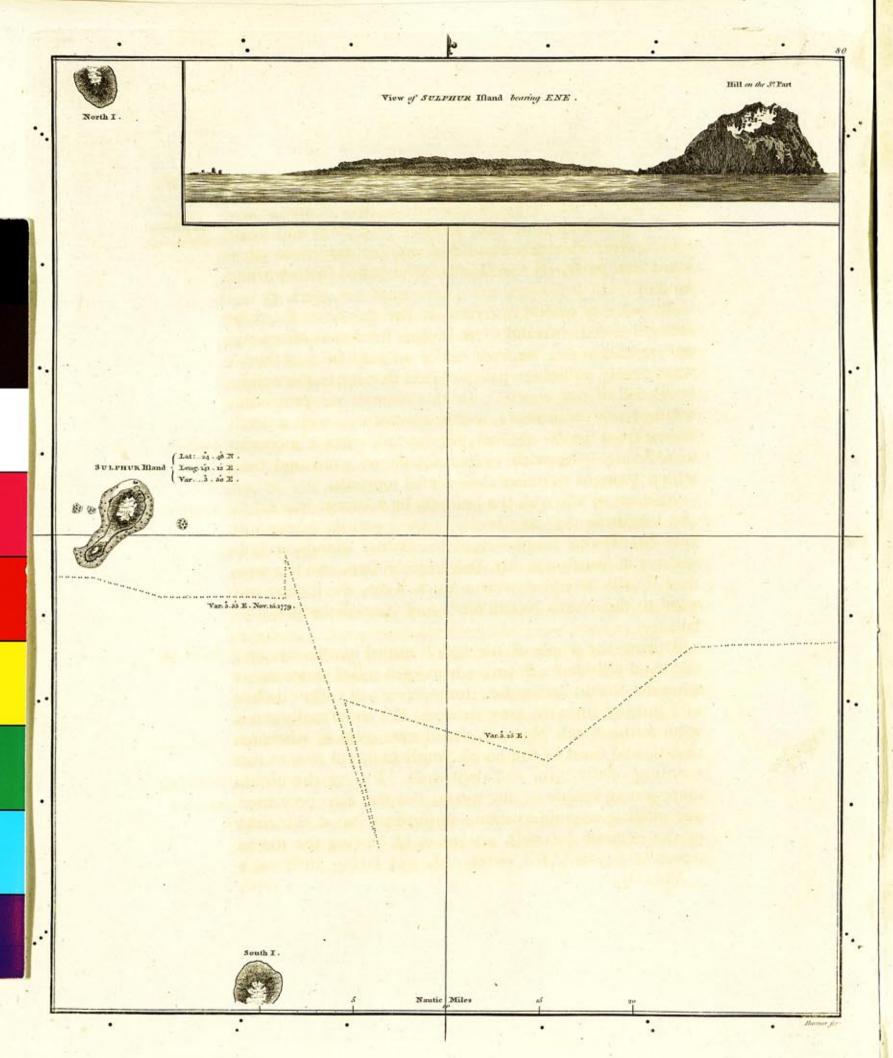
On the 15th, at fix in the morning, we bore away for Monday 15. the South point of the larger island, at which time we difcovered another high island, bearing North three quarters West, the South island being on the same rhomb line, and the South point of the ifland ahead, West by North. At nine, we were abreaft, and within a mile of the middle island, but Captain Gore, finding that a boat could not land without fome danger from the great furf that broke on the fhore, kept on his course to the Westward. At noon, our latitude, by observation, was 24° 50', longitude 140° 56' East.

This island is about five miles long, in a North North East, and South South West direction. The South point is a high barren hill, flattish at the top, and, when seen from the West South West, presents an evident volcanic crater.

1779. November. The earth, rock, or fand, for it was not easy to diftinguish of which its furface is composed, exhibited various colours, and a confiderable part we conjectured to be fulphur, both from its appearance to the eye, and the strong fulphureous fmell which we perceived, as we approached the point. Some of the officers on board the Refolution, which paffed nearer the land, thought they faw steams rising from the top of the hill. From these circumstances, Captain Gore gave it the name of Sulphur Island. A low, narrow, neck of land connects this hill with the South end of the island, which fpreads out into a circumference of three or four leagues, and is of a moderate height. The part near the ifthmus has fome bushes on it, and has a green appearance, but those to the North East are very barren, and full of large detached rocks, many of which were exceedingly white. Very dangerous breakers extend two miles and a half to the East, and two miles to the West, off the middle part of the island, on which the fea broke with great violence.

The North and South Islands appeared to us as single mountains of a considerable height; the former peaked, and of a conical shape; the latter more square and flat at the top. Sulphur Island we place in latitude 24° 48′, longitude 141° 12′. The North island in latitude 25° 14′, longitude 141° 10′. The South Island in latitude 24° 22′, and longitude 141° 20′. The variation observed was 3° 30′ East.

Captain Gore now directed his course to the West South West, for the Bashee Islands, hoping to procure, at them, such a supply of refreshments as would help to shorten his stay in Macao. These islands were visited by Dampier,



Colour Chart #13

## THE PACIFIC OCEAN.

who gives a very favourable account, both of the civility of the inhabitants, and of the plenty of hogs and vegetables, with which the country abounds: they were afterward feen by Byron and Wallis, who paffed them without landing.

In order to extend our view, in the day-time, the ships fpread between two and three leagues from each other, and during the night, we went under an eafy fail; fo that it was fcarcely poffible to pass any land that lay in the neighbourhood of our courfe. In this manner we proceeded, without any occurrence worth remarking, with a fresh breeze from the North East, till the 22d, when it increased Monday 22. to a strong gale, with violent squalls of wind and rain, which brought us under close-reefed top-fails.

At noon of the 23d, the latitude, by account, was 21° 5', Tuefday 23. and longitude 123° 20'; at fix in the evening, being now only twenty-one leagues from the Bashee islands, according to the fituation in Mr. Dalrymple's map, and the weather fqually attended with a thick haze, we hauled our wind to the North North West, and handed the fore top-

During the whole of the 24th it rained inceffantly, and Wednef. 24. the wind still blew a storm; a heavy sea rolled down on us from the North, and in the afternoon we had violent flashes of lightning from the fame quarter. We continued upon a wind to the North North West till nine o'clock, when we tacked, and flood to the South South East, till four in the morning of the 25th, and then wore. During the night, Thursday 25. there was an eclipse of the moon, but the rain prevented our making any observation; unfortunately, at the time of the greatest darkness, a feaman, in stowing the maintop-mast stay-sail, fell overboard, but laying hold of a Vol. III. 3 G rope,

rope, which providentially was hanging out of the forechains into the water, and the ship being quickly brought in the wind, he was got on board without any other hurt than a flight bruife on his shoulder. At eight, the weather clearing, we bore away, but the wind blew still fo strong, that we carried no other fail than the fore-fail, and the main-top-fail close reeft. About this time we faw a land bird refembling a thrush, and a sugar-cane; at noon, the latitude, by observation, was 21° 35', and longitude 121° 35'.

As our fituation in longitude was now to the West of the Bashee, according to Mr. Dalrymple's maps, I perceived that Captain Gore was governed, in the course he was steering, by the opinions of Commodore Byron and Captain Wallis, with whom he failed when they paffed thefe iflands. The former placing it near four degrees to the Westward, or in longitude 118° 14'. In confequence of this opinion, at two, we flood to the Southward, with a view of getting into the same parallel of latitude with the islands, before we ran down our longitude. At fix, we were nearly in that fituation, and confequently ought to have been in fight of land, according to Mr. Wallis's account, who places the Bashees near three degrees more to the Eastward than Mr. Byron. The gale, at this time, had not in the least abated; and Captain Gore, still conceiving that the islands must undoubtedly lie to the Westward, brought the ships to, with their heads to the North West, under the fore-fail and ballanced mizen.

At fix in the morning of the 26th, the wind having confiderably abated, we bore away West; fet the top-fails, and let out the reefs. At noon, the latitude, by observation, was 21° 12', and longitude 120° 25'. We faw, this day, a

flock of ducks, and many tropic birds, also dolphins and porpuffes, and still continued to pass several pumice-stones. We fpent the night upon our tacks, and, at fix in the morning of the 27th, again bore away West in search of Saturday 27. the Bashees.

I now began to be a little apprehensive, lest, in fearching for those islands, we should get so much to the Southward as to be obliged to pass to leeward of the Pratas. In this case, it might have been exceedingly difficult for fuch bad-failing fhips as ours to fetch Macao, particularly fhould the wind continue to blow, as it now did, from the North North East and North. As I had some doubts whether Mr. Dalrymple's charts were on board the Refolution, I made fail and hailed her; and having acquainted Captain Gore with the position of these shoals, and my apprehensions of being driven to the Southward, he informed me that he should continue on his course for the day, as he was still in hopes of finding Admiral Byron's longitude right; and therefore ordered me to spread a few miles to the South.

At noon, the weather became hazy; the latitude, by reckoning, was 21° 2', and longitude 118° 30'; and at fix, having got to the Westward of the Bashees, by Mr. Byron's account, Captain Gore hauled his wind to the North West, under an eafy fail, the wind blowing very ftrong, and there being every appearance of a dirty boisterous night. At four in the morning of the 28th, we faw the Refolution, Sunday 28. then half a mile ahead of us, wear, and immediately perceived breakers close under our lee. At day-light, we faw the ifland of Prata; and at half past fix we wore again, and ftood toward the shoal, and finding we could not weather it, bore away, and ran to leeward. As we passed the South

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November.

fide, within a mile of the reef, we observed two remarkable patches on the edge of the breakers, that looked like wrecks. At noon, the latitude found by double altitudes was 20° 39°, longitude 116° 45′. The island bore North three quarters East, distant three or four leagues. On the South West side of the reef, and near the South end of the island, we thought we saw, from the mast-head, openings in the reef, which promised safe anchorage.

The Prata shoal is of a considerable extent, being six leagues from North to South, and stretching three or four leagues to the Eastward of the island; its limit to the Westward we were not in a situation to determine. The North East extremity we place in latitude 20° 58′, and longitude 117°; and the South West in latitude 20° 45′, and longitude 116° 44′.

For the remaining part of the day we carried a press of fail, and kept the wind, which was North East by North, in order to secure our passage to Macao. It was fortunate, that toward evening the wind favoured us, by changing two points more to the East; for had the wind and weather continued the same as during the preceding week, I doubt whether we could have fetched that port, in which case we must have born away for Batavia; a place we all dreaded exceedingly, from the sad havoc the unhealthiness of the climate had made in the crews of the former ships that had been out on discovery, and had touched there.

Monday 29.

In the forenoon of the 29th, we passed several Chinese fishing boats, who eyed us with great indifference. They fish with a large dredge-net, shaped like a hollow cone, having a flat iron rim fixed to the lower part of its mouth. The net is made fast with cords to the head and stern of the boat, which being left to drive with the wind, draws

the net after it with the iron part dragging along the bottom. We were forry to find the fea covered with the wrecks of boats that had been loft, as we conjectured, in the late boifterous weather. At noon, we were in latitude, by observation, 22° 1', having run one hundred and ten miles upon a North West course fince the preceding noon. Being now nearly in the latitude of the Lema Islands, we bore away West by North, and after running twenty-two miles, faw one of them nine or ten leagues to the Westward. At fix, the extremes of the islands in fight bore North North West half West, and West North West half West; distant from the nearest four or five leagues; the depth of water twenty-two fathoms, over a foft muddy bottom. We now shortened fail, and kept upon our tacks for the night. By Mr. Bayly's time-keeper, the Grand Lema bore from the Prata Island, North 60° West, one hundred and fifty-three miles; and by our run, North 57° West, one hundred and forty-fix miles.

In the morning of the 30th, we ran along the Lema Tuefday 30. Ifles, which, like all the other iflands on this coaft, are without wood, and, as far as we could observe, without cultivation. At seven o'clock, we had precisely the same view of these islands, as is represented in a plate of Lord Anson's voyage. At nine o'clock, a Chinese boat, which had been before with the Resolution, came along-side, and wanted to put on board us a pilot, which however we declined, as it was our business to follow our confort. We soon after passed the rock marked R, in Lord Anson's Plate; but, instead of hauling up to the Northward of the grand Ladrone Island, as was done in the Centurion, we proceeded to leeward.

It is hardly necessary to caution the mariner not to take

November.

November.

take this course, as the danger is fufficiently obvious; for should the wind blow strong, and the current set with it, it will be extremely difficult to fetch Macao. Indeed we might, with great fafety, by the direction of Mr. Dalrymple's map, have gone either entirely to the North of the Lema isles, or between them, and made the wind fair for Macao. Our fears of miffing this port, and being forced to Batavia, added to the strong and eager defires of hearing news from Europe, made us rejoice to fee the Refolution foon after fire a gun, and hoift her colours as a fignal for a pilot. On repeating the fignal, we faw an excellent race between four Chinese boats; and Captain Gore, having engaged with the man who arrived first, to carry the ship to the Typa, for thirty dollars, fent me word, that, as we could eafily follow, that expence might be faved to us. Soon after, a fecond pilot getting on board the Refolution, infifted on conducting the ship, and, without further ceremony, laid hold of the wheel, and began to order the fails to be trimmed. This occasioned a violent dispute, which at last was compromised, by their agreeing to go fhares in the money. At noon, the latitude, by observation, was 21° 57' North, and longitude 114° 2' East; the grand Ladrone island extending from North West half North, to North half West, distant four miles. The land of which the bearings are here given, we conceived to be one island; but afterward found the Western part to be the island marked z in Mr. Dalrymple's chart of part of the coast of China, &c. which, at that time, we unfortunately had not on board.

In obedience to the inftructions given to Captain Cook by the Board of Admiralty, it now became necessary to demand of the officers and men their Journals, and what

other papers they might have in their poffession, relating to the history of our voyage. The execution of these orders feemed to require fome delicacy, as well as firmness. I could not be ignorant, that the greatest part of our officers, and feveral of the feamen, had amufed themfelves with writing accounts of our proceedings for their own private fatisfaction, or that of their friends, which they might be unwilling, in their present form, to have fubmitted to the inspection of strangers. On the other hand, I could not, confiftently with the inftructions we had received, leave in their cuftody papers, which, either from careleffness or design, might fall into the hands of printers, and give rife to fpurious and imperfect accounts of the voyage, to the difcredit of our labours, and perhaps to the prejudice of officers, who, though innocent, might be fuspected of having been the authors of fuch publications. As foon, therefore, as I had affembled the fhip's company on deck, I acquainted them with the orders we had received, and the reasons which, I thought, ought to induce them to yield a ready obedience. At the fame time, I told them, that any papers which they were defirous not to have fent to the Admiralty, should be fealed up in their prefence, and kept in my own cuftody, till the intentions of the Board, with regard to the publication of the History of the Voyage, were fulfilled; after which, they should faithfully be restored back to them.

It is with the greatest satisfaction I can relate, that my proposals met with the approbation, and the cheerful compliance both of the officers and men; and I am persuaded, that every scrap of paper, containing any transactions re-

lating

lating to the voyage, were given up. Indeed it is doing bare justice to the seamen of this ship to declare, that they were the most obedient, and the best-disposed men I ever knew, though almost all of them were very young, and had never before ferved in a ship of war.

C H A P. IX.

Working up to Macao .- A Chinese Comprador .- Sent on Shore to visit the Portugueze Governor .- Effects of the Intelligence we received from Europe.—Anchor in the Typa.— Passage up to Canton.—Bocca Tygris.—Wampu.—Description of a Sampane.—Reception at the English Factory.— Instance of the suspicious Character of the Chinese. - Of their Mode of trading .- Of the City of Canton .- Its Size. -Population.-Number of Sampanes.-Military Force.-Of the Streets and Houses .- Visit to a Chinese .- Return to Macao.—Great Demand for the Sea-otter Skins.—Plan of a Voyage for opening a Fur Trade on the Western Coast of America, and prosecuting further Discoveries in the Neighbourhood of Japan.-Departure from Macao,-Price of Provisions in China.

WE kept working to windward till fix in the evening, when we came to anchor, by the direction of the November. Chinese pilot on board the Resolution, who imagined the Tuesday 30. tide was fetting against us. In this, however, he was much deceived; as we found, upon making the experiment, that it fet to the Northward till ten o'clock. The next December. morning he fell into a fimilar miftake; for, at five, on the appearance of flack water, he gave orders to get under way; but the ignorance he had discovered, having put us VOL. III. 3 H

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December.

on our guard, we chose to be convinced, by our own obfervations, before we weighed; and, on trying the tide, we found a strong under-tow, which obliged us to keep fast till eleven o'clock. From these circumstances it appears, that the tide had run down twelve hours.

During the afternoon, we kept standing on our tacks, between the island of Potoe, and the Grand Ladrone, having passed to the Eastward of the former. At nine o'clock, the tide beginning to ebb, we again came to anchor in six sathoms water; the town of Macao bearing North West, three leagues distant; and the island of Potoe South half West, two leagues distant. This island lies two leagues to the North North West of the island marked Z in Mr. Dalrymple's chart, which we, at first, took to be part of the Grand Ladrone. It is small and rocky; and off the West end there is said to be foul ground, though we passed near it without perceiving any.

Thursday 2

In the forenoon of the 2d, one of the Chinese contractors, who are called *Compradors*, went on board the Refolution, and fold to Captain Gore two hundred pounds weight of beef, together with a considerable quantity of greens, oranges, and eggs. A proportionable share of these articles was sent to the Discovery; and an agreement made with the man to furnish us with a daily supply, for which, however, he insisted on being paid before-hand.

Our pilot, pretending he could carry the ships no farther, Captain Gore was obliged to discharge him, and we were left to our own guidance.

At two in the afternoon, the tide flowing, we weighed, and worked to windward; and, at feven, anchored in three and a half fathoms of water, Macao bearing West, three miles distant. This situation was, indeed, very ineligible, being

being exposed to the North East, and having shoal water, not more than two fathoms and a half deep, to leeward; but as no nautical description is given, in Lord Anson's voyage, of the harbour in which the Centurion anchored, and Mr. Dalrymple's general map, which was the only one on board, was on too small a scale to serve for our direction, the ships were obliged to remain there all night.

In the evening, Captain Gore fent me on shore to visit the Portugueze Governor, and to request his affistance in procuring refreshments for our crews, which he thought might be done on more reasonable terms than the Comprador would undertake to furnish them. At the same time, I took a lift of the naval stores, of which both vessels were greatly in want, with an intention of proceeding immediately to Canton, and applying to the fervants of the East India Company, who were, at that time, refident there. On my arrival at the citadel, the Fort-major informed me, that the Governor was fick, and not able to fee company; but that we might be affured of receiving every affiftance in their power. This, however, I understood would be very inconfiderable, as they were entirely dependent on the Chinese, even for their daily subsistence. Indeed, the answer returned to the first request I made, gave me a fufficient proof of the fallen state of the Portugueze power; for, on my acquainting the Major with my defire of proceeding immediately to Canton, he told me, that they could not venture to furnish me with a boat, till leave was obtained from the Hoppo, or officer of the customs; and that the application for this purpose must be made to the Chinese government at Canton.

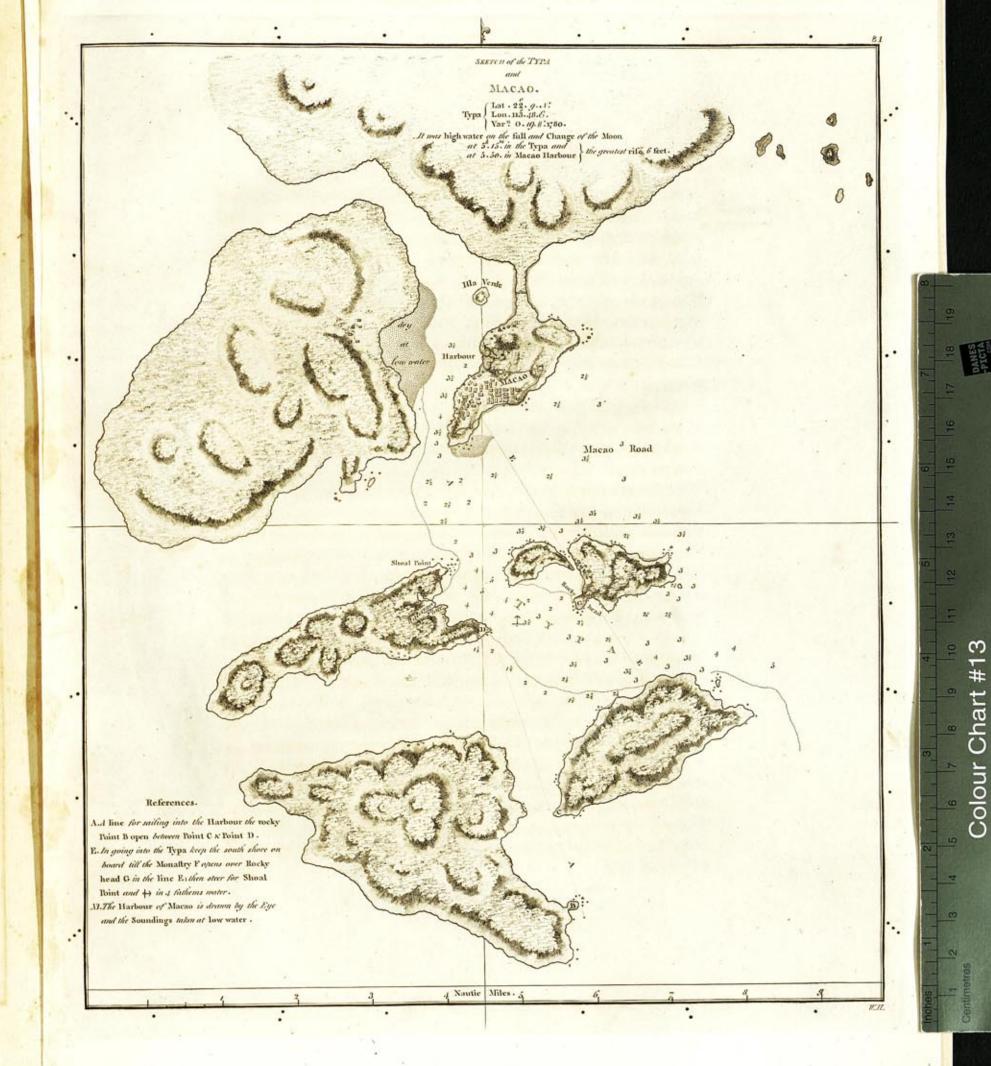
The mortification I felt at meeting with this unexpected delay,

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delay, could only be equalled by the extreme impatience with which we had fo long waited for an opportunity of receiving intelligence from Europe. It often happens, that in the eager purfuit of an object, we overlook the easiest and most obvious means of attaining it. This was actually my case at present; for I was returning under great dejection to the ship, when the Portugueze officer, who attended me, asked me, if I did not mean to visit the English gentlemen at Macao. I need not add with what transport I received the information this question conveyed to me; nor the anxious hopes and fears, the conflict between curiosity and apprehension, which passed in my mind, as we walked toward the house of one of our coun-

trymen. In this state of agitation, it was not furprizing, that our reception, though no way deficient in civility or kindness, should appear cold and formal. In our inquiries, as far as they related to objects of private concern, we met, as was indeed to be expected, with little or no fatisfaction; but the events of a public nature, which had happened fince our departure, and now, for the first time, burst all at once upon us, overwhelmed every other feeling, and left us, for some time, almost without the power of reflection. For feveral days we continued questioning each other about the truth of what we had heard, as if defirous of feeking, in doubt and fuspence, for that relief and confolation, which the reality of our calamities appeared totally to exclude. These fensations were succeeded by the most poignant regret at finding ourselves cut off, at such a distance, from the scene where, we imagined, the fate of fleets and armies was every moment deciding.

The intelligence we had just received of the state of af-



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fairs in Europe, made us the more exceedingly anxious to haften our departure as much as possible; and I, therefore, renewed my attempt to procure a paffage to Canton, but without effect. The difficulty arifing from the eftablished policy of the country, I was now told, would probably be much increased by an incident that had happened a few weeks before our arrival. Captain Panton, in the Seahorfe, a ship of war of twenty-four guns, had been fent from Madras, to urge the payment of a debt owing by the Chinese merchants of Canton to private British subjects in the East Indies and Europe, which, including the principal and compound interest, amounted, I understood, to near a million sterling. For this purpose, he had orders to infift on an audience with the Viceroy of Canton, which, after fome delay, and not without recourse being had to threats, was, at length, obtained. The anfwer he received, on the fubject of his mission, was fair and fatisfactory; but, immediately after his departure, an edict was fluck up on the houses of the Europeans, and in the public places of the city, forbidding all foreigners, on any pretence, to lend money to the fubjects of the Emperor.

This measure had occasioned very serious alarms at Canton. The Chinese merchants, who had incurred the debt contrary to the commercial laws of their own country, and denied, in part, the justice of the demand, were asraid that intelligence of this would be carried to Pekin; and that the Emperor, who has the character of a just and rigid prince, might punish them with the loss of their fortunes, if not of their lives. On the other hand, the Select Committee, to whom the cause of the claimants was strongly recommended by the Presidency of Madras, were extremely apprehensive,

apprehensive, left they should embroil themselves with the Chinese government at Canton; and, by that means, bring, perhaps, irreparable mischief on the Company's affairs in China. For I was further informed, that the Mandarins were always ready to take occasion, even on the flightest grounds, to put a stop to their trading; and that it was often with great difficulty, and never without certain expence, that they could get fuch restraints taken off. These impositions were daily increasing; and, indeed, I found it a prevailing opinion, in all the European factories, that they should soon be reduced either to quit the commerce of that country, or to bear the fame indignities to which the Dutch are fubjected in

The arrival of the Refolution and Discovery, at fuch a time, could not fail of occasioning fresh alarms; and, therefore, finding there was no probability of my proceeding to Canton, I dispatched a letter to the English fupercargoes, to acquaint them with the cause of our putting into the Typa, to request their assistance in procuring me a paffport, and in forwarding the stores we wanted, of which I fent them a lift, as expeditiously as

Friday 3.

poffible. The next morning I was accompanied on board by our countryman, who pointing out to us the fituation of the Typa, we weighed at half paft fix, and flood toward it; but the wind failing, we came to, at eight, in three and a half fathoms water; Macao bearing West North West, three miles distant; the Grand Ladrone South East by South. The Refolution here faluted the Portugueze fort with eleven guns, which were returned by the fame num-Saturday 4. ber. Early on the 4th, we again weighed, and stood into the Typa, and moored with the stream anchor and cable to the Westward.

The Comprador, whom we at first engaged with, having difappeared with a fmall fum of money, which had been given him to purchase provisions, we contracted with another, who continued to fupply both ships, during our whole ftay. This was done fecretly, and in the night-time, under pretence, that it was contrary to the regulations of the port; but we fuspected all this caution to have been used with a view either of enhancing the price of the articles he furnished, or of fecuring to himself the profits of his employment, without being obliged to share them with the Mandarins.

On the 9th, Captain Gore received an answer from the Thursday 9. Committee of the English Supercargoes at Canton, in which they affured him, that their best endeavours should be used to procure the fupplies we food in need of, as expeditiously as possible; and that a passport should be fent for one of his officers, hoping, at the fame time, that we were fufficiently acquainted with the character of the Chinese Government, to attribute any delays, that might unavoidably happen, to their true cause.

The day following, an English merchant, from one of Friday to. our fettlements in the East Indies, applied to Captain Gore for the affiftance of a few hands to navigate a veffel he had purchased at Macao, up to Canton. Captain Gore judging this a good opportunity for me to proceed to that place, gave orders that I should take along with me my Second Lieutenant, the Lieutenant of marines, and ten feamen. Though this was not precifely the mode in which I could have wished to visit Canton, yet as it was very uncertain when the paffport might arrive, and my prefence

might contribute materially to the expediting of our fupplies, I did not hefitate to put myfelf on board, having left orders with Mr. Williamson, to get the Discovery ready for fea as foon as possible, and to make fuch additions and alterations in her upper works, as might contribute to make her more defenfible. That the feries of our aftronomical observations might suffer no interruption by my absence, I intrusted the care of continuing them to Mr. Trevenen, in whose abilities and diligence I could repose an intire confidence.

Saturday 11. We left the harbour of Macao on the 11th of December, and failing round the South Eastern extremity of the island, we steered to the Northward, leaving, as we passed along, Lantao, Lintin, and feveral fmaller iflands, to the right. All these islands, as well as that of Macao, which lie to the left, are entirely without wood; the land is high and barren, and uninhabited, except occasionally by fishermen. As we approached the Bocca Tygris, which is thirteen leagues from Macao, the Chinese coast appears to the Eastward in fleep white cliffs; the two forts, commanding the mouth of the river, are exactly in the fame state as when Lord Anfon was here; that on the left is a fine old caftle, furrounded by a grove of trees, and has an agreeable romantic appearance.

> We were here vifited by an officer of the customs; on which occasion the owner of the vessel, being apprehensive that, if we were discovered on board, it would occasion some alarm, and might be attended with difagreeable confequences, begged us to retire into the cabin below.

> The breadth of the river above these forts is variable, the banks being low and flat, and fubject to be overflowed by the tide to a great extent. The ground on each fide is level,

and laid out in rice fields; but as we advanced, it rose gradually into hills of confiderable declivity, the fides of which are cut into terraces, and planted with fweet potatoes, fugar-canes, yams, plantains, and the cotton-tree. We faw many lofty pagodas, fcattered over the country, and feveral towns at a diffance, fome of which appeared to be of a confiderable fize.

We did not arrive at Wampû, which is only nine leagues from the Bocca Tygris, till the 18th, our progress having Saturday 18. been retarded by contrary winds, and the lightness of the veffel. Wampû is a fmall Chinese town, off which the ships of the different nations, who trade here, lie, in order to take in their lading. The river, higher up, is faid by M. Sonnerat not to be deep enough to admit heavy-laden veffels, even if the policy of the Chinese had suffered the Europeans to navigate them up to Canton; but this circumstance I cannot take upon me to decide on, as no stranger, I believe, has been permitted to inform himself with certainty of the truth. The fmall islands, that lie opposite to the town, are allotted to the feveral factories, who have built warehouses for the reception of the merchandize that is brought down from Canton.

From Wampû, I immediately proceeded in a sampane, or Chinese boat, to Canton, which is about two leagues and a half higher up the river. These boats are the neatest and most convenient for passengers I ever faw. They are of various fizes, almost flat at the bottom, very broad upon the beam, and narrow at the head and ffern, which are raifed and ornamented; the middle, where we fat, was arched over with a roof of bamboo, which may be raifed or lowered at pleafure; in the fides were fmall windows with shutters, and the apartment was furnished with hand-VOL. III. fome 3 I

fome mats, chairs, and tables. In the stern was placed a fmall waxen idol, in a cafe of gilt leather, before which stood a pot containing lighted tapers made of dry chips, or matches, and gum. The hire of this boat was a Spanish dollar.

I reached Canton a little after it was dark, and landed at the English factory, where, though my arrival was very unexpected, I was received with every mark of attention and civility. The Select Committee, at this time, confifted of Mr. Fitzhugh the Prefident, Mr. Bevan and Mr. Rapier. They immediately gave me an account of fuch stores as the India ships were able to afford us; and though I have not the fmallest doubt, that the Commanders were desirous of affifting us with every thing they could spare, confiftently with a regard to their own fafety, and the interest of their employers, yet it was a great disappointment to me to find in their lift fcarcely any articles of cordage or canvafs, of both which we flood principally in need. It was, however, fome confolation to understand, that the stores were in readiness for shipping, and that the provisions we required might be had at a day's notice. Wishing therefore to make my ftay here as fhort as possible, I requested the gentlemen to procure junks or boats for me the next day, with an intention of leaving Canton the following one; but I was foon informed, that a business of that kind was not to be transacted fo rapidly in this country; that leave must be first procured from the Viceroy; that the Hoppo, or principal officer of the customs, must be applied to for chops, or permits; and that these favours were not granted without mature deliberation; in short, that patience was an indifpenfable virtue in China; and that they hoped to have the pleasure of making the factory agreeable to me, for a

few days longer than I feemed willing to favour them with my company.

Though I was not much disposed to relish this compliment, yet I could not help being diverted with an incident that occurred very opportunely to convince me of the truth of their representations, and of the fuspicious character of the Chinefe. The reader will recollect, that it was now about fifteen days fince Captain Gore had written to the factory, to defire their affistance in procuring leave for one of his officers to pass to Canton. In consequence of this application, they had engaged one of the principal Chinese merchants of the place, to interest himself in our favour, and to folicit the business with the Viceroy. This person came to vifit the Prefident, whilft we were talking on the fubject, and with great fatisfaction and complacency in his countenance acquainted him, that he had at last succeeded in his applications, and that a paffport for one of the officers of the Ladrone ship (or pirate) would be ready in a few days. The Prefident immediately told him not to give himself any farther trouble, as the officer, pointing to me, was already arrived. It is impossible to describe the terror, which feized the old man on hearing this intelligence. His head funk upon his breaft, and the fofa on which he was fitting shook, from the violence of his agitation. Whether the Ladrone ship was the object of his apprehensions, or his own government, I could not discover; but after continuing in this deplorable state a few minutes, Mr. Bevan bade him not defpair, and recounted to him the manner in which I had paffed from Macao, the reasons of my journey to Canton, and my wishes to leave it as foon as possible. This last circumstance feemed particularly agreeable to him, and gave me hopes, that I should find him

1779. December. him equally disposed to hasten my departure; and yet, as soon as he had recovered the courage to speak, he began to recount the unavoidable delays that would occur in my business, the difficulty of gaining admittance to the Viceroy, the jealousies and suspicions of the *Mandarins*, respecting our real designs, which had risen, he said, to an extraordinary height, from the strange account we had given of ourselves.

