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## VOYAGE OEDISCOVERY

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UNDERTAKEN
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Principally with a View to afcertain the exiftence of any Navigable
Communication between the

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IN SIX VOLUMES.
VOL. VI.


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 off which lies a clufter of fmall inlets and rocks. The coaft between thefe capes is much broken, and has feveral openings in it that appeared likely to afford fhelter; but the vaft number of rocks and fmall iflets, fome producing trees, and others intirely barren, that extend to the diftance of three or four miles from the fhore, will render. the entering of fuch harbours unpleafant and dangerous, until a more competent knowledge of their feveral fituations may hereafter be acquired : that which appeared to be the eafieft of accefs, lies about two leagues to the northward of cape Edward, and as it is in latitude $57^{\circ} 44^{\prime}$, I was led to confider this opening as Portlock's harbour. We did not reach cape Edward until the afternoon, as the wefterly breeze was foon fucceeded by faint variable airs, that blew directly towards the frore, which, was vifible only at intervals, owing to the thick foggy and rainy weather, and which rendered the view we had obtained of this part of the coaft, By no means fatisfactory. During the night the wind fettled in the weftern quarter, notwithftanding which, by its blowing gently, our diftance from the fhore was increafed to about three leagues, and at day-light the next morning. (Wednefday 30) cape Edward bore by compafs N. 27 W. diftant twelve miles; from whence the coaft bends more to the eaftward, and takes adirection about
S. 30 E. to a very confpicuous opening, which I fuppofed to be that reprefented in fome late publications, as feparating the land on which mount Edgcumbe is fituated from the adjacent fihores, and named the Bay of Iflands by Captain Cook, who imagined at the time he paffed it, that fuch a feparation did exift. We were oppofite to this bay about eight in the morning, but the intermediate fpace between the bay of Iflands and cape Edward was paffed in very thick foggy weather; this difadvantage, in addition to the diftance we had been from the land, may fubject the delineation of that fhore to fome error. Near the land forming the fouthern fide of the bay of Inlands are feveral fmall iflets, and from the fouth point of the bay, which I called Point Amelia, the coaft extends S. 5 E. fixteen miles, to cape Edgcumbe, having nearly in the middle of that fpace an opening, with two fmall inlets lying before it, and prefenting an appearance of a good harbour, which I called Port Mary ; the other parts of the coaft that were paffed at the diftance of about a league, are indented with frall open bays.

As the day advanced a brifk gale from the N. W. attended us, with fair and pleafant weather, which enabled us to afeertain the Mip's fituation. At noon the latitude was found to be $57^{\circ} 4 \frac{1^{\prime}}{2}$, longitude $224^{\circ} 19^{\prime}$. The moft nor- thern part of the coaft at this time in fight bore by compafs N. N. W. port Mary N. 22 E. eight miles diftant; and cape Edgcumbe S. 80 E. four or five miles diftant. This cape, by the fame obfervations was found to be in latitude $57^{\circ} 2^{\prime}$, longitude $224^{\circ} 25^{\frac{I^{\prime}}{}}$, which is one mile to the fouth and eighteen miles and an half. to the eaftward of its fituation, as ftated by Captain Cook. We had now alfo a very good view of mount Edgcumbe and notwithftanding that it muft be confidered as high land, yet it was intirely free from fnow, and feemed to us but an inconfiderable hill, when compared with the mountains we had generally feen, extending along the fhores of this continent. Cape Edgcumbe forms the north-weft point of a fpacious opening, that branches into feveral arms, and is called by Mr. Dixon Norfolk Sound; its oppofite or foutheaft point, which I have diftinguifhed by the name of Point Wodehouse, lies from the cape S. 50 E . at the diftance of feventeen miles. One of the northern branches of the found, by its communication with the bay of Inlands makes, it feems, the intermediate part of the fea-coaft an ifland. On the northern fide of the found, two leagues within cape Edgcumbe, are, what appeared to us, two illands, and N. N. W. from point Wodehoufe, lies an extenfive group of iflets and rocks that extend three or four miles
from the thore, which, from that point, with little variation, takes a courfe S. 36 E. This part of the coaft is much broken into fmall openings, with illets and detached rocks lying off it. We had advanced about fixteen miles only from point Wodehoufe at eight in the evening, after which, the night was paffed in ufing our endeavours to retain our ftation near this part of the: coaft; but we found ourfelves on Thurfday morning the 31 ft , much further from the land than we had expected; we had, however, a favorable breeze' from the weftward, with which we ftood to-: wards the fhore, but the weather becoming thick and foggy, we were under the neceffity to haul off the coaft until ten in the forenoon, when the land being again vifible, about four miles from us, we refumed our examination, paffing fome fmall openings, with feveral illets and detached rocks lying near to them; but of which we were precluded any diftinct view by the hazinefs of the weather.

This difadvantage had attended us almoft generally fince our departure from Crofs found, and although I have reafon to believe that we had nearly afcertained the general line of the coaft, yet it is pofible that there may be openings or harbours that we were unable to notice, as circumftances would not admit of our devot- ing fufficient time to a more minute examination.

By noon we had paffed the fouth extremity of this archipelago, which was now found to ftretch a few miles further fouth than Mr. Whidbey had eftimated; our obfervations placed it in latitude $56^{\circ} 10^{\prime}$, longitude $325^{\circ} 37 \frac{1}{2}^{\prime}$. It conftitutes a very remarkable promontory, that terminates in a high bluff rocky cliff, with a round, high rocky inlet lying clofe to it, and by its fhores on its eaftern fide taking a fharp northerly direction, it becomes a very narrow point of land, which having been feen by Captain Colnett in his mercantile expedition to this coaft, was by him named Cape Ommaney, and the opening between it and cape Decifion, Chriftian Sound.