After waiting feveral days, with great impatience, for the event of our application, without understanding that the matter was at all advanced toward a conclusion, I applied to the Commander of an English country ship, who was to fail on the 25th, and who offered to take the men and stores on board, and to lie to, if the weather should permit, off Macao, till we could fend boats to take them out of his ship. At the fame time he apprized me of the danger there might be of his being driven with them out to fea. Whilft I was doubting what measures to pursue, the Commander of another country ship brought me a letter from Captain Gore, in which he acquainted me, that he had engaged him to bring us down from Canton, and to deliver the stores we had procured, at his own risk, in the Typa. All our difficulties being thus removed, I had leifure to attend to the purchase of our provisions and stores, which was completed on the 26th; and the day following, the whole stock was fent on board.

As Canton was likely to be the most advantageous market for furs, I was desired by Captain Gore to carry with me about twenty sea-otters skins, chiefly the property of our deceased Commanders, and to dispose of them at the best price I could procure; a commission, which gave me an opportunity of becoming a little acquainted with the genius

nius of the Chinese for trade. Having acquainted some of the English supercargoes with these circumstances, I desired them to recommend me to fome Chinese merchant of credit and reputation, who would at once offer me a fair and reafonable price. I was accordingly directed to a member of the Hong, a fociety of the principal merchants of the place, who being fully informed of the nature of the bufiness, appeared fenfible of the delicacy of my fituation; affured me, I might depend on his integrity; and that, in a case of this fort, he should consider himself merely as an agent, without looking for any profit to himfelf. Having laid my goods before him, he examined them with great care, over and over again, and at last told me, that he could not venture to offer more than three hundred dollars for them. As I knew, from the price our skins had fold for in Kamtschatka, that he had not offered me one half their value, I found myfelf under the necessity of driving a bargain. In my turn, I therefore demanded one thousand; my Chinese then advanced to five hundred; then offered me a private prefent of tea and porcelain, amounting to one hundred more; then the fame fum in money; and, laftly, rose to seven hundred dollars, on which I fell to nine hundred. Here, each fide declaring he would not recede, we parted; but the Chinese soon returned with a list of India goods, which he now proposed I should take in exchange, and which, I was afterward told, would have amounted in value, if honeftly delivered, to double the fum he had before offered. Finding I did not choose to deal in this mode, he proposed as his ultimatum, that we should divide the difference, which, being tired of the contest, I consented to, and received the eight hundred dollars.

The ill health, which at this time I laboured under, left

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me little reason to lament the very narrow limits, within which the policy of the Chinese obliges every European at Canton to confine his curiofity. I should otherwise have felt exceedingly tantalized with living under the walls of fo great a city, full of objects of novelty, without being able to enter it. The accounts given of this place by Peres le Comte and Du Halde, are in every one's hand. These authors have lately been accused of great exaggeration by M. Sonnerat; for which reason the following observations, collected from the information with which I have been obligingly furnished by feveral English gentlemen, who were a long time refident at Canton, may not be unacceptable to the Public.

Canton, including the old and new town, and the fuburbs, is about ten miles in circuit. With respect to its population, if one may judge of the whole, from what is feen in the fuburbs, I should conceive it to fall considerably short of an European town of the fame magnitude. Le Comte estimated the number of inhabitants at one million five hundred thousand; Du Halde at one million; and M. Sonnerat fays he has afcertained them to be no more than feventy-five thousand \*: but, as this gentleman has not favoured us with the grounds on which his calculation was founded; and, befides, appears as defirous of depreciating every thing that relates to the Chinese, as the Jesuits may be of magnifying, his opinion certainly admits of fome doubt. The following circumftances may perhaps lead the reader to form a judgment with tolerable accuracy on this subject.

A Chinese

A Chinese house, undoubtedly, occupies more space than is usually taken up by houses in Europe: but the proportion fuggested by M. Sonnerat, of four or five to one, certainly goes much beyond the truth. To this should be added, that a great many houses, in the suburbs of Canton, are occupied, for commercial purpofes only, by merchants and rich tradefmen, whose families live entirely within the city. On the other hand, a Chinese family appears to confift, on an average, of more persons than an European. A Mandarin, according to his rank and fubstance, has from five to twenty wives. A merchant, from three to five. One of this class at Canton, had, indeed, twenty-five wives, and thirty-fix children; but this was mentioned to me as a very extraordinary instance. An opulent tradefman has usually two; and the lower class of people very rarely more than one. Their fervants are at leaft double in number to those employed by persons of the same condition in Europe. If, then, we suppose a Chinese family one-third larger, and an European house two-thirds less, than each other, a Chinese city will contain only half the number of inhabitants contained in a European town of the fame fize. According to these data, the city and suburbs of Canton may probably contain about one hundred and fifty thousand.

THE PACIFIC OCEAN.

With respect to the number of inhabited Sampanes, I found different opinions were entertained; but none placing them lower than forty thousand. They are moored in rows close to each other, with a narrow passage, at intervals, for the boats to pass up and down the river. As the Tygris, at Canton, is fomewhat wider than the Thames, at London; and the whole river is covered in this manner for the extent of at least a mile; this account of their number does not

<sup>\*</sup> J'ai verifié moi-même, avec plufieurs Chinois, la population de Canton, de la ville de Tartare, & de celle de Battaux, &c. Voyage aux Indes, &c, par M. Sonnerat, Tom. II. p. 14.

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appear to me, in the leaft, exaggerated; and if it be allowed, the number of inhabitants in the Sampanes alone (for each of them contains one family), must amount to nearly three times the number supposed by M. Sonnerat to be in the whole city.

The military force of the province, of which Canton is the capital, amounts to fifty thousand men. It is faid that twenty thousand are stationed in and about the city; and, as a proof of this, I was assured, that, on the occasion of some disturbance that had happened at Canton, thirty thousand men were drawn together within the space of a few hours.

The streets are long, and most of them narrow and irregular; but well paved with large stones; and, for the most part, kept exceedingly clean. The houses are built of brick, one story high, having generally two or three courts backward, in which are the ware-houses for merchandize, and, in the houses within the city, the apartments for the women. A very few of the meanest fort are built of wood.

The houses belonging to the European factors, are built on an handsome quay, with a regular façade of two stories toward the river, and disposed, within, partly after the European, and partly after the Chinese manner. Adjoining to these are a number of houses, belonging to the Chinese, and hired out to the commanders of ships, and merchants, who make an occasional stay. As no European is allowed to bring his wife to Canton, the English supercargoes live together, at a common table, which is kept by the company, and have each a separate apartment, consisting of three or four rooms. The time of their residence seldom exceeds eight months annually; and as they are pretty constantly

stantly employed, during that time, in the service of the Company, they may fubmit, with the less regret, to the reftraints they are kept under. They very rarely pay any vifits within the walls of Canton, except on public occasions. Indeed, nothing gave me fo unfavourable an idea of the character of the Chinese, as to find, that, amongst so many perfons of liberal minds, and amiable manners, fome of whom have refided in that country for near fifteen years together, they have never formed any friendship or focial connection. As foon as the last ship quits Wampû, they are all obliged to retire to Macao; but, as a proof of the excellent police of the country, they leave all the money they poffess in specie behind them, which, I was told, sometimes amounted to one hundred thousand pounds sterling, and for which they had no other fecurity than the feals of the merchants of the Hong, the viceroy, and Mandarins.

During my ftay at Canton, I was carried, by one of the English gentlemen, to visit a person of the first consequence in the place. We were received in a long room or gallery, at the upper end of which stood a table, with a large chair behind it, and a row of chairs extending from it on each side down the room. Being previously instructed, that the point of civility consisted in remaining as long unseated as possible, I readily acquitted myself of this piece of etiquette; after which we were entertained with tea, and some preferved and fresh fruits. Our host was very fat, with a heavy dull countenance, and of great gravity in his deportment. He spoke a little broken English and Portugueze; and, after we had taken our refreshment, he carried us about his house and garden; and having shewed us all the improvements he was making, we took our leave.

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Having

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Having procured an account of the price of provisions at Canton, as settled for the year 1780, which the reader will find at the end of this Chapter, I have only to observe, that the different articles are supposed to be the best of the kind; and that the natives purchase the same for nearly one-third less than the price, which in the list is fixed only for

I had hitherto intended, as well to avoid the trouble and delay of applying for paffports, as to fave the unneceffary expence of hiring a Sampane, which I understood amounted at least to twelve pounds sterling, to go along with the stores to Macao, in the country merchant's ship I have before mentioned: but having received an invitation from two English gentlemen, who had obtained passports for four, I accepted, along with Mr. Philips, their offer of places in a Chinese boat, and left Mr. Lannyon to take care of the men and stores, which were to fail the next day. In the evening Sunday 26. of the 26th, I took my leave of the fupercargoes, having thanked them for their many obliging favours; amongst which I must not forget to mention an handsome present of tea for the use of the ships companies, and a large collection of English periodical publications. The latter we found a valuable acquifition, as they both ferved to amufe our impatience, during our tedious voyage home, and enabled us to return not total ftrangers to what had been transacting in our native country. At one o'clock, the next Monday 27. morning, we left Canton, and arrived at Macao about the Tuefday 28. fame hour the day following, having paffed down a channel, which lies to the Westward of that by which we had come up.

During our absence, a brisk trade had been carrying on with the Chinese, for the sea-otter skins, which had, every

day, been rifing in their value. One of our feamen fold his ftock, alone, for eight hundred dollars; and a few prime fkins, which were clean, and had been well preferved, were fold for one hundred and twenty each. The whole amount of the value, in specie and goods, that was got for the furs, in both ships, I am confident, did not fall short of two thousand pounds sterling; and it was generally supposed, that at least two-thirds of the quantity we had originally got from the Americans, were spoiled and worn out, or had been given away, and otherwife disposed of, in Kamtschatka. When, in addition to these facts, it is remembered, that the furs were, at first, collected without our having any idea of their real value; that the greatest part had been worn by the Indians, from whom we purchased them; that they were afterward preserved with little care, and frequently used for bed-clothes, and other purposes, during our cruize to the North; and that, probably, we had never got the full value for them in China; the advantages that might be derived from a voyage to that part of the American coast, undertaken with commercial views, appear to me of a degree of importance fufficient to call for the attention of the Public.

The rage with which our feamen were possessed to return to Cook's River, and, by another cargo of skins, to make their fortunes, at one time, was not far short of mutiny; and I must own, I could not help indulging myself in a project, which the disappointment we had suffered, in being obliged to leave the Japanese Archipelago, and the Northern coast of China, unexplored, first suggested; and, by what I conceived, that object might still be happily accomplished, through means of the East India Company, not only without expence, but even with the prospect of very consider-

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able

1779. December. able advantages. Though the fituation of affairs at home, or perhaps greater difficulties in the execution of my scheme than I had foreseen, have hitherto prevented its being carried into effect, yet, as I find the plan in my journal, and still retain my partiality for it, I hope it will not be entirely foreign to the nature of this work, if I beg leave to insert it here.

I proposed then, that the Company's China ships should carry an additional complement of men each, making in all one hundred. Two veffels, one of two hundred and the other of one hundred and fifty tons, might, I was told, with proper notice, be readily purchased at Canton; and, as victualling is not dearer there than in Europe, I calculate, that they might be completely fitted out for fea, with a year's pay and provision, for fix thousand pounds, including the purchase. The expence of the necessary articles for barter is fcarcely worth mentioning. I would, by all means, recommend that each ship should have five tons of unwrought iron, a forge, and an expert fmith, with a journeyman and apprentice, who might be ready to forge fuch tools, as it should appear the Indians were most desirous of. For though fix of the finest skins purchased by us, were got for a dozen large green glass beads, yet it is well known, that the fancy of these people for articles of ornament, is exceedingly capricious; and that iron is the only fure commodity for their market. To this might be added a few gross of large-pointed cafe-knives, fome bales of coarfe woollen cloth (linen they would not accept of from us), and a barrel or two of copper and glass trinkets.

I have here proposed two ships, not only for the greater security of the expedition, but because I think single ships ought never to be sent out on discoveries. For where risks are to be run, and doubtful and hazardous experiments tried, it cannot be expected that fingle ships should venture fo far, as where there is some security provided against an untoward accident.

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The veffels being now ready for fea, will fail with the first South Westerly monsoon, which generally fets in about the beginning of April. With this wind they will steer to the Northward, along the coast of China, beginning a more accurate furvey from the mouth of the river Kyana, or the Nankin River, in latitude 30°, which I believe is the utmost limit of this coast hitherto visited by European ships. As the extent of that deep gulf called Whang Hay, or the Yellow Sea, is at prefent unknown, it must be left to the discretion of the Commander, to proceed up it as far as he may judge prudent; but he must be cautious not to entangle himself too far in it, lest he should want time for the profecution of the remaining part of his enterprize. The fame discretion must be used, when he arrives in the Straits of Teffoi, with respect to the islands of Jeso, which, if the wind and weather be favourable, he will not lose the opportunity of exploring.

Having proceeded to the latitude of 51° 40′, where he will make the Southernmost point of the island of Sagaleen, beyond which the sea of Okotzk is sufficiently known, he will steer to the Southward, probably in the beginning of June, and endeavour to fall in with the Southernmost of the Kurile islands. Ooroop or Nadeegsda, according to the accounts of the Russians, will surnish the ships with a good harbour where they may wood and water, and take in such other refreshments as the place may afford. Toward the end of June, they will shape their course for the Shummagins, and from thence to Cook's River, purchasing, as

they proceed, as many fkins as they are able, without lofing too much time, fince they ought to fteer again to the Southward, and trace the coast with great accuracy from the latitude of 56° to 50°, the space from which we were driven out of fight of land by contrary winds. It should here be remarked, that I confider the purchase of skins, in this expedition, merely as a fecondary object, for defraying the expence; and it cannot be doubted, from our experience in the prefent voyage, that two hundred and fifty fkins, worth one hundred dollars each, may be procured without any lofs of time; efpecially as it is probable they will be met with along the coast to the Southward of Cook's River.

Having spent three months on the coast of America, they will fet out on their return to China early in the month of October, avoiding in their route, as much as poffible, the tracks of former navigators. I have now only to add, that if the fur trade should become a fixed object of Indian commerce, frequent opportunities will occur of completing whatever may be left unfinished, in the voyage of which I have here ventured to delineate the outlines.

The barter which had been carrying on with the Chinese for our fea-otter fkins, had produced a very whimfical change in the drefs of all our crew. On our arrival in the Typa, nothing could exceed the ragged appearance both of the younger officers and feamen; for, as our voyage had already exceeded, by near a twelvemonth, the time it was at first imagined we should remain at sea, almost the whole of our original flock of European clothes had been long worn out, or patched up with skins, and the various manufactures we had met with in the course of our discoveries.

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These were now again mixed and eked out with the gaudieft filks and cottons of China.

On the 30th, Mr. Lannyon arrived with the stores and Thursday 30.

provisions, which were immediately stowed in due proportion on board the two ships. The next day, agreeably to a Friday 31. bargain made by Captain Gore, I fent our sheet anchor to the country ship, and received in return the guns, which fhe before rode by. Whilft we lay in the Typa, I was shewn, in a garden

belonging to an English gentleman at Macao, the rock, under which, as the tradition there goes, the poet Camoens used to sit and compose his Lusiad. It is a lofty arch, of one folid stone, and forms the entrance of a grotto dug out of the rifing ground behind it. The rock is overfhadowed by large fpreading trees, and commands an extenfive and magnificent view of the fea, and the interspersed iflands.

On the 11th of January, two feamen belonging to the Refolution found means to run off with a fix-oared cutter, Tuefday 11. and, notwithstanding diligent search was made, both that and the following day, we were never able to learn any tidings of her. It was supposed, that these people had been feduced by the prevailing notion of making a fortune, by returning to the fur islands.

As we heard nothing, during our ftay in the Typa, of the measurement of the ships, it may be concluded, that the point fo ftrongly contested by the Chinese, in Lord Anson's time, has, in confequence of his firmness and resolution, never fince been infifted on.

The following nautical observations were made while we lay here:

Harbour

January.

Harbour of Macao - - Lat. 22° 12′ 0″ North.

Long. 113 47 0 Eaft.

Anchoring-place in the Typa. Lat. 22 9 20 North.

Long. 113 48 34 Eaft.

Mean dip of the North pole of the magnetic needle - - 1 1 0

Variation of the compass - 0 19 0 West.

On the full and change days it was high water in the Typa at 5<sup>h</sup> 15<sup>m</sup>, and in Macao harbour at 5<sup>h</sup> 50<sup>m</sup>. The greatest rise was six feet one inch. The flood appeared to come from the South Eastward; but we could not determine this point with certainty, on account of the great number of islands which lie off the mouth of the river of Canton.

## Prices of Provisions at Canton, 1780.

			£.	s.	d.
Ananas	-	-	0	4	o a fcore.
Arrack	-	-	0	0	8 per bottle.
Butter	-	-	0	2	44 per catty *.
Beef, Canton -	4	-	0	0	21
Ditto, Macao -	-	-	0	0	51/3
Birds-nefts			3		8
Bifcuit	-	-	0	0	4
Beache de Mar -	-	-	0	2	04
Calf	2	-	1	6	93 each.
Caravances, dried	-				23 per catty.
Cabbage, Nankeen	- 20		0		
Curry stuff -	-		0		
* A catty is	18 oz.—a	pecu	100	catty	

Coffee

		18	£.	s.	d.		178
Coffee		- L'	0	I	4	per catty.	Janu
Cocoa-nuts	_		0	0	4	each.	-
Charcoal	-	-	0	3	4	per pecul.	
Coxice	-	-	0	I	4	per catty.	
Canton nuts -			0	0	4	The state of	1
Chefnuts		1 2	0	0	22	and the same of	
Cockles			0	0	31	and the lamber of	
Ducks			0	0	55		
Ditto, wild	_	_	0	I	1000	each.	
Deers finews -	_	_	0	2	100	per catty.	
Eels		_	0	0	62	per catej.	
Eggs		_	0	2	1000	per hundred.	
Fifh, common -		-	0	0		per catty.	
Ditto, best -		_	0	0	62		-
Ditto falted, Nankeen,		_	0	0	93		
Fruit	_	_	0	0	17		
Ditto, Nankeen -		_	0	2	0		
Frogs	_	_	0	0	62		
Flour		_	0	0	17	6	
Fowls, capons, &c.			0	0	75		
Fish maws -			0	2	11	The state of the s	
Geefe			0	0	63		
Greens			0	0	Ił		
Grafs	1000		0	0	1	per bundle.	
			0				
Grapes				I	23	per catty.	
Hartshorn		_	0	I	1000		
	-	-	0	I	4		
Hogflard	-	-	0	0	75		
Hog, alive		-	0	0	44	D. Saltano III	
Kid, alive -	-	-	0	0	4‡	Y target	
Vol. III.		3 L				Limes	

1780.			£.	s.	d.	
January.	Limes	-	0	0	04	per catty.
	Litchis, dried	-	0	0	25	
	Lockfoy	-	0	0	62	
. 12	Lobchocks	-	0	0	53	STILL TO
	Lamp oil		0	0	53	A XIII
	Lamp wick		0	0	8	STENSING ST
	Melons		0	0	45	each.
	Milk		0	0	ΙŢ	per catty.
	Ditto, Macao		0	0	35	tell products
	Mustard feed		0	0	62	
	Mushrooms, pickled		0	2	8	
	Ditto, fresh	-	0	1	4	
	Oyfters	-	0	3	4	per pecul.
	Onions, dried	-	0	0	23	per catty.
	Pork	-	0	0	77	
	Pig	-	0	0	53	m
	Paddy	-	0	0	05	
	Pepper		0	1	04	
	Pheafants		0	5	4	each.
	Partridges	-	0	0	$9\frac{3}{5}$	
	Pigeons	-	0	0	53	
	Pomegranates	-	0	0	23	- 1000
	Quails	-	0	0	13	
	Rabbits	-	0	I	4	• 200
	Rice	-	0	0	2	per catty.
	Ditto, red	-	0	0	23	
	Ditto, coarse	-	0	0	1,	
	Ditto, Japan	-	0	0	8	
	Raifins	-	0	2	0	
	Sheep	-	3	6	8	each.
	and, and a second of					Snipes

						£.	s.	d.		1780.
	Snipes	-	-		-	0	0	II.	per catty.	January.
	Sturgeon	-	-		~	0	4	93		
	Ditto, fmall -	-	-		-	0	2	45		
	Sugar	-	-		-	0	0	3:	mbroil.	0 10 10
	Salt	-	_		-	0	0	IT.		
	Saltpetre		-		-	0	2	13	-	
	Soy	-	-		-	0	0	13		
	Spices	-	-		-	0	16	8	ns "endude	
	Sweet-meats -	- V	-		-	0	0	63	*	
	Sago	-0	-		-	0	0	35	THE PARTY OF THE P	
	Sallad	. 0	- 0		-	0	0	25		
	Sharks fins -	-	4		-	0	2	I's		
	Samfui foy -	-	-		_	0	0	23	OKOME .	
	Teal	-			-	0	0	63	each.	
	Turtle	-	-	-	-	0	0	93	per catty.	
	Tea	-	-		-	0	2	0	7	100.0
	Turmerick	-		-	-	0	0	25	×	
	Tamarinds -	-	-		-	0	0	8		
	Vinegar	-	-		-	0	0	13		
	Vermicelli	-		-	-	0	0	35		
	Wax candles -	-	-		-	0	3	0		
	Walnuts	-	-		-	0	0	44		
	Wood	-	-		-	0	I	4	per pecul.	
	Water	-	_		-	0	6	8	per 100 B'.	
	MANAGEMENT & CO.									
		- 0	s.							
	Rent of Poho Factory	400	0	0	pe	er a	nnı	ım.		
	- of Lunfoon -	316	13	4						
C	Servants rice -	0	8	0	pe	er n	non	th.		
	Ditto wages -	0	19	25	pe	er n	non	th fo	r refiants.	
										= 1

3 L 2

Servants

Doll.

Servants wages for ? the feafon - \ Stewards wages - 80 per annum. Butlers ditto - - 80

## Prices of Labour.

f. s. d. A coolee, or porter - o o 8 per day. A taylor - - 0 0 5 and rice. A handicraftfman - o o 8 A common labourer, from 3d. to 5d. A woman's labour confiderably cheaper.

CHAP. X.

Leave the Typa .- Orders of the Court of France respecting Captain Cook .- Resolutions in consequence thereof .- Strike Soundings on the Macclesfield Banks .- Pass Pulo Sapata. -Steer for Pulo Condore. - Anchor at Pulo Condore. Transactions during our Stay .- Journey to the principal Town.—Receive a Visit from a Mandarin.—Examine bis Letters .- Refreshments to be procured .- Description, and present State of the Island .- Its Produce .- An Assertion of M. Sonnerat refuted .- Astronomical and Nautical Ob-Servations.

N the 12th of January, 1780, at noon, we unmoored, and scaled the guns, which, on board my ship, now amounted to ten; fo that, by means of four additional ports, Wednef. 12. we could, if occasion required, fight seven on a side. In like manner, the Refolution had increased the number of her guns from twelve to fixteen; and, in both fhips, a ftout barricade was carried round their upper works, and every other precaution taken to give our fmall force as respectable an appearance as possible.

We thought it our duty to provide ourselves with these means of defence, though we had fome reason to believe, that the generofity of our enemies had, in a great measure, rendered them superfluous. We were informed at Canton, that the public prints, which had arrived last from Eng-

CHAP.

land, made mention of inftructions having been found on board all the French ships of war, captured in Europe, directing their commanders, in case of falling in with the ships that failed under the command of Captain Cook, to fuffer them to proceed on their voyage without molestation. The fame orders were also faid to have been given by the American congress to the vessels employed in their service. As this intelligence was farther confirmed by the private letters of feveral of the fupercargoes, Captain Gore thought himfelf bound, in return for the liberal exceptions made in our favour, to refrain from availing himself of any opportunities of capture, which these seas might afford, and to preferve, throughout his voyage, the ftrictest neutrality.

At two in the afternoon, having got under fail, the Refolution faluted the fort of Macao with eleven guns, which was returned with the fame number. At five, the wind dropping, the ship miffed stays, and drove into shallow water; but, by carrying out an anchor, she was hauled off without receiving the fmallest damage. The weather continuing calm, we were obliged to warp out into the entrance of the Typa, which we gained by eight o'clock, and Thursday 13. lay there till nine the next morning; when, by the help of a fresh breeze from the East, we stood to the Southward between Potoe and Wungboo.

At noon, we were faluted by a Swedish ship as she passed us on her way to Europe. At four the Ladrone bore Eaft, diffant two leagues. We now fleered South half Eaft, with a fresh breeze from the East North East, without any occur-Saturday 15. rence worth remarking, till noon of the 15th; when, being in latitude 18° 57', and longitude 114° 13', the wind veering to the North, we directed our course half a point more to

the

the Eastward, in order to strike foundings over the Maccleffield Bank. This we effected at eight in the evening of the 16th, and found the depth of water to be fifty fathoms, Sunday 16. over a bottom of white fand and shells. This part of the Macclesfield fhoals we placed in latitude 15° 51', and longitude 114° 20'; which agrees very exactly with the position given in Mr. Dalrymple's map, whose general accuracy, if it flood in need of any fupport, was confirmed, in this instance, by a great number of lunar observations, which we had an opportunity of making every day fince we left the Typa. The variation was found to be, in the forenoon, o° 39' West.

On the 17th, we had heavy gales from the East by North, Monday 17. with a rough tumbling fea, and the weather overcast and boifterous. On the 18th, the wind still continued to blow Tuesday 18. ftrong, and the fea to run high, we altered our course to South West by South; and, at noon, being in latitude 12° 34', longitude 112°, we began to fteer a point more to the Westward for Pulo Sapata, which we faw on the 19th, at four Wednes 19. in the afternoon, bearing North West by West, about four leagues diftant. This fmall, high, barren island is called Sapata, from its refemblance of a shoe. Our observations, compared with Mr. Bayly's time-keeper, place it in latitude 10° 4' North, longitude 100° 10' East. The gale had, at this time, increased with fuch violence, and the sea ran so high, as to oblige us to clofe-reef the topfails. During the laft three days, the ships had outrun their reckoning at the rate of twenty miles a day, and, as we could not attribute the whole of this to the effects of a following fea, we imputed it in part to a current, which, according to my own calculations, had fet forty-two miles to the South South West, between the noon of the 19th, and the noon of the 20th;

notwithstanding a second gun had been fired, Captain

and is taken into the account in determining the fituation of the island.

After paffing Sapata, we fleered to the Westward; and at midnight founded, and had ground with fifty fathoms of Thursday 20. line, over a fine fandy bottom. In the morning of the 20th, the wind becoming more moderate, we let out the reefs, and steered West by South for Pulo Condore. At noon the latitude was 8° 46' North, longitude 106° 45' East; and at half past twelve we got fight of the island, bearing West. At four, the extremes of Pulo Condore, and the islands that lie off it, bore South East and South West by West; our diftance from the nearest islands being two miles. We kept to the North of the islands, and stood for the harbour on the South West end of Condore, which, having its entrance from the North West, is the best sheltered during the North East monfoon. At fix, we anchored, with the best bower, in fix fathoms, veered away two thirds of the cable, and kept the ship steady with a stream anchor and cable to the South East. When moored, the extremes of the entrance of the harbour bore North by West, and West North West one quarter West; the opening at the upper end South East by East three quarters East; our distance from the nearest shore a quarter of a mile.

As foon as we were come to anchor, Captain Gore fired a gun, with a view of apprifing the natives of our arrival, and drawing them toward the shore, but without effect. Friday 21. Early in the morning of the 21st, parties were fent to cut wood, which was Captain Gore's principal motive for coming hither. In the afternoon, a fudden guft of wind broke the stream-cable, by which the Discovery was riding, and obliged us to moor with the bower anchors.

None of the natives having yet made their appearance, notwithstanding

Gore thought it adviseable to land, and go in fearch of them, that no time might be loft in opening a trade for fuch provisions as the place could afford: with this view, he appointed me to accompany him, in the morning of the 22d; and, as the wind at this time blew strong from the Saturday 22. East, we did not think it prudent to coast in our boats to the town, which is fituated in the East fide of the island, but rowed round the North point of the harbour. We had proceeded about two miles along the shore, when, obferving a road that led into a wood, we landed. Here I quitted Captain Gore, taking with me a Midshipman, and four armed failors, and purfued the path, which feemed to point directly across the island. We proceeded through a thick wood, up a steep hill, to the distance of a mile, when, after descending through a wood of the same extent, on the other fide, we came out into a flat, open, fandy country, interspersed with cultivated spots of rice and tobacco, and groves of cabbage palm-trees, and cocoa-nut-trees. We here spied two huts, situated on the edge of the wood, to

On reaching the huts, I ordered the party to flay without, left the fight of fo many armed men should terrify the inhabitants, whilft I entered and reconnoitred alone. I found, in one of the huts, an elderly man, who was in a great fright, and preparing to make off with the most valuable of his effects that he could carry. However, I was fortunate enough, in a very little time, fo entirely to dispel his fears, that he came out, and called to the two men, who VOL. III. 3 M

which we directed our courfe; and before we came up to

them, were deferied by two men, who immediately ran

away from us, notwithstanding all the peaceable and sup-

plicating gestures we could devise.

1780. January.

were running away, to return. The old man and I now foon came to a perfect understanding. A few figns, particularly that most fignificant one of holding out a handful of dollars, and then pointing to a herd of buffaloes, and the fowls that were running about the huts in great numbers, left him without any doubts as to the real objects of our vifit. He pointed toward a place where the town flood, and made us comprehend, that by going thither, all our wants would be fupplied. By this time the young men, who had fled, were returned, and the old man ordered one of them to conduct us to the town, as foon as an obstacle should be removed, of which we were not aware. On our first coming out of the wood, a herd of buffaloes, to the number of twenty at leaft, came running toward us, toffing up their heads, fnuffing the air, and roaring in a hideous manner. They had followed us to the huts, and flood drawn up in a body, at a little distance; and the old man made us understand, that it would be exceedingly dangerous for us to move, till they were driven into the woods; but fo enraged were the animals grown at the fight of us, that this was not effected without a good deal of time and difficulty. The men, not being able to accomplish it, we were furprized to see them call to their affiftance a few little boys, who foon drove them out of fight. Afterward, we had occasion to observe, that in driving thefe animals, and fecuring them, which is done by putting a rope through a hole which is made in their noftrils, little boys were always employed, who could ftroke and handle them with impunity, at times when the men durft not approach them. Having got rid of the buffaloes, we were conducted to the town, which was at a mile's distance; the road to it lying through a deep white fand. It is fituated near

must afford a safe road-stead during the prevalence of the South West monsoons.

This town confifts of between twenty and thirty houses, built close together; besides six or seven others that are scattered about the beach. The roof, the two ends, and the side fronting the country, are neatly constructed of reeds; the opposite side, facing the sea, is entirely open; but, by means of a fort of bamboo screens, they can exclude or let in as much of the sun and air as they please. We observed, likewise, other large screens or partitions, for the purpose of dividing, as occasion required, the single room of which the house, properly speaking, consists, into separate apartments.

We were conducted to the largest house in the town, belonging to their Chief, or, as they called him, their Captain. This house had a room at each end, separated by a partition of reeds from the middle space, which was open on both sides, and provided with partition screens like the others. It had, besides, a penthouse, projecting four or sive feet beyond the roof, and running the whole length on each side. At each end of the middle room were hung some Chinese paintings, representing men and women in ludicrous attitudes. In this apartment we were civilly desired to seat ourselves on mats, and betel was presented to us.

By means of my money, and pointing at different objects in fight, I had no difficulty in making a man, who feemed to be the principal person of the company, comprehend the main business of our errand; and I as readily understood from him, that the Chief, or Captain, was absent, but would soon return; and that, without his consent, no purchases

January.

purchases of any kind could be made. We availed ourselves of the opportunity which this circumstance afforded us, to walk about the town; and did not forget to search, though in vain, for the remains of a fort, which had been built by our countrymen near the spot we were now upon, in 1702 \*.

On returning to the Captain's house, we were forry to find that he was not yet arrived; and the more fo, as the time was almost elapsed which Captain Gore had fixed for our return to the boat. The natives were defirous we should lengthen our stay; they even proposed our passing the night there, and offered to accommodate us in the best manner in their power. I had observed, when we were in the house before, and now remarked it the more, that the man I have mentioned above, frequently retired into one of the end rooms, and staid there some little time, before he answered the questions that were put to him; which led me to fuspect that the Captain was all the time there, though, for reasons best known to himself, he did not choose to appear; and I was confirmed in this opinion, by being flopped as I was attempting to go into the room. At length, it clearly appeared that my fuspicions were well founded; for, on our preparing to depart, the person who had so often passed in and out, came from the room with a

paper

paper in his hand, and gave it to me to read; and I was not a little furprized to find it a fort of a certificate in French, as follows:

January.

PIERRE JOSEPH GEORGE, Evêque d'Adran, Vicaire Apost. de Cochin China, &c. &c.

Le petit Mandarin, porteur de cet écrit, est véritablement Envoyé de la cour à Pulo Condore, pour y attendre et recevoir tout vaisseau European qui auroit sa destination d'approcher ici. Le Capitaine, en consequence, pourroit se sier our pour conduire le vaisseau au port, ou pour faire passer les nouvelles qu'il pourroit croire nécessaire

A SAI-GON, 10 d'Août 1779. PIERRE JOSEPH GEORGE, Evêque d'Adran.