Our conjectures of foon finding a port in this neighbourhood, did not long remain unconfirmed, for after advancing feven or eight miles from cape Ommaney, we difcovered on the eaftern fhore of the archipelago an opening that took a fouth-weft direction; and as it appeared likely to anfwer all our purpofes we worked into it, with a freth breeze directly againft us until feven in the evening; when we anchored off a cove about half a league within the entrance of the harbour. On Friday morning the ift of Auguft the veffels were moored head and fiern in this cove, there not being fufficient room for
them to fwing; and whilft thofe on board were fo employed, accompaniéd by Mr. Whidbey and Mr. Johnftone. (who were each to undertake a diftinct expedition, and by which means we entertained the hope of being enabled to connect the furveys of the prefent, with thofe of the two preceding feafons; I rowed to the entrance of the port, in order to be better able to arrange the mode of conducting that fervice; this appeared to be no difficult tafk, as there were two given points before us, and both were nearly in view. The one was cape Decifion, where our examination of the continental fhore had finifhed the former feafon, and the other was point Gardner, from whence Mr. Whidbey had returned on his laft excurfion from Crofs found. Mr . Whidbey was directed to recommence his refearches from that point, whilft Mr. Johnftone proceeded to cape Decifion, there to begin his examination along the eaftern fhore of the found northward, until the two parties fhould meet, or be otherways informed by notes which each party was to leave in confpicuous places for the gorernment of the other, defcribing the extent of their refpective furvcys.
The fpace now to be explored occupied about a degrec of latitude, and although I hoped that the cxamination of it with tolerable weather, would not employ the boats more than a week; B 4
yet yet in order that it fhould not be left unaccomplifhed for want of provifions, each of the parties was provided for a fortnight. The Difcovery's yawl and lane cutter was to proceed with Mr . Whidbey and Mr. Swaine ; and the Chatham's cutter, and the Difcovery's fall cutter, with Mr. Johnftone and Mr. Barrie; with this arrangement both parties departed early in the morning of Saturday the 2 d , in the profecution of their reflective purfuits.

The ftation we had taken; though fufficiently commodious's for our purpofe, was extremely folitary; there were no inhabitants on the adjacent flores, nor was there the fmalleft appearance of any part of our neighbourhood being a place of their refort, fo that our time was not likely to be very interestingly employed, or our attention diverted from foch neceffary concerns as the ordinary fervices of the veffels now required. There confifted principally in repairing our fails and rigging in the beft manner we were able. This had now become a bufinefs of constant employment. Some of the carpenters were caulking, others cutting fuch f pars and timbers for plank us were wanted; and the brewers on Shore were making force beer, which with a little famphire, and forme halibut, caught with our hooks near the entrance of the harbour, were the only refreshments the place afforded.

The five following days we had light variable winds, attended by much rain; but the weather being more pleafant on Friday the 8th, I was employed in making a furvey of the harbour. Its fouthern point of entrance is fituated N. 15 E . about two leagues from cape Ommaney, its oppofite point lying N. 7 W . two miles diftant. The depth of water in mid-channel between thefe points is 75 fathoms, but decreafes to 8 or 10 clofe to the fhores, without rocks or fands, excepting near the points, which are fufficiently evident to be avoided. South fouth-weft, about half a mile from the north point of entrance, is a moft excellent and fnug bafon about a third of a mile wide, and half a mile long; but its entrance is by a very narrow channcl half a mile in length, in a direction S. 7o W., with fome inlets and rocks lying off its fouth point; thefe are fteep nearly clofe to them, as are the fhores on both fides, which vary from a fixth to a twelfth of a mile afunder, with a clear navigable paffage from cight to twelve fathoms deep in the middle, and five fathoms on the fides. The foundings are tolerably regular in the bafon, from 30 is the middle, to 10 fathoms clofe to the fhores. Immediately within its north point is a fine fandy beach, and an excellent run of water, is is the cafe alfo at its head, with a third fandy beach juft within its fouth point of entrance. In the vicinity of thefe beaches, efpecially the firft änd third, is a fmall extent of low land ; but the other parts of the fhores are compored of fteep rugged cliffs on all fides, furrounded by a thick foreft of pine trees, which grew with more vigour than in the other parts of the harbour. From its entrance to the head, it extends about a league in a direction S. 33 W ., free from any interruption, although it is inconvenient from its great depth of water. Near the fouthern fide of entrance lies a fmall iflet and fome rocks, but thefe are entirely out of the way of its navigation. The foundings cannot be confidered as very regular, yet the bottom in general is good; in fome places it is ftony, in others fand and mud; but in the cove where the veffels were at anchor the bottom is rocky. The head of this cove approaches within the fourth of a mile of the head of another cove, whofe entrance on the outfide is about two miles to the fouth of the fouth point of this harbour. In the entrance of that cove the depth is feven fathoms, weeds were feen growing acrofs it, and to the north of it is a fmall illet with fome rocks. The furrounding fhores are generally fteep and rocky, and were covered with wood nearly to the water's edge, but on the fides of the adjacent hills were fome fpots člear of trees, and chiefly occupied by a damp moitt moorifh foil, in which
were feveral pools of water. The furface produced fome berry buthes, but the fruit at this feafon of the year was not ripe. This little information I procured from fome of our gentlemen, who had made fome excurfions about the neighbourhood. In the above cove on the weft fide were found a few deferted Indian habitations, which were the only ones that had been met with. Our not having been vifited here by any of the natives, was rather a mortifying circumftance, as they generally occafioned us fome entertainment, and frequently added fome variety to fuch refrefhments, as by our own efforts we were enabled to procure.

From Saturday the 9th to Wednefday the 13 th; the weather had been moftly boifterous, unfettled, and rainy; this kind of weather fince our arrival had prevented our making any lunar obfervations, but had afforded me fufficient opportunities for afcertaining very fatisfactorily the rates of the chronometers, by fuch means as were in my power on board, not having erected the obfervatory on fhore; for as a corivenient fituation could not be found near the hhip, and as I was in hopes we fhould not long be detained at this ftation, I was not particularly anxious to land the inftruments; and under the circumftances of the weather, I had not much to regret that they had remained unremoved.