We returned the paper, with many protestations of our being the Mandarin's good friends, begging he might be informed that we hoped he would do us the favour to vifit the ships, that we might convince him of it. We now took our leave, well fatisfied, on the whole, with what had paffed, but full of conjectures about this extraordinary French paper. Three of the natives offered their fervices to accompany us back, which we readily accepted, and returned by the way we came. Captain Gore felt peculiar fatisfaction at feeing us; for, as we had exceeded our time near an hour, he began to be alarmed for our fafety, and was preparing to march after us. He and his party had, during our absence, been profitably employed, in loading the boat with the cabbage-palm, which abounds in this bay. Our guides were made exceedingly happy, on our prefenting them with a dollar each for their trouble, and intrusting

<sup>\*</sup> The English settled here in the year 1702, when the sactory of Chusan, on the coast of China, was broken up, and brought with them some Macassar soldiers, who were hired to assist in building a fort; but the president not sulfilling his engagement with them, they watched an opportunity, and one night murdered all the English in the fort. Those without the fort, hearing a noise, took the alarm, and ran to their boats, very narrowly escaping with their lives, but not without much satigue, hunger, and thirst, to the Johore dominions, where they were treated with great humanity. Some of these asterward went to form a settlement at Benjar-Massean, on the island of Borneo.—East India Directory, p. 86.

1780. January. intrusting to their care a bottle of rum for the Mandarin. One of them chose to accompany us on board.

At two in the afternoon we joined the ships, and several of our shooting parties returned about the same time from the woods, having had little success, though they saw a great variety of birds and animals, some of which will be hereafter noticed.

At five, a proa, with fix men, rowed up to the ship, from the upper end of the harbour, and a decent-looking perfonage introduced himfelf to Captain Gore with an eafe and good-breeding, which convinced us his time had been fpent in other company than what this island afforded. He brought with him the French paper above transcribed, and faid he was the Mandarin mentioned in it. He spoke a few Portugueze words, but, as none of us were acquainted with this language, we were obliged to have recourfe to a black man on board, who could fpeak the Malay, which is the general language of these islanders, and was understood by the Mandarin. After a little previous conversation, he declared to us, that he was a Christian, and had been baptized by the name of Luco; that he had been fent hither in August last, from Sai-gon, the capital of Cochin China, and had fince waited in expectation of fome French ships, which he was to pilot to a fafe port, not more than a day's fail hence, upon the coast of Cochin China. We acquainted him, that we were not French, but English, and asked him, whether he did not know, that thefe two nations were now at war with one another. He made answer in the affirmative; but, at the same time, fignified to us, that it was indifferent to him to what nation the ships he was instructed to wait for belonged, provided their object was to trade with the people of Cochin China. He here produced another paper,

paper, which he defired us to read. This was a letter fealed, and directed "To the Captains of any European veffels that may touch at Condore." Although we apprehended that this letter was defigned for French ships in particular, yet as the direction included all European Captains, and as Luco was defirous of our perufing it, we broke the feal, and found it to be written by the Bishop who wrote the certificate. Its contents were as follows: "That having reafon to expect, by fome late intelligence from Europe, that a veffel would foon come to Cochin China, he had, in confequence of this news, got the Court to fend a Mandarin (the bearer) to Pulo Condore, to wait its arrival; that if the veffel should put in there, the Commander might either fend by the bearer an account to him of his arrival, or trust himself to the Mandarin, who would pilot him into a wellsheltered port in Cochin China, not more than a day's fail from Condore; that, should he choose to remain in Condore till the return of the meffenger, proper interpreters would be fent back, and any other affiftance, which a letter should point out, be furnished; that it was unnecessary to be more particular, of which the Captain himself must be fenfible." This letter had the fame date as the certificate, and was returned to Luco again, without any copy being taken.

From this letter, and the whole of Luco's conversation, there remained little doubt, that it was a French ship he was to expect; at the same time we found he would be glad not to lose his errand, and had no objection to become our pilot. We could not discover from the *Mandarin*, the exact object and business which the vessel he was waiting for, intended to prosecute in Cochin China. It is true, that our interpreter, the black, was extremely dull and stupid,

January.

1780. January.

and I should therefore be forry, with such imperfect means of information, to run the risk of misleading the reader by any conjectures of my own, respecting the object of Luco's visit to this island. I shall only add, that he told us the French ships might perhaps have put into Tirnon, and from thence sail to Cochin China; and, as he had received no intelligence of them, he thought this most likely to have been the case.

Captain Gore's inquiries were next directed to find out what fupplies could be obtained from the island. Luco faid, that he had two buffaloes of his own, which were at our fervice; and that there were plenty on the island, which might be purchased for four or five dollars a head; but finding that Captain Gore thought that sum exceedingly moderate, and would willingly give for them a much greater, the price was afterward raised upon us to seven and eight dollars.

Sunday 23.

Early in the morning of the 23d, the launches of both ships were sent to the town, to setch the buffaloes which we had given orders to be purchased; but they were obliged to wait till it was high-water, as they could at no other time get through the opening at the head of the harbour. On their arrival at the village, they found the surf breaking on the beach with such force, that it was with the utmost difficulty each launch brought a buffaloe on board in the evening, and the officers, who were sent on this service, gave it as their opinion, that between the violence of the surf, and the sierceness of the buffaloes, it would be extremely imprudent to attempt bringing any more off in this way. We had purchased eight, and were now at a loss in what manner to proceed to get them on board. We could kill no more than was just necessary for the consumption of one

day, as in this climate meat will not keep till the next. After confulting with Luco, it was concluded, that the remainder should be driven through the wood, and over the hill down to the bay, where Captain Gore and I had landed the day before, which being sheltered from the wind, was more free from furf. This plan was accordingly put in execution; but the untractableness and prodigious strength of the buffaloes, rendered it a tedious and difficult operation. The method of conducting them was, by paffing ropes through their noftrils, and round their horns; but having been once enraged at the fight of our men, they became fo furious, that they fometimes broke the trees, to which we were often under the necessity of tying them; fometimes they tore afunder the cartilage of the noftril, through which the ropes ran, and got loofe. On these occafions, all the exertions of our men, to recover them, would have been ineffectual, without the affiftance of fome young boys, whom these animals would permit to approach them, and by whose little managements their rage was foon appeafed. And when, at length, they were got down to the beach, it was by their aid, in twifting ropes round their legs, in the manner they were directed, that we were enabled to throw them down, and by that means to get them into the boats. A circumstance, respecting these animals, which I thought no less fingular than this gentleness toward, and, as it should feem, affection for little children, was, that they had not been twenty-four hours on board, before they became the tamest of all creatures. I kept two of them, a male and female, for a confiderable time, which became great favourites with the failors, and, thinking that a breed of animals of fuch strength and fize, some of them weighing, when dreffed, feven hundred pounds weight, Vol. III. 3 N

January.

would be a valuable acquisition, I was inclined to have brought them with me to England; but my intention was frustrated by an incurable hurt that one of them received at sea.

Friday 28.

It was not till the 28th, that the buffaloes were all got on board; however, there was no reason to regret the time taken up by this service, since, in the interim, two wells of excellent water had been discovered, of which, as also of wood, part of the ships companies had been employed in laying in a good supply; so that a shorter stop would be necessary, for replenishing our stock of these articles, in the Strait of Sunda. A party had likewise been occupied in drawing the seine, at the head of the harbour, where they took a great many good sish; and another party, in cutting down the cabbage-palm, which was boiled and served out with the meat. Besides this, having been able to procure only a scanty supply of cordage at Macao, the repairing of our rigging was become an object of constant attention, and demanded all our spare time.

Pulo-Condore is high and mountainous, and furrounded by feveral smaller islands, some of which are less than one, and others two miles distant. It takes its name from two Malay words, Pulo signifying an island, and Condore a calabash, of which it produces great quantities. It is of the form of a crescent, extending near eight miles from the Southernmost point, in a North East direction; but its breadth no where exceeds two miles. From the Westernmost extremity, the land trends to the South East for about four miles; and opposite to this part of the coast there is an island, called, by Monsieur D'Apres\*, Little Condore, which runs two miles in the same direction. This position

of the two islands affords a fafe and commodious harbour, the entrance into which is from the North West. The distance between the two opposite coasts is three quarters of a mile, exclusive of a border of coral rock, which runs down along each side, extending about one hundred yards from the shore. The anchorage is very good, from eleven to sive fathoms water, but the bottom is so soft and clayey, that we found great difficulty in weighing our anchors. Toward the bottom of the harbour there is shallow water for about half a mile, beyond which the two islands approach so near each other, as to leave only a passage at high water for boats. The most convenient place for watering is at a beach on the Eastern side, where there is a small stream which furnished us with sourteen or sisteen tons of water a day.

This island, both with respect to animal and vegetable productions, is confiderably improved fince the time when Dampier vifited it. Neither that writer, nor the compiler of the East India Directory, make mention of any other quadrupeds than hogs, which are faid to be very scarce, lizards, and the guanoes; and the latter, on the authority of Monfieur Dedier, a French engineer, who furveyed the island about the year 1720, fays, that none of the fruits and esculent plants, so common in the other parts of India, are to be found here, except water-melons, a few potatoes, fmall gourds, chibbols (a fmall fpecies of onion), and little black beans. At prefent, befides the buffaloes, of which we understood there were several large herds, we purchased from the natives fome remarkably fine fat hogs, of the Chinese breed. They brought us three or four of a wild fort; and our fportimen reported, that they frequently met

3 N 2

\* Neptune Oriental.

1780. January. with their tracks in the woods, which also abound with monkies and squirrels, but so shy, that it was difficult to shoot them. One species of the squirrel was of a beautiful shining black colour; and another species striped brown and white. This is called the flying-squirrel, from being provided with a thin membrane, resembling a bat's wing, extending on each side the belly, from the neck to the thighs, which, on stretching out their legs, spreads, and enables them to sly from tree to tree, at a considerable distance. Lizards were in great abundance; but I do not know that any of us saw the guano, and another animal described by Dampier as resembling the guano, only much larger.

Amongst its vegetable improvements, I have already mentioned the fields of rice we passed through; and plantains, various kinds of pompions, cocoa-nuts, oranges, shaddocks, and pomegranates, were also met with; though, except the plantains and shaddocks, in no great abundance.

It is probable, from what has been already faid, relative to the Bishop of Adran, that the French have introduced these improvements into the island, for the purpose of making it a more convenient refreshing station for any of their ships that may be bound for Cambodia, or Cochin China. Should they have made, or intend to make, any settlement in those countries, it is certainly well situated for that purpose, or for annoying the trade of their enemies, in case of war.

Our fportsmen were very unsuccessful in their pursuit of the feathered game, with which the woods are well stocked. One of our gentlemen had the good fortune to

\* Vid. Dampier, Vol. i. p. 392.

fhoot

shoot a wild hen; and all the shooting parties agreed that they heard the crowing of the cocks on every side, which they described to be like that of our common cock, but shriller; that they saw several of them on the wing, but that they were exceedingly shy. The hen that was shot was of a speckled colour, and of the same shape, though not quite so large, as a full-grown pullet of this country. Monsieur Sonnerat has entered into a long differtation, to prove that he was the first person who determined the country to which this most beautiful and useful bird belongs, and denies that Dampier met with it here.

The land in the neighbourhood of the harbour is a continued high hill, richly adorned with a variety of fine tall trees, from the fummit to the water's edge. Among others, we observed what Dampier calls the tar-tree \*; but observed none that were tapped, in the manner he defcribes.

The inhabitants, who are fugitives from Cambodia and Cochin China, are not numerous. They are of a fhort stature, and very swarthy, and of a weak and unhealthy aspect; but, as far as we could judge, of a gentle disposition.

We remained here till the 28th of January; and, at taking leave of the *Mandarin*, Captain Gore, at his own request, gave him a letter of recommendation to the Commanders of any other ships that might put in here; to which he added a handsome present. He likewise gave him a letter for the Bishop of Adran, together with a telescope, which he begged might be presented to him as a compliment for the services he had received, through his means, at Condore.

The harbour at Pulo Condore is in \ 8° 40' 00" North. latitude - -Longitude, deduced from a great 106 18 46 East. Dip of the North pole of the mag-? netic needle, - - -Variation of the compass, - - 0 14 West. High water, at the full and the full and the change of the moon, - - 4 16 apparent time.

From this time the water continued, for twelve hours, without any vifible alteration, viz. till 16h 15m apparent time, when it began to ebb; and at 22h 15m apparent time, it was low water. The change, from ebbing to flowing, was very quick, or in less than 5". The water rose and fell feven feet four inches perpendicular; and every day the fame whilft we continued there.

## CHAP. XI.

Departure from Pulo Condore.—Pass the Straits of Banca. -View of the Island of Sumatra.-Straits of Sunda.-Occurrences there. - Description of the Island of Cracatoa .--Prince's Island .- Effects of the Climate of Java .- Run to the Cape of Good Hope.—Transactions there.—Description of False Bay .- Passage to the Orkneys .- General Reflections.

N the 28th day of January 1780, we unmoored; and, as foon as we were clear of the harbour, fleered South South West for Pulo Timoan. On the 30th, at noon, the Friday 28. latitude, by observation, being 5° o' North, and longitude Sunday 30. 104° 45' East, we altered our course to South three quarters West, having a moderate breeze from the North East, accompanied by fair weather. At two in the morning of the 31st, we had foundings of forty-five fathoms, over a bot- Monday 31st tom of fine white fand; at which time our latitude was 4° 4' North, longitude 104° 29' East, and the variation of the compass o° 31' East.

At one in the afternoon, we faw Pulo Timoan; and, at three, it bore South South West three quarters West, distant ten miles. This island is high and woody, and has feveral fmall ones lying off to the Westward. At five, Pulo Puiffang was feen bearing South by East three quarters East; and, at nine, the weather being thick and hazy, and hav-

January.

ing out-run our reckoning from the effect of some current, we were close upon Pulo Aor, in latitude 2° 46′ North, longitude 104° 37′ East, before we were well aware of it, which obliged us to haul the wind to the East South East. We kept this course till midnight, and then bore away South South East for the Strait of Banca.

February. Tuefday 1.

On the 1st of February, at noon, our latitude, by observation, was 1° 20′ North, and the longitude, deduced from a great number of lunar observations taken in the course of the preceding twelve hours, 105° East. At the same time, the longitude, by Mr. Bayly's time-keeper corrected, was 105° 15′ East. We now steered South by East; and, at sun-set, having fine clear weather, saw Pulo Panjang; the body of the island bearing West North West, and the small islands, lying on the South East of it, West half South, seven leagues distant. Our latitude, at this time, was 0° 53′ North.

Wednef. z.

On the 2d, at eight in the morning, we tried for foundings, continuing to do the fame every hour, till we had passed the Strait of Sunda, and found the bottom with twenty-three fathoms of line. At noon, being in latitude, by observation, o° 22′ South, longitude 105° 14′ East, and our foundings twenty fathoms, we came in sight of the little islands called Dominis, which lie off the Eastern part of Lingen; and which bore from North 62° West, to North, 80° West, sive leagues distant. At this time we passed a great deal of wood, drifting on the sea; and, at one o'clock, we saw Pulo Taya, bearing South West by West, distant seven leagues. It is a small high island, with two round peaks, and two detached rocks lying off it to the Northward. When abreast of this island, we had soundings of sisteen fathoms. During this and the preceding day, we saw great quantities

of a reddish-coloured scum or spawn, floating on the water, in a Southerly direction.

February.

At day-light, on the 3d, we came in fight of the Three Thursday 3. Islands; and, soon after, of Monopin Hill, on the island of Banca. At noon, this hill, which forms the North East point of the entrance of the Straits, bore South East half South, distant six leagues; our latitude, by observation, being 1° 48′ South, and longitude 105° 3′ East, the soundings seventeen fathoms, and no perceivable variation in the compass.

Having got to the Westward of the shoal, called Frederick Endric, at half past two we entered the Straits, and bore away to the Southward; and, in the afternoon, Monopin Hill bearing due East, we determined its latitude to be 2° 3′ South, the same as in Mons. D'Apres' map, and its longitude 105° 18′ East. At nine, a boat came off from the Banca shore, and having rowed round the ships, went away again. We hailed her in the Malaye tongue to come on board, but received no answer. At midnight, sinding a strong tide against us, we anchored in twelve fathoms, Monopin Hill bearing North 29° West.

On the 4th, in the morning, after experiencing some Friday 44 difficulty in weighing our anchors, owing to the stiff tenacious quality of the ground, we proceeded with the tide down the Straits; the little wind we had from the Northward dying away as the day advanced. At noon, there being a perfect calm, and the tide making against us, we dropt our anchor in thirteen fathoms water, about three miles from what is called the Third Point, on the Sumatra shore; Monopin Hill bearing North 54° West. The latitude, by observation, was 2° 22′ South, longitude 105° 38′ East. At three in the afternoon we weighed and stood on

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through the Straits with a light breeze; and, at eight, were abreast of the Second Point, and passed it within two miles, in feventeen fathoms water, a fufficient proof, that this point may be bordered upon with fafety. At midnight, we again came to anchor, on account of the tide, in thirteen fathoms, Mount Permiffang, on the ifland of Banca, bearing North 7° East, and the First Point South 54° East, distant about three leagues.

In the morning of the 5th, we weighed, and kept on to the South East; and, at ten, passed a small shoal, lying in a line with Lusepara and the First Point, at the diftance of five miles from the latter. At noon, the ifland of Lusepara bearing South, 57° East, four miles distant, we determined its latitude to be 3° 10' South, and longitude 106° 15' East. The difference of longitude between the ifland Lufepara, which lies in the South entrance of the Strait of Banca, and Monopin Hill, which forms one fide of the entrance from the North, we found to be 55', which is only two miles lefs than what is given in D'Apres' chart.

In paffing this Strait, the coaft of Sumatra may be approached fomewhat closer than that of Banca. At the diftance of two or three miles from the shore, there are ten, eleven, twelve, or thirteen fathoms, free from rocks or shoals; however, the lead is the furest guide. The country is covered with wood down to the water's edge, and the shores are so low, that the sea overflows the land, and washes the trunks of the trees. To this flat and marshy fituation of the shore, we may attribute those thick fogs and vapours, which we perceived, every morning, not without dread and horror, hanging over the island, till they were difperfed by the rays of the fun. The fhores of Banca

are much bolder, and the country inland rifes to a moderate height, and appears to be well wooded throughout. We often faw fires on this island during the night-time; but none on the opposite shore. The tide runs through the Strait at the rate of between two and three knots an



Lusepara, at the distance of four or five miles; generally carrying foundings of five and fix fathoms water, and never

In the morning of the 6th, we passed to the Westward of sunday 6.

less than four. We afterward steered South by East; and having brought Lusepara to bear due North, and deepened our water to feven fathoms, we altered our course to South by West, keeping the lead going, and hauling out a little, whenever we shoaled our water. The foundings on the Sumatra fide we still found to be regular, and gradually shoaling, as we approached the shore. At five in the afternoon we faw the Two Sifters, bearing South by West half West; and, at feven, we came to an anchor in ten fathoms, about eight miles to the North of the islands. The weather was close and fultry, with light winds, generally from the North West; but sometimes varying round as far as the North East; and, during the night, we observed much

We weighed the next morning at five, and at eight were Monday 7. close in with the Sifters. These are two very small islands, well covered with wood, lying in latitude 5° o' South, longitude 106° 12' East, nearly North and South from each other, and furrounded by a reef of coral rocks; the whole circumference of which is about four or five miles. At noon we got fight of the island of Java to the Southward; the North West extremity of which (Cape St. Nicholas) bore South; North Island, on the Sumatra shore, South 27° West,

lightning over Sumatra.

February.

and the Sifters North, 27° East, distant four leagues; our latitude was 5° 21' South, longitude 105° 57' East.

At four in the afternoon, we faw two fail in the Strait of Sunda; one lying at anchor near the Mid-channel Island; the other nearer the Java shore. Not knowing to what nation they might belong, we cleared our ships for action; and at fix came to an anchor in twenty-five fathoms, four miles East by South from North Island. Here we lay all night, and had very heavy thunder and lightning to the North West; from which quarter the wind blew in light breezes, accompanied with hard rain.

Tuefday 8.

At eight o'clock the next morning, we weighed, and proceeded through the Strait, the tide fetting to the Southward, as it had done all night; but about ten the breeze failing, we came to again in thirty-five fathoms; a high ifland, or rather rock, called the Grand Toque, bearing South by Eaft. We were, at this time, not more than two miles from the fhips, which, now hoifting Dutch colours, Captain Gore fent a boat on board for intelligence. The rain ftill continued with thunder and lightning.

Early in the afternoon, the boat returned with an account that the large ship was a Dutch East-Indiaman, bound for Europe; and the other a pacquet from Batavia, with orders for the several ships lying in the Strait. It is the custom for the Dutch ships, as soon as their lading is nearly completed, to leave Batavia, on account of its extreme unwhole-someness, and proceed to some of the more healthy islands in the Strait, where they wait for the remainder of their cargo, and their dispatches. Notwithstanding this precaution, the Indiaman had lost, since her departure from Batavia, four men, and had as many more whose recovery was despaired of. She had lain here a fortnight, and was

now about to proceed to water at Cracatoa, having just received final orders by the pacquet.

February.

At feven in the morning of the 9th, we weighed, and flood on through the Strait to the South West, keeping pretty close in with the islands on the Sumatra shore, in order to avoid a rock near Mid-channel Island, which lay on our left. At half after ten, I received orders from Captain Gore to make sail toward a Dutch ship which now hove in sight to the Southward, and which we supposed to be from Europe; and, according to the nature of the intelligence we could procure from her, either to join him at Cracatoa, where he intended to stop, for the purpose of supplying the ships with arrack; or to proceed to the South East end of Prince's Island, and there take in our water, and wait for him.

I accordingly bore down toward the Dutch ship, which, foon after, came to an anchor to the Eastward; when the wind flackening, and the current still fetting very strong through the Strait to the South West, we found it impossible to fetch her, and having therefore got as near her as the tide would permit, we also dropt anchor. I immediately dispatched Mr. Williamson, in the cutter, with orders to get on board her if poffible; but as fhe lay near a mile off, and the tide ran with great rapidity, we foon perceived, that the boat was dropping fast aftern. We therefore made the fignal to return, and immediately began to veer away the cable, and fent out a buoy aftern, in order to affift him in getting on board again. Our poverty, in the article of cordage, was here very conspicuous; for we had not a fingle coil of rope, in the flore-room, to fix to the buoy, but were obliged to fet about unreeving the studding-fail geer, the top-fail-halliards, and tackle-falls, for that purpose; and the

boa

1780. February. boat was at this time driving to the Southward fo fast, that it was not before we had veered away two cables, and almost all our running rigging, that she could fetch the buoy.

Thursday 10.

I was now under the necessity of waiting till the strength of the tide should abate, which did not happen till the next morning, when Mr. Williamson got on board the ship, and learnt, that she had been seven months from Europe, and three from the Cape of Good Hope; that before the failed, France and Spain had declared war against Great Britain; and that she left Sir Edward Hughes, with a fquadron of men of war, and a fleet of East-India ships, at the Cape. Mr. Williamson having, at the same time, been informed, that the water at Cracatoa was very good, and always preferred, by the Dutch ships, to that of Prince's Island, I refolved to rejoin the Refolution at the former place; and a fair breeze fpringing up, we weighed and flood over toward the ifland, where we foon after faw her at anchor; but the wind falling, and the tide fetting strong against us, I was obliged to drop anchor, at the diffance of about five miles from the Refolution, and immediately fent a boat on board, to acquaint Captain Gore with the intelligence we had received.

As foon as the Refolution faw us preparing to come to, the fired her guns, and hoifted an English jack at the ensign staff, the signal at fea to lead ahead. This we afterward understood was intended to prevent our anchoring, on account of the foul ground, which the maps she had on board placed here. However, as we found none, having a muddy bottom, and good holding ground, in fixty fathoms water, we kept fast till the return of the boat, which brought orders to proceed the next morning to Prince's Island.

We were at this time two miles distant from the shore; the peak of Cracatoa bore North West by North; Bantam Point East North East half East; Prince's Island South West by West.

The island of Cracatoa is the Southernmost of a group situated in the entrance of the Strait of Sunda. It has a high peaked hill on the South end\*, which lies in latitude 6° 9' South, and longitude 105° 15' East; the whole circuit of the island is not more than three leagues. Off the North East end lies a small island, which forms the road where the Resolution anchored; and within a reef that runs off the South end of the latter, there is good shelter against all Northerly winds, with eighteen fathoms water near the reef, and twenty-seven in the mid-channel. To the North West, there is a narrow pass for boats between the two islands.

The shore, which forms the Western side of the road, is in a North West direction, and has a bank of coral stretching into the sea, about one-third of a cable's length, which makes the landing difficult for boats, except at high water; but the anchoring ground is very good, and free from rocks. The place where the Resolution watered is a small spring, situated abreast of the South end of the small island, at a short distance from the water-side. A little to the Southward, there is a very hot spring, which is used by the natives as a bath. Whilst we were lying off the South end of this island, we sent a boat with the Master on shore,

<sup>\*</sup> The island of Tamarin, or Sambouricou, which lies about four leagues to the North of Cracatoa, may be easily mistaken for the latter, having a hill of nearly the same fize and form, situated also near its Southern extremity.

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to look for water; but after having landed with fome difficulty, he returned unfuccefsful.

Cracatoa is esteemed very healthy, in comparison of the neighbouring countries. It confifts of high land, rifing gradually on all fides from the fea; and the whole is covered with trees, except a few fpots which the natives have cleared for rice fields. The number of people on the island is very inconsiderable. Their Chief, as are those of all the other islands in the Strait, is subject to the King of Bantam. The coral reefs afford plenty of fmall turtles; but other refreshments are very scarce, and fold at an enormous price.

Latitude of the road where the Refolution anchored - - - 8° 6' South. Longitude, by Mr. Bayly's time-keeper - 104 48 Eaft. by observation - - 105 36 East. Ditto, Dip of the South end of the magnetic Variation of the compass - - I o West.

On the full and change days, it is high-water at 7<sup>h</sup> in the morning. The water rifes three feet two inches perpendicular.

At eight o'clock in the evening, it began to blow fresh from the Westward, with violent thunder, lightning, and Friday 11. rain; and at three the next morning, we weighed and flood over for Prince's Island, but the Westerly wind dying away, was fucceeded by a breeze from the South East, and, at the fame time, a strong tide setting to the South West prevented our fetching the island, and obliged us, at two in the after-

noon, to drop anchor in fixty-five fathoms, over a muddy bottom, at three leagues distance from it; the high hill February. bearing South West by South, and the peak on Cracatoa North by East. We had light airs and calms till fix next morning, when we weighed and made fail, having, in our Saturday 12. endeavours to heave the anchor out of the ground, twice broken the old messenger, and afterward a new one, cut out of our best hawser. This, however, was entirely owing to the wretched flate of our cordage, as the ftrain was not very confiderable, and we had befides affifted the cable in coming in, by clapping the cat-tackle on it. The wind continuing fair, at noon we came to an anchor off the South East end of Prince's Island, in twenty-fix fathoms, over a fandy bottom; the East end of the island bearing North North East, the Southernmost point in fight South West by South, the high peak North West half West, distant from the nearest shore half a mile.

As foon as we had come to anchor, Lieutenant Lannyon, who had been here before with Captain Cook, in the year 1770, was fent along with the Master, to look for the watering-place. The brook from which, according to the best of his recollection, the Endeavour had been fupplied, was found quite falt. Further inland, they faw a dry bed, where the water feemed to have lodged in rainy feafons; and, about a cable's length below, another run, fupplied from an extensive pool, the bottom of which, as well as the furface, was covered with dead leaves. This, though a little brackish, being much preferable to the other, we began watering here early the next morning, and finished the Sunday 13. fame day.

The natives, who came to us foon after we anchored, brought a plentiful fupply of large fowls, and fome turtles; VOL. III. 3 P but

but the last were for the most part very small. In the course of the night, we had heavy rain; and on the 14th, at day-Monday 14. light, we faw the Refolution to the Northward, standing toward the ifland, and at two in the afternoon, she dropt anchor close to us. In the course of the day, we heeled the fhip, and fcrubbed and hogged her bottom, which was very foul; and got ready for fea.

The next day, Captain Gore not having completed his flock of water at Cracatoa, fent his men on shore, who now found the brook that was first mentioned, rendered perfeetly fweet by the rain, and flowing in great abundance. This being too valuable a treasure to be neglected, I gave orders, that all the casks we had filled before should be started, and replenished with the fresh water, which was Wednes, 16. accordingly done before noon the next day; and in the evening, we cleared the decks, and both ships were ready for fea.

Friday 18. In the forenoon of the 18th, we had heavy rains, and variable winds, which prevented our getting under way till two in the afternoon, when a light wind fprung up from the Northward; but this foon after leaving us, we were obliged to drop our anchor again, at eight o'clock that night, in fifty fathoms water, and wait till the fame Saturday 19. hour the next morning. At that time, being favoured by a breeze from the North West, we broke ground, to our inexpressible satisfaction, for the last time in the Strait of Sunda, and the next day, had entirely loft fight of Prince's Island.

This ifland having been already described by Captain Cook, in the hiftory of a former voyage, I shall only add, that we were exceedingly ftruck with the great general refemblance of the natives, both in figure, colour, manners, and even language, to the nations we had been fo much conversant with, in the South Seas. The effects of the Javanefe climate, and I did not escape without my full share of it, made me incapable of purfuing the comparison so minutely as I could have wished.

The country abounds with wood to fuch a degree, that notwithstanding the quantity cut down every year by the ships which put into the road, there is no appearance of its diminution. We were well fupplied with fmall turtle, and fowls of a moderate fize; the last were fold at the rate of ten for a Spanish dollar. The natives also brought us many hog-deer, and a prodigious number of monkeys, to our great annoyance, as most of our failors provided themselves with one, if not two, of these troublesome ani-

As we fhould have met with fome difficulty in finding the watering-place, if Mr. Lannyon had not been with us, it may be worth while, for the use of future navigators, to describe its fituation more particularly. The peaked hill on the island, bears from it North West by North; a remarkable tree growing upon a coral reef, and quite detached from the neighbouring shrubs, stands just to the Northward; and close by it, there is a fmall plot of reedy grafs, the only piece of the kind that can be feen hereabout. These marks will shew the place where the pool empties itself into the sea; but the water here is generally falt, as well as that which is in the pool. The casks must therefore be filled about fifty yards higher up; where, in dry feafons, the fresh water that comes down from the hills, is loft among the leaves, and must be searched for by clearing them away.

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February

The latitude of the anchoring-place at Prince's Island was - - 6° 36′ 15″ South. Longitude - - - - 105 17 30 East. Dip of the South pole of the magnetic needle - - - - 28 15 0 Variation of the compass - - o 54 o West. Mean of the thermometer - - 83 ½

From the time of our entering the Strait of Banca, we began to experience the powerful effects of this peftilential climate. Two of our people fell dangerously ill of malignant putrid fevers; which however we prevented from fpreading, by putting the patients apart from the rest, in the most airy births. Many were attacked with teazing coughs; others complained of violent pains in the head; and even the healthieft among us felt a fenfation of fuffocating heat, attended by an infufferable languor, and a total loss of appetite. But though our fituation was for a time thus uneafy and alarming, we had at last the fingular fatisfaction of escaping from these fatal seas, without the loss of a fingle life; a circumftance which was probably owing in part to the vigorous health of the crews, when we first arrived here, as well as to the strict attention, now become habitual in our men, to the falutary regulations introduced amongst us by Captain Cook.

On our leaving Prince's Island, and during the whole time of our run from thence to the Cape of Good Hope, the crew of the Refolution was in a much more fickly flate than that of the Difcovery. For though many of us continued, for fome time, complaining of the effects of the noxious climate we had left, yet happily we all recovered from them.

Of the two who had been ill of fevers, one, after being feized with violent convulsions, on the 12th of February, which made us defpair of his life, was relieved by the application of blifters, and was foon after out of danger. The other recovered, but more flowly. On board the Refolution, befides the obstinate coughs and fevers under which they very generally laboured, a great many were afflicted with fluxes, the number of whom, contrary to our expectations, continued increasing till our arrival at the Cape.

Captain Gore attributed this difference in part, and probably with fome reason, to the Discovery having her fireplace between decks; the heat and fmoke of which, he conceived, might help to mitigate the bad effects of the damp night air. But I am rather inclined to believe, that we escaped the flux by the precautions that were taken to prevent our catching it from others. For if some kinds of fluxes be, as I apprehend there is no doubt they are, contagious, it is not improbable, that the Refolution caught this diforder from the Dutch ships at Cracatoa. In order to avoid this danger, when Mr. Williamson was sent to the Indiaman in the entrance of the Strait of Sunda, he had the strictest orders not to suffer any of our people, on any account whatever, to go on board; and whenever we had afterward occasion to have any communication with the Refolution, the fame caution was constantly observed.

We were no fooner clear of Prince's Island, than we had a gentle breeze from the West North West; but this did not last long; for the following day the wind became again sunday 20. variable, and continued fo till the noon of the 25th, when it grew fqually, and blew fresh from the North.

On the 22d at noon, being in latitude 10° 28' South, and longitude 104° 14', we faw great quantities of boobies, and Tuesday 22. other fowls, that seldom go far from land; from which we conjectured, that we were near fome fmall unknown ifland.

Friday 25.

In the evening of the 25th, the wind changed fuddenly to the Southward, accompanied with heavy rains, and began to blow with great violence. During the night, almost every fail we had bent gave way, and most of them were fplit to rags; our rigging also suffered materially, and we were, the next day, obliged to bend our last fuit of fails, and to knot and fplice the rigging, our cordage being all expended. This fudden from we attributed to the change from the monfoon to the regular trade-wind; our latitude was about 13° 10' South, and we had made by our reckoning about 4° i of longitude West from Java head.

Saturday 26.

From the 26th of this month to the 28th of March, we had a regular trade-wind from the South East to East by South, with fine weather; and being in an old beaten track met no occurrence that deferved the fmallest notice.

March.

In the morning of the 28th of March, being in latitude Tuesday 28. 31° 42' South, and longitude 35° 26' East, the trade-wind left us in a violent thunder-storm. From this time to the 3d of April, when our latitude was 35° 1' South, and longitude 26° 3' East, the winds were moderate, and generally from the South quarter. A fresh breeze then sprung up from the Eastward, which continued till the afternoon of Tuesday 4. the 4th; after which we had a calm that lasted the two following days.

It had hitherto been Captain Gore's intention to proceed directly to St. Helena, without stopping at the Cape;

but the rudder of the Refolution having been, for fome time, complaining, and, on being examined, reported to be in a dangerous ftate, he refolved to fteer immediately for the Cape, as the most eligible place, both for the recovery of his fick, and for procuring a new main-piece to the rudder.

From the 21st of March, when we were in latitude

27° 22' South, longitude 52° 25' East, to the 5th of April, Wednes, 5. when we had got into latitude 36° 12' South, longitude 22° 7' East, we were strongly affected by the currents, which fet to the South South West, and South West by West, fometimes at the rate of eighty knots a day. On the 6th, Thursday 6. having got under the lee of the African coaft, we loft them entirely.

In the morning of the 6th, a fail was feen to the South West standing toward us; and, as the wind soon after rose from the fame quarter, we cleared our ships for action. We now discovered, from the mast-head, five fail more on our lee-bow, flanding to the Eastward; but the weather coming on hazy, we lost fight of them all in an hour's time. Our latitude at noon was 35° 49' South, longitude 21° 32' Eaft. At feven o'clock the next morning (the feventh), we made Friday 7. the land to the Northward at a confiderable diffance.

On the 8th, the weather was fqually, and blew fresh Saturday 8. from the North West; the following day it settled to the sunday 9. West, and we passed pretty close to the fail seen on the 6th, but did not hail her. She was clumfy in figure, and, to appearance, unfkilfully managed; yet fhe out-failed us exceedingly. The colours which she hoisted were different from any we had feen; fome fupposed them to be Portugueze, others Imperial.

At day-light, the next morning, the land again appeared Monday 10.

to the North North West; and, in the forenoon, a snow was feen bearing down to us, which proved to be an English East India packet, that had left Table Bay three days before, and was cruifing with orders for the China fleet, and other India ships. She told us, that, about three weeks before, Monf. Trongoller's fquadron, confifting of fix fhips, had failed from the Cape, and was gone to cruife off St. Helena, for our East India fleet. This intelligence made us conjecture, that the five fail we had feen standing to the Eastward must have been the French squadron, who, in that case, had given over their cruise, and were probably proceeding to the Mauritius. Having informed the packet of our conjectures, and also of the time we understood the China ships were to fail from Canton, we left them, and

proceded toward the Cape.

In the evening of the 10th, the Gunner's Quoin bore North by East, and False Cape East North East; but the wind being at South West, and variable, prevented our get-Wednes. 12. ting into False Bay, till the evening of the 12th, when we dropt anchor abreast of Simon's Bay. We found a strong current fetting to the Westward, round the Cape, which, for fome time, we could but just stem, with a breeze that would have carried us four knots an hour. The next morning, we flood into Simon's Bay; and at eight came to anchor, and moored a cable each way; the best bower to the East South East, and small bower West North West; the South East point of the bay bearing South by East, Table Mountain North East half North; distant from the nearest shore one-third of a mile. We found lying here, the Naffau and Southampton Eaft-Indiamen, waiting for convoy for Europe. The Refolution faluted the fort with eleven guns, and the fame number was returned.

Mr. Brandt, the Governor of this place, came to vifit us, as foon as we had anchored. This gentleman had conceived a great affection for Captain Cook, who had been his constant guest, the many times he had visited the Cape; and though he had received the news of his melancholy fate fome time before, he was exceedingly affected at the fight of our ships returning without their old Commander. He appeared much furprized to fee our crew in fo flout and healthy a condition, as the Dutch Thip that had left Macao, on our arrival there, and had touched at the Cape fome time before, reported, that we were in a most wretched state, having only fourteen hands left on board the Refolution, and feven on board the Difcovery. It is not eafy to conceive the motive these people could have had for propagating so wanton and malicious a falfehood.

On the 15th, I accompanied Captain Gore to Cape Town; Saturday 15. and, the next morning, we waited on Baron Plettenberg, Sunday 16. the Governor, by whom we were received with every poffible attention and civility. He had also conceived a great personal affection for Captain Cook, as well as the highest admiration of his character, and heard the recital of his misfortune, with many expressions of unaffected forrow. In one of the principal apartments of the Governor's house, he shewed us two pictures, of Van Trump and De Ruyter, with a vacant space left between them, which he faid he meant to fill up with the portrait of Captain Cook; and, for that purpose, he requested our affistance when we should arrive in England, in purchasing one for him, at any price.

We were afterward informed by the Governor, that all the powers at this time at war with England had given orders to their cruifers to let us pass unmolested. This, as Vol. III. 3 Q

Mr.

1780. April. far as related to the French, we had fufficient reason to think true; as Mr. Brandt had already delivered to Captain Gore, a letter from Mr. Stephens, inclofing a copy of Monf. de Sartine's orders, taken on board the Licorne. With refpect to the Americans, the matter ftill rested on report; but Baron Plettenberg affured us, that he had been expressly told, by the Commander of a Spanish ship, which had touched at the Cape, that he, and all the officers of his nation, had received orders to the fame effect. These affurances confirmed Captain Gore in the refolution he had taken of maintaining, on his part, a neutral conduct; and accordingly, when, on the arrival of the Sybil, to convoy the India ships home, it was proposed to him to accompany them on their paffage, he thought proper to decline an offer, the acceptance of which might, in case we had fallen in with any of the enemies ships, have brought him into a very difficult and embarraffing fituation.

During our stay at the Cape, we met with every proof of the most friendly disposition towards us, both in the Governor and principal persons of the place, as well Africans as Europeans. At our first arrival, Colonel Gordon, the Commander of the Dutch forces, with whom I had the happiness of being on a footing of intimacy and friendship, was absent on a journey into the interior parts of Africa, but returned before our departure. He had, on this occasion, penetrated farther up the country than any other traveller had done before him, and made great additions to the valuable collection of natural curiofities with which he has enriched the Museum of the Prince of Orange. Indeed, a long residence at the Cape, and the powerful affistance he has derived from his rank and fituation there, joined to an active and indefatigable spirit, and an eager thirst after knowledge,

knowledge, have enabled him to acquire a more intimate and perfect knowledge of this part of Africa, than could have fallen to the lot of any other perfon: and it is with great pleafure I can congratulate the Public on the information I have received of his intentions to give the world, from his own hand, a history of his travels.

False Bay, situated to the Eastward of the Cape of Good Hope, is frequented by shipping during the prevalence of the North West winds, which begin to blow in May, and make it dangerous to lie in Table Bay. It is terminated on the West by the Cape of Good Hope, and on the Eastward by False Cape.

The entrance of the Bay is fix leagues wide, the two Capes bearing from each other due East and West. About eleven miles from the Cape of Good Hope, on the West side, is fituated Simon's Bay, the only convenient station for ships to lie in; for although the road without it affords good anchorage, it is too open, and but ill circumstanced for procuring necessaries, the town being small, and supplied with provisions from Cape Town, which is about twentyfour miles diftant. To the North North East of Simon's Bay, there are feveral others, from which it may be eafily diftinguished, by a remarkable fandy way to the Northward of the town, which makes a striking object. In steering for the harbour, along the West shore, there is a small flat rock, called Noah's Ark, and about a mile to the North Eaft of it, feveral others, called the Roman Rocks. Thefe lie one mile and a half from the anchoring-place; and either between them, or to the Northward of the Roman Rocks, there is a fafe paffage into the Bay. When the North West gales are fet in, the following bearings will direct the mariner to a fafe and commodious birth: Noah's Ark, South 51°

3 Q 2

East, and the centre of the hospital South 53° West, in feven fathoms. But if the South East winds have not done blowing, it is better to ftay further out in eight or nine fathoms. The bottom is fandy, and the anchors fettle confiderably before they get hold. All the North part of the Bay is low fandy land, but the East fide is very high. About fix miles East of Noah's Ark lies Seal Island, the South part of which is faid to be dangerous, and not to be approached, with fafety, nearer than in twenty-two fathoms. Off the Cape of Good Hope are many funk rocks, fome of which appear at low water; and others have breakers constantly on them.

The latitude of the anchoring-place in Simon's Bay, by observation - - - 34° 20' South. - 18 29 Eaft. The longitude Dip of the South end of the magnetic needle 46 47 - - - 22 16 West. Variation of the compass

On the full and change days, it was high-water at 5 55 apparent time; the tide rose and fell five feet five inches; at the neap tides, it rose four feet one inch.

From the observations taken by Mr. Bayly and myself, on the 11th of this month, when the Cape of Good Hope bore due West, we found its latitude to be 34° 23' South, which is 4' to the Northward of its position, as determined by the Abbé de la Caille.

Having completed our victualling, and furnished ourfelves with the necessary fupply of naval stores, we failed Tuefday 9. out of the Bay on the 9th of May, and on the 14th, we got into the South East trade-wind, and steered to the Westward Wednes. 31. of the islands of St. Helena and Ascension. On the 31st, being being in latitude 12° 48' South, longitude 15° 40' West, the magnetic needle was found to have no dip.

On the 12th of June, we passed the equator for the fourth time during this voyage, in longitude 26° 16' West. We now began to perceive the effects of a current fetting North by East, half a knot an hour. It continued in this direction till the middle of July, when it began to fet a little to the Southward of the West.

On the 12th of August, we made the Western coast of Ire- Saturday 12. land, and after a fruitless attempt to get into Port Galway, from whence it was Captain Gore's intention to have fent the journals and maps of our voyage to London, we were obliged, by ftrong Southerly winds, to fteer to the Northward. Our next object was to put into Lough Swilly; but the wind continuing in the fame quarter, we stood on to the Northward of Lewis Island; and on the 22d of August, Tuesday 22. at eleven in the morning, both ships came to an anchor at Stromness. From hence, I was dispatched by Captain Gore, to acquaint the Board of Admiralty with our arrival; and on the 4th day of October the ships arrived fafe at the Wednes. 4. Nore, after an absence of four years, two months, and twenty-two days.

On quitting the Discovery at Stromness, I had the fatisfaction of leaving the whole crew in perfect health; and at the fame time, the number of convalescents on board the Refolution, did not exceed two or three, of whom only one was incapable of fervice. In the course of our voyage, the Refolution loft but five men by fickness, three of whom were in a precarious state of health at our departure from England; the Difcovery did not lofe a man. An unremitting attention to the regulations established by Captain Cook, with which the world is already acquainted, may be justly

1780. May.

Monday 12.

1780. October. justly considered as the principal cause, under the blessing of Divine Providence, of this singular success. But the baneful effects of salt provisions might perhaps, in the end, have been felt, notwithstanding these salutary precautions, if we had not affished them, by availing ourselves of every substitute, our situation at various times afforded. These frequently consisting of articles, which our people had not been used to consider as food for men, and being sometimes exceedingly nauseous, it required the joint aid of persuasion, authority, and example, to conquer their prejudices and disgusts.

The preventives we principally relied on were four krout and portable foup. As to the antifcorbutic remedies, with which we were amply fupplied, we had no opportunity of trying their effects, as there did not appear the flightest fymptoms of the scurvy, in either ship, during the whole voyage. Our malt and hops had also been kept as a refource, in case of actual sickness, and on examination at the Cape of Good Hope, were found entirely spoiled. About the same time, were opened some casks of biscuit, slour, malt, pease, oatmeal, and groats, which, by way of experiment, had been put up in small casks, lined with tinfrail, and found all, except the pease, in a much better state, than could have been expected in the usual manner of package.

I cannot neglect this opportunity of recommending to the confideration of Government, the necessity of allowing a fufficient quantity of Peruvian bark, to such of his Majesty's ships as may be exposed to the influence of unwholesome climates. It happened very fortunately in the Discovery, that only one of the men that had fevers in the Straits of Sunda, stood in need of this medicine, as he alone consumed

the whole quantity usually carried out by Surgeons, in such vessels as ours. Had more been affected in the same manner, they would probably all have perished, from the want of the only remedy capable of affording them effectual relief.

Another circumstance attending this voyage, which, if we consider its duration, and the nature of the service in which we were engaged, will appear scarcely less singular than the extraordinary healthiness of the crews, was, that the two ships never lost sight of each other for a day together, except twice; which was owing, the first time, to an accident that happened to the Discovery off the coast of Owhyhee; and the second, to the fogs we met with at the entrance of Awatska Bay. A stronger proof cannot be given of the skill and vigilance of our subaltern officers, to whom this share of merit almost entirely belongs.

APPENDIX.

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## APPENDIX.

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## APPENDIX, Nº I.

TABLES of the ROUTE of the RESOLUTION and DISCOVERY, the Variation of the Compass, and Meteorological Observations, during the Voyage.

PPEND

N. B. In these Tables, the Situation of the Ships at Noon is, in general, set down; and the Variation, as it was observed, either in the Morning or Evening of the same Day, or both. Therefore, the Tables do not contain the exact Place where the Variation was observed; but the Difference is so little, that it can make no material Error.

	_				1	_	-	1	
Time.		itude outh.		itude ift.		iation /est.	Therm.	Barom.	Winds, Weather, and Remarks.
1776.	0	,	0	,	0	,	0	Inches.	
Dec. 27 Noon.	NI.		17	59		M	59	30,08	Westerly. Moderate wind, and cloudy weather.
3	34							29,75	Northerly. Light winds, and cloudy.
	36	48						29,59	N. W. Fresh gale, and cloudy.
	38				23	00	59	29,48	W. N. W. A strong gale, and cloudy.
. 6	38	59	23	29	23	33	63	29,37	Variable. Squally, with rain.
		03	25	25			581	29,47	W. S. W. Brisk wind, thunder, light- ning, and rain.
. 8	4.1	04	28	5	24	00	47 1	29,81	W. S. W. Squally, with hail and rain.
		27	30	7	1/8"		541	29,80	W. S. W. Strong gales, and cloudy.

TABLE I. Continued.

Route of the Resolution and Discovery from the Cape of Good Hope to Kerguelen's Land.

Time		Lat So	itude uth.	Long Ea	itude st.	Var W	iation left.	Therm.	Barom.	Winds, Weather, and Remarks.
1776.		0	,	0	,	0	,	0	Inches.	N 1 1 M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dec.	10	43	56	32	13	24	45	511	29,34	Northerly. Moderate wind, and driz
MO	11	45	37	34	31	25	00	441	29,21	Westerly. A fresh gale, and cloudy.
zh	12	46	20½	37	0	26	00	38	Y s	S.W. Squally. Showers of hail and fnow Saw fea-birds, and fea-weed.
1.0	13	47	15	40	48	26	15	382	29,98	W. S. W. Strong gale and fqually, with fnow. In the evening failed between P. Edward's Islands.
	14	47	46	44	15			411	30,02	Westerly. Gentle breezes, and hazy wester.
	15	48	241	48	164	31	00	423	29,90	N. E. Fresh-gales, and cloudy. Rock weed.
	16	48	42	52	11	CT L		41	29,70	t enguino, whates, ecc.
	17	48	28	56	6			42	29,97	Variable wind and weather. Albatroffe penguins, &c.
	18	48	351	56	40			42	30,02	Variable, moderate, and cloudy. Per guins, whales, &c.
1.	19	48	26	59	20			45	29,97	C mood. I on birde.
	20	48	27	62	43	100		44	29,96	N.W. Moderate and hazy. Rock-week Few birds.
	21	48	27	65	53			46	29,77	N. W. b. W. A fresh gale, and fogg. Very few birds.
	22	48	18	66	20	1X		40	29,97	Westerly. Light winds, and gloomy we ther. Birds.
	23	48	36	67	26			434	29,58	N. E. Mod. wind, rain. Many bird
	24	48	24	68	35	10		403	29,72	Northerly. Fresh gale, and cloudy. Sa
	25	48	41	69	11	27	44	43	29,95	N. W. Moderate and hazy. In Christ mas Harbour, Kerguelen's Land.

#### TABLE II.

Route of the Resolution and Discovery from Kerguelen's Land to Van Diemen's Land.

Time			itude uth.		itude aft.	Var W	iation est.	Therm.	Barom.	Winds, Weather, and Remarks.
6		0	,		,	0	,	0	Inches.	ed Edit on Edward Charles
Dec.	29	48	14.5	69	39	28	0	441	20,71	S. E. Fresh gales, and fair weather.
			8		34	28	. 0	45	29,44	
			19	73	16				29,54	
Jan.	1	18	37	77	41	20	21	28	20.05	W. S. W. Squally, with fleet.
1			744	25	Т-	3-		.61	3-,-3	W. S. W. Squarry, with neet.  W. S. W. Moderate wind, and fair west ther.
		48		1000						
			17			30	14	46	30,15	N. W. Ditto, ditto. No birds.
	4	48	91	88	30	-		47	30,28	N. W. Fresh gales, and foggy.
	. 5	48	41/2	91	25	٠.		481	29,78	N. W. b. N. Gentle breezes, and haz weather.
	6			00				1.7	20 70	Westerly. Moderate wind, and haz with rain.
		4/	59	93	59			4/	29,70	with rain.
	7	47	43	95	28	L.		473	29,68	Easterly. Light breezes, and foggy; ra
						113				North. Moderate wind, and thick for Few birds.
	8	47	37	99	21	25	29	48	29,86	Few birds.
	9	47	1	1000	1	1200		0.	1	INT NO DO O 1
			20	106	14	23	27	181	20 78	Ditto. Fresh breezes, and foggy; wi
					-	3	,	1	3	Chitta Moderate wind and hazzy Po
	11	48	16	109	6			49	29,70	I rain at times.  Ditto. Moderate wind, and hazy. Po poifes, and fome birds.
		.0			- 6	1		7		Ditto. Light breezes, and foggy. Son birds.
	12	48	40	110	20			501	29,66	birds.
	12	48	6	112	2			40	20.20	Variable. Moderate wind, and fogg Birds, and porpoises.
FIN	- 3	-			3			ТЭ		Birds, and porpoifes.
	14	47	19	115	28	17	34	49	29,36	Westerly. Fresh gales, and hazy. Passel rock-weed.
									CO. Bay	(W. N. W. Ditto, and some rain. Mar
	15	40	23	120	7			51 1	29,50	blue peterels.
	16	45	12	124	29			541	29,70	N. W. Brifk wind, with drizzling rain
	17	44	18	128	12	9	0	56 1	29,87	\{\text{W. N. W. Ditto, and some rain. Man}\}\ blue peterels. \{\text{N. W. Brisk wind, with drizzling rain}\}\ \text{N. W. Fresh gales, and cloudy we ther.}\}
		1			In	(a) (22)				(N. b. E. Moderate wind, with cloud
	18	44	23	131	28	6	0	55	29,55	N. b. E. Moderate wind, with cloud at times.

TABLE II. Continued.

Route of the Resolution and Discovery from Kerguelen's Land to Van Diemen's Land.

Tim	e.	La	titude outh.	Long E:	gitude aft.	Var W	iation left.	Therm.	Barom.	Winds, Weather, and Remarks.
1777 Jan.					39		,	° 56≩	Inches. 29,55	N. W. Brifk wind, fome hard fqualls mostly clear.
	20	43	33 <sup>1</sup> / <sub>2</sub>	138	19		N.	563	29,40	N. W. Fresh gales, and fine weather A Westerly swell.
	21	43	23	141	16	I	aft.	56	29,95	West. Fresh gales, and fine weather Some showers.
	22	43	31 1	143	1	3	0	61	30,09	Westerly swell.
	23	43	41 <sup>2</sup>	144	27			60∄	30,02	W. N. W. Light winds, and mostly cloudy. At 3 P. M. saw Van Diemen's Land.
	24	43	47	147	0	5	15	55	30,26	S. W. Moderate wind, and fine weather.
	25	43	421	147	24	10	8	581	30,30	Variable. Light airs, and fine weather. Off Van Diemen's Land.
	26	43	331	147	42			671	30,15	Ditto. Ditto weather. Off Adventure Bay.

TABLE III.

Route of the Resolution and Discovery from Adventure Bay, Van Diemen's Land, to New Zealand.

Time	•	Lat	itude uth.	Long E:	ritude aft.	Var. E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1777.		0	,	0	,	0	,	0	Inches.	
Jan.	31	43	231	149	29	7.112		634	30,26	Variable. Moderate wind, and cloudy.
Feb.	1	44	161	152	9		•	631	29,97	N. N. E. Fresh gales, and cloudy Passed a whale.
	2	44	421	154	51	7				North. Fresh gales, foggy. Rain a times.
	3	44	423	157	41	1		641	30,06	N. b. W. Moderate breeze, and fine weather. Sea-weed, &c.
	4	44	I	160	13	II	0	60	30,05	N. W. b. N. Moderate wind, and hazy S. E. b. S. Moderate wind, and find
	5	43	32	161	59	II	11	59	30,09	
	6	42	56	163	39	13	0	633	29,90	W. S. W. Gentle breezes, and fai
	7	42	27	165	23	13	0	67	30,00	W. S. W. Light winds, and fair weather.
	8	41	54	167	29	13	0	66		N. W. b. N. Gentle gale, and fair wea- ther; fome lightning.
	9	40	591	169	30			64	29,95	Westerly. Moderate wind, and fair wea- ther. Saw two turtles, and several log- of wood.
dise	10	40	35½	171	27			63	30,20	Southerly. Squally and unfettled wea- ther. Passed several logs of wood At half past four P. M. saw New Zea- land, S. E.
volte	11	40	281	174	15		7.1	64		Variable. Light winds, and fair wea- ther. A very heavy dew. Cape Farewell, in New Zealand, S. 64° W. and Murderer's Bay S. 34° E.

TABLE IV.

Route of the Resolution and Discovery from Queen Charlotte's Sound, New Zealand, to the Friendly Isles.

Time.	Lat	titude outh.	Long Ea	itude	Vari E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1777-	0	,	0	,	0	,	0	Inches.	
Feb. 26	41	381					633	29,97	Variable. Moderate wind, and fome times cloudy.
27	41	43	176	49			62=	30,00	Ditto. Moderate wind and cloudy weather
28	41	171	177	17	12	231	64	30,09	Easterly. Moderate breeze, and fon clouds.
March 1	42	35	178	43	*		58±	29,85	N. E. Moderate wind, and fome rain
2	42	351	180	81	1				N. E. Light breezes, and fine weather Egg birds. A fwell from N. E.
3	42	24	182	36			60	29,53	Variable. Brisk wind; squally with ra at times. Saw a Port Egmont hen.
4	41	101	185	5			64	29,52	Westerly. Brisk wind, and fine weather Passed rock-weed.
5	39	501	187	26	13	23	60½		S. W. Fresh gale, and fine weather.
		10				100	66	20 80	Westerly. Fresh breeze, and fine we ther. Whales. The swell gone.
7	39	17	191	13	II.			29,97	N. b. W. Fresh breezes, and fine we ther; some showers.
8	39	24	192	52		7	693	30,17	N. b. W. Gentle breezes, and fine we ther. A copious dew.
9	39	301	194	10			68	30,30	N. b. W. Gentle breezes, and cloud A heavy dew,
10	39	26	195	22	10	49	69	30,32	N. N. W. Gentle breezes, and find weather. A strong dew.
		50	1 10				68 1		Northerly. Light airs, and fine weather
		411					68 1	30,12	Variable. Light airs, and fair weather
13	36	59 <sup>1</sup> / <sub>2</sub>	197	30			66	30,02	S. E. b. E. Fresh gales, and cloudy fome rain. Many porpoises.
14	35	28	198	43			684	29,98	S. E. b. E. Fresh gales, and cloudy fome rain. Many porpoises.  S. E. Fresh breezes, and squally; for rain. Few birds.
15	34	61	198	57	10	18	69	29,94	Easterly. Fresh gales, and showery we ther.

#### TABLE IV. Continued.

Route of the Resolution and Discovery from Queen Charlotte's Sound, New Zealand, to the Friendly Isles.

Time	·.		itude outh.		gitude aft.		iation Eaft.	Therm.	Barom.	Winds, Weather, and Remarks.
1777.		0	,	0	,	0	',	0	Inches.	
March	16	33	40	199	6	10	19			Northerly. Light winds, and drizzling
	17	33	24	199	19					Variable. Small breezes, and cloudy weather.
	18	32	4	200	14			69₹	30,10	E. b. S. Moderate wind, and cloudy with rain at times.
	19	30	29	200	54	100		751	29,99	Easterly. Moderate wind, with showers.
	20	29	4	201	15	9	39	723	20.07	Fafterly Moderate breezes with howers
	21	27	44	201	30			731	29,94	Eafterly. Gentle breezes, with cloud
	22	26	52	201	34	8	37	75₹	29,97	SE. b. N. Light breezes, and clear. Egg and Tropic birds.
	23	25	59	201	8	4		77 1	29,93	Easterly. Light breezes, and clear wea
	24	25	221	201	301				200 004	SE. N. E. Light breezes, and clear weather. Sharks, dolphin, and flying fifth
i i i i i i i i i i i i i i i i i i i	25	24	261	201	23	H		78	30,01	E. N. E. Light breezes, and clear wea ther. Tropic birds.
	26	23	40	201	23	8			30,03	Charks
	27	23	17	201	23			80	30,00	Easterly. Light breezes, and fair wea-
	28	22	44	201	12	8	33	821	30,02	N E Little wind, and mostly cloudy.
	29	22	13	201	40			791	29,99	Easterly. Light breezes, and fine wea-
pin.	30	21	54 <sup>1</sup>	201	49		1	L.VI.S		Easterly. Squally, with rain at times A large island, moderately high, S. W. three or four miles.
	31	20	26;	201	34			81	29,97	E. N. E. Moderate wind, and fine weather. Saw land, which proved to be two islands.
April	1	19	513	202	50			82	29,93	E. N. E. Little wind, and fine weather. The greater island bore S. 80° E. distant about four miles.

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TABLE IV. Continued.

Route of the Resolution and Discovery from Queen Charlotte's Sound, New Zealand, to the Friendly Isles.

Time			itude uth.	Long Ea	itude aft.		iation aft.	Therm.	Barom,	Winds, Weather, and Remarks.
1777.		0	,	0	,	0	,	0	Inches.	E. N. E. Little wind and fine weather
April	2	20	01/2	201	41	8	21	831	30,02	The larger island, N. 70° E. distant two miles.
	3	Pl	ing	off th	ne ifl	and	s of	Wat	eeoo, and	d Wenua-ete. Little wind, and fair weather
				201		1		183	29,96	Eafterly. Little wind, and fine weather
	5	19	161	201	28			834	30,00	E. N. E. Light airs, and cloudy.
	~	100			0			821	30,00	Easterly. Little wind, with showers Harvey's Isle, S. & E. distant two mile
	7	10	271	199	58			821	29,98	Ditto. Little wind, and variable weathe
	8	10	7	199	32	1		83	29,91	Ditto. Light airs, and clear weather.
4	Q	18	57	199	12	7	261	811	29,83	Ditto. Almost calm, with showers.
				198					29,75	Variable. Squally. Thunder and ligh ning, with rain.
	11	18	20	197	20			81	29,83	Ditto. Moderate wind. Ditto weathe Collected five puncheons of rain-wate
	12	18.	10	197	20			81	29,03	N. W. Moderate wind, and cloud with lightning.
	13	18	7	197	7			81	29,97	Variable. Squally. Some lightning Heavy rain.
	14	18	84	196	35			10500	29,90	N. Eafterly. Little wind, and rain weather. Palmerston's Island, N. b. I two or three miles.
	18	18	41/2	196	10			831	29,92	Northerly. Light breezes, and fine we ther. A fwell from the S.
	19	17	591	195	9				29,88	Ditto. Light breezes, with showers.
	- 25	1 35		193					29,82	(N W Moderate wind and thousand
	21	18	37	192	42			79	29,83	N. W. Fresh gales, and showers. Much fish, and many birds.
	22	18	35	192	21			79	29,96	Variable. Little wind, with rain.
	23	18	51	191	0			79	29,95	Ditto. Moderate wind. Thunder, ligh ning, and rain.
	24	19	25	189	40	10	33	76	29,94	Ditto. Squally unfettled weather. Sa
	25	19	47	188	44	1		75	29,90	Ditto. The same weather.
		1	1	1				1	1	

#### TABLE IV. Continued.

Route of the Resolution and Discovery from Queen Charlotte's Sound, New Zealand, to the Friendly Isles.

Time			itude outh.	Long Ea	itude ıft.	Vari Ea	ation	Therm.	Barom.	Winds, Weather, and Remarks.
1777.		0	,	0	,	0	,	0	Inches.	erled by I so you by with you
April	26	20	III	187	44			741	29,88	Variable. Squally, with rain.
	27	20	38	186	35	1		76 ‡	29,94	Variable. Squally, with rain.  Ditto. Little wind and cloudy, with rain.
	28	20	281	185	36	TE CO		81 1	29,85	Saw the Friendly Isles.
district	29		line.	185	21			80	30,05	Ditto. Moderate wind, with showers.  Annamooka; N. W. b. W. distant about three leagues.

#### TABLE V.

Route of the Resolution and Discovery from the Friendly Isles to Otaheite.

Time	e.		itude outh.		gitude ift.		iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1777		0	,	0	,	0	,	0	Inches.	वित्त कर साव प्रमान में यह देव हात
July	18	22	7	185	10	10	0	703	29,93	East. Brisk wind, and squally, with rain.
122 Tipe	19	22	261	186	91/2	8	42	69	30,03	Variable. Moderate wind, and fair wea-
				186			Tay.	70	30,10	S. E. Light winds, and cloudy. Saw many dolphins.
	21	22	59 <sup>1</sup>	187	3	The state of the s		71	30,11	Easterly. Moderate wind, and fair weather. Dolphins.
	22	24	4	187	59				1	1 3 7 7 3 7 1 1 1 1 1 1 1
	23	24	50	189	41			74	30,02	N. E. Moderate wind, and cloudy. N. E. Moderate wind, and dark cloudy weather.
	24	25	23	191				73 \$	30,03	N. N. E. Moderate wind, and hazy, with rain. Saw a gannet.
	25	25	45	192	21	8	47	74	30,20	N. N. E. Moderate wind, and fine weather.
	26	26	8 4	193	46.			80	30,16	N. b. E. Moderate wind, and drizzling rain at times.
	27	26	513	194	45	7				N. N. E. Squally, with showers.

TABLE V. Continued.

Route of the Resolution and Discovery from the Friendly Isles to Otaheite.

Time			itude uth.	Long Ea	itude st.	Vari E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1777			,	0	,	0	,	0	Inches.	A CONTRACTOR OF THE PROPERTY O
July		27 28	36 7	195		8	13		30,13	N. N. E. Brifk wind, and fair weather Ditto. Brifk wind, and showers.
	1000		35	198		1		1	29,54	Northerly. Strong gales, and fqually with rain.
	31	27	53	200	37	4		631	29,92	S.W. Moderate wind, and flying clouds Swell from the S. S. W.
Augui	t 1	27	49	202	111	7	44	67	30,00	Westerly. Brisk wind, and squally, wit showers.
	2	27	28	203	50	7	8	69 1	30,13	Ditto. Moderate wind, and cloudy, with fome rain.
	3	27	433	204	0	-		100	30,16	Variable. Light winds, and fair weathe Ditto. Moderate wind, and cloudy, with
	4	27	33 1	205	35			671	30,00	rain.
				206					30,11	S. W. Gentle breezes, and fine weather S.W. Gentle breezes, and fome shower
	7	25	9	208	58	7	37	68 1	30,25	S. S. W. A gentle breeze, and fine were ther.
	8	23	56	210	17	7	21	66	30,22	Southerly. A gentle breeze, and fin weather. Saw land (Toobouai) beating N. N. E.
				210		71			30,20	S. E. A gentle breeze, and fine weather
				211				72	30,16	E. b. S. Fresh breezes, and cloudy.
	11	19	141	211	43			77	30,16	Ditto. Fresh gale, with showers. Easterly. Light winds, and shower
	12	17	46					81	30,17	

TABLE VI.

Route of the Refolution and Discovery from the Society Isles to

Christmas Island.

Time.		titude outh.	Longi Eaf	tude t.	Var E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1777.	. 0	,	0	,	0	,	0	Inches.	
Decem. 9	15	421	207	41	5	45	82	29,97	E. b. N. Moderate wind, and showers.
10	14	32	207	3.4	5	35	85	29,93	E. b. N. Gentle breezes, and pleasant weather.
11	13	45	207	.7			83	29,92	N. E. b. E. Squally, with showers.
12	13	1	206	20	5	21	85	30,00	N.E. b. N. A light breeze, and fair weather.
13	12	17	205	58			834	29,93	N. E. b. E. Gentle breezes, and fair weather.
,		3	205	54		581	824	29,91	E. N. E. A fresh gale, and some rain.
			205	23	5	IQ	84	29,90	East. A fresh breeze, and fair weather.
16	8	59 57	205	5	5	71	84	29,03	E. b. N. A light breeze and clear. E. N. E. A fresh breeze, and fine wea-
17	7	381	204	29	4	54	85	29,88	ther. Tropic birds, egg-birds, and theerwaters.
18	6	24	204	19	5	21	844	29,88	Easterly. A gentle breeze, and fine weather. Many birds.
1.9	4	56±	204	9			832	29,90	E. b. N. A fresh breeze. Many birds. Easterly. A fresh breeze, and passing
20	3	32	203	39	5	29	821	29,88	clouds. Few birds, except terns, and egg-birds.
21	2	21/2	203	9	5	44	824	29,91	E. b. N. Moderate wind, and fome showers. A few egg-birds.
22	0	34S.	202	57			81	29,93	East. A fresh breeze, and fine weather Men-of-war, terns, and tropic birds.
23	0	45N.	202	38	6	49	82	20.07	East. Moderate wind, and fine weather.  Many birds.
24	2	21	202	33	6	20	83	30,08	SE. S. E. Moderate wind. Christmas  Isle E. S. E. four miles.
25					line No		1	29,99	ther. Plying off the Isle.
26	1	57 <sup>±</sup>	202	34			80	30,09	Easterly. Moderate wind, and fine wea- ther. At anchor off the West side of the island.
				11					

TABLE VII.