Other

Other objects began to claim our ferious attention. The plan that I had adopted for drawing our laborious examination of this coaft to a conclufion, by the furveys on which the boats were now employed, I had fully expected would have been accomplifhed in a week or ten days at the furtheft, but the whole time for which they had been provided was now expired, and Friday the 15 th arrived without bringing any relief to our very anxious concern for their welfare. This unpleafant fate of fufpence continually brought to our recollection the various untoward accidents to which our expeditions in fuch fmall open boats had been liable; and when we adverted to the very treacherous behaviour of the Indians experienced by Mr. Whidbey in his late excurfion from Crofs found, and the fimilar difpofition that had been fhewn to us the preceding feafon by thofe people who inhabit the countries not far diftant to the fouth-eaftward, our minds were filled with apprehenfion, and every hour increafed our folicitude for the return of our abfent friends. The fervice that each party had to perform, called them, if not into the immediate neighbourhood of thefe unfriendly people, at leaft into the vicinity of the places to which they frequently refort; and as they are by nature of a cunning, defigning, and avaricious difpofition, they were much to be
feared; for although they could not be confidered as a courageous tribe, yet the very unwarrantable and impolitic conduct of the feveral traders on this coaft, in fupplying them fo amply with fire-arms and ammunition, and in teaching them the ufe of thofe deftructive weapons, has not only given the natives a degree of confidence that renders them bold and importunate, but the dread which they before entertained of mupketry is greatly leffened by their becoming fo familiar to them ; and they are now fo well furnifhed, as to confider themfelves when in their large canoes nearly on an equality with us, and of courfe are daily becoming formidable, efpecially to the parties in our finall. boats. Thefe diftreffing confiderations, in addition to the protracted abfence of our friends, gave us but too much reafon to be apprehenfive, that we had at length hazarded our little boats, with the fmall force they were able to take for their defence, once too often.

Whilit we endured this irkfome anxiety, it is a tribute that is juftly due to the meritorious exertions of thofe under my command, that I hould again acknowledge the great confolation I derived on all painful occafions like this, by having the moft implicit confidence in the difcretion and abilities of my officers, and the exertions and ready cbedience of my people. Thefe happy reflections
left me no grounds for entertaining the moft diftant idea that any precaution would be wanting to guard againft, or effort unexerted to avert, fo far as human prudence could dictate, the threatening dangers to which I was confcious they muft neceffarily be expofed.

In the hourly hope that thefe confoling reflections would once more be proved to have been well founded, by the fafe return of the boats, I directed that every thing fhould be got in readinefs to proceed with all difpatch in fuch direction as circumftances might require ; for which purpofe the veffels were moved to the oppofite fide of the harbour, as being a more convenient fituation for our immediate departure. Here we remained in the moft uncomfortable ftate of furpenfe that can be imagined until Tuefday the 19th; when, in the midft of a deluge of rain, with the wind blowing very ftrong from the S. E. wé had the indifcribable fatisfaction of feeing the four boats enter the harbour together from the northward. The parties foon reached the veffels, all well, and communicated the glad tidings of their having effectually performed the fervice, and attained the object that had been expected from this expedition.

The accomplifhment of an undertaking, the laborious nature of which will, probably, from the perufal of the foregoing fheets, be more eafily conceived
conceived than explained: a fervice that had demanded our conftant and unwearied attention, and had required our utmoft abilities and exertions to bring thus to a conclufion, could not, after the indefatigable labours of the three preceding years, fail of exciting in the bofoms of our little community, fenfations of a nature fo pleafing and fatisfactory, that few are likely to experience in the fame degree, who were not participators in its execution; and to the imagination of thofe alone, muft I refer the heppineîs we experienced on this interefting event.

In order that the valuable crews of both veffels; on whom great hardfhips and manual labour had fallen, and who had uniformly encountered their difficulties with unremitting exertion, cheerfulnefs and obedience, might celebrate the day, that had thus terminated their labours in thefe regions; they were ferved with fuch an additional allowance of grog as was fully fufficient to anfwer every purpofe of feftivity on the occafion. This foon prompted a defire for mutual congratulations between the two veffels, expreffed by three exulting cheers from each; and it may be eafily conceived that a greater degree of heart-felt fatisfaction was fcarcely ever more reciprocally experienced, or more cordially exchanged.

We had now no reafon for remaining in this port, which, in confequence of this vifit, obtained ing that which a continuation of the inclement weather produced, which detained us until the cvening of Friday the 22d. But before I procced to the recital of fubfequent occurrences, it is neceffary that I fhould advert to the manner in which the late furvey in the boats had been executed.

Agreeably to the directions Mr. Whidbey had received, he proceeded to the ftation where his former refearches had ended; here he arrived about noon on the 3 d , after paffing clofe along the weftern fhore of the ftrait, until he was oppofite to the branch leading to the eaftward. In his way he paffed feveral openings on the weftern fhore, fome of which he had reafon to fuppofe communicated with the ocean in a wefterly direction, and others feemed to afford tolerably well fheltered anchorage. The weather at this time was fo thick and rainy, that the party had but a very imperfect view of the inlet before them. They, however, continued along its larboard hore, in a direction N. 65 E. for about fix miles and an half, paffing feveral fmall rocky bays, and at this inlet arrived at a high fteep bluff rocky point, named by me Point Nepran, fituated in latitude $57^{\circ} 10^{\prime}$, longitude $226^{\circ} 6^{\prime}$; off which lies a ledge of rocks about half a mile, and from this point the coaft takes a more northerly
therly direction; but the weather became forthick that the party was obliged to ftop abaut two miles beyond it, where the operation of the fame caufe detained them until eight o'ctock the next morning; when, with very: hazy unpleafand weather, they refumed their inquiries, and paffed between a coaft much indented with fmall bays; and vaft numbers of fmall inets and rocks, both above and beneath the furface of the water. The weather cleared up towards noon, and enabled Mr. Whidbey to obferve the latitude to be: $57^{\circ} 18^{\prime}$, on a fmall iflet, clofe to a point named by me Point Pysus, lying from point Nepean N. 38 E. ten miles and an half diftant: From this ftation a tolerably diftinct view was obtained of the inlet; in which the party had advanced thus far nearly in the dark. It was now feen to be a fpacious arm of the fea, containing, in moft, directions, many illands, illets, and wocks; the country on the left hand fide, being that fhore the party had coafted,: excepting about paint Nepeang;feemed in genétal to be but moderately elevated, and although it is compored of a rocky: fubftance, produced a very fane foreft, chaefly af pine timbers; but the oppofite fide of the inlet: was too far off for us to notice any thingrefpiott; ing it. From this fation the party proceeded ftill along a very racky fore, about fix miles further, in a direction N. 41: E. to a point called

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by
by me Poinf Gambier; which forms the fouth point of a branch leading to the northweftward: its oppofite point of entrance; named by me. Polnt Hugrs, lying from it N. 29 E. at the diftance of five miles. $\therefore$ Beyond this, another ex-: tenfive branch appeared to ftretch to the northward, but the former being the object of their firft inquiry, they proceeded along its weftern fhote; this is low, and in many places is terminated by fandy beaches. On one of there, about ten mites from point Gambier, they refted for the night, which was"very ftormy from the fouth= ward, with continual rain; and dark gloomy: weather ;" this lafted until ten in the forenoon of the 5 th, when the wind moderating, and the weather permitting them to fee fome little dif. tance before them; they proceeded; with a favorable breeze, up this branch of the ocean, called by: me Seymaur's Chaninet; which; at this place, is from two to three miles wide, and which kept gradualty increafing to its head, where in a direction of N. E. and S: W. it is nearly two leagues àcrofss on the weftern fide are many: frall bays, and it terminates, at its porth-weft extremity, in a fmall brook of fref water, in latitude $57^{\circ}=51^{\prime}$, longitude $226^{\circ}$, lying from point Hugh N. 33 W: diftant twenty-nine miles. One mile from the: fouth point of the brook is an ifland, about three miles and an half long, and
half a league broad; and thatf a mile from the fouth point of that inland lies another, about the fame width, and fix miles long; both thefe illands lie in the above direction, and occupy the middle of the branch, having a gieat number of inlets on their northeeaft fides, and fome rocks on their oppofite shores. Here were feen five Indians, who were very fley:. The party caught fome young ducks, but they were very fifhy, and bad eating. The adjacent country is moderately high, and vis covered with timber of large growth, excepting towards point Ifugh; which is alofty rocky promontory; from whence extends a ledge of rocks; where the fexibroke with confiderable force Owing to the badnefs of the weather thefe rocks were not paffedrantilten at night on the 6 th, and even thensiot without the moft imminent danger, occafioned byta heavy rain and the darknefsof the niight, which prevented the paty:from difcovering their perilous fituation until they mere nearly tamongft the breakers, when, by timely and igreat exertion; they happily paffed clear then thand refted for the might, about a mideon the north-eaft fide of that point. The rain continued, with a ftrong gale from the fouthward, until the foremon of the: 7 th, when the atmofphere becoming more clear, their fituation was difcovered to be on the weftern fide of the branch which was feen from C 2 point point Gambies, extending to the northward, about four miles in width; but was now feen to take a more wefterly:direction, nearly parallel to Seymour's channel, which the party had quitted; and making the intervening flore a long narrow Pbrip of land. The oppofite or north-eaftrde of this northern branch is compofed of a compact range of fupendous mountains, chiefly barren, and covered with ice and fnow. The route of the panty was along the south-weft fate; this is nearly ftraight, compact, and free from rocks or other interruptions, and favoured by $a=S$. . breeze, theyiadvancedrabouttwelve leagués from point Hugh; where they: Stopped for the night; oppornte to a high sound iNand, tying in the middle: of the chapnet:

From this ftation, fotwated, in latitude $58^{\circ} 1^{\prime}$, longitude $226^{\circ} 3^{\prime}$, in the morning of the 8 th; they departed winith calmiranyrweather, and pur-氟ed: their irefearches aidong the weftern :fiore; which nonstook a direction N. Ho:W. eight miles; to aipognt named by me Poive Ardien; where this branch divided into three arms; that whicta appeared toobe a continuation of the arm they thad theen navigating took a northeearterly direction ${ }^{\text {the }}$ the fend, fying about a leagie to the N.W. not more than half a mile wide, took a north-weterly direction, amd, apparently, made the land on its fouth-weft fide an ifland: Abaut
three leagues up this axm is a fmall illet nearly in mid-channelar This afforded another inftance of the partial exifteree of the ice, which here intirely blocked upithis arm, whilft the others were free from any ffuch inconvenjence. The .thind and wideft arm took a general courfe aIs 81 W. and is about a league in width this agreeably to our ufual practice was firft purfued ajong the fotitrewn thore about five teagues to point Young, forming the eaft point of a cove, with an iliand and rock in itsentrances and another at the battom of the cove. At this point the widthief the arm decreafed to abouf half $a$ league and fromjit the fouthern fhore ftretched N. 42 WV. At the diftance of about feven miles the cart point of another fmall cove was reached, witt an iflef lying near it. At the back of this illet was andindian village, and another was feen on anioppofite point lying north, about aileague and a balf from this cove, on the land forming the northifide of thearm, and feem: ed to be the northeweft point of the land before mentioned, appearing to be an illand.

As Mr. Whidbey advanced from this eove; the flore fill continuing the fame line of direction, tre recognized the fpot, from whence in his excurfon from Crofs found, on the night of the 18 th of, July he tiad retired, in confequence of the bioftile behaviour of the natiges, and he now became fatisfied that he had been miftaken in fuppofing at that fime the branch to be clofed; as if was now evident that it communicated with that which the party thed thus navigated, making therintermediate land, which had hithefto been conftidered as appart of the continent, one extenifiveillandy which I callea Amminatur IBEAND:

- In order however that no doubt fhould in future arife, Mr. Whidbey proceeded to point Retreat. After paffing the willage, which from that point lies S. 33 E . at the diftance of about ten miles, the boats were followed by many large and frall canoes; and as the evening was drawing near, to get rid of fuch troublefome vifitors a mufket was fired over their heads, but this as before had only the effect of making them lefs ceremonious; this was proved by their exertions in padeling to come up with our party, which they did very faft, wintil another thot was fired at the largeft canoe, and was fuppofed to have ftruck her, as the Indians all fell back in the canoe; and were quite out of fight; they, however, managed to bring their canoe's ftern in a line with the boat's ferns : in that fituation they paddled backwards with all their frength, and at the fame time fcreened every part of their perfons, by the height and fpreading of theircanoes': bowst excepting their hands; which, in the act of padding
only became vifible, fo very judicioung did they provide for their fafety in their flight; in which, having gained fone-diftance from our party; who had quietly purfued their eourfe, the canoes ftopped for a fhort time, as if for confultation, but foon made the beft of their way back to the village, and Mr. Whidbey proceeded without further interrùption to point Retreat. In this route the party paffed by the fouth weft fide of a very narrow ifland, about half a mile broad, and about a league and an half long; this before had been paffed on its north-eaft fide, in the night of the 18th of July, but it was then fo dark that it was not difcovered to be an ifland. The channel, about three fourths of a mile wide, which was now purfued, is by rocks and iflets rendered equally unfufe and intricate with that mentioned on the former furvey, fo that the communication between thefe two extenfive branches of the ocean is, by thefe impediments, very dangerous for the navigation of fhipping. In this fouthweft channel, about a league from point Retreat, on the fouthern fhore, is a deep cove, which, with the narrow ifland lying before it, forms a very fnug harbour, of good accefs by the paffage round to the north of point Retreat; as the rocky: part of the channel lies to the foutheaft of this cove, to which Mr . Whidbey gave the name of $\mathrm{Ba}_{\text {ar }}$ Low's Cove. The fhores of Admiralty ifland C 4 which
which now had been completely circumnavigated, and found to be about fixty leagues in circuit, are, excepting at this and its fouth-eaftern part, very bold, afford many convenient bays, Hikely to admit of fafe anchorage, with fine freams of frefl water flowing into them, and prefented an afpeet very different from that of the adjacent continent, as the ifland in general is moderately elevated, and produces an uninterrupted foreft of very fine timber trees, chiefly of the pine tribe; whilit the fhores of the continent, bounded by a continuation of thofe lofty frozen mountains, which extend fouth-eaftward from mount Fairweather, rofe abruptly from the wa-ter-fide, and were covered with perpetual fnow, whilf their fides were broken into deep ravines or vallies, flled with immenfe mountains of ice.