Route of the Resolution and Discovery from Christmas Island to Sandwich Isles.

Time		Lat	itude orth.	Long: Ea	itude ft.	Vari E	ation	Fherm.	Barom.	Winds, Weather, and Remarks.
1778.		۰	,	0	, .	0	,	0	Inches.	
Jan.	2	2	27	202	36	12		823	29,97	E. S. E. A fresh gale.
	3			202	-				29,97	Easterly. Moderate wind; some rain.
	4	4	8	202				-	29,90	Ditto. Moderate breeze, and fair we
	5	4	56	203	0			78	29,90	Ditto. Light winds, and drizzling rai
	6		77	203		. 5	58		29,87	E. b. S. Moderate wind, and shower Many birds.
	7	6	43	203	54			77	29,85	Eafterly. A gentle breeze, and for rain. Saw birds and drift-wood.
	8	7	45	205	0	6	46	78 =	29,96	Ditto. Moderate wind, and fome rai Strong current fetting N. E.
	9	8	12	205	12					Ditto. Light airs, and fine weather.
	10			205			.,			E. N. E. Gentle breezes, with shower Some birds.
	11	10	44	204	49		1	83	29,89	(Faffarly Light brooks and fine we
	12	12	17	204	14			81 1	29,95	E. N.E. Gentle breezes, and fine we ther. Many turtles, and birds.
	13	14	12	203	3			793	30,04	N.E.b.E. Fresh breeze, and fair we ther.
	14	15	58	202	8			791	29,95	Ditto. A fresh gale, and some showers
	15	17	40	201				78	30,00	E. N. E. Ditto, ditto.
				200			1 8		30,19	N.E.b.E. A fresh gale, with some rai
	17	20	25	200	38			78	30,03	
	18	21	121	200	41			77	30,15	Eafterly. A gentle gale, and fair weather Two islands seen, one bearing N.E. 1 and the other N. b. W. 1 W.
	19	21	501	200	39	150		79	30,21	Variable. Light airs, and fine weather The extremes of the fecond island I 7° W. and N. 81° ½ W. Off show about two leagues.

#### TABLE VIII.

Route of the Resolution and Discovery from Sandwich Isles to King George's or Nootka Sound, on the West Coast of America.

Time			itude orth.	Long Ea	itude ft.		ation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
- 1778.		0	,	0	,	0	,		Inches.	
Feb.				199	-				30,08	Easterly. Fresh breezes, and fair weather. Ditto. Moderate wind, and some rain.
	4	24	31	199	26	11	21	76	30,19	E. b. N. Fresh breezes; some rain Passed through the rippling of a cur- rent.
	5	26	71	199	44	-		771	30,27	East. A fresh gale, and fair weather.
	77.			200				2000	30,29	Easterly. A gentle breeze, and some
				200		12	10		30,23	Ditto. Moderate wind, and some showers Ditto. A fresh breeze, and fair weather
	9	30	59	202	5	13	59	731	30,27	S. S. E. A light breeze, and drizzlin rain. Saw a grampus.
	10	31	211	203	14	-		63	30,31	Variable. Moderate wind, and showers.
	11	30	58	205	22	-			30,51	Northerly. Brisk wind. Cold, and cloud weather.
	12	30	13	206	19			59	120.52	N.N.E. Fresh gales, and cloudy, wit
	13	31	21	206	0			591		E.N.E. Moderate wind, and dark gloom weather.
	14	31	35	205	59	11	4	62	30,46	N.E. Light breezes, and cloudy weather.
	15	32	29	205	24			59	30,45	c monero. come birde.
				205				57	30,46	Eafterly. Moderate wind, and cloudy.
				205			6	58	0	Ditto. Light winds, and cloudy. E. N. E. Moderate wind, and cloudy.
				205		1	41	563	20.50	E. S. E. Moderate wind, and form
		38		207		17	2	561	30,48	Southerly. Light winds, and fine weather.
		39		209	41					
	22	40	18:	212	14	18	59	56	30,35	S. S. E. Fresh gales, and fine weather.
		3 41		214				53	30,35	Ditto. Gentle gale, and clear weather A ftrong dew.
12	24	441	44	217	10	1		54	30,37	1

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#### TABLE VIII: Continued.

Route of the Resolution and Discovery from Sandwich Isles to King George's or Nootka Sound, on the West Coast of America.

Time			itude orth.	Long Ea	gitude uft.	Var. E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.		0	,	0	,	0	,	0	Inches.	S. E. b. S. Moderate wind, and hazy
Feb.	25	42	314	219	21			561	30,28	Paffed a log of wood.
	26	43	17	222	16	20	33	51 1	30,31	S. S. E. Fresh breeze, and cloudy. S. E. b. S. Fresh breeze, and cloudy
	27	43	48	224	55	in		49	30,29	Paffed more wood.
								101	20 15	Ditto. Gentle breezes, and cloudy wea-
		of China	200	226	22			100	30,15	C CHCI.
March				228	2				30,21	S.E. b.E. Moderate breeze, and cloudy Variable. Light airs, and cloudy.
				228		18			30,33	lar at T C il- burnes and oloudst
	3	44	321	229	7				30,34	North. A fresh gale, and flying clouds.
			-	-				1		Northerly. Moderate wind, and flying
	5	43	45	232	45	17	321	50	29,86	) clouds.
	6	44	10	234	20	init.		48 ‡	29,98	N. W. Light airs, and hazy. Sav whales, feals, and drift-wood.
	7	44	331	235	28			471	30,27	Northerly. Light airs, and fair weather Saw the coast of America from N.N.E to S. E. ½ E. about eight leagues off.
	8	44	271	235	21	17	43	43 1	30,17	Westerly. Squally, with rain at times.
	0	42	55	234	44			441	30,12	W. N. W. Squally, with hail and rain at times.
	-	13	33	3,				1		(W. N. W. Very unsettled weather
	10	43	40	234	47			421	29,91	Hail, rain, and fleet.
	11	12	44	235	21			38 1	29,70	N.W. Unsettled weather. Hail, rain, &c
		1.55						28	20.86	Westerly. Very strong gales, with hail
	12	43	6	235	0			130	29,00	rain, and fleet.
	12	42	47	233	27			40	30,16	N. N. W. Fresh gales, and cloudy Snow and sleet.
	- 3		.,	33	,		-			Westerly. Squally weather. Hail, rain and sleet.
	14	43	17	233	43	1		4I 1/2	29,86	and fleet.
								1.6	20.04	N.W.b.N. Strong gales of wind, with fqualls of fnow and fleet.
	15	42	40 1	231	45			1		
				232				47	30,00	N. W. Moderate wind; fome rain.
	17	43	56	233	52				30,22	
	18	44	501	234	8			401	30,07	Westerly. Moderate wind, some fam.

#### TABLE VIII. Continued.

APPENDIX, Nº I.

Route of the Resolution and Discovery from Sandwich Isles to King George's or Nootka Sound, on the West Coast of America.

Time.		itude orth.	Long Ea	itude	Var E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.	0	,	0	,	0	,	0	Inches.	(Variable. Light winds, and mostly
March 19	44	56	233	58	17	52	TO BY	30,31	cloudy.
20	45	301	234	6			49 1	30,17	Ditto. Light winds, and fair weather.
21	45	51	234	8			451	30,02	Ditto. Light winds, and cloudy; fome
22	47	23	235	5		tylia ylio	44‡	30,00	Ditto. Moderate wind, mostly cloudy fome rain. Saw the land from N. b W. to E. b. S.
23	47	56	234	17	16	41 2	45	29,85	W. to E. b. S. Westerly. Strong gales, and unsettled weather.
. 24	47	41	234	7			12	20.17	Ditto. Frein gales, and rather unlettle
2.5	48	30	232	41			4.5	29,63	Variable. Fresh gales, and squally, with sleet at times.
20	48	2.I ½	232	28			45	29,91	N. Westerly. Fresh gales, and squally hail, rain, and sleet.
2	47	56	231	24	19	27	45	30,12	Ditto. Light winds, and cloudy wea
2	48	56	232	12		, 21	49	30,15	Westerly. Fresh gales, and cloudy.
79 20	49	291	233	26		4	46 1	30,10	Ditto. Light breezes, and fair wea
TAP IN OIL	to la	II.	233	all.	in the	. fad	45	30,21	N. W. b. W. Light airs, and fin weather.
			208,			l.	.017	107 50	40 to 40 to 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
d: foggy	di					wit in		18.	
neber in	7. 3.		1 SQ	inguj.	TEV.	7 50	air I	1	
Te a									
			-						

#### TABLE IX.

Route of the Resolution and Discovery from King George's or Nootka Sound, to Prince William's, along the Western coast of America.

Time		Lat	itude orth.	Longi Ea	itude ft.	Vari E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.	- 1		1	0	,	0	,	0	Inches.	Eafterly. Strong gales, and thick wea-
April	27	49	39	231	31			51	29,40	ther.
	28	50	1	229	26			53	29,54	S. Easterly. Heavy squalls, and showery weather.
				226					29,38	Ditto. Squally, with rain at times.
	30	53						451	29,40	Southerly. Fresh gales, rain at times.
May				224	44	24	19	44	29,62	S. Easterly. Gentle gales, with showers.
	2	56	50	224	6			43=	30,08	E. S. É. Fresh gales; squally with rain
	2	58	17	222	14			46	29,94	Variable. Fresh gales, flying clouds, and
				125		18505		1		fome rain.
	4	58	22	220	4.5	24	II	53	29,96	N. W. Light airs, and fine weather.
1	5	58		220			11	481	30,16	W. N.W. Light breezes, and fair wea
	6	59	8	220	19	23	10	47	30,04	Variable. Light airs, and pleasant wear ther.
	7	59	271	219	7	24	26		29,96	Northerly. Light airs, and clear wear ther.
	8	59	11	217	41			51 ½	29,88	Variable. Light breezes, and clear wea
	9	59	311	217	0	22	47	521	29,86	Ditto. Light airs, and fine weather.
	- 60		-	215				1	29,58	CD' Tibe bases and for also
	11	59	33	215	21	27	35	554	29,60	Ditto. Light breezes, and fine weather
				213				48	29,60	Easterly. Light breezes and cloudy.
				213					29,92	Ditte Frank hassess and also were
	14	60	19	213	7			49	29,80	S. Eafterly. Fresh gales, and thick fogg weather, with rain. At anchor i Prince William's Sound.

#### TABLE X.

Route of the Resolution and Discovery from Prince William's Sound to Cook's River, along the Western Coast of America.

Time	e.		itude orth.	Long Ea	itude ift.	Var E	iation East.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.		0	,	0	,	٥	,	0	Inches.	N. W. A gentle breeze, and clear wea-
May	18	60	30	212	211	12		50	29,71	ther.
	19	60	3	212	12	23	37	461	29,67	Variable. Light breezes and fair weather.
				211		20			29,72	Ditto. Light airs, and thick weather. Ditto. Moderate wind, and fair weather
				210		23	42	1000	30,12	Westerly. Fresh gales, and fair weather
				208					30,25	Ditto. Fresh gales, and fair weather. Ditto. Light breezes, and fair weather
				207					30,17	Northerly. Fresh gales.
				206					29,92	Variable. Fresh gales.
	27	59	20	207	20			44	29,75	N. W. Strong gales, and thick hazy Weather, with rain.
	28	59	501	207	24			463	30,17	Easterly. Light breezes, and hazy weather.
	29	60		207				42	29,98	Variable. Fresh gales, and drizzling rain
				208				463	29,77	Northerly. Light winds.
	31	61	II	208	45			46	29,72	Ditto. Light winds, and drizzling rain Calm, with fair weather, and drizzling
June	1	61	54	209	24			47	29,57	rain alternately.

#### TABLE XI.

Route of the Resolution and Discovery from Cook's River to Samganoodha Harbour, in the Island Oonalashka.

Time			itude orth.	Long Ea			iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.		0	,	0	,	0	,	0	Inches.	
June	7.00	58 57	-	207				100	30,32	Variable. Light winds, and cloudy. Ditto. Fresh breezes, and fair weather
	9	57	42	207	39			46	30,17	S.E.b.S. Moderate wind, and drizzling rain.
	10	57	20	207	25			46	30,11	S. E. b. S. A gentle breeze, and mist weather.
	11	57	5	207	33	la v		45	29,97	S. E. Moderate wind, drizzling rain and thick foggy weather.
	12	57	3 ½	206	12			481	30,11	Southerly. Moderate breeze, and foggy with drizzling rain.
	13	56	49	205	40	20	31	493		W.S.W. Fresh breezes, and hazy weather
	75-	174		205		-47		491	29,98	Ditto. Fresh breezes, and close cloud weather.
	15	56	23	202	51			45	29,50	Southerly. Fresh gales, and foggy; rai at times.
	16	56	5	201	10			44	29,91	Variable. Fresh gales, and foggy, rai at times.
	17	55	33	200	48	20	22	441	30,07	Westerly. Light winds, and clear weather
				200	42	22	32		30,06	Variable. Light winds, and fine weather
				199	16			47	29,85	Ditto. Light winds, and fine weather
				197					29,81	N. E. Light breezes, and fair weather N. W. b. N. Light breezes, and fair
		170		196				53	29,68	weather.   Westerly. Light airs, and fine weather
		Sar.		195		-		-	29,52	Variable. Light winds, and hazy; form
				195					29,80	W. S.W. A fresh gale, and cloudy; som
		1		194						Variable Lightwinds and begy weethe
	26	53	46	194	I		4	45	29,80	Easterly. Light winds, and thick fogg weather.
	27	53	51 1	193	35		*	46	29,80	S. S. E. Fresh gales, and foggy.
			1	193					29,70	Northerly. Light breezes. Came to a anchor off Samganoodha Bay.

#### TABLE XII.

Route of the Resolution and Discovery from Samganoodha Bay to Bristol Bay, along the Western Coast of America.

Time.	La N	titude orth.	Long Ea	itude ift.	Var E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.	0	,	0	,	0	,	0	Inches.	
July 2	54 55		193		1F		47 46	30,24	E. S. E. Light airs, and fine weath Easterly. Moderate wind, and foggy
4	55	491	197	5			44	29,67	Southerly. Moderate wind, and the weather.
. 5	56	30	198	43			424	29,68	Eafterly. The same weather. Variable. Light winds, and foggy, w
6	56	55	199	36			42	29,73	rain.
7	57	6± 16	200	16	26	13	50 47	30,01	Northerly. Light winds, and hazy. Variable. Light winds, and fine weath
		491			20	-3	44	30,13	Ditto. Light winds, and fine weath
10	58	184	200	39	22	49	51	30,11	Ditto. A gentle breeze, and fair w
11	58	0	200	34	1	y (Se	48	30,16	c dilbuiling imili
12	58	124	200	33	22	32	51	30,10	Variable. Light winds, and hazy; the der and lightning.
		131	199		L		50	30,17	Westerly. Light winds, and fine weath Westerly. Light airs, and fine weath
15	58	22	198	39	T		52	30,17	Ditto. Light airs, and fine weather
			197					30,28	Ditto. Light winds, and foggy at time Variable. Light airs, and fine weath
			197		41			30,17	Ditto. The fame weather.
19	59	30	197	45			63	29,85	S. W. Light winds, and fair weath At anchor off Cape Newnham.

#### TABLE XIII.

Route of the Resolution and Discovery from Bristol Bay to Norton Sound, on the Western Coast of America.

Time			itude orth.	Long Ea	itude ft.		iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.		0	,	0	,	0	,	0	Inches.	Easterly. Moderate wind, and cloudy.
July	23	58	43	196	45			53	29,73	Cape Newnham N. 39° E. diftan about ten leagues.
	24	58	7	194	22			49 3	29,65	E. N. E. Moderate wind, and misty weather.
	25	58	251	192	13			501	29,00	Northerly. Moderate wind, and thick
	26	58	37	191	36			53	29,86	N.Eafterly. Little wind, and thick fog Many whales, and birds.
	27	59	II	190	57			51		Northerly. Little wind, and foggy Many birds, and feals.
	28	59	55	190	0	18	40		29,77	N. Easterly. Light winds, and fogg weather.
	II (E)			187	10000			48	29,54	Northerly. Light winds, and foggy with rain. Many birds.
	-			188				55	29,58	Ditto. Light winds, and mostly foggy Variable. Little wind, and foggy weal ther.
Aug.	I	61	57 <sup>1</sup> / <sub>2</sub>	190	47	-		51	20.82	Easterly. Light winds, and cloudy
	2	61	55	191	44	1		491	29,77	Variable. Light winds and cloudy with rain.
		1000		192				55	30,01	( lan.
180	4	63	53	194	0			52	30,00	Easterly. Moderate wind, with rain.
	5	64	30	193	48			50	29,76	Variable. Moderate wind, with rain.  Wariable. Moderate wind, and foggy with rain.
	6	64	39	193	I				200 3 1 TO A 1 TO A 1	Southerly. Moderate breeze, and foggy with rain.
	7	64	48	192	42			49	29,85	Westerly. Little wind, and thick mist weather.
	8	65	0	192	30			48	29,70	Variable. Little wind, and foggy, with
	9	65	48	191	42			50	29,70	N. Easterly. Fresh breeze, and foggy fome rain.

#### TABLE XIII. Continued.

Route of the Resolution and Discovery from Bristol Bay to Norton Sound, on the Western Coast of America.

Time	e.	Lat	itude orth.	Long Ea	itude ift.	Var E	iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.		0	,	0	,	0	,	0	Inches.	
Aug.	10	65	36	189	15	27	22	45	30,06	Northerly. Fresh gales, and fair wea-
L L CO	10033		1000	191						Southerly. Light winds, and fine wea
	12	66	201	191	6	30	41	51.	29,97	Variable. Light winds, and fair wea
	13	66	321	192	0	27	151	50	30,10	Northerly. Light breezes, and fine wea
				194				451	30,18	S. Eafterly. A fresh breeze, and hazy
	15	68	18	193	1			48	29,79	Southerly. Fresh gales, and foggy, with
	16	69	57	193	41	35	32	42	29,85	Ditto Fresh cales and hazy weather
	17	70	33	197	35	35	I	35	30,10	Westerly. Moderate wind, and haz weather.
	18	70	44	198	24			33 4	30,02	Ditto. Fresh gales, and foggy; wit
	19	70	6	196	32			33 =	30,07	Ditto. Fresh gales, and hazy; with snow
	20	70	4	196	0			38 =	29,99	Ditto. Fresh breezes, and foggy wea
38.20	21	69	32	195	48	31	3	42	29,76	Northerly. Light winds, and thick fog
	22	69	34	194	42	gii c		44	29,73	Variable. Light breezes, and fogg
	23	69	331	194	20			44	29,57	Ditto. Light breezes, and thick fog.
	24	69	30	190	23			35	30,10	N. Westerly. Moderate wind, and foggy fome snow.
			-	187	1050	1	44			Westerly. Fresh gales, with showers of show and rain.
	26	69	36	184	0	23	20	37 1	29,96	Ditto. Fresh breezes, and cold ray weather.
	27	69	331	183	30			412	29,66	Variable. Fresh gales, and cloudy; cold and some rain. Ditto. Light winds, and misty weather some rain.
	28	69	17	182	40	25	56	35 3	29,96	Ditto. Light winds, and misty weather fome rain.

TABLE XIII. Continued.

Route of the Resolution and Discovery from Bristol Bay to Norton Sound, on the Western Coast of America.

Time			itude orth.	Long E:	itude ift.		ation	Therm.	Barom.	Winds, Weather, and Remarks.
1778.		0	,	0	,	0	,	0	Inches.	Variable. Fresh breezes; hazy; fome
Aug.	29	68	49	181	26			37	29,89	rain.
	30	68	311	182	32	1		33	30,10	C WICH INGEL MICH.
	31	68	6	185	39	Ā		35	30,21	N. W. b. N. Moderate wind, and hazy fome fnow.
Sept.	1	67	30	187	15			35	130,20	North. Moderate wind, with fnow and fleet.
	2	66	371	189	20	27	571	34	30,07	N. N. W. Light winds, and much
	3	65	28	189	5	-		44	29,97	n. N. W. Moderate wind; inowers of
TRIPINAL PROPERTY.	4	64	381	188	15	24	53	30	20,76	Northerly. Light winds, and fine wea
1000	-	61	8	180	57			201	20.84	N. N. W. Light winds; the air dr
	6	63	55 <sup>1</sup> / <sub>2</sub>	193	30	26	53	43	29,66	N. N. W. Light winds, and fair weather.
	7	64	10	194	20	25	50	4.0	30,00	Westerly. The same weather.
	400			197		-			29,90	S. Westerly. Fresh breezes, and foggy fome rain.
	10	64	33	197	30	I		41	29,97	Westerly. Light winds, and cloudy In Norton Sound.

#### TABLE XIV.

Route of the Resolution and Discovery from Norton Sound to the Island of Oonalashka.

Time		Lat	itude orth.	Long Ea			iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778.		0	,	0	,	0	,	0	Inches.	er all control of the state of
Sept.			37	198		A.	.0		29,78	Easterly. Light winds, and fair weather Ditto. Light winds, and fine weather.
	19	63	43	196	12	15	F.	49	29,97	Variable. Moderate wind, and fair wea-
	20	63	37	192	12	22	23	38	29,73	N. Eafterly. Fresh gales, and passing clouds
	21	62	58	190	17	911		39	29,67	Northerly. Fresh gales, with showers of fnow.
	22	61	45	189	0			39	29,74	e of mow.
	23	60	2 I ½	187	30			40	29,95	N.W. A fresh breeze, and cloudy cold weather.
. ,	24	59	174	189	5	JI KI		40	30,25	( Weather.
	25	58	31	190	5.1	201		44	30,00	Southerly. Strong gales, and cloudy, but mild weather.
	26	58	361	189	15			441	29,30	S. S. E. Fresh gales, and hazy weather; fome rain.
	27	58	36	189	43			45 4	29,25	S. S. E. Moderate wind, and cloudy fome rain.
. 520	28	58	2	190	28			49	29,41	Southerly. Light winds, and mostly fair weather.
	29	57	. 0	192	2			50	29,69	S.W. Fresh gales, with showers of sleet and rain.
nigh.	30	56	30	192	50			50	29,75	Variable. Light winds, and some show- ers. Many whales.
Oct.	1	55	29	193	. 0	14		47	29,77	S. Westerly. Light airs, and some showers
Hiter	2	54	21/2	192	27	lah.		45	30,14	Westerly. Light airs, and showery weather.
	3	53	59	elig		19	59	47	30,47	Westerly. Light breezes. Standing into Samganoodha harbour, in the island of Oonalashka.

TABLE XV.

Route of the Resolution and Discovery from Oonalashka to Sandwich Isles.

Tim	e.		titude orth.		gitude aft.		iation laft.	Therm.	Barom.	Winds, Weather, and Remarks.
1778		0	,	0	. ,	0	,	0	Inches.	
oa.	27	54	8	eme		19	59	431	30,01	Variable. Strong gales, with rain.
	28	53	59					44	29,60	S. Westerly. Strong gales, with hail and rain.
	29	53	521	191	41			39	30,05	Variable. Very strong gales, with hai and rain.
	30	53	45			1		38	29,50	West. Strong gales, with showers of snow and rain.
	31	52	I ½	194	56			39	30,40	c and nect.
Nov.	1	49	55	196	2			41	30,11	Westerly. Strong gales, with hail, snow and sleet.
	2	48	31	197	10			46	29,95	Ditto. Fresh gales, with thick rain weather.
	3	48	I	198	28			43	29,50	Southerly. Strong gales, with rain.
	4	45	444	199	51			46	29,92	W. b. S. Strong gales, with showers of hail.
	5	44	31	200	36		11	49	29,40	Variable. Fresh gales, and rainy weather.
	6	42	29‡	201	27	17	15	50	30,23	N. W. Moderate wind, and foggy wea- ther.
10	7	41	10	202	2			55	30,25	S.W. Light winds, and fome rain. Sav
			-	202		16	5	59		Westerly. Light winds, and cloudy.
	9	39	36	202	36			58	30,17	North. Light winds, with rain.
	10	39	10	203	16	1	W		The state of the s	Variable. Light winds, with flying clouds.
	11	38	38	205	. 0			65	30,48	South. Moderate wind, and mostly cloudy.
	12	38	14	206	17	1	1		30,31	South. Moderate wind, and mostly cloudy.
	13	36	6	206	33		I S I S	62	30,33	Westerly. Fresh gale, and hazy, with some rain.
	14	34	39	206	46		5	63	30,43	N. b. E. Light winds, and cloudy wea- ther.
	15	33	33	206	57			69	30,40	E. N. E. Light winds, and mostly cloudy.

#### T A B L E XV. Continued.

Route of the Resolution and Discovery from Oonalashka to Sandwich Isles.

Time			itude orth.		itude		riation East.	Therm.	Barom.	Winds, Weather, and Remarks.
1778 Nov.	16 17 18 19 20 21 22 23	32 32 32 32 32 30 27 26 24	47 26 41 27 23 53 17 <sup>1</sup> / <sub>2</sub>	0	57 51 52 44 51 28	0	57	69 76 74 71 65 67 68‡ 72‡	Inches. 30,35 30,45 30,32 30,15 30,17 30,21 30,31 30,30	N. Easterly. Light winds, and cloudy. Several dolphins. Easterly. Light winds, and fine weather. S.S.E. Moderate wind, and fine weather. Southerly. Moderate wind, and cloudy. Variable. Strong gales, with rain. Northerly. Strong wind, and showery weather. North. Light winds, with showers. Northerly. Light winds, and fine weather. E.N.E. A fresh breeze, and fine weather.
and the	25	20	57 4	204	38			811	30,22	Easterly. Fresh gales, with showers.  Ditto. Fresh breeze, and fine weather.  Sandwich Isles, from E. by the S. to W.

#### TABLE XVI.

Route of the Resolution and Discovery from Sandwich Isles to the Bay of St. Peter and Paul in Kamtschatka.

Time			itude orth.	Long Ea	itude ift.		iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1779.		0	,	0	,	0	,	0	Inches.	Oneeheow, from N.E. & E. to East; and
March	15	21	47	199	37	-		75	30,15	
	16	21	27	198	50	17		74	30,17	Eafterly. Moderate breezes, and cloudy.
	17	21	18	197	2			TI	20 00	IF N E Fresh breezes and fair weather
	18	21	12	195	26	10	4	77	30,21	N. E. b. E. Moderate wind, and fair weather.
	19	21	11	194	28	9	10	741	30,16	N. Easterly. Moderate wind, and fair. Many boobies.
	20	20	52	193.	22	11	30-3	751	30,12	N. N. E. Light wind, and fair weather. Many sharks.

TABLE XVI. Continued.

Route of the Resolution and Discovery from Sandwich Isles to the Bay of St. Peter and Paul, in Kamtschatka.

Time			itude rth.	Longi Ea			ation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1779.			,	0	,	0	,	0	Inches.	
March	21	20	37	192	13	11	26	77	30,21	E. N. E. Moderate wind, and fair weather. Several bonetos about.
			27	190	44			77	30,23	E.b. N. Moderate wind, with some rain.
	23	19	58	188	22	11	51		30,24	N. E. b. E. Fresh breezes, with rain.
1.2	24	19	56	186	0			81	30,21	E. N. E. Moderate wind, and fome rain.
	25	19	58	184	12	II	14			Easterly. Moderate wind, and fair weather. Several men-of-war birds.
	1	100	48	1000	100	14		791	30,16	Easterly. Light winds, and fair weather. The birds remain with us.
	27	19	491	182	29	12	8	81	30,10	East. Light winds, and fine weather.
	28	20	6	181	23			78	30,06	E. N.E. Light winds, and fine weather.
	29	20	16	180	59	10				Easterly. Light winds, and fine weather. Bobies, and men-of-war birds.
	30	20	21	180	25			1	The state of the s	Southerly. Light winds, and fome rain. Porpoises, dolphins, and birds.
63	31	20	35	179	47					Southerly. Light airs, and hot fultry weather.
April	1	21	14	179	31	I I	21			Easterly. Light winds, and cloudy. Dol- phins, and men-of-war birds.
7			36			R.			1	N. Eafterly. Fresh gales, and squally weather. Passed a turtle.
1	:	24	384	175	21	-		75	30,21	IN. Easterly. Fresh gales, and cloudy
	-	1 26	21	173	36	-		73	30,30	E. N. E. Fresh gales, and hazy, with rain; some lightning.
	-	5 28	:33	171	47			71	30,12	Easterly. Fresh gales, and hazy, with rain
	(	30	13	170	13	1		69	29,98	Variable, Fresh gales, with rain
			6					59	30,24	N. b. W. Fresh gales, and squally, with rain. Saw an albatross.
		8 30	39	167	4	9	9	62	30,46	[N. Easterly. Fresh breezes, and cloudy fome rain.]  S. Easterly. Moderate wind, and fai weather.  Variable. Light winds, and cloudy fome rain.
1		9 32	16	166	39			67	30,42	S. Easterly. Moderate wind, and fai weather.
	1	0 33	3 30	166	5 0			63	30,42	Variable. Light winds, and cloudy fome rain.

#### TABLE XVI. Continued.

Route of the Resolution and Discovery from Sandwich Isles to the Bay of St. Peter and Paul, in Kamtschatka.

Time			tude orth.	Long Ea	itude st.		ation	Therm.	Barom.	Winds, Weather, and Remarks.
1779.		0	,	0	,	0	,	0	Inches.	The second secon
April	11	35	32	165	30	W		62	29,94	Southerly. Fresh breezes, and squally some rain.
الأوج	12	37	10	164	34			50	30,42	Variable. Fresh gales, and hazy; for rain. Birds.
		7.5	177	163		e i		49	30,33	C Talli. Collic divers.
				162				45	29,94	E.N.E. Strong wind, with rain and hai
				160	42			42	30,30	N. Easterly. Strong gales, and cloudy
mi i	16	42	I 2 ½	159	41	6	20	41	30,36	Northerly. Light winds, and cloud weather.
	17	43	18	160	0.			41	30,31	Northerly. Moderate wind, and cloud weather.
				160		1				Variable. Fresh gales, with rain.
70. 4				161				31 1	29,80	
	20	49	48	161	30	9	331	32	29,83	S.W. Moderate wind, and fnow at time
	21	50.	25‡	161	48			36	30,05	Northerly. Moderate wind, and cloud with showers of snow.
THE PLANT	22	51	38	160	7			30	30,16	N. Eafterly. Fresh breezes, and cloud
142		52	-	1 59				1	30,17	N. Easterly. Moderate wind, and fogg Saw the continent of Asia.
	24	52	30	1 59	40			30	30,13	N. Easterly. Moderate wind, and fogg with sleet.
	25	52	40	159	30			301	30,55	N. E. Fresh gales, and hazy, with slee
	26	52	35	1 59	43			294	29,90	N. E. Fresh gales, with much snow
	27	52	45	159	43	1		293	30,20	N. Eafterly. Fresh gales, and foggy, win fnow.
	28	52	45	160	0			34	30,11	N. N. E. Moderate breezes, with flee The North point forming the entran into the bay of St. Peter and Par bore N. 49° West, distant about the leagues.

#### TABLE XVII.

Route of the Resolution and Discovery from the Bay of St. Peter and Paul toward the North, and back to that Place.

Tim	e.		titude orth.		gitude aft.		iation laft.	Therm.	Barom.	Winds, Weather, and Remarks.
1779		0	,	0	,	0	,	0	Inches.	
June	17	52	46	159	11	7	591	491	29,74	Variable. Light winds, and hazy, with fome rain.
	18	52	39	159	42	8	59	42 1	29,92	S. E. b. E. Light winds, and foggy weather.
	19	53	59	161	17				29,95	
	20	54	53 <sup>1</sup> / <sub>2</sub>	162	48					S. b.W. Fresh gales, and foggy weather Many birds.
	21	55	511	163	42			47 £	30,03	Variable. Moderate wind, and hazy
					45 47			52 48½	29,75	Variable. Moderate wind, and fome rain Variable. Light winds, and foggy.
				200		1 2	ΙΙ½	461	29,92	S. S. W. Moderate wind, and foggy a times.
	25	59	8	168	16	13	10	501	30,06	Southerly. Light winds, and foggy at times.
			27	72	(30)	-		120	30,07	S. W. b. S. Moderate wind, and very
	27	59	52	175	44	13	30	43	29,96	S. W. Fresh gales, and foggy. Many
	28	61	56	176	2	17	19	504	29,60	S.W. Moderate wind, and hazy. Bird
	29	62	4	178	24			44=	29,43	Westerly. Moderate wind, and hazy fome rain.
	30	61	49	1.80	17				-7,1-	Ditto. Light breezes, and hazy wea-
July	1	62	01	181	13			44	29,72	Variable. Light winds, and foggy; fome
	2	62	38	182	49			45	29,82	I Southerly Light winds and thick for
	3	63	35	186	57		3.16	44	30,09	S.E. Moderate wind, and mostly foggy.
	5	65	33 42	188	51 47	26	53	42 42 ½	30,16	S.E. Moderate wind, and mostly foggy. S.E. Light winds, and foggy, at times. Southerly. Light airs, and foggy. Many whales and birds.
	6		0				-	40	29,87	S.b. E. Moderate wind, and hazy. Met with ice.