Such was the contraft exhibited at point Retreat, where Mr. Whidbey had an opportunity of feeing feveral of the points that had been fixed by his former obfervations, and which, on the prefent occafion, affifted him in correcting his furvey, for he had thus far been able to procure but one obfervation for the latitude, fince his leaving port Conclufion.

From point Retrêat the party returned to Bardow's cove, where they refted for the night. The riext morning a ftrong gale blew from the S . E . fith a wory heary fall of rain; this greatly im-
peded their progrefs in their way down this parfage, which dividing Admiralty ifland from the continent, obtained the name of Stephens's Passage; the point on which the northera village is fituated, was found to be, as had before been conjectured, the weft point of entrance into the farrow icy arm, in which was again feen the illet noticed the preceding morning in an E.S. E. direction, whence it was clearly afcertained, that the intermediate land, forming the north fide of Stephens's paffage was an illand, which after the Bifhop of Salibury, I named Douglas's Island ; it is about twenty miles long, and fix miles broad in the -middle, but becomes narrow towards each end, particularly that to the eaftward, where it terminates in a fharp point: the channel between this illand and the main land, being rendered by the ice impaffable, the boats were ftecred over to the fouthern fhore for protection againft the fouth-eaft wind, which had now become fo violent, that it was late in the evening before they had paffed the fouthernmoft village; and after they had proceeded about three miles to the eartward of it, they refted for the night.

Although the party had been a confiderable time within fight of the village of there unfriendly people, nat a fingle individual had been feen; but they were heard making a moft hide- ous and extraordinary noife in their houfes, the found of which reached the refting place of our party, by whom it was fuppofed, that fome perfon of confequence had been hurt by the fhot fred the preceding evening at the large canoe, and which not improbably had been the occafion of their hafty retreat. In the morning of the 10th they were vifited by an old. Indian man, and a boy, who after receiving fome prefents went about their bufinefs, and our party proceeded to the arm leading to the north-eaft from Stephens's paffage, having its weftern point of entrance, which I hâve called Point Salis: $\operatorname{BURy}$, fituated in latitude $58^{\circ} 11^{\prime}$, longitude $226^{\circ} 3^{\prime}$, in which the great quantity of floating ice, with a ftrong northerly wind againft them, fo retarded their progrefs, that a paffage was with great difficulty effected; the weather here was feverely cold, with frequent lhowers of fleet and rain. From its entrance it extended N. 11 E., about 13 miles, where the fhores fpread to the eaft and weft, and formed a bafon about a league broad, and two leagues acrofs, in a N.W. and S. E. direction, with a fmall illand lying nearly at its north-eaft extremity. From the fliores of this bafon a compact body of ice extended fome diftance nearly all round; and the adjacent region was compofed of a clofe connected continuation of the lofty range of frozen
mountains,
mountains; whore fides, ahnoft perpendicular, were formed entifely of rock, excepting clofe to the water fide, where a few fcattered dwaff pine frces found fufficient foil to regetate in; about there the mointains were wrapped in perpetual froft and fiow. From the rugged gullies in their fides were projected immenfe bodies of ice, that reached perpendicularly to the furface of the water in the bafon, which admitted of no landing place for the boats, but exhibited as dreary and inhofpitable an afpect as the imagination can poffibly fuggeft. The rife and fall of the tide in this fituation was very confiderable, appearing to be upwards of eighteen feet. The examination of this bafon, \&ce engaged the party until near noon of the $f$ Ith, when they returned along, the eaftern hore, which is a continuation of the fame range of lofty mountains rifing abruptly from the water fide; by dark they reached the iffand mentioned on the $\sigma$ th, as lying in the middle of Stephens's paffage ; here they took up their lodging for the niglit, which was very ftormy from the foutheeafward, and attended with a heavy rain. In the morning of the 12 th the wind became more moderate, but the rain continued: with an extremely unpleafant crofs fea, which the violence of the wind during the night had occafioned. This greatly retarded their progrefs down the parige, the eaftern hore of of which was found to be much indented with fmall bays; and to take a general direction from a fpot oppofite to the illand they had quitted S. $\$ 1$ E., about, twelve miles, to a point which I named Pöint Styleman, forming the northweft point of a harbour; fituated in latitude 57 : $53^{\prime}$, longitude $226^{\circ} .22^{\prime}$; the oppofite point of its entrance lying from it S. 33.E., at the diftance of two miles. This harbour, which obtained the name of Port Snettisham, firf extends about a league from its entrance in a north-eaft direčtion, where on each fide the Phores form an extenfive cove, terminated by a fandy beach, with a fine ftream of frefh water. On the northweft fide of entrance is a fmall cove, in which there is alfo a run of water, with an iflet lying before it. The thores are high and fteep, and produce very few trees. Several fmokes were feen, but none of the inhabitants made their appearance. From the fouth point of this port, which I called Point Anmer, the fhore takes a direction S. 29 E., nine or ten miles, to a point, that obtained the name of Point Coke, and which forms the north point of a deep bay, about four miles wide, which I called Holkham Bay; this the party did not reach until the morning of the 13 th, when, nearly in the middle of it, were found three fmall iflands; to the wefternmoft of which a fallow bank cxtended
tended from each fide of the bay, which is bounded by the fill contimued lofty range of mountains. Much floating ice was feen within the iflands. From point Coke, in a direction S. 43 W., two miles and an half, are two rocky inlets, nearly in the middle of the branch, and from the fouth point of this bay, which I called Point Astley, the fhores are very rocky, and contain many fmall open coves, taking a fouthenly direction thirteen miles, to a point which obtained the name of Point Windham, fituated in latitude $57^{\circ} 31^{\prime}$, longitude $236^{\circ} 36^{\prime}$. This point forms the eaftern point of entrance into Stephens's paffage; here they again arrived in the fpacious part of the inlet noticed from point Gambier.