### T A B L E XVII. Continued.

Route of the Refolution and Discovery from the Bay of St. Peter and Paul toward the North, and back to that Place.

Time	е.	Lat	itude orth.	Long Ea	ritude uft.		riation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1779	e	0	1	0	,	۰	,,	0	Inches.	
July	7	68	22	192	18	27	22	37	29,67	Southerly. Moderate wind, and foggy with rain. Sea-horses.
	8	69	25	192		1	-		- 7,1-	{ Variable. Light winds, and foggy, with fnow and rain.
	9	69	11	188	54	29				N. b. W. Fresh gales, and hazy, with fnow, and cold weather.
	10	68	. 1	188	50					N. W. Light winds, and foggy, with
				189		27	32	38	29,48	N. Easterly. Light winds, and foggy with snow and sleet.
	12	68	41	189	0	100		37	29,18	Northerly Light winds roin and floor
-	13	69	29	188	10	26	10	36	29,78	Variable, Moderate wind, rain and fleet
	14	69		189				41	29,67	Easterly. Light winds, and foggy, with rain and fleet.
	15	69	36	190	17				29,55	c weather.
	16	69	55	193	7			100	5.22	S. Westerly. Strong wind and foggy with snow and sleet.
	17	69	55	195	14.	35				S. Westerly. Fresh gales, with snow and sleet.
	18	70	26	196	18	31	20	112	200,000	Variable. Light winds and foggy, with fnow and fleet.
		333		197		28	59	37	29,91	Ditto. Light winds, and thick foggy weather.
	20	09	37	195	I			41	29,90	Easterly. Moderate wind, and foggy.
	- 1		DE.	193	-			44	29,70	Easterly. Moderate wind, and foggy weather.
	22	69	27	188	35			48	29,46	Eafterly. Fresh gales, with rain.
	23	69	3	187	29			37	29,40	Eafterly. Moderate wind, and foggy weather.
	-	68		188				37	29,12	Variable. Moderate wind, and foggy fome rain.
	25	68	38	190	2	21	48	351	29,97	S. Westerly. Moderate wind, and foggy.
PAIR	26	67	59	188			700		29,78	Southerly. Fresh gales, and cloudy wea- ther.

T A B L E XVII. Continued.

Route of the Resolution and Discovery from the Bay of St. Peter and Paul toward the North, and back to that Place.

Time			itude orth.	Long Ea		Var E	iation laft.	Therm.	Barom.	Winds, Weather, and Remarks.
1779.	2 (2)		,	0	,	٥	,	0	Inches.	
July	27	67	47	188	27			37	29,80	Variable. Light winds, and foggy, with
	28	67	9	189	46			43	29,86	Southerly. Moderate wind, and hazy.
	29	66	50	190	52			42	29,80	S. Eafterly. Moderate wind, and fai weather.
	30	66	20	191	20			42	29,60	Variable. Little wind, and thick fog.
	31	65	5	189	20	2,2	521	42	29,82	Northerly. Moderate wind, and foggy fome rain.
Aug.		61	0 + 1	189	15	10	47	10	29,79	Variable. Light winds, and foggy wea
mug.	- 11	18.		189				123	29,73	ther.   Southerly. Moderate wind, and foggy
	-	1		189		-	30		29,61	Easterly. Little wind, and hazy wea
	-	100	CPO	188						Southerly. Light winds, and foggy.
				186					29,46	Northerly. Fresh gales, and nazy, with
				184					29,75	Yesterly. Fresh gales, and hazy: som
	7	50	25	183	20	18	25	44	30,14	Ditto. Moderate wind, and hazy: fom
	121			180			-5		29,50	(
	9	58	49	177	4			48	28,95	Southerly. Fresh gales, and foggy: with
		8	200	174	6	4				Variable. Moderate wind; fome rain.
		1		172		II	34	1	29,15	(Westerly, Moderate wind, and nazy
			97.>					1	29,40	Ditto. Moderate wind, and cloudy wea
	13	55	23	170	50			50	29,77	Ditto. Moderate wind, and fair wea
	14	54	50	171	26			48	29,93	S. Westerly. Moderate wind, and hazy fome rain.
				171				48 51	29,96	Westerly. Moderate wind, and cloudy. Ditto. Light winds, and hazy weather.

#### TABLE XVII. Continued.

Route of the Resolution and Discovery from the Bay of St. Peter and Paul toward the North, and back to that Place.

Time.			itude orth.	Long Ea	itude ift.		iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1779.		0	,	0	, -	0	,	0	Inches.	
Aug. 1	7 5	53	48	168	19	9	55	50	30,02	N. Westerly. Moderate, and fair weather.
1	8 5	52	38	167	50			52	30,05	Westerly. Moderate wind, and fair weather.
1	95	52	38	165	21			49 1	29,66	Southerly. Fresh gales, and cloudy, with rain.
2	0 5	53	7.	162	40			52	30,03	Variable. Fresh gales, and cloudy weather.
2	1 5	53	45	161	38			57	29,90	S. W. Moderate wind, and hazy weather.
2	2 5	53	8	160	36	6	18	57	29,97	{ Variable. Light winds, and cloudy; fome rain.
2	3 5	52	46	160	10	6	12	56	29,92	Westerly. Light winds, and cloudy.
2	45	52	52	158	431	6	201	57	30,13	weather. In the bay of St. Peter and Paul.

#### TABLE XVIII.

Route of the Resolution and Discovery from the Bay of St. Peter and Paul to Macao in China.

Time	e.		titude orth.	Long E:	gitude		iation aft.	Therm.	Barom.	Winds, Weather, and Remarks.
1779. Oct.	1779. Oct. 10									N.W. b. N. Light winds, and fine weather
	11	52	5	158	30	6	3	47	29,93	Variable. Moderate wind, and cloudy.
	12	51	0	157	22	5	17	46	29,86	Northerly. Moderate wind, and cloudy; fome rain.
		-	44.7	156		4	49	42	29,55	Variable. Moderate wind, and fine wea- ther.
	14	48	17	155	30	1.5%		43	29,80	Westerly. Moderate wind, and fine wea- ther.
	15	46	31	155	20	5	14	44	30,09	Ditto. Moderate wind, and some showers.

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TABLE XVIII. Continued.

Route of the Resolution and Discovery from the Bay of St. Peter and Paul to Macao in China.

Time			itude orth.	Long Ea	itude ft.	Vari E	ation.	Therm.	Barom.	Winds, Weather, and Remarks.
1779.		0	,	0	,	0	,	0	Inches.	Westerly. Moderate wind, and fine wea-
oa.	16	45	27	155	23	4	39	47	30,15	ther.
	17	45	7	153	47	4	54	48	30,14	
	18	44	28	152	46			50	30,20	Westerly. Moderate wind, and cloudy with showers.
	19	44	15	150	36			50	29,50	Southerly. Strong gales, and cloudy fome rain.
	20	43	47	150	24			49	29,37	Ditto. Moderate wind, and thick haz
		- 1500	40					45	29,92	Variable. Strong gales, with rain.
	22	40	59	148	0	2	27	44	30,15	N. Westerly. Fresh gales, and fair wea
	23	40	35		39	0	49		30,36	Variable. Light winds, and cloudy. S. Westerly. Fresh gales, with rain.
			25	144	2			53	30,00	Variable. Fresh gales, and hazy; som
	26	40	5	142	25	0	15	62	30,02	Variable. Moderate wind, and fair weather. Saw the coast of Japan.
are region	27	39	161	143	2	1	13	ó2	30,15	J. I
	28	38	15	142	6	1	17	62	30,14	
	29	37	45	141	50				30,11	Southerly. Fresh gales, and hazy; for rain.
	30	36	41	142	3	I	20	60	29,93	Variable. Brifk wind, and hazy weather
	31	35	33	142	3	115		63	30,10	Ditto. Moderate wind, and fair wea
Nov.	1	35	17	141	29	I	41	69	30,35	Ditto. Moderate wind, and fine weather
	2	35	43	141	15			71	30,29	S. S. E. Fresh breezes, and fair weathe S. b. E. Fresh breezes, and cloudy, wit rain.
	3	36	29	144	48			73	30,02	Train.
1075	4	35	481	146	33	3	14	75	29,85	S. S. W. Moderate wind, with for lightning and rain.
	5	35	15	147	18	2	58	70	29,86	Variable. Light winds, with rain.

#### TABLE XVIII. Continued.

Route of the Resolution and Discovery from the Bay of St. Peter and Paul, to Macao in China.

Tim	e.		atitude lorth.	Lon	gitude	: 1	ariation East,	Therm.	Barom.	Winds, Weather, and Remarks.
1779		0	,	0	,		,	0	Inches.	Variable. Moderate wind, and fom
Nov.	6	35	I	147	28	3	59	70	30,18	fhowers.
	7	33				1		71	30,19	Ditto. Fresh breezes, and fair weather
				148		1			30,14	
	9	31	46	146	15	1		681	29,78	Northerly. Light winds, with rain.
	10	30	42	145	20			69	29,68	Ditto. Fresh gales, and thick rainy wea
	11	29	7	144	20			701	29,80	c ther.
	12	27	36	144	26			70	29,40	N. N. E. Strong gales, and thick rain weather.
	13	25	59	143	27	3	49	72	29,81	N. W. Strong wind, and foggy, with
	14	24	361	142	9	2	49	74	30,05	Northerly. Moderate wind, and fir weather.
	15	24	49	141	15	2	57	79	30,18	Ditto. Moderate wind, and fine weather.
	16	25	7	139	2	I	491	811	30,15	Easterly. Moderate wind, and fine weather.
	17	24	45	1 37	56	2	15	76	30,18	Variable. Moderate wind, and fine weather.
	18	23	45	135	36			75	30,31	Northerly. Fresh gales, and cloudy. N. E. b. N. Fresh gales, and cloudy
	19	22	47	133	22	ľ		77	30,34	with showers.
	20	22	5	131	15	I	01	77	30,24	1
				129		0			30,16	E.N.E. Moderate wind, with showers
	1000			126		-			30,10	N. E. Fresh gales, with rain.
	23	21		123			-	75	30,04	N. E. Strong gales, and rainy wear
	21	21	29	122	24			71	20.01	N. E. Fresh gales, and much rain.
	26	21	12	120	12	0	oEE.	72	20.01	N. N. E. Fresh gales, and cloudy; some
			5			The second		70½	30,08	Northerly. Fresh gales, and hazy; some

T A B L E XVIII. Continued.

Route of the Resolution and Discovery from the Bay of St. Peter and Paul, to Macao in China.

Time		Lat N	itude orth.	Long E	gitude aft.	Van E	riation Eaft.	Therm.	Barom.	Winds, Weather, and Remarks.
1779. Nov.			42		42	0	1	。 71½	Inches. 30,14	N. N. E. Fresh gales, and cloudy; some rain.
			1000	115				71 60	30,15	N. E. Fresh gales, and cloudy. N. E. Fresh breezes, and cloudy; some rain.
Dec.	1			mi		ais	nt.	67	30,27	N. b. E. Fresh breezes, and cloudy; fome rain.
	2	22	8	113	43	0 3	32W.	66	30,30	Variable. Fresh breezes, and cloudy.  At anchor at Macao.

TABLE XIX.

Route of the Resolution and Discovery from Macao in China to the Cape of Good Hope.

Time.	Latitu Nort		Long Ea		Variation Weft.	Therm.	Barom.	Winds, Weather, and Remarks.
1780. Jan. 13	0	,	0	- /	0 /	۰	Inches.	The Typa distant three miles. The Grand Ladrone E. distant five or fix miles.
14	20 3	4	113	53		68	30,26	N. Easterly. Moderate wind, and fair weather.
15	18 5	7	114	3	Marie L	72	30,23	E. N. E. Moderate wind, and fair weather.
16	16 3	9	114	5	0 39	1691	30,15	N. Easterly. Brisk wind, with some
17	14 3	9	113	1.3	I 24	73	30,17	Ditto. Fresh gales, and cloudy; some
18	12 3	2	112	0		75	30,10	N. E. b. N. Fresh gales, and cloudy; fome rain.
- 19	10 2	2	109	43	la de	73	30,25	N. N. E. Fresh gales, and squally weather.
20	8 4	.6	106	45		73	30,26	N. E. Fresh gales, and fair weather.

#### T A B L E XIX. Continued.

Route of the Resolution and Discovery from Macao in China to the Cape of Good Hope.

Time		Latitude North.			Longitude East.		Variation West.	Therm.	Barom.	Winds, Weather, and Remarks.	
1780.		0	,		۰	,	0 /	0	Inches.	N. b. W. Fresh breezes, and hazy wea-	
Jan.	21	8	39		106	30		100000	30,19	ther. From this day to the 28th, a	
n inc	29	6	5.3	-	105	35		79	30,10	N. E. b. E. Fresh breezes, and fai weather.	
	30	5	ż		104	45	de ulv	78	30,10	Weather.  N.E. Moderate wind, and cloudy weather.  ther.	
	31	3	18	1	104	29	0 30	78	30,07	N. E. b. N. Moderate breezes, and fin weather.	
Feb.	1	I	21		105	15	o 26‡E		-	ther.	
	2	0	25	S.	105	15	e albe	80	30,09	North. Light winds, and clear.	
-1017	3	1	48	i	105	3	deriv	81	30,07	North. Light winds, and clear. S. N. N. E. Light winds, and clear. Light ning, S. W.	
-0	4	2	22	d	105	38	Medic	813	20.00	N. Easterly. Light breezes, and fair	
	5	3	9		106	12	S M III	83	30,00	Northerly. Light breezes, and fair were ther.	
- House	6	4	33		106	15		81	30,00	ther. Northerly. Light breezes, and fair west ther.	
	7	5	21		106	0		814	29,97		
	8	5	38		105	45	AV A	78	29,90	Ditto. Light winds; thunder, light ning, and rain. From this time to the 18th, at Prince's Island, in the Strait of Sunda.	
	19	7	32		105	10		804	29,96	W. N. W. Light airs, and cloudy.	
	20	8	30		105	4	Maria	82	29,93	N. Westerly. Moderate wind, an cloudy; some rain.	
	21	9	23		104	48	The said	821	29,90	Westerly. Light airs, and hazy.	
	22	10	31		104	24	W. S. F.	821	29,89	W. N. W. Moderate wind, and cloud with showers.	
	23	II	47		103	46			29,90	Northerly. Moderate wind, and cloudy with rain.	
	24	13	5		103	10	A LANG	82	29,86	Variable. Fresh gales, with rain.	

T A B L E XIX. Continued.

Route of the Resolution and Discovery from Macao in China to the Cape of Good Hope.

20000					1		
Time.	Latitude South.		gitude aft.	Variation West.	Therm.	Barom.	Winds, Weather, and Remarks.
1780.	0 /	0	,	0 /	0	Inches.	tally a v a long
Feb. 25	13 24	101	31	4373	79	30,07	Variable. Fresh gales, with much rain
26	13 35	100	0	9 9 7	78	30,01	Southerly. Moderate wind, and cloudy weather.
27	13 57	99	20	Tensi Novice	81	29,98	S. Easterly. Light airs, and pleasant weather.
28	14 56	97	43	1.8	79	30,15	Ditto. Moderate wind, and cloudy, with showers.
	15,53	13.00	50	2 47	79	30,12	S. S. E. Moderate wind, and cloudy, with showers.
March 1	16 52	92	II	THE PERSON NAMED IN	79	30,10	S. E. A fresh gale, and clear weather.
2	17 12	89	35		78	30,19	S. E. b. E. A fresh gale, and fair wea- ther.
3	17 59	87	33	Ways.	79	30,21	Easterly. Moderate wind, and fine wea-
4	18 25	84	24	3 11	784	30,16	S. E. Moderate wind; fome rain.
5	19 2	83	12	Y ab	78	30,17	S. Easterly. Fresh gale, and fair wea-
6	19 14	81	11	I wis	79	30,15	E. S. E. Moderate wind, and mostly rainy.
7	19 40	78	49	Light	781	30,15	E.S.E. Fresh breezes, and cloudy; some
8	20 I	76	58	dell	84	30,14	East. Moderate wind, and fair weather.
	20 23	75	10	- hee,	81	30,13	E. S. E. Moderate wind; fome rain.
10	20 39	73	20	11 16 ,	81	30,19	
II	20 49	71	47		82	30,18	S. E. b. E. Fresh breezes, with rain.
12	21 6	69	22	8 57	81	30,17	E. S. E. Fresh breezes, and fine wea-
13	21 28	67	2	WD VID	801	30,14	E. S. E. Moderate breezes, and fine weather.
14	22 2	64	58	10	804	30,21	S. E. Brifk wind, with fome rain.
15	22 37		56	3000		30,21	S. E. Moderate wind, and fair weather.
16	23 13	61		dwho	80		E. S. E. Moderate wind, and fair weather.
17	24 14	59	53	3 4	81	30,22	S.E.b.E. Moderate wind, and cloudy; fome rain.

#### T A B L E XIX. Continued,

Route of the Resolution and Discovery from Macao in China to the Cape of Good Hope.

Time.		Latitude South.		Long Ea	Longitude East.		iation eft.	Therm.	Barom.	Winds, Weather, and Remarks.
1780.		0	,	0	٠,	0	,	0	Inches.	
March	18	25	9	58	50	19	0	79	30,29	S. E. b. E. Moderate wind, and hazy
		26	7	56				77	20.25	S. E. b. S. Freih breezes, and cloudy
	20	26	36	54	48			77	30,22	S. E. Moderate wind, and cloudy. E. S. E. Moderate wind, and fair wea
· Pare	21	27	19	52	35	M		771	30,30	ther.
	22	28	6	49	47			75	30,27	S. b. E. Fresh gales, and cloudy.
	23	28	261	46	30			76	30,19	S. E. Fresh gales, and cloudy; rain a
	24	29	6	43	40			76		S. E. b. E. Strong wind, with rain a
	25	29	39	41	0	21	27	76	30,25	S. E. Moderate wind, and fine weather
	26	30	26	38	47			75	30,19	S. Eafterly. Moderate breezes; for rain.
	27	31	3	37	20			77	30,09	C there
	28	31	42	35	19			78		L lighthing, and land
	29	31	24	34	20	W		76	30,21	Ditto. Light winds; fome rain.
	30	31	6	33	30	1		73	130,23	S. Westerly. Moderate wind, and cle- weather.
	31	31	20	32	10	26	31	74		Southerly. Light winds, and fair weather.  ther.
April	I	32	II	30	37			76	30,27	Easterly. Light winds, and hazy.
			24	28	57			78	T112 12 13 13 13 13 13 13 13 13 13 13 13 13 13	Carela Madameta mind and alouder
		-	24	THE REAL PROPERTY.	12			76	30,08	East. Moderate wind, and fine were ther.
	4	35	23	24	4			76	30,14	{Variable. Light winds, and hazy; for rain.
	5	36	13	22	17			73	30,24	
	6	35	49	21	41	1		74	30,26	Southerly. Light airs, and clear wea
	7	35	14	20	37			70	29,98	S. W. Light winds, and hazy.
	8	34	57	20	21	1		67	30,00	Westerly. Moderate wind, and hazy rain at times.

#### TABLE XIX. Continued.

Route of the Resolution and Discovery from Macao in China to the Cape of Good Hope.

Time.	Latitude South.			Longitude Eaft.		Variation West.		Barom.	Winds, Weather, and Remarks.
1780.	0	,		,	0	,	0	Inches.	and and analysis
April 9	35	7	19	50			67	30,05	Southerly. Moderate wind, and cloudy; fome rain.
10	34	31	18	40	300		69	30,06	Variable. Fresh gales, and squally; some
11	34	36	18	20	of the		67	30,25	Westerly. Moderate wind, and cloudy.  At noon, the Cape of Good Hope  N. b. W. and the Table Mountain  N. b. E. ½ E.

# A comparative TABLE of NUMERALS, exhibiting the A [N. B. The Malaye being considered as the root, three specimens of its Numerals stand separate, a Madagascar, the most Western boundary, Eastward to Ea

Six, - Ka Onoo Honnoo Houw Houno Vano - Seven, - Ka Wheetoo - Widdoo Fitou Fidda - Eight, - Ka Warroo Warroo						
					M. D. L. S. L.	
Four,   Enpat   Five,   Lyma   Siv.   Nam   Seven,   Toulograph   Sambalan   Ten,   Sapola   Herbert,   Sapola   Herbert,   Tou   Tou   Tou   Six,   Acten, in Su   Tra.   Time, or Leman   Deceme   Fruto   Limi   Lemung   Lemung   Siv.   Deceme   Deceme   Deceme   Siv.   Deceme						
Four,   Enpat   Five,   Lyma   Siv.   Nam   Seven,   Toulograph   Sambalan   Ten,   Sapola   Herbert,   Sapola   Herbert,   Tou   Tou   Tou   Six,   Acten, in Su   Tra.   Time, or Leman   Deceme   Fruto   Limi   Lemung   Lemung   Siv.   Deceme   Deceme   Deceme   Siv.   Deceme					Three, -	Tiga
Five   Lyma   Six   Nam   Seven   Toufou   Eight   De-lappan   Nine   Sambalan   Nine   Sambalan   Nine   Sambalan   Nine   Sapola   Herbert   Nadagofar   Madagofar   Madag						Enpat -
Six,		and the last of th		The same of the		Lyma
Sevien, - Toufou   Eight, - De-lappan   Nine, - Sambalan   Ten, - Sapola   Herbert,   Herbe						
I.   II.   III.   IV.   Acheen, in Surface, Sapola   Herbert,   II.   III.   IV.   Acheen, in Surface, Sapola   Herbert,   III.   IV.   Acheen, in Surface, Sapola   Herbert,   III.   IV.   Acheen, in Surface, Sapola   Italian					and the second s	and the Control of th
I.   II.   III.   IV.   Acbeen, in Surprise   Sambalan   Ten, - Sambalan   Herbert,   Sambalan   Herbert,   Sambalan   Herbert,   Sambalan   Herbert,   Sambalan   Herbert,   Sambalan   Herbert,   Sambalan   Sapola   Herbert,   Sambalan   Herbert,   Sambalan   Sapola   Herbert,   Sambalan   Sapola   Herbert,   Sambalan   Sapola   Sap						
I.   II.   III.   IV.   V.   V.   V.						Cambalan
I.   II.   III.   IV.     V.     Abbeen, in Su tra.						DESCRIPTION OF THE PROPERTY OF
I.   II.   III.   IIV.   Madagofcar.   Machagofcar.   M					1en, -	
Madagafear.  Dua - Tellou - Tilou - Toloo - Marfan, p. 1m. Marfan, p.	-					Herbert,
Madagafear.  Dua - Tellou - Tilou - Toloo - Marfan, p. 1m. Marfan, p.		I.	II,	III.	IV.	. V.
Tra.		Madagascar.				
Tuos	•			The state of the s		tra.
To   Tello						
Four,   Efax, or Efar   Effutchi   Effad   Effad   Lieming   Lie						
Five,   Lime, or Leman   Deeme   Fruto   Limi   Leemung						
Six	Five,					
Eight,		- One, or Aine -		Woubla	Ene	
Nine,   Seeva   Seeva   Seeva   Seeva   Nel   Tourou   Sakoorang   Saploo   Parkinfon, p. 205.   Drury, p. 457.   Herbert, p. 22.   Sir jefopb Banks, in Hawkeftworth, Vol. iii. p. 777.   XVII.   XVIII.   Xviii. p. 777.   XVIII.   Xviii. p. 777.   XVIII.   Xviii. p. 777.   Xviii. p. 778.   Xviii. p. 789.   Xviii.   Xviii. p. 789.   Xviii. p.						Too-joo -
Foro, and Fooloo   Parkinfon, p. 205.   Folor   Parkinfon, p. 205.   Polory, p. 457.   Polory, p. 45				M-1-		D'Lappan
Parkinfon, p. 205.   Drusy, p. 457.   Herbert, p. 22.   Sir Jefeph Banks, in Hawkefworth, Vol. iii. p. 777.						
XIV.   XV.   Jfland of Savu.   Jfland of Savu.   Jfle of Ceram.   Jfle of Mofes. 1616.   New Guine. Anno 1616	,	Parkinfon, p. 205.			Sir Felenh Ranke	
XIV.   XV.   XVI.   XVII.   XVIII.   XXIII.		J, p. 203.	), F. 45/.	221701715 pr 221	in Hawkelworth.	Iviarjaen, p. 1
XIV.   Jfle of Savu.   Jfle of Savu.   Jfle of Ceram.   Jfle of Mefes. 1616.   New Guinte.   Minto 1616					Vol. iii. p. 777.	
Ifle of Savue		XIV.		XVI.		XVIII.
One,		Ide of Same		In of Ceram		
Two,	0	South Cold Library		250	22.70.0	Anno 1616
Three, - Tulloa - Tullu - O Toloo - Tolou - Tola - Four, - Uppa - Uppa - O Patoo - Wati - Fatta - Fatta - Lumnee - Lumme - O Leema - Rima - Lima, or Lima Six, - Unna - Unna - O Loma - Eno - Wamma - Seven, - Petoo - Pedu - O Peeto - Lvijtfou - Fita - Eight, - Aroo - Arru - O Aloo - Eialou - Wala - Siwa - Siwa - Siou - O Teeo - Siwa - Siwa - Siwa - Singooroo - O Pooloo - Sanga Poulo - Sanga Foula Parkinfon, p. 170.  Ten, - Singooroo - Singooroo - O Pooloo - Sanga Poulo - Sanga Foula Parkinfon, p. 170.  XXVII. XXVIII. XXIX. Herrea, from Le Maire, p. 82.  XXVIII. XXVIII. XXIX. XXX. XXXII.  New Zealand. New Zealand. Horn Iflands. 1616.  Tawo, - Ka Rooa - Rooa - Loua, or Loa - Loua - Looa - Tolou - Toloo - Toloo - Tolou - Toloo - Toloo - Toloo - Tolou - Toloo -					D	
Four, - Uppa Uppa Uppa O Patoo - Wati - Fatta - Free, - Lumee - Lumme - O Leema - Rima - Lima, or Lims						
Five, - Lumee - Lumme - O Leema - Rima - Lima, or Lims Six, - Unna Unna - O Loma - Eno - Wamma - Seven, - Petoo - Pedu - O Peeto - Lvijtfou - Fita - Eight, - Aroo Arru - O Aloo - Eialou - Wala - Nine, - Saio Saou - O Teeo - Siwa - Siwa - Nine, - Saio Saou - O Pooloo - Sanga Poulo - Parkinfon, p. 170.  Licut. Cook, Hawkef. Vol. iii. p. 200.  Parkinfon, p. 200.  XXVII. XXVIII.  New Zealand.						
Six, - Unna Unna O Loma Eno Wamma - Seven, - Petoo Pedu O Peeto - Lvijtfou Fita - Eight, - Aroo Arru O Aloo - Eialou Wala - Nine, - Saio Saou O Teeo - Siwa - Siwa - Siwa - Sima - Singooroo - O Pooloo - Sanga Poulo - Sanga Foula - Parkinfon, p. 170.    Parkinfon, p. 170.	Five,	- Lumee		O Leema		
Eight, - Aroo Arru O Aloo - Eialou Wala - Nine, - Saio Saou O Teeo Siwa Siwa - Siwa - Siwa Singooroo - O Pooloo - Sanga Poulo - Sanga Foula Parkinfon, p. 170.  Lieut. Cook, Parkinfon, p. 200.  New Zealand.  New Zealand	Six,					
Nine, - Saio Saou O Teeo - Siwa - Siwa - Siwa - Singoroo - Singooroo - O Pooloo - Sanga Poulo - Sanga Foula Herrera, from Le Maire, p. 82.  XXVII. XXVIII. XXIX. Mew Zealand. New						
Ten, - Singooroo - Cook, Parkinfon, p. 170.  Singooroo - Cook, Hawkef. Vol. iii. p. 200.  New Zealand.  New Zealan	Nine	0.	•			
Parkinson, p. 170.  Lieut. Cook, Hawkef. Vol. iii. p. 703.  XXVII.  New Zealand.  New	Ten.		0.1			
Hawkef. Vol. iii. p. 200. Maire, p. 82. Maire, p. 8  New Zealand. New Zealand. Horn Iflands.  New Zealand. New Zealand. Horn Iflands.  1616. Anno 1616.  Taci - A Tahaw  Two, - Ka Tahe Toroa - Loua, or Loa - Loua - Looa - Three, - Ka Tarroa Toroa - Tolou - Tolou - Toloo -  Fow, - Ka Wha T'Fa - Fa, and D'Fa - Fa - T'Fa -  Five, - Ka Reema - Reema - Lima - Lima - Neema -  Nix, - Ka Onoo - Honnoo - Houw - Houno - Vano -  Seven, - Ka Wheetoo - Widdoo Fitou - Fidda -  Eight, - Ka Warroo - Warroo Warroo Waroo -  Nine, - Ka Eeva - Heeva Ywou - Heeva -  Ven, - Kaca Haowroo - Anga Horro - Onge Foula - Onge Foula - Ongofooroo  Parkinfon, p. 128. Forfler, p. 284. Herrera, from Le Herrera, from Le Forfler's Obj	,	Parkinfon, p. 170.				
XXVII. XXVIII. XXIX. XXX. XXXI.  New Zealand. New Zealand. Horn Iflands. Ifle of Cocros.  1616. Anno 1616. Friendly Iflance  One, - Ka Tahe Tahai Tacij, or Taci - Taci A Tahaw  Two, - Ka Rooa Rooa Loua, or Loa - Loua Looa -  Three, - Ka Tarroa Toroa Tolou Tolou Toloo -  Four, - Ka Wha T'Fa Fa, and D'Fa - Fa T'Fa -  Five, - Ka Reema Reema - Lima - Lima - Neema -  Six, - Ka Onoo - Honnoo - Houw Houno - Vano -  Seven, - Ka Wheetoo - Widdoo Fitou - Fidda -  Eight, - Ka Warroo - Warroo Warroo Walou - Varoo -  Nine, - Ka Eeva - Heeva Ywou - Heeva -  Ven, - Kaca Haowroo - Anga Horro - Onge Foula - Onge Foula - Ongofooroo  Parkinfon, p. 128. Forfler, p. 284. Herrera, from Le Herrera, from Le Forfler's Obj						
New Zealand.  Ne			p. 703.			2.24
New Zealand.  Ne		XXVII.	XXVIII.	XXIX.	XXX.	XXXI
One, - Ka Tahe Tahai Tacij, or Taci - Taci A Tahaw Two, - Ka Rooa Rooa Loua, or Loa - Loua Looa - Three, - Ka Tarroa Toroa Tolou Tolou Toloo - Four, - Ka Wha T'Fa Fa, and D'Fa - Fa T'Fa - Frue, - Ka Reema Reema - Lima - Lima - Neema - Six, - Ka Onoo Honnoo - Houw - Houno - Vano - Seven, - Ka Warroo - Warroo Warroo Waroo - Eight, - Ka Warroo Warroo Waroo - Vine, - Ka Eeva Heeva Ywou - Heeva -  Ven, - Kaca Haowroo - Anga Horro - Onge Foula - Onge Foula - Ongofooroo  Parkinfon, p. 128. Forfler, p. 284. Herrera, from Le Herrera, from Le Forfler's Obj		Non Zealand				
Two, - Ka Rooa Rooa Loua, or Loa - Loua Looa - Three, - Ka Tarroa Toroa Tolou Tolou Toloo - Four, - Ka Wha T'Fa Fa, and D'Fa - Fa T'Fa - Frve, - Ka Reema Reema - Lima - Lima - Neema - Six, - Ka Onoo Honnoo - Houw Houno - Vano - Seven, - Ka Wheetoo - Widdoo Fitou - Fidda - Eight, - Ka Warroo - Warroo Waroo - Vine, - Ka Eeva Heeva Ywou - Heeva - Ven, - Kaca Haowroo - Anga Horro - Onge Foula - Onge Foula - Ongofooroo  Parkinfon, p. 128. Forfler, p. 284. Herrera, from Le Herrera, from Le Forfler's Obj	^					and the same of th
Three, - Ka Tarroa Toroa Tolou Tolou Toloo - Four, - Ka Wha T'Fa Fa, and D'Fa - Fa T'Fa - Five, - Ka Reema Reema - Lima - Lima - Neema - Neema - Lima Lima - Neema - Neeven, - Ka Onoo Honnoo - Houw Houno Vano - Fitou - Fidda - Fitou - Fidda - Warroo Warroo Warroo Warroo Warroo Warroo Warroo Warroo Ywou - Heeva - Nine, - Ka Eeva Heeva Onge Foula - Onge Foula - Ongofooroo Parkinfon, p. 128. Forfler, p. 284. Herrera, from Le Herrera, from Le Forfler's Obj	Une,		**			
Four, - Ka Wha T'Fa Fa, and D'Fa - Fa T'Fa - Five, - Ka Reema Reema - Lima - Lima - Neema - Six, - Ka Onoo Honnoo - Houw Houno - Vano - Fitou - Fidda - Fitou - Fidda - Fitou - Fidda - Warroo Warroo Warroo Warroo Warroo Warroo Warroo Ywou - Heeva - Ywou - Heeva Ywou - Heeva Ywou - Forfler's Obj			T			
Five, - Ka Reema Reema Lima Lima Neema - Six, - Ka Onoo Honnoo Houw Houno Vano - Fidda - Fidda - Fidda - Fidda Fidda - Walou Varoo				900		Market Control 11
Six, - Ka Onoo Honnoo Houw Houno Vano - Fitou Fidda - Fidda - Fidda - Warroo	-					
Seven, - Ka Wheetoo - Widdoo Fitou Fidda - Eight, - Ka Warroo Warroo Walou Varoo - Vine, - Ka Eeva Heeva Ywou Heeva - Ven, - Kaca Haowroo - Anga Horro - Onge Foula - Onge Foula - Ongofooroo  Parkinfon, p. 128. Forfler, p. 284. Herrera, from Le Herrera, from Le Forfler's Obj	Six,					
Eight, - Ka Warroo Warroo Walou Varoo			Widdoo			Fidda -
Ven, - Kaca Haowroo - Anga Horro - Onge Foula - Onge Foula - Ongofooroo  Parkinfon, p. 128. Forfler, p. 284. Herrera, from Le Herrera, from Le Forfler's Obj						Varoo -
Parkinfon, p. 128. Forfler, p. 284. Herrera, from Le Herrera, from Le Forfler's Obj		- Ka Leva	Heeva		Ywou	Heeva -
	Ten,	- Kaca Haowroo -	Anga Horro -	Onge Foula -	Onge Foula -	Ongofooroo
		Parkinfan p 128	Forday n al	LI.m. C. T.	77	P 4 1 01
		1 arkingsing p. 120.	101,11er, p. 204.			Forfter's Obj

## APPENDIX, Nº III.

# VOCABULARY of the LANGUAGE of the FRIENDLY ISLANDS, May, &c. 1777.

	Friendly Isles.	English.	Friendly Isles.	English.
	Ve faine,	A woman.	Fooroo, or fooloo,	Hair.
	Maiee,	Bread-fruit.	Fooee vy,	The leg.
	Fukkatou,	Barter.	Tooa vy,	Upper part of the foot.
۱	Woa,	Admiration.	Fooloo, fooloo, matta,	
	My, fogge,	Good.	Emamae,	Pointed plantains.
	Attahoa,	A bead; a necklace.	Evatta vatta,	The breaft.
	Koehaa, or Kohaeea?	What is that? or what	Eboore,	Ditto.
		is the name of it?	Etooa,	The back.
	Magoo,	Give me.	Erongootoo,	The lips.
	Le laiee,	Good.	Elelo,	The tongue.
	Hou,	Come bere.	Edainga,	The thigh.
	Moree,	A shaddock.	Eraimoo,	The hips.
	Omee,	Give me.	Evae, veene,	The arm-pit.
	Hobba,	A fort of plantain.	Too,	The finger.
	Koajee, or Kaoojee,	Done; finished.	Vakka, vakka,	The fide.
	Koeea,	Yes; it is fo.	Hekaite,	The belly.
	Amou,	Got; to hold fast.	Tareenga,	The ear.
	Horo, horo,	Abandkerchief, or wiper.	Horo,	To wipe.
	Ongofooroo,	Ten.	Kouta,	Beating with two sticks.
	Gehai, or geefai,	There; and that.	Fangoo, fangoo,	A flute.
	Kato,	A basket.	Motoo,	To break.
	Egeeai,	A mat they wear round	Koooma,	Burnt circular marks.
		them.	Taffa,	Raised marks burnt.
	Vol. III.	June of his	3 Z	Kowy

## A P P E N D I X, N° II.

A comparative TABLE of NUMERALS, exhibiting the Affinity and Extent of Language, which is found to prevail in all the Islands of the Eastern Sea, and derived from that spoken on the Continent of Asia, in the Country of the Malayes.

[N. B. The Malaye being confidered as the root, three specimens of its Numerals stand separate, at the top of the Table. The derivative branches are ranged and numbered, according to the longitudinal situation of the several places, proceeding from Madagascar, the most Western boundary, Eastward to Easter Island. In the Instances marked with a Star, liberty has been taken to separate the Article from the Numeral.]

					Malay.	Ma	lay at Sumatra	. Malay	y.				
					Satu -	Sato		- Sa					
				T700, -	1041040	- Duc		- Dua					
				Three, -		- Tee		- Teega					
				Four, -				- Ampat					
					Lyma - Nam -	- Lee		- Leema	7 4				
				Seven, -	AND THE RESERVE OF THE PARTY OF	Ana		- Nam, and	Anam				
					De-lappan		pan -	<ul><li>Toojoo</li><li>Delapan</li></ul>					
					Sambalan	Sam	ibilan -	- Sambelan					
			2	Ten, -	1102 m 1 m 1 m		ooloo -	- Sapooloo					
					Herbert, p.		Tarsden, p. 168.		bservations, p.	284.			
	T T	II.	III.	iv.	Garage Maria				· · · · · · · · · · · · · · · · · · ·		200		
	Madagascar.	Madagafcar.		Madagascar.	Acheen, in Suma-	VI. Lampoon, in Su-	VII.	VIII. Rejang, in Suma-	IX.	X.	XI.	XII.	XIII.
0	72.24	1/2/2	Madagascar.	222	tra.	matra.	Dana, in Samura.	tra.	I rinces Ijuma.	Java.	Tagales of Leuco- nia, or Manilla.	Philippine.	Mindanao.
Two,		Efer Rooa	Iffo	Wh. 4	Sah, Dua	D I	Sadah Duo		Hegie Dua		Yfa	Ifa, Metong -	Ifa
Three,	- Tulloo, or Tailloo -	Talu	Tello	Tellou	Tloo	Tulloo	Toloo	Tellou	Tollu	Lorou Tullu	Dalava, or Dalova Tatl, or Ytlo -	Ad-dua At-lo	Daua Tulu
	- Efax, or Efar - - Lime, or Leman -			Effats Limi	Paat Leemung		Opat Leemah		Opat	Pappat	Apat	Apat	Apat
Six,	- One, or Aine -	Eanning	Woubla	Ene	Nam	Annam	Onam		Limah Gunnap	• •	Lima	Lima	Lima
	- Heitoo, or Petoo -			Titou Walou	Too-joo D'Lappan -		Paitoo	Toojooa	Tudju	Petu	Pito	Pitu	Anom Petoo
	- Seeva		Malo	Sivi	Sakoorang	Seewah	Ooalloa Seeah		Delapan Salapan	Wolo Songo	Valo Siyam	Valo	Walu
Ten,	- Foroo, and Fooloo	Folo	Nel	Tourou	Saploo	Pooloo	Sapooloo	De Pooloo -	Sapoulo	Sapoulo	Polo and Pobo -	Siam Apalo	Seaow Sanpoolu
	Parkinfon, p. 205.	Drury, p. 457.	Herbert, p. 22.	in Hawkefworth,	Warjaen, p. 108.	Marjaen, p. 108.	Marsden, p. 168.	Marsden, p. 168	Sir Joseph Banks, in Hawkefworth,	Sir Joseph Banks,	Forster's Observa-	Forster's Observa-	Forest's Voyage,
				Vol. iii. p. 777.					Vol. iii. p. 777.	in Hawkefworth, Vol. iii. p. 777.	tions, p. 284.	tions, p. 284.	P· 399·
	XIV.	XV.	XVI.	XVII.	XVIII.	XIX.	XX.	XXI.	XXII.	XXIII.	XXIV.	XXV.	XXVI.
	Ifle of Savu.	Island of Savu or Savoo.	Ifle of Geram.	Isle of Moses. 1616.	New Guinea. Anno 1616.	Pappua of New Guinea.	Tierra del Espiritu Santo.	New Caledonia.	New Caledonia.	Malicolo.	Tanna.	Tanna.	New Zealand.
	- Iffe, or Uffe	Uffe	O Eeuta	Kaou	Tika	Ofer		*Wag Eeaing -			*Ret Tee		
	- Rooe	Lhua Tullu	O Looa	Roa Tolou	Roa Tola	Serou Kior	far far	Wa Roo	Par Roo	E-Ry	Car Roo	Ka Roo	Tahai Rua
	- Uppa	Uppa	O Patoo	Wati	Fatta	Tiak	nan as te as		Par Ghen - Par Bai	E-Rei E-Bats	Ka Har Ka Fa	Ka Har	Torou
Five,	- Lumee	Lumme Unna	O Leema	Rima Eno		Rim	ned five		T3 5.71	T3 T3	Ka Rirrom	Kai Phar K' Reerum -	Ha Rema
	- Petoo	Pedu		Lvijtfou	Wamma Fita	Onim Tik	or Par				,		Ono -
	- Aroo	Arru	O Aloo	Eialou	Wala	War	nera fix,						Etu Warou
Ten,	- Saio - Singooroo	Saou	O Teeo O Pooloo	Siwa Sanga Poulo -	Sanga Foula		O_ ts						Iva
	Parkinfon, p. 170.	Lieut. Cook,	Parkinfon,	Herrera, from Le	Herrera, from Le	Forest's Voyage,	Cook, Vol. ii.	Cook, Vol. ii.	Forfter, p. 284.	Cook, Vol. ii.	Forfler, p. 284.	Cook, Vol. ii.	Anga Hourou
		Hawkef. Vol. iii. p. 703.	p. 200.	Maire, p. 82.	Maire, p. 81.	p. 402.	p. 91.	p. 364.		p. 364.	- vy, p. 204.	p. 364.	Lieut. Cook, 1770. Hawkef. Vol. iii.
	XXVII.	XXVIII.	XXIX.	XXX.	VVVI	VVVII	VVVIII			2 4111	11 6 15 7 7 7		P· 475.
	New Zealand.	New Zealand.	Horn Islands.	Ifle of Cocos.	XXXI.	XXXII.  Island of Amster-	XXXIII.	XXXIV.	XXXV.	XXXVI.	XXXVII.	XXXVIII.	XXXIX.
Ones	- Ka Tahe	Tahai	1616. Tacij, or Taci -	Anno 1616.	Friendly Islands.	dam.	Sandwich Islands.	Otaheite.	Otaheite.	Marquifas.	Marquifas.	Easter Island.	Easter Island.
	- Ka Rooa	Rooa	Loua, or Loa -	Taci Loua	A Tahaw - Looa	Tahae Eooa	井	Tohe *	*A Tahay E Rooa	*A Tahaee - A Ooa	Bo Dahai		Ko Tohai
	- Ka Tarroa - Ka Wha			Tolou	Toloo	Tooroa	heir heir	Torhoa	Toroo	A Toroa	Bo Hooa	Rooa Toroo	Rooa Toroo
		T'Fa Reema	Fa, and D'Fa - Lima	Lima	T'Fa Neema	A Faa Neema	A Para	Ha Il Lemi	A Haa	A Faa	Во На	Haa, and Faa -	Haa
Six,	- Ka Onoo	Honnoo		Houno	Vano		ner e a	Whaine	A Ono	A Aeema A Ono			Reema Hono
	- Ka Wheetoo	Widdoo Warroo	5 5	Fitou Walou	Fidda Varoo		S at	Hitoo	A Heitoo	A Wheetoo -	Bo Hiddoo -	Heedoo	Hiddoo
		Heeva			Heeva		at Ot		A Waroo - A Eeva		Bo Wahoo -	Varoo	Varoo
Ten,	- Kaca Haowroo -	Anga Horro -	Onge Foula -	-	Ongofooroo -		Ota- Ota-	Hoolhoa	A Hooroo - {	Whannahoo, and ?	Ro Nahoo	Heeva 7	Heeva
	Parkinfon, p. 128.		Herrera, from Le		Forster's Obser-	Cook, Vol. ii. p.	Anderson's Voca-	Parkinson, p. 64.	Cook, Vol. ii.	Whannahooe. S		Anna Hooroo	Ana Hooroo
			Maire, p. 81.	Maire, p. 81.	vat. p. 284.	364.	bulary, in this	- m.m.y.m, pr v41	p. 346.	p. 364.	Forster's Obser- vations, p. 284.	Cook, Vol. ii. p. 364.	Forster's Obser- vations, p. 284.
							Appendix					1. 3.4.	отполь, р. 204

53I

Friendly Isles.	English.	Friendly Isles.	English.
Kowy,	The cheeks.	Mapoo,	To whistle.
Koomoo koomoo,	The beard.	Aipa,	A fishing-book.
Peeto,	The navel.	Ainga,	A fort of paint.
Eoo,	The nipple.	Evaika,	A rail.
Etarre,	To cough.	Kooroo kooroo,	A green dove.
Hengatoo,	Cloth.	Ekoopamea, cheelee,	A net.
Efangoo	To sneeze.	Efooo,	A gimlet, or shark's
Eanoo,	To Spit.		tooth, used for that
Etoogee	To beat, or strike.		purpose.
Etooee,	The elbow.	Aiee,	A fan.
Efeelo,	Asmall rope, or thread.	Emaimeea, or mee-	
Haro, or halo,	Go; begone.	meea,	A reed, or small organ.
Egeea,	The throat.	Eneeoo,	A cocoa-nut.
Eky,	To eat, or chew.	Eoono,	Tortoise-shell.
Evagoo,	To scratch.	Enoo,	A belt.
Ma matta,	Let me look, or fee.	Afooneema,	The palm of the hand.
Egeea,	The neck.	Moemoeea,	A ceremony of putting
Enofoa, haioo,	A seat.		the foot of one on the
Etoo,	To rife up.		head, and turning the
Mamao,	To yawn.		band several times
Ehapee,	A box, or cheft.	The second	&cc.
Moe, or mohe,	Sleep.	Pooa, tareenga.	A fort of plantains.
Tangooroo,	To snore.	Kahoo hoonga,	An arrow, or reed.
Ekatta,	To laugh.	Atoe farre.	The roof of a house.
Akka,	To kick, or stamp.	Etovee,	A club.
Feedjee,	A fillup.	Emamma,	Aring.
Ekakava,	Sweat.	Eao,	A bat.
Eeoho,	To bollow, or cry.	Tehou,	A bundred.
Epooo,	A post, or staunchion.	Keeroo,	A thousand.
Etolle,	A batchet.	Laoo varee,	Ten thousand.
Maalava,	To breathe.	Laoo noa,	A bundred thousand, or
Haila,	To pant.	Consideration (1)	the greatest number
O000,	To bite.		they can reckon.
Taffa,	To cut.	Pooorce,	Night; darkness.
Moevae,	The heel.	Maheena,	A month.
Eeegoo	The tail of a dog.	Fukkatanne,	To fit crofs-legged. Kaffa,

Friendly Isles.	English.	1
Kaffa,	A rope, or cord of co-	To
The manager	coa-nut core.	Fee
Heegee,	To lift up.	Eal
Togoo,	To set down.	Eto
Fetooa, tagee,	To tie.	Epe
Vevaite,	To untie.	Efo
Tollo tolla,	Cocoa-nut skin.	Ma
Eooma,	The shoulder.	Ma
F000,	A nail (of iron),	Ko
Atoo,	To give.	Gee
Epallo,	Arat.	Ow
Elafo,	To throw away.	Ter
Haaile,	To go.	Kae
Haaile atoo,	To go away.	Kal
Haaile my,	To come.	Olo
Elooa,	To puke.	Tal
Matangee,	Wind.	
Mamma, or mamma,		Kak
reeva,	Light.	
Tahee,	The sea.	Nar
Paho paho,	To paddle.	Koe
Hakaoo, or toree,	Wood; a tree.	
Ehoreeoo,	To scoop water out of	11/4
	a boat.	30 10
Booloo booloo,	A fail.	Koa
Fanna, or fanna too-	harmele, all	Mo
-eeoroongo,	A mast.	Tou
Toula,	A book.	Mat
Tamadje,	A child.	Mo
Tangee,	To weep.	Vee
Elango,	A fly.	
Haingoo, toolaiee,	A tropic-bird.	Tou
Epalla,	A bird's tail.	Ai,
Kapukou,	A wing.	Tan
Hepoona,	To fly.	2

-	Friendly Isles.	English.
-	Togotto,	To lie down.
	Feenakka,	A bird-cage.
	Eallo,	The rolling of a ship.
	Etooee,	A needle.
	Epeepeege,	A girl that is a maid.
	Efonno,	A turtle.
	Maia,	A thing.
	Mahee maia,	Give me something.
	Koeea,	Yes, it is.
	Geelee,	A file.
	Owo,	Wait a little.
	Temadoo,	Shall I come?
	Kaee, or Eekaee,	No.
	Kalae,	A blue coot.
	Oloonga,	A Stool.
	Takkabou,	A coarse mat to sleep
	Litera Damiel Log-	upon.
	Kakulla,	A fweet fmell, fweet fmelled.
	Namooa,	To fmell ; fmell it.
	Koe,	It is; as, Koe maa,
	PHILIPPIN AND MAKES	it is food; Koe
f	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	maiee, it is fruit-
	a michtigh at gand	ful.
	Koatoooo,	A king fisher.
	Mogo,	A lizard.
	Toutou,	A cord.
	Matte laiva,	Dead.
	Moeha,	More.
-	Veenaga,	Fine, charming, won-
1	Tougge my,	Bring it here.
	Ai, (long) angrily,	No.
* 17.4	Tamma,	Boy, man, friend, call-
	. 7	ing to one.
	3 Z 2	Eekoou,

Waggee

English.

Friendly Isles.	English.	Friendly Isles.	English.
Eeekoou,	Here am I; answering	Ao,	Clouds.
	one who calls.	Jeela,	A canoe's yard.
Haloo,	Go; to go.	Laa,	A fail.
Hengalo,	At a distance, a great way off.	Falle wakaeea,	The but in a large canoe.
Eafee, or Eafoi,	Hire.	Faee,	To play.
Yehaeea (inquisi-	What is that?	Tallafoo,	The fire-place in a large boat.
Kohaee koa, or		Goolee,	A fort of windless, or
Kowykoa, Kovee, or Kovee-	What is your name?		belaying place for the rope of their fail.
eea,	Bad.	Tataa,	A scoop for bailing out
Bongee, bongee,	To-morrow.		a boat.
Peepee,	A pair of scissars.	Taia,	White.
Chenna,	Friend, I say; bark ye.	Oolee,	Black.
Geelee, or geeree,	The skin.	Goola,	Red.
Etchee,	To peel a cocoa-nut.	Ohooafee,	Smoke.
Taha pai,	One thing, as a day,	Geeai, Fofooa,	A close kind of mat. Pimples.
Totto,	Blood.	Maaloonga,	High, mountainous.
Roatoo,	Shall I go.	Mai,	Motions with the hands
Whakae,	Look, fee.	and the same	in dancing.
Whakae my,	Let me see it.	Touvaa,	A cap or bonnet they
Arooweevo,	Below; to let down a rope, or to go down	Majeela,	wear to shade them from the sun.  A large bamboo fishing-
	over the ship's side to trade.	iviajecia,	rod.
Aingy,	Large clams or cockles.	Pai,	A thing.
Eeegee,	A chief.	Mamahee,	Pain.
Eatooa,	God.	Echee, or Eeke,	Small, little.
A bo,	To-night, at night.	Cheeatta,	A looking-glafs.
Any,	Presently, by and by.	- Tangameeme,	A bladder.
Elangee,	The sky.	Goobainga,	A fishing-net.
Elaa;	The fun.	Elillo,	Below, underneath.

APPENDIX, N° III.

Friendly Isles.	English.	Friendly Isles.	English.
Face,	To shave.	Goomaa,	A rat.
Motooa,	A parent.	Agoota, oomoo,	To put a thing in an
Moumy,	To paddle, or row.	110	oven.
Avy, ava, or govy,	Abarbour, or anchoring-	Oomoo,	An oven.
We work to Come I	place.	Eadda,	A path.
Po, taha, pai,	In one day.	Mattabaa,	A door.
Ebaika,	A large bat.	Togga,	A large stick used as a
Kakaa,	A parrot.		bar behind the door.
Tooge,	Marks on the cheek, made by beating.	Koheeabo,	The paper mulberry plant.
Nono,	To bide a thing.	Faa,	Palm, called Pandanus.
Fonooa, or Kaeenga,	Land.	Tangata, or tangatta,	A man.
Beeoo,	Apalm which bears clus-	Taheina,	A child.
	ters of very small nuts.	Onne, onne,	White sand.
Haoomoo,	A large blunt fort of	Pai,	Ripe, old.
	plantains.	Ea,	A fence made of bam-
Goolo,	A globular earthen pot,	Company of the same of	boo, €c.
	or veffel.	Toee,	The wood which they
Manga, mangatei,	A large blue star-fish.		make their canoes of.
Hainga,	A parroquet.	Mafaee,	Wasps nests built in the
Maagonna	Full, satisfied with eat-		pod of a plant.
	ing.	Kappe,	A large cylindrical edible
Maheena,	The moon.		root.
Teeleeamoo,	A secret.	Ongo, ongo,	A small palm growing
Fonooa bou,	A land of plenty.		to the height of eight
Oobai,	A fong.	Contract the Contract of the C	feet.
Foolehaioo,	The green wattle bird.	Gooholla,	It is gone, or flown.
Pailoo,	A spoon.	Mai, kawaia,	To take away a thing.
Kulle, velaive,	A large white spider,	Mai, Evaheeoo,	To let a thing remain.
	with brown and white legs.	Kaeenga,	Land, or properly the shore.
Fageeta,	A ceremony of kisfing,	Fyatooka,	A burying-place.
	&c. on a new ac-	Woee,	Admiration.
A CONTRACTOR OF THE PARTY OF TH	quaintance.	Koeee,	Afan. Waggee

Face,

Friendly Isles.	English.	Friendly Isles.	English.
Waggee hou,	Let it alone.	Faitanoo,	A fort of pepper-tree,
Bai,	Great.	THE REST	the juice of which is
Laika, laika,	Good.	See a street	very acrid.
O00,	A cray-fish.	Nafee, nafee,	A fine white fort of mat.
Feengafee,	A black and white mat.	Abee,	A house to sleep in.
Aingatooeea,	Stained red rushes, which	Touaa,	A square bonnet.
	they wear round the	Fukke, fety,	To give a thing gratis,
THE PERSON NAMED IN	waist.	2 3 3 3 3 3	or for friendship's
An, any,	A little while ago.	helicity in the second	fake.
Hengatoo,	Glazed cloth which they wear.	Tooa, or Tooaeea,	A fervant, or person of inferior rank.
Falla,	A thick strong mat.	Fukkatooa,	A challenging motion,
Mahagee,	A fort of ulcer, that		made by striking the
	leaves large laced	another a level to	band on the bend of
	scars.	Water and the state of the stat	the opposite arm.
Akkaree,	A stool to lay the head	Kaeehya, or kaeehaa,	
	on when asleep.	Fooloo,	-A quill.
Naffa,	A large cylindrical piece	Moojeekakka,	A basket made of cocoa-
	of wood, bollowed	I VIETE TO THE	nut core, and white
	with a slit, which	A III	beads.
The American Property of the	serves as a drum.	Mahanga,	A brother.
Toa,	A spear.	Maeele,	An odoriferous shrub,
Etanno,	To bury under ground.	A STATE OF THE PARTY OF THE PAR	planted near the Fya-
Afai,	When.	100	tooka.
Otoogoo,	Finished.	Fofolla,	To unfold a piece of
Maree, or mareeai,	Well done; an acclama-		cloth.
mad at men	tion.	Kotjee,	None.
Fafa,	To carry one on the back.	Taboone,	To close, or shut; a par-
Mamao,	A great way; distant.	m	tition or skreen.
Meedje, meedje,	To drink out of a cocoa- nut.	Too,	To draw back a curtain, or skreen.
Matta,	The face.	Ava,	A window; bole
Ty, or Etae,	Excrement.	Fonooa, foohoo,	A land of warriors. Taboo,
			1 11000,

Friendly Isles.	English.	Friendly Isles.	English.
Taboo,	Not to touch a thing.	Meeme,	Urine.
Goomoo, goomoo,	A species of lichen, that	Owo, owo, owo,	No, no, no.
	grows plentifully on	Fohee,	To peel a plantain.
	fome trees.	Ajeeneu,	A vessel to put drink in.
Laiva,	For good and all; cer- tainly.	Tangee, fe toogee,	Striking the cheeks on the death of their re-
Bagooee,	A prickly star-fish.	The state of the s	lations.
Bedjeeloa,	Acrab, with black claws.	Mamaha,	Coral rock under water.
Fae,	A fister.	Oohee,	A species of diosma.
Makka fatoo,	Coral rock.	Mawhaha,	An excellent root like a
Gailee, gailee,	Dirt.	The state of	potatoe.
Maa,	Clean.	Baa,	A crackling noise; to
Ma, tagge tagge,	Let me look at it.	The state of the s	crack, or fnap.
Konna,	Poison.	Boogo,	The largest sort of tree
Fekaee, or fmatte,			in the islands.
fekaee,	Hunger.	Taifo,	A mullet.
Matte, fee aeenoo,	Thirst.	Amou,	Whole; found; true;
Aieenoo,	To drink.		valid.
Awhainne,	Near at hand.	Faigeeaika,	Iambos.
Monoo,	An expression of thanks.	Kakou,	A shoal, or reef, on
Mattahoa,	Very good.		which the sea breaks.
Toooa,	Both; we; both of us.	Shainga (in the la	n-
Fooa, repeated,	A great number.	guage of Feejee),	No; there is none.
Boola,	Small white shells.	Fangoo,	A small calibash shell.
Anoo, anoo,	To Swim.	Oore, oore,	Black.
Anga,	Aman.	Looloo,	An owl.
Haile,	A knife.	Murroo,	Soft.
Haile, fofoo,	A knife that shuts.	Faifaika,	Hard.
Adoo,	Give it; to give.	Feengotta,	A fort of shell.
Geehea,	Which, or what.	Wouainee,	I am bere ; i. e. when
Tohagge,	Let me look at, or fee it.		called upon.
Namoogoo,	A stink, or bad smell.	Mahagge, fatoo,	A dropfy.
Namoo, kakulla,	A sweet smell.	Goee enee,	Near at band.
Boobooa, tahee,	Salt.	Fukka, ma fooa,	An arbour in which they catch pigeons, &c. Fatooree,

Friendly Isles.	English.	Friendly Isles.	English.
Fatooree,	Thunder.	Hooa,	The going about, or tack-
A faa,	A storm ; lightning.	The state of the s	ing of a ship.
Toufarre,	A befom.	Ongonna,	To understand.
Tongo,	A wood, of which bows	Kaee ongonna,	I do not understand you.
	are made.	Mafanna,	Warm.
Ooha,	Rain.	Anapo,	Last night.
Tooboo,	To grow.	Fakkahooa,	The Southerly wind; or
Tawagge, totto,	The red-tailed tropic-		a foul wind.
	bird.	Looloo,	To roll, as a ship.
Kadjee,	There is no more; or	Matangee,	The wind.
	none.	Matangee anga, or 1	The East and North
Fanna, fanna,	To wash the hands be-	matangee leeoo,	wind, or a fair wind.
	fore meals.	Amooce, or tamooree,	From behind.
Mooonga,	Mountains; a mountain.	Amooa, or tamooa,	From before.
Keeneeo,	Low land.	Ahaa, or koehaa,	For what reason?
Laoo allee,	A great many; an end-	Mohe fai,	Where shall I sleep?
	less number.	Koo mafoore,	To lie along, or yield, as
Ogookaee,	No; there is none.		a ship close hauled.
Laia, or koelaia,	Speech; words.	Palla,	Rotten.
Kaho,	An arrrow.	Elooa,	A hole.
Aieeboo,	A vessel, or dish.	Molle, or molle molle	, Smooth.
Tooee,	A club.	Keeai,	A plant they make mats
Feila,	To pull a rope.		of; the cultivated Pan-
Eevee, aai,	A cheer, in pulling a rope.		danus.
Feilaa too,	A word given by one,	Tongo laice,	Mangrove.
	on pulling a rope, and	Reemoo,	Seaweed.
	the rest repeat Woa,	Fety,	A term of friendship.
	as a response.	Jeejee,	Esculent dracæna.
Engago,	Fat, or lard of a bog.	Taboo laia,	Don't Speak; bold your
Kanno, matte,	The lean part of meat.		tongue.
Kofooa,	A kidney.	Toonoa,	Dreffed, cooked.
Kollofeea,	The name of the volcano	Tohke,	A measure.
	on Tofooa.	Toohagge,	Let me see it.
Moggocheea,	Cold.	Taheine,	Ayoung girl; a daughter.
			Haine,

Friendly Isles.	English.	Friendly Isles.
Haine,	Here.	Koehaa, hono, henge
Baiahou,	Swell of the Sea.	Loee,
Maea,	A rope.	Booga,
Otta,	Raw; as raw meat.	Loloa,
Moho,	Meat well dreffed.	Kotjee,
Maoo lillo,	Low land.	Fatjee,
Moanna,	Deep water ; fea.	Fohenna,
Kae haia,	Which is it you want?	- Matee,
Vava tahee,	Red coral.	Lohee,
Feefy,	A species of mimosa.	Mato,
Fatoo,	The belly.	Patoo,
Mee mee,	To fuck bones.	Hooho,
Meedje meedje,	To suck as a child.	Momoggo,
Ooree,	A rudder.	Saiouhai,
Tainga,	A feed of a plant.	Noo,
Oolel teffe,	Incisions in the fore-	Valla,
	Skin, which contract-	
The second	ing prevent its cover- ing the glans.	Doooyoo, a matoo,
Vefoo,	To bide a thing.	Mulloo,
Laifa,	A filver fish.	Vaitte,
Heenaheena	White; yellow.	Moheefo,
Feeoo,	Acrid; bitter.	Fetagee; malowhee
Goomo,	To look for a thing that	Tao,
The state of the s	is loft.	Eenee,
Eeta,	Angry.	Mamanna; au mani
Aneafee,	Yesterday.	manna,
Gefai,	Unknown; strange; as a strange man.	Fukka, booakka,
Fono,	To eat.	Aloalo,
Kailee tokee,	A Panama-shell.	Tammaha,
Toffe,	A fort of hammer oyster.	Tamolao,
Toogoo,	Let it lie, or remain.	Mahae,
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	Friendly Isles.	English.
	Koehaa, hono, hengoa	, What is the name of it?
ì	Loee,	To understand.
į	Booga,	To bold fast.
1	Loloa,	Long.
1	Kotjee,	To cut.
	Fatjee,	To break.
	Fohenna,	A son; a brother.
10	- Matee,	A fig-tree.
	Lohee,	A tie.
Š	Mato,	Steep ; high.
	Patoo,	A Stroke; to Strike.
-	Hooho,	The breafts.
	Momoggo,	Cold.
	Saiouhai,	Admiration.
	Noo,	Mine; of me.
	Valla,	A piece of cloth work
	The second second	round the waist.
		A song in favour of a
	eeoce, Mulloo,	victor.
	Vaitte,	Serene; fettled; smooth.
		To untie a thing.
	Moheefo,	Come down below.
	Fetagee; malowhee,	
-	Tao,	A fpear.
1	Eenee,	Now; immediately.
	Mamanna; au manna	
	manna,	Engaged; contracted to.
	Fukka, booakka,	An epithet of abuse; contempt.
	Aloalo,	To fan, or cool.
	Tammaha,	Certain great chiefs.
	Tamolao,	Chief.
1	Mahae,	A torn hole.
- 1		

Friendly Isles.	English.	Friendly Isles.	English.
Goefai,	What is.	Pango,	Bad.
Laoo,	To count, or reckon.	Orlongaa,	Thread of which they
Manakko,	To give.		make their nets, or
Fooo,	New; lately made.	ing the selection in	the plant.
Modooa,	Old; worn.	Monee,	Truth.
Maa,	A four plantain, by being	Anga,	A shark.
	put under ground.	Laffa,	Ringworm.
Kaifoo,	A brownish yellow.	Fooa,	Fruit; flower.
Eafee,	To play on the flute.	Kokka,	A tree they Stain their
Mou afai,	When do you go?	E HIS DESIGNATION	cloth brown with,
Afaia,	How many?	The state of the s	i. e. the bark.
Cheefa,	A pearl oyster.	Moooee,	Alive; life; foul; God;
Gooe, goee,	A saw shell.		or divine spirit.
Fotoohoa,	A rock oyster.	Tooo,	A tree, with the berries
Ogoo,	Of me; belonging to me.	July 10 4	of which they stain
Lelange,	To make.	and the state	their cloth.
Behange,	Let me see it.	Ogoohaika,	Who shall I give this
Foo,	To box.		to? Who shall I
Heeva,	A song, with many wo-	Alaje II. di	belp?
	men singing different	Maha,	Finished; empty.
	keys.	Pagge,	A little paddle they ex-
Ooloo pokko,	The head.	- I The same of the	ercise with.
Koukou,	To bathe.	Faio,	Small branched coral.
Mabba,	A three-kernelled nut.	Cheeagge,	To throw a thing away.
Eelo,	To know.	Faiee tamma,	Pregnancy.
Fotte, fotta,	To squeeze gently with	Lalanga,	To make.
	the hands.	Vao,	A wild uncultivated
Fangootooa,	Wrestling.	IN THE REPORT	country.
Momoho,	Ripe.	Neeoo goola,	Cabbage-tree.
Koffe,	Bamboo which they beat	Routte,	Hibifcus; rosa sinensis.
	with on the ground.	Foa,	A custom of beating the
Alla,	I say.	They bearing in the	head with a tooth till
Waila,	Hot.	Marin Park	it bleeds.
			Cheelee

APPENDIX, Nº III.

Friendly Isles.	English.	Friendly Isles.	English.
Cheelee neefo,	A custom of beating the teeth on the same oc-	Maeneene, Hailulla,	To tickle. Sarcosma.
Hogga tainga,	casion.  A custom of thrusting a spear into their thighs; also a mourn-	H000,	A wooden instrument with which they clear away grass from their sences.
Toofatao,	ing ceremony.  Thrusting a spear into the sides under the	Aho, Gooaa,	The dawn, or day- break. Who is it?
Action 1	arm-pits on these oc-	Avo, Valle,	To go, or take away.  Mad.
Tooengootoo,	Doing the same through the cheeks into the mouth.	Lelaiee a bee kovee, Taboonee, Taae,	Is it good, or bad? To shut, or close. To beat, or strike.
Kafoo,	The garment they com- monly wear.	Ahae, Mamaa,	Who, or where. Light.
Offa,	A term of friendship; as,	Mamaffa,	Heavy.
Taio offa,	My friend, I am glad to fee you.	Faike, Vai veegoo,	A cuttle-fish.  Wet; moist.
Toofa,	To divide, or share out food.	Santalan Santa	State of the last

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## APPENDIX, N° IV.