As the party advanced feweral inlets were feen in various directions, and from point Windham, on the eaftern fide, were fome bays; the fhores took a general:direction S: 25 E., twelve miles and an half, to a point named by me Point Новлrt, being the north point of a frall branch, where the party refted for the right, and on the following moming they found its points of entrance to lie from each other N.1LW. and S. in E., about' a league afunder. From its en-: trance it extends S. $\quad$ o 0 , five or fix miles; where it terminated. Some iflets and fanken: rocks lie near its fouth point, which I called Ponnt Watpole: From point Hobart extends a bank of fand a little diftance from the fhore, but there is a clear paffage between it and the iflets, within which, it forms a fnug harbour, with foundings at a confiderable diftance from the fhore from ten to fix fathoms water, fand and muddy bottom. $i$ it is bounded by lofty mountains, and from their bafe extends a fmall border of low land forming the fhores of the harbour, which I called Port Houghton. On quitting this place many rocks were feen along the fhores, which took a direction:S. 12 W., fix miles and a half, to a very confpicuous low projecting point, which obtained the name of $\mathrm{CAPI}_{\mathrm{A}}$ Fanshaw, fituated in Iatitude $5.7^{\circ} 111^{\prime}$, longitude $226^{\circ} 44 \frac{{ }^{\frac{1}{2}}}{}$. Here was feen an old deferted village, and a fpacious branch of the inlet eight miles wide, leading to the eaftward and foutheaft.

From its very extenfive appearance in thefe directions, Mr. Whidbey became: apprehenfive, left their utmoft exertions thould inot enable them to draw their labours to 2 conclufion during his prefent excurion, and for this reafoir he loft no time in proceeding along its northern frore, twhicil from cape Fanmaw takes a direction S. 66 E., fixteen miles, to a low narrow point of land two miles long; and half a mile broad ftretching fouth from thegeneral line of the coaft:
on each fide of it; but this diftance, owing to the badnefs of the weather, and a ftrong gale from the eaftward, was not reached before the 15 th in the afternoon. : At this low point, which I called Point Vandeput; the width of the. branch decreafed to about three miles and anhalf, in a fouth direction, to a fteep bluff point, where; as alfo from this ftation, the fhores of the branch took a more fouthèrly courfe. ' South from this point a fhoal extends about a mile, and on its eaftern fide a fmall bay is formed, from whence the eaftern fhore trends S. 34 E ., feven miles; to another point, where a fhoal ftretches out about three fourths of a mile from the fhore; this prevented the boats approaching the point, although feveral attempts were made, in the hope of gaining fhelter from the inclemency of the weather, but it was to no effect, and the party: was obliged to remain cold, wet, and hun-: gry (having no provifions cookedy in the boats, until the morning of the 16 th; when the wear, ther became fair and cleat, and fhewed their: fituation to be before a fmall extent of low flat land, lying immediately:before the lefty mountains, which here rofe abruptly to a prodigious height immediately behind the border. A few miles to the fouth of this margin the mountains: extended to the water fide where a part of thens
prefented prefented an uncomimonty awful appearance, ufing with an inclimation tewands the water to a raft height, toaded:with an imrarenfe quantity of ice and fnow, and overhanging their bafe, whick fermed to be infuificient ta beay the ponderous fabric it fuitained, and rendered the view of the paffage beneath it, horribly magnificent.

Saon after paffing this very remartable promontory, the arm of the fea over which it hangs: appeared to be entirely clofed by a beach, extending all round the head of it; at the fouthcaft extremity was a large body of ice, formed in a gully between the mountains that approach the water-fide, from whence, mise broken ice feemed to have fallen, and had entirety covered the furface of the water in that direction. From the fouth-sweft corner iffuect a namow ftream of very white water, that feemed to have obtained this appearace by the melting fnow draining: through the tow land that was feen lying in that direction: and as it was confidered not ta benavigable, Mr. Whidbey was anxious to lofe no time in the further extenfion of his refearches. Having nowi been abifent longer than the time: for which the party had been fupplied, and being; diftant upwards of an hundred miles from the veffes, towards: which they had to proceed along: ancoat, the principal part of which might ter, quire
quire a very minute examination; he made the beft of his way back, along the fouthern fhore of the branch.

We became afterwards informed by Mr. Brown of the Jackal, that the above narrow ftream was found, on his fubfequent vifit to this place, to afford a paflage for canoes and boats, and that it communicated with the apparently fhoal inlet that Mr. Johnftone had made feveral unfuccefsful attempts to enter on the 28th of Auguft, 1793. Mr. Brown alfo ftated, that the intervening land which had the appearance of forming the head of the arm between its fouth-eaft and fouth-weft extremities, is an ifland, fituated on a very fhallow bank, which, at the depth of a few feet, connects the two fhores, and at low water fpring tides becomes dry. This may ferve to account for the report of the Indians to Mr. Brown the preceding year, and which he obligingly communicated to me on the 21 ft of July, 1793, refpecting Ewan $\mathrm{Na} / \mathrm{s}$, by which means an inland navigation for canoes and boats is found from the fouthern extremity of Admiralty inlet, in latitude $47^{\circ} 3^{\prime}$, longitude $237^{\circ} 18^{\prime}$, to the northern extremity of Lynn canal, in latitude $59^{\circ} 12^{\prime}$, longitude $22434^{\prime}$. By this information it likewife appeared, that our conclufions at the end of the laft feafon, refpecting cape
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Decifion

34 * A voyage of discotery [august,
Decifion being a continental promontory were not precifely correct, as, by the fhallow boat paffage difcovered by Mr . Brown, that cape is found to be feparated above the level of high water mark from the continent.