## VOCABULARY of the LANGUAGE of NOOTKA, or KING GEORGE's SOUND, April, 1778.

Nootka.	English.	Nootka.	English.
Opulfzthl,	The fun.	Aook, or chiamis,	To eat, to chew.
Onulfzthl,	The moon.	Topalfzthl, or too-	The second
Nas, or eenaeehl nas,	The sky.	pilfzthl,	The fea.
Noohchai,	A mountain, or bill.	Oowhabbe,	A paddle.
Mookfee,	Rocks, or the shore.	Shapats, or shapitz, or	The state
Tanass, or tanas,	A man.	chapas,	A canoe.
Oonook,	A song.	Tawailuck,	White bugle beads.
Eeneek, or eleek,	Fire.	Seekemaile,	Iron, or metal of any
Nuhchee, or nook-			fort.
chee,	The land; a country.	Ahkoo, or ahko,	This.
Koaffama,	The ground.	Kaa, or kaa chelle,	Give it me, let me look
Mahtai,	A house.	12	at it, or examine it.
Neit, or neet,	A candle, or lamp-light.	Wook hak,	Will be not do it?
Neetopok,	The smoke of a lamp.	Ma, or maa,	Take it.
Taffyai,	A door.	Chakeuk,	A batchet, or backing
Ai, and aio,	Yes.	The state of the s	tool.
Wook, or Wik,	No.	Eetche, or abeefh,	Displeasure.
Wik ait,	None, not any.	Haoome, or haooma,	Food.
Macook,	To barter.	Takho,	Bad. This iron is bad,
Kaeeemai, or kyomai,	Give me some more for it.		takho feekemaile.
Kootche, or kotche,	To paddle.	Chelle,	I, me.
2	The state of the s		Kaeeo,

Nootka.	English.	Nootka.	English.
Kaeeo,	Broken.	Atlieu,	The depending pine, or
Alle, or alla,	(Speaking to one)		cypress.
	Friend; bark ye.	Koeeklipt,	The Canadian pine.
Klao appe, or klao,	Keep it; I'll not have	Cho,	Go.
No. of the last	it.	Sateu,	A pine-top.
Afko,	Long, or large.	Kleeteenek,	The little cloak that they
Iakooeshmaish,	Clothing in general.		wear.
Tahquoe, or toohquoe,	, A metal button, or ear-	Kleethak,	A bear's skin.
T.ELMAN	ring.	Klochimme	Muscles.
Wae,	(Calling to one, per-	Ohkullik,	A wooden box they hold
	haps) you!		things in.
Weekeetateesh,	Sparkling fand, which	H'flaiakafl, or flai-	
	they fprinkle on their	kalfzth,	Coarse mats of bark.
	faces.	Eefee,	An instrument of bone to
Chauk,	Water.	With the second	beat bark.
Pacheetl, or pachatl,	To give; give me.	Chapitz koole,	The model of a canoe.
Haweelsth, or hawalth,		Klapatuketeel,	A bag made of mat.
Kleefeetl,	To paint, or mark with	Tahmis,	To spit; spittle.
	a pencil.	Wafuksheet,	To cough.
Abeetfzle,	To go away, or depart.	Poop,	Common mofs.
Sheefookto,	To remain, or abide.	Okumha,	The wind.
Seeaik,	A stone weapon, with a	Chutzquabeelfl,	A bag made of seal skin.
and the first of the Control	Square point.	Konneeemis,	A kind of sea weed.
Suhyaik,	A spear, pointed with	Quaookl, or took-	
Acres 6	bone.	peetl,	To fit down.
Taak,	The wood of the de-	Klukeefzthl, or quo-	
· 新山田 · 南山 · 南山	pending pine.	eelfzthl,	To rife up.
Luksheet, or luk-		Tíookeeats,	To walk.
fheetl,	To drink.	Kummutchchutl,	To run.
Soochis,	A tree, a wood.	Klutsklaee,	To strike, or beat.
Haieeaipt,	A broad leaf, shrub, or	Teeshcheetl,	To throw a stone.
A L STATE OF THE S	underwood.	Teelfzthtee,	To rub, or sharpen me-
Tohumbeet,	Variegated pine; silver	Anna Lan	tal.
Stranger Fred	pine.		Tfook,

APPENDIX, N° IV.

Nootka.	English.	Nootka.	English.
Tfook,	To cleave, or firike bard.	Kutseeoataia,	Veins under the skin.
Mahkatte,	A small liliaceous root	Tookquuk,	The skin.
	which they eat.	Muſzthſle,	Pain.
Eumahtame,	Fur of a sea-otter.	Waeetch,	To fleep.
Cheemaine,	Their largest fishing-	Sikfaimaha,	To breathe, or pant.
	books.	Tuhfheetl,	To weep.
Mooftatte,	A bow.	Matikoot,	A fly.
Kahsheetl,	Dead.	Matook,	To fly.
Kleeshsheetl,	To shoot with a bow.	Kooees, or quoees,	Snow, or bail.
Tfeehatte,	An arrow.	Aopk,	To whistle.
Katshak,	A flaxen garment, worn	Asheeaiksheetl,	To yawn.
	as their common drefs.	Elfthltleek,	An instrument of tw
Heshcheene,	A plain Venus shell.	The state of the s	Sticks Standing from
Koohminne,	A bag rattle.		each other with barbs
Akeeuk,	A plain bone point for	Cheeeeakis,	A scar of a wound.
	striking seals with.	Tchoo,	Throw it down, or to
Kaheita,	A barbed bone point for	dinay dilus	me.
a senie e	ditto.	Cheetkoohekai, or	7 A wooden instrumen
Cheetakulheiwha,	Bracelets of white bugle	Cheetkoaik,	} with many bone teeth
	beads.		to catch small fish
Mittemulfzsth,	Thongs of skin worn	We many the	with.
	about the wrist and	Kaenne, or Koenai,	A crow, a bird.
A WE STIFFED	neck.	Keefapa,	A fish; a white bream
Iaiopox,	Pieces of copper worn	Klaamoo,	A bream Striped with
-	in the ear.		blue and gold colours
Neefksheetl,	To sneeze.	Taaweesh, or Tsuf-	Astone weapon, or toma-
Suchkas,	A comb.	keeah,	S bawk, with a wooder
Seehl,	Small feathers which		bandle.
	they strew on their	Kamaisthlik,	A kind of fnare, to catch
	beads.	200	fish or other animal.
Wamuhte,	Twisted thongs and si-	The second secon	with.
	news, worn about	Klahma,	Wing feathers of a rea
	their ankles.	· III WILLIAM	bird.
1571	1		Seetfaennuk
		2	

Nootka.	English.	Nootka.	English.
Seetfaennuk,	Anger; scolding.	Wanshee,	Wild cat skin (lynx
Heeeai, or Heeeee,	A brown streaked snake.	- his moz	brunneus).
Klapissime,	A racoon.	Chastimmetz,	A common, and also pine
Owatinne,	A white-headed eagle.	Value of	martin.
Kluhmifs,	Train-oil; a bladder filled with it.	Ookoomillfzthl,	A little, round, wooden cup.
Oukkooma,	Large carved wooden	Kooomitz,	A buman skull.
	faces.	Keehlwahmoot,	A skin bladder used in
Kotyook, or hotyok,	A knife.	HATTAT HE ALL THE STATE OF THE	fishing.
See eema,	A fishing-net.	Tieeapoox,	A conic cap made of
Weena,	A stranger.	at a manual	mat, worn on the
Quahmifs,	Fish roe strewed upon	A STATE OF THE PARTY OF THE PAR	bead.
	pine-branches and sea- weed.	Summeto,	A squirrel; they also called a rat by this
Kaatl,	Give me.		name.
Hookfquaboolfthl,	A whale harpoon and	Maalfzthl,	A deer's born.
	rope.	Jakops,	A man, or male.
Komook,	Chimæra monstrosa.	Kolsheetl, or Kolsheat,	To sup with a spoon.
Quotluk, or quot-		Achatla, or Achaklak,	What is your name?
lukac,	A sea-otter's skin.	Achatlaha,	What is his name?
Maasenulsthl,	An oblong wooden wea- pon, two feet long.	Akassheha; or akassche	,What is the name of that?
Hokooma,	A wooden mask of the	Haifmuffik,	A wooden fabre.
	human face.	Maeetsalulsthl,	A bone weapon, like the
Tooquacumilfthl,	A seal-skin.		Patoo.
Cha,	Let me see it.	Kookelixo,	A fish fin; the hand.
Sooma,	A kind of baddock, of	Natcha,	A fish tail.
	a reddish brown co-	Klihkleek,	The hoof of an animal.
THE RESERVE	lour.	Klaklasm,	A bracelet.
Aeea,	A sardine.	Ko,	An article, to give
Koeetfak,	A wolf-skin dress.		strength of expression
Keepsleetokszl,	A woollen garment.		to another word.
Iffeu,	Pine-bark.	Nahei, or naheis,	Friendship. Teelsthoop,

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Nootka.	English.	Nootka.	English.
Teelsthoop,	A large cuttle-fish.	Kloofasht,	Smoked berrings.
Pachas,	He gave it me.	Keetsma,	Puncturation.
Quaéeaitfaak,	A yellow, or red fox.	Mikeellzyth,	To fasten, or tie a thing.
Atchakoe,	A limpet.	Cheeteeakamilzsth,	White beads.
Aheita,	A fweet fern-root they eat.	Kakkumipt,	A fea weed, or grafs, on which they strew
Kishkilltup,	The strawberry plant.	A STREET WAY	fish roe.
Akhmupt,	A narrow grass that grows on the rocks.	Eiffuk,	A fort of leek; allium triquetrum.
Klaiwahmifs,	A cloud.	Kutíkushilzsth,	To tear a thing.
Mollsthapait,	A feather.	Mitzsleo,	A knot
Taeetcha,	Full, satisfied with eat-	Mamakeeo,	To tie a knot.
	ing.	Klukfilzfth,	To loofen, or untie.
Kaaitz,	A necklace of small vo-	Klakaikom,	The leaf of a plant.
	lute shells.	Safinne, or fafin,	A bumming-bird.
Tahooquoffim,	A carved buman bead of wood, decorated	Koohquoppa,	A granulated lily-root they eat.
	with hair.	Seeweebt,	Alder-tree.
Moowatche,	A carved wooden vizor,	Kaweebt,	Rasberry-bush.
	like the head of a	Kleehfeep,	The flower of a plant.
	Quebrentabuessos.	Klumma,	Large wooden images
Mamat,	A black linnet, with a white bill,		placed at one end of their houses.
Klaokotl,	Give me something.	Aiahtoop, or aiah-	
Pallfzthpatl,	Glimmer (sheet).	toopsh.	A porpoise.
Eineetl,	The name they apply to	Tofhko,	Asmall brown spotted cod.
	a goat; probably of a deer.	Afzlimupt, or ulfz- thimipt,	Flaxen stuff, of which they make their gar-
Seeta,	The tail of an animal.		ments.
Seehsheetl,	To kill.	Wakash,	An expression of appro-
Ooolfzth,	A sandpiper.		bation, or friendship.
Saeemitz,	Chequered straw baskets.	Kullekeea,	Troughs out of which
Chookwak,	To go up, or away.		they eat.
or collins			Kaots,

Nootka.	English.	Nootka.	English.
Kaots,	A twig basket.	Quoeeup,	To break.
Sllook,	The roof of a house;	Uhfhfapai,	To pull.
On the same of the	boards.	Tfeehka,	A general fong.
Eilfzthmukt,	Nettles.	Apte, or appe,	You.
Koeeklass,	A wooden stage, or	Kai,	Thanks.
the designation of	frame, on which the	Kotl,	Me; I.
	fish roe is dried.	Punihpunih,	A black beating stone.
Matlieu,	A withe of bark for	Nootka,	The name of the bay or
- Sethinitistic	fastening planks.	The late of the la	found.
Nahass,	A circular hole that	Yatfeenequoppe,	4
	serves as a window.	Kakallakeeheelook,	The names of three men.
Neetfoanimme,	Large planks, of which	Nololokum, J	
	their houses are built.	Satfuhcheek,	The name of a woman,
Chaipma,	Straw.	miller some	
Haquanuk,	A cheft, or large box.		SOLECULAR TO THE STATE OF THE S
Chahkots,	A square wooden bucket,	NAMES OF DIFF	ERENT PARTS OF
	to hold water.	THE	BODY.
Chahquanna,	A square wooden drink-		or. L.J
	ing cup.	Oooomitz,	The head.
Klennut,	A wooden wedge.	Apfoop,	The hair of the head.
Kolkolfainum,	A large chest.	Uhpeukel, or up-	The families I
Klieutfunnim,	A board to kneel on	uppea,	The forehead.
	when they paddle.	Cheecheetsh,	The teeth.
Tseelszthook,	A frame of square poles.	Choop,	The tongue.
Aminulfzth,	A fish.	Kuffee, or kaffee,	The eye.
Natchkoa and ]	The particular names of	Neets,	The nose. The ear.
Matseeta,	two of the monstrous	Papai,	The cheek.
	images called Klumma.	Aamifs, Eehthlux,	The chin.
Houa,	To go that way.	Apuxim,	The beard.
Achichil,	What does he fay?	Tfeekoomitz,	The neck.
Aeek,	The oval part of a whale	Seekutz,	The throat.
	dart.	Effulfzth,	The face.
Aptsheetl,	To steal.	4 B	Eethluxooth,
Vol. III.		т.	_ till till till till till till till til

### APPENDIX, N° IV.

Nootka.	English.	Nootka.	English.
Eethluxooth,	The lips.	Chushchuh,	Nail of the finger.
Kloofhkooah, klah,		Kleashklinne,	The thighs and leg.
tamai,	The nostrils.	Klahtimme,	The foot.
Aeetchfe,	The eye-brow.	Aiahkomeetz,	The thumb.
Aapío,	The arm.	Kopeeak,	The fore finger.
Aapfoonilk,	The arm-pit.	Taceai,	The middle finger.
Eneema,	The nipple.	Oatfo, or akhukluc,	The ring finger.
Kooquainux, or	**	Kafleka,	The little finger.
Kooquainuxoo,	The fingers.		

## APPENDIX, N° V.

# VOCABULARY of the LANGUAGE of ATOOI, one of the SANDWICH ISLANDS, January, 1778.

Atooi.	English.	Atooi,	English.
	Where.	Areea,	Wait a little.
Tehaia,	Ditto.	Myao,	Finger and toe nails.
Mahaia,	No.	Eeno,	Bad.
Aorre, or Aoe,	The hair.	Hootee, hootee,	To pluck up, or out.
He oho,		Tooanna,	A brother.
E poo,	The head.	Teina,	A younger brother.
Papaiee aoo,	The ear.	Otooma heeva,	A man's name.
Heraee,	The forehead.	200	Let me see it.
Matta,	The eye.	Nanna,	To fit.
Pappareenga,	The cheek.	Noho,	
Haieea;	Fish.	Hoe,	To go.
Eecheu,	The nose.	Hooarra,	Sweet potatoes.
Oome oome,	The beard.	E Taeeai,	Calling to one.
Haire,	To go.	Waheine,	A woman.
Erawha,	Tears of joy.	Teeorre,	To throw away a thing
Ace,	The neck.	He, aieeree,	The skin.
Poheeve,	The arm.	Ma, ty ty,	To look at, or furvey a
Ooma ooma,	The breaft.		thing.
Heoo,	The nipple.	Tommomy,	Come here.
Peeto,	The navel.	Erooi,	To retch, to puke.
Hoohaa,	The thigh.	Too,	Sugar-cane.
He, wawy,	The leg.	Maa mona,	Sweet or Savoury food.
Eroui,	Wait a little.	Tooharre,	To fpit. B 2 Matou

#### APPENDIX, N° V.

#### 548 English. English. Atooi. Atooi. Yes. I, first person singu-Ai, Matou, Done ; at an end. Ateera, To unfold. Hevaite, Good. My, ty, Above. Noona. Otaeaio, Names of two chiefs. To abide; to keep or Tapaia, Terurotoa, restrain from going. Oome, A great number. A prayer. Poore, Poe, Taro pudding. A priest. Tahouna; Oohe, Yams. To fetch, or bring. Atee, Booa, A bog. To make water. Meeme, Eeneeoo, Cocoa-nuts. Where. Ehaia, To understand. Ono, A bole. To understand, or know. Poota, Eetee, That way. Mao, A man's name. Otae, This place. Mareira, Full, satisfied with eat-Maonna, Eeo, There. ing. A canoe. Evaa, What is your name? Owytooehainoa, A man's name. Touroonoa, A man. Tanata, Let me look. My ty, Ditto, Tangata, A vessel of gourd-shell. Aieeboo, Pahoo, A drum. Mullus cretaceus. Ahewaite, A kind of dance. Ehoora, Sparus parvus punetatus A narrow stripe of cloth Opoore, Maro, The fea. Taee, they wear. Fresh water. Evy, To come. Hoemy; harremy, A barbour. Aiva, Fetch it bere. Eroemy, Within, into. Ecrotto, We, first person plural. Taooa, What is the chief's Owyte eree; A rope. Toura, name? Bread fruit. Ooroo, A chief's name. Toneoneo, Dracæna. Etee, To tear, or break. Motoo, Virginian Arum. Appe,

Toe,

Vaheeo,

Haieehe,

Hooroo manoo,

Dead.

Sently.

Perhaps.

In a short time; pre-

Matte,

Aoonai,

Paha,

A stone adze.

A barbed dart.

Birds feathers.

Let it lie, or remain.

Motoo,

APPENDIX, N° V.

Asooi.	English.	Atooi.	English.
Motoo,	An island.	Maeea.	Plantains.
Hamoea,	A ceremony of clapping	Parra,	Ripe; as, ripe fruit.
	the hands to the head,	Toe, toe,	Cold.
The same of the same	and prostrating them-	Matanee,	The wind.
	felves to the chief.	Etoo,	To rise up.
Worero,	Lost; Stole.	Hairetoo,	To go there.
Acenoo,	To drink.	Hoatoo,	To give.
Tehaia, orooa,	Where are you?	Eeapo,	Night.
Ou,	I, first person singular.	Eahoiahoi,	Evening.
Eunai,	Here; at this place.	Oora,	Red feathers.
Pororee,	Hunger; bungry.	Teehe,	A present of cloth.
Hereema,	A species of Sida.	Herairemy,	A place on which fruit
Meere, meere,	To look at, or behold.	The state of the s	is laid as an offering
Moa,	A fowl.		to God.
Manoo,	A bird.	Henananoo,	A square pile of wicker
Dirro,	Below.	The state of the s	work, or religious
Modooa, tanne,	Father.	CI ASSIST	obelisk.
Modooa, waheine,	Mother.	Hereeere,	A burying-ground.
Naiwe, nawie,	Pleasant; agreeable.	Eteepappa,	The inside of a burying-
Hai, raa,	The fun.		ground.
Hairanee,	The sky.	. Harre,	A bouse.
Abobo,	To-morrow.	Harre pahoo,	A drum-house in a bu-
Heaho,	A small rope.		rying-ground.
Tereira,	There; that way.	Hencene,	A wall, the wall of a
Pymy,	Throw it here.		burying-ground.
Ewououtte,	Morus Papyrif.	Heho,	Astone set up in a bu-
Moe,	To Sleep.	2 1 1 1 1 1	rying-ground, confe-
Nooe,	Large,	ALL CLASS	crated to the Deity.
Poowha,	To yawn.	Eatooa,	A god.
Ahaia,	When; at what time.	Tangaroa,	The name of the god of
Wehai,	To uncover and undo a		the place we were at.
	thing.	None,	Morinda citrifolia.
Tooto,	A small straw rope.	Hereanee,	Small twig things in a
Eaha, nai,	What is this?		burying-ground. Hemanaa,

Atcoi.	English.	Atooi.	English.
Hemanaa,	A house, or hut, where they bury their dead.	Erahoi, dehoi,	Thin; as, thin cloth,
Herooanoo,	Wooden images in a bu- rying-bouse.	Pattahaee, or he roui,	A fort of musical instru- ment or rattle, orna-
Tooraipe,	A kind of head-dress, or helmet on an image.	1 Onhelmen)	mented with red fea-
Eahoi,	Hire.	Eappanai,	A plume of feathers they
Pohootoo noa,	A cream-coloured whet-	Maria and a second	wear.
	stone.	Etooo,	The Cordia sebestina.
Poota paire,	A district at the Western	Whatte,	To break.
The state of the state of	part of the isle.	Oeea,	Yes; it is fo.
Eonnotaine,	A fort cloak of black	Heoreeoree,	A fong.
	and white feathers.	Paraoo,	A wooden bowl.
Ottahoinoo,	One article, or thing.	Apooava,	A shallow wooden dish
Epappa,	A board used to swim		they drink Ava out of.
. 1117	upon.	Etoohe, toohee,	A particular fort of
Oneete,	A kind of cloth.		cloth.
Heorro taire,	A small scarlet bird, or	Ootee, or otee, otee,	To cut.
	merops scarlatina.	Pappaneeheomano,	A wooden instrument be-
Taa,	An interjection of admi-		fet with sharks teeth,
,	ration.	Time and the	used to cut up those
Epoo,	A bracelet of a single		they kill.
-fee,	shell.	Maheine,	A wife.
Eou,	To swim.	Homy,	Give me.
Tearre,	Gardenia, or Cape Jaf-	Moena, or moenga,	A mat to sleep on.
	mine.	Eeno,	An adjunct, when they
Heoudoo,	A refusal; I will not do	, may 6	express any thing good,
	it, or take that for this.		though by itself, it
Ecorre,	A rat.	The same of	Signifies bad. Thus
Ehooo,	A gimblet, or any instru-	A STATE OF THE STATE OF	they say, Erawha ee-
	ment to bore with.	a the same of the same	no, good greeting, as
Epaoo, or ooapa,	There is no more; it is	200	the Otaheiteans Say,
	done, or finished.	e. See a company	Ehoa ceno, or my
Matou,	A particular fort of fish-	2 10 10 10 10	good friend.
3	book.		Taboo,

Atooi.	English.	Atooi.	English.
Taboo, or tafoo,	Any thing not to be	Heneeoohe,	An instrument made of
	touched, as being for-	The state of	a shark's tooth fixed
	bid. This is an ex-	A Property and the same	on a wooden bandle,
Contract of the contract of th	ample that shews the	Activation and an arrangement	to cut with.
- Mark Maria	transmutation of the	Eea,	An adjunct, as at Ota-
	H, F, and B. into	a Ten batta	heite, to give strength
	each other. Thus at	To be the second	to an expression.
	Otabeite yams are	Paoo roa,	Quite done; finished.
	oohe, at Tonga oofe,	Ee,	At.
	at New Caledonia	Taira,	That; the other.
The state of the s	oobe; and bere taboo	Ahoo aura,	Red cloth.
The state of the s	is tafoo.	Henaro,	A fly.
Maooa, Heno,	I, first person singular.  Little rods, about five	Ehateinoa,	What is the name of that?
Service and addressed to	feet long, with a tuft	Heweereweere,	An outrigger of a canoe.
dan in	of bair on the small	Mawaihe,	The fail of a canoe.
	end,	Eheou,	The mast of a canoe.
Patae,	Salt.	Hetoa,	The yard of a sail.
Aheia, Teanoo,	A round pearl-shell.  The cold arising from	Ooamou,	Fast; secure; sound; whole.
	being in the water.	Hono,	To go; to move.
Tammata,	The sense of taste.	Matou,	Fear.
Ootoo,	A loufe.	Pooa,	An arrow.
Ehone,	To falute by applying	Teeto,	A bow.
	one nose to the other.	Epace,	Wooden bowls made
	Ehogge at New	12 (5) 1 - 1 - n	from the Etooo.
	Zealand, and Ehoe	Ohe,	Bamboo.
	at Otaheite.	Henaroo,	The swell of the sea.
My,	A fore of any kind.	Motoo,	Land.
Oura, or ouraa,	Cured; recovered; alive;	Ehetoo,	A star.
Will be a second	well.	Marama,	The moon.
Mango,	A shark.	Ouameeta,	A man's name.
Te and he,	The.	Numerals to	Ten, as at Otaheite.

## APPENDIX, N° VI.

TABLE to shew the Affinity between the Languages spoken at Oonalashka and Norton Sound, and those of the Green-Landers and Esquimaux.

English.	Oonalashka.		Norton	Sound		Greenlan From Cra	7.7	Esquimaux.
Aman,	Chengan -	-		-	-	Angut		
A woman,	Anagogenach							
The head,	Kameak -	-	-		-	7 - 2 17 11	-	Ne-aw-cock
The bair,	Emelach -	-	Nooit -		-	H-H-	-	New-rock
The eye-brow, -	Kamlik -	-	Kameluk		-	-	-	Coup-loot
The eye,	Dhac -	-	Enga -	-	-	-	- 3	Ehich
The nose,	Anosche -	-	Ngha	-	-		-16	Cring-yauk
The cheek,	Oolooeik -	-	Oollooak	-	-	- 1	-	Ou-lu-uck-cur
	Tootoofh -		Shudeka	-	-	-	-	Se-u-teck
The lip,	Adhee	-	Hashlaw					(myrmai
The teeth,	Agaloo							
The tongue, -	Agonoc							Mary Harrison
The beard,	Engelagoong	-	Oongai					
	Ifmaloch -		Tamluk		-	E - 11151	-	Taplou
The neck,	Ooioc	-	1516		2	the substitute	-	Coon-e-foke
The breaft,	Shimfen -	-	nosinit-		-	-	-:	Suck-ke-uck
The arm,	Toolak -	-	Dallek	7-	-	UL T	-	Telluck
The hand,	Kedhachoonge	-	Aishet	-	-	-	-	Alguit
The finger,	Atooch -	-	committee					
	Cagelch -	-	Shetooe					
	Cachemac -	-	Kookdofh	ac				
	Ketac	-	Kanaiak	-	-	-	-	Ki-naw-auk
	Ooleac -	-	Etscheak	-	-	-	-	E-te-ket
						100	140	Ti

English.	Oonalashk	n. No	rton Sound.	Green From C		Esquimaux.
The fun, -	- Agadac -	- Maje			-	Suck-ki-nuch
The moon, -	- Toogedha			1 - 2		Tac-cock
The fky, -	- Enacac					
A cloud, -	- Aiengich					
The wind, -	- Caitchee					
The fea, -	- Alaooch -	- Emai				Ut-koo-tuk-lea
Water, -	- Tangch -	- Mood	2			
Fire,						E-ko-ma
Wood, -	- Hearach					
A knife, -	- Kamelac		WHEEL !			
A house, -		-		Iglo		Tope-uck
A canoe, -	- Eakeac -	- Caiao		- Kaiak -		
	- Chafec -					
	- Comeleuch	4.500		Harle		
A bow, -	- Seiech -			27 12		Petick fie
	- Agadhok					Caukjuck
	- Ogwalook			Aglikak		- mangarat
A fish-book,				8	1 1	
	- Net	- Ena		Nao		
Yes, or yea,	- Ah					
- 0 COOK (00 NO	- Taradac -					Attoufet
	- Alac	- Aiba		Arlak -		Mardluk
	- Canoogn -	- Pinga	shook -			Pingafut
Four, -	- Sechn -	- Shetar	nik	Siffamat		Siffamat
Five,	- Chang -					Tellimat
Six,			inting more			Arbanget
		than	five, they	1000	+	Arbanget
Seven, -	- Ooloo -	- repea	t the same		-	Attausek
Eight,	- Kamching				_ '	Arbanget mardlik
Nine,	- Seching -					Kollin illoet
Ten, -	- Hafe		THE RESERVE	100		Kollit

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### APPENDIX, N° VII.

A TABLE of the Variations of the Compass, observed by Captain Cook during his passage from England to the Cape of Good Hope. See Vol. 1. p. 49.

	1776.		Latitude.	Longitude	Variation.	Time.
0	July	14	50 8 N.	4 40 W.	° 181 W.	Evening.
4	-	18	48 44	5 20	23 05	Ditto.
D		22	48 35		25 4	Morning.
			44 17	5 36 · 8 18	22 42 .	Ditto.
8		23	43 55	8 28	22 26	Evening.
ğ		24	43 46	8 33	23 14 =	Ditto.
4		25	42 58	9 34	23 141	Ditto.
2		26	40 38	10 7	22 56	Ditto.
D		29	33 51	14 32	18 31	Morning.
3		30	33 4	14 53	19 31	Evening.
			32 4	15 4	18 24	Morning.
ğ		31	31 10	15 27	18 187	Evening.
Ata	anchor i	n the F	Road of St. Cr	uz in Teneriffe.	14 41 1	
8	Augus	t 7	23 54	18 36	15 I	Ditto.
\$ \$	0	9	20 29	19 56	14 101	Ditto.
٠.			19 41	20 29	13 231	Morning.
D		12	15.34	23 10	9 46 5	Ditto.
文		14	13 49	23 23	9 28	Ditto.
24		15	12 21	23 34	9 48	Ditto.
2		16	11 51	24 2		Ditto.
D		19		22 52	9 27	Evening.
			8 55	22 39	9 25 4	Morning.
4		22	6 33	20 51	10 161	Ditto.
2		23	6 29	21 2	11 13	Evening.
			6 9	20 59	10 19	Morning.
D		26	4 23	21 12	9 5	Ditto.

1	776.	Latitude.	Longitude.	Variation.	Time.
ð A	ugust 27	3 59 N.	° 40 W.	8 35 W.	Evening.
	0 ,,	3 45	22 10	8 37	Morning.
ğ	28	3 37	22 23	8 361	Evening.
		By an at	mplitude.	7 58 1	Ditto.
2	30	2 40	23 27	7 49	Ditto.
.50	3-	2 20	24 35	6 49	Morning.
Ъ	31	2 5	25 12	6 331	Evening.
	3.	1 14	26 12	5 341	Morning.
o Sen	tember 1	0 51	27 52	5 151	Evening.
o ocp	temoer 1	0 7 N.	27 23	4 42 7	Morning.
D.	2	1 13 S.	28 30	3 267	Ditto.
8	3	1 50	28 49	3 31 5	Evening.
	3	2 48	29 18	3 20	Morning.
ğ			0.000	2 55 5	Evening.
*	4	3 37	29 24 30 12	2 37	Morning.
24		4 20	30 51	2 24	Evening.
4	5	-		I 211	Morning.
2	- 6	5 34	31 49	0 21½ W.	Evening.
+	0	\$ 25 mm 1970 90 mm 1970	32 15		Morning.
Ъ	-		145Ty X-26655576y 1	o 33½ E. o 3½ W.	Evening.
12	7		33 30	0 11 W.	Morning.
_	8	7 50	33 48	THE RESERVE	Ditto.
0			34 14		Evening.
D	9	9 1	34 14	0 18 E.	
_		9 35	34 29	o 6½ E. o 40 W.	Morning.
ਰ	10	10 4	34 19		Evening.
	500	II I	34 19	o 6½ E.	Morning.
ğ	11	12 40	34 19	0 41 <sup>2</sup> E.	Ditto.
4	12	13 23	34 18	0 40 E.	Evening.
		14 11	34 2	0 165 E.	Morning.
\$	13	14 47	34 4	1 8 E.	Evening amplitude.
		15 33	34 16	1 20 E.	Morning.
Þ	14	16 12	34 20	1 23½ E.	Evening.
_		16 58	34 55	2 30 E.	Morning.
0	15	17 40	35 8	2 11 E.	Evening.
		18 30	35 26	2 167	Morning.
D	16	20 8	35 49	4 2 1/2	Ditto.
8	17	20 46	35 50	2 43 7 8	Evening.
		21 37	35 42	2 44 3	Morning.
Å	18	22 17	35 41	2 331	Evening.
♀ .	20	25 54	34 37	3 32 1	Ditto.
		26 47	33 55	3 161	Morning.
ъ	21	27 14	33 26	3 5½	Evening.
		27 44	32 35	2 23 <sup>2</sup>	Morning.
0	22	28 19	31 51	2 1 1	Ditto.

	1776.	Latitude.	Longitude.	Variation.	Time.	
D 5	September 23	28 36 S.	31 5 W.	° 2 31 E.	Evening.	10
22	1	29 12	29 59	1 10	Morning.	
8	24	29 29	29 21	1 30	Evening.	
	-10	30 4	28 8	0 31	Morning.	
ğ	25	30 25	27 30	0 501 E.	Evening.	
	29	33 43	16 50	3 46 W.	Morning.	
0	30	33 48	16 7	4 45 1	Evening.	
		33 56	15 28	4 45 1	Morning.	
ğ	October 2	34 16	12 0	7 1	Evening.	
197		34 16	10 2	7 13:	Morning.	
2	- 4	34 45	8 58	6 32	Evening.	+
-	1 1000		litude.	7 52	Ditto.	
		35 37	9 4	6 9 5	Morning.	
Þ.	5	35 35₺	9 12	6 50	Evening.	
	171 253	35 49	8 49		Morning.	
3	8	35 19	7 45	7 40° 7 8 47	Evening.	
		Amp	olitude.	6 59\$	Ditto.	
		35 30	7 35	9 12 8 45½	Morning.	
ğ	9	35 17	7 5		Evening.	
	Alge men		1 10	6 59\$	Ditto.	
4	10	35 39	3 47 W.	11 56	Morning.	
8	15	34 57	8 40 E.	19 26 ‡	Evening.	
		pe of Good I	Tone S	21 581	On board.	
	At the Ca	pe of Good I	Tope,	22 142	On shore.	

#### THE END.

ERRATUM.
Vol. II. p. 360. l. 22. for bear read veer.