Mr. Whidbey obferves, that in no one inftance during his refearches, either in the feveral branches of Prince William's found, in thofe extending from Crofs found, or, in the courfe of his prefent excurfion, did he find any immenfe bodies of ice on the inlands; all thofe which he had feen on fhore, were in the gullies or vallies of the connectet chain of lofty mountains fo frequently mentioned, and which chiefiy conftituted the continental hore from Cook's inlet to this fation; though, in different places thefe mountains are at different diftances from the fea fide. He likewife obferves that all the illands, or groups of illands, were land of a moderate heights when compared with the ftupendous mountains that compofe the continental boundary, and were ftill feen to continue in a fouth-eaftern direction from this fhallow paffage, whilft the land to the weftward affumed a more moderate height, was free fnow, and produced a foreft of lofty pinc trees. Thefe obfervations more particularly applying to the former, than to the fubfequent, part of this furvey, I have, for that reafon, thought
thought proper to introduce them in this place, and thall now refume the fubject of Mr. Whidbey's excurfion.

The day being fair and pleafant, Mr. Whidbey wifhed to embrace this opportunity of drying their wet clothes, putting their arms in order, and giving a thorough cleaning to the boaks, which, from the continual bad weather, had now become an object of real neceffity. For this purpofe the party landed on a commodious beach; but before they had finifhéd their bufinefs a large canoe arrived, containing fome women and children, and fixteen fout Indian men, well appointed with the arms of the country; but without any fire-arms. They behaved in, a very friendly manner on the beach for a little time, but their conduct afterwards put on $x$ very fufpicious appearance; the children withdrew into the woods, and the reft fixed their daggers round their wrifts, and exhibited other indications, not of the mofe friendly nature. To avoid the chance of any thing unpleafant taking place, Mr . Whidbey confidered it moft humane and prudent to depart, and he continued his roite down the branch along its fouth-weft fhore, paffing fome iflets that lie near it. The Indians did the fame, but kept on the oppofite fhore, and in the courfe of a little time the canoe difappeared. In the hope of being quit of thefe people the party ftopped to dine

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$$ near the high bluff obferved from point Vandeput, but before they had finifhed their repaft the fame Indians, who muft have turned back unperceived, for the purpofe of croffing over to follow the boats', were feen coming round the point of the cove in which was the party, and not more than a quarter of a mile from their dinner fation; as the canoe approached a mufket was fired over it, in order to deter the Indians from advancing; but this, as on former occafions, feemed to encourage them, and they appeared to come for ard with more eagernefs, but on a fecond hot being fired at the canoe they inftantIy retreated with all poffible fpeed; and were foon again behind the point: yet as Mr. Whidbey fufpected they might be inelined to attempt by furprife, that whictre they dared not venture to do openly, he haftened the meal of his party, and put off from the fhore; this was fcarcely effected, when his conjectures were proved to have been well founded, by the appearance of a number of armed people iffuing from the woods, exactly at the fpot where our party had dined; and nearly at the fame inftant of time, the canoe was again feen paddling round the point of the cove. $\therefore$ This conduct, on the part of the Indians, greatdy attracted the obfervation of the party, and - whilit they were watching the motions of there poople, their attention was fuddenly and moft

agreeably
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agreeably called to an object of more pleafing concern; that of the boats under Mr. Juhnftone"s direction, coming within fight about two miles diftant.

The ftratagem thus practifed by thefe Indians is alone fufficient to thew, that our apprehenfions on board, for the fafety of our abfent friends, had not been without reafon; and it is one, amongft many other circumftances, which taught me to believe, that we were but juft in time, for the accomplifhment of the arduous and hazardous fervice in which we had been folong éngaged; as the very unjuftifiable conduct of the traders on this coaft, has encouraged the inhabitants to attempt fuch acts of hoftility, that the means we poffeffed to repel their attacks, would, in all probability, have been infufficient for our protection, had it been our lot to have tried the experiment one year later.

On the fight of the two other boats all the Indians difappeared, and our two parties were not long before their forces were united. It was immediately underftood that. Mr. Johnftone had examined the coaft from cape Decifion to this ftation. On this occafion Mr. Whidbey remarks, that it is not poffible for language to defcribe the joy that was manifefted in every countenance, on thus meeting their comrades and fellow-adventurers, by which happy circumD 3 ftance'

the faid continent, from New Georgia northweftward to cape Spencer, as alfo, of all the adjacent iflands we had difcovered within thofe limits; in the name of, and for, His Britannie Majefty, his heirs, and fucceffors: this, on the parties fopping to dine, was carried into execution; the colours were difplayed, the boats' crews drawn up under arms, and poffeffion taken under the difcharge of three vollies of mufketry; with all the other formalities ufual on fuch occafions, and a double allowance of grog was ferved to the refpective crews, for the purpofe of drinking His Majefty's health. The happy meeting of the two parties, having taken place on the birth-day of His Royal Highnefs Frederick Duke of York, the found in which they met I honored with the name of PrinceFredericic's Sound, and the adjacent continent, north-weftward from New Cornwall to Crofs found, with that of NEw Norfolk.

From hence the boats made the beft of their way to the veffels, without any particular occurrence, until they arrived at port Conclufion, when the wind blowing very hard from the fouthward, brought with it a heary confufed fea, which, with the meeting of the tides, produced a kind of race. Here the boats, for fome time, were in a moft critical fituation, but by the great exertions of their crews, they were at length preD4. : ferved

weft of it. North from hence, three miles and an half, and then N. N. E. about the fame diftance, is the fouth point of a large bay, full of innumerable inlets and rocks, with a great number of very fmall branches in various directions; its examination occupied much time, and its fouthern extremity reached to the latitude of $56^{\circ}$ $15^{\prime}$, longitude $226^{\circ} 15^{\prime}$; its eaftern branch to laticude $E 6^{\circ} 28^{\prime}$, longitude $226^{\circ} 18^{\prime}$; and its northern extremity to latitude $56^{\circ} 33^{\prime}$, longitude $226^{\circ} 12^{\prime}$. Between the two latter the party met with about a dozen of the natives, who occupied a fingle habitation on the fhore, and were the firft people Mr. Johnftone's party had feen on this expedition. The 5 th was very ftormy, with much rain, but the 6 th was fair and pleafant, which enabled them to finifh the examination of this intricate found, and in the evening they reached its north-weft point of entrance, which I called Poiny Ellis, where they remained during the night. It is fituated in latitude $50^{\circ}$ $31^{\prime}$, longitude $225^{\circ} 56^{\prime}$. This alfo forms the fouth-eaft point of another fmall inlet, which is equally intricate, and as much incommoded with iflets and rocks. The examination of this employed the whole of the 7 th. It forms a narrow arm, extending from point Ellis N. 50 E. for ten miles, where it terminates. Here they found a fingle houfe, fimilar to that before mentioned, and
 and containing about as many inhabitants. From hence they returned along the northern fide of this arm, from half a mile to half a league in width, and about feven miles from its head to its north point, which forms alfo the fouth point of a bay or inlet, full of inlets and rocks, the north point of which, called by me Point Sullivan, lies in latitude $50^{\circ} 38^{\prime}$, longitude $225^{\circ} 51 \frac{\frac{1}{2}^{\prime}}{}$. From point Sullivan the fhores were lefs rocky, and became firm and compact, taking a direction N. 9 W . thirteen miles, to a confpicuous point, which after Vice Admiral Kingfmill, obtained the name of Point Kingsmill. From this point, which is the fouth point of the fpacious inlet, up which Mr. Whidbey had purfued his refearches to the north-eaftward; the flores trended N. 47 E. fix miles and a half to another point, which I called Point Cornwallis, and which forms the fouth-weft point of entrance into an arm leading to the fouth-eaft. The fpace between thefe two points is occupied by two bays, each taking a fouth-eafterly direction, from a mile to half a league wide, and four or five miles deep, in which as ufual along the coaft. were many iflets and dangerous rocks. The examination to this extent, employed the party until the 10th in the morning, when they quitted the main inlet, and purfued the arm leading to the fouth-eaftward, which firft took a direction
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tion S. 68 E . for nine miles, and then S. 26 E . for feven miles and a half further; here a branch was entered about half a league wide, that took aS.S.W. direction for about èight miles, where it terminated in latitude $56^{\circ} 38 \frac{{ }^{\frac{1}{2}}}{}$. The fhores of the fouthern parts of this branch, which I have diftinguifhed by the name of Port Camden, are pretty free from illets and rocks, but thofe to the north-weft of it, are lined with them, and render the approaching of it extremely dangerous. The termination of this branch reaches in a north and fouth direction, within about two miles of the north-eaft extent of the fmall inlet which the party had examined on the 7 th, and in the fame line, within about four miles of the northern part of that which had engaged them on the 5th and 6 th. So very tedioufly and flowly were our refearches carried into effect in this very broken and extraordinary region!

At the head of the laft mentioned branch was a fmall Indian village confifting of three houfes, and containing about forty or fifty perfons. On meeting fome of the Indians here who had been feen in the fouthern branches, it gave rife to an opinion, that fome fmall paffage exifted which had efcaped the notice of the party; but this Mr . Johnftone obferves was foon explained by the Indions who took up their canoe, and pointing to a fmall valley in a foutherly direction, made made figns that could not be miftaken, that they had walked, and had brought their canoe, over the ifthmus. The next morning, although very wet and hazy, they returned along the eaftern fide of this arm, and paffed its north-eaft point, which from the head lies about N. N. E. at the diftance of about four leagues, near which are fome rocks. The party immediately entered another branch, about the fame breadth, which took firft a direction S. 68 E. for about five miles, and then turned irregularly round to the fouthward. The weather being clear about noon, the obferved latitude was found to be $50^{\circ} 42^{\prime}$, longitude $220^{\circ} 25^{\prime}$. The branch in which they had thus advanced, although two fhallow and rocky for the paffage of any veffels larger than boats or canoes, and even for them intricate and dangerous, would not have been further examined, had not the tide been found running in a very contrary direction, to that which had been obferved at its entrance, the flood tide here fetting to the northward. This circumftance gave rife to an opinion, that this branch would be found to communicate with the main inlet they had left under Mr. Whidbey's examination extending to the north-eaft; and fhould it make the intermediate very broken land an ifland, it would greatly facilitate their furvey of what they fup: pofed to be the continental fhore.

This

This hope induced Mr. Johnftone to perfevere, but inftead of the channel ftretching to the eaftward as it was winhed, and expected to do, it extended to the weftward of fouth, and communicated with a bay in the north-weft part of Clarence's ftrait, which had been examined by Mr. Johnftone on the 11 th of September, $1 / 93$; but this communication was not at that time afcertained, in confequence of the numerous iflets, rocks, and fhoals, that exift in that bay, and render:it intirely unnaxigable: for flipping. The party now diftinctly faw port Protection and the adjacent fhores, and having taken the neceffary angles that their further furvey would demand, they returned by the way they had arrived; but the progrefs of the boats was rendered very fiow by the numberlefs rocks and inets, and the examination of the fevcral little bays into which the fhores werc broken. To the eaftward were feen high diftant mountains covered with frow, but the land in their neighbourhood was, comparatively fpeaking, low, of a very uneven furface, much divided by water, and covered with wood. Mr. Johnftone unwilling to loofe any advantage that prefented itfelf, ftopped but a. hort time on the night of the 12th, in order that he might take the benefit of the flood the next morning, which returning about half after one, they proseeded with it clofe along the eaftern fhote round every cove and corner; for they could not by any other mode have determined its boundary, as they were at this time furrounded by a very thick fog, that obfcured every diftant object until about ten in the forenoon, when a frefh wefterly breeze brought fair and clear weather, and difcovered their fituation to be near the weft point of a fmall branch, in latitude $56^{\circ} 50^{\prime}$, longitude $226^{\circ}$ 16'. The adjacent fhores in all directions, but particularly to the north-weft, were lined with iflets and rocks, that extended nearly two miles into the opening, which was here about two leagues acrofs.

This branch about a mile wide ftretched about five miles in an eaftwardly direction, and there it terminated; but before the party had reached this extent, Mr. Johnftone ftates, that the remains of no lefs than eight deferted villages were feen; fome of them were more decayed than the others, but they were all uniformly fituated on the fummit of fome precipice, or fteep infular rock, rendered by nature almoft inacceffible, and by art and great labour made a ftrong defence; which proved, that the inhabitants had been fubject to the incurfions of hoftile vifitors. Thefe fortified places were well conftructed with a ftrong platform of wood, laid on the moft elevated part of the rock, and projecting fo far from its fides as to overfpread the declivity. The edge of
the platform was furrounded by a barricade raifed by logs of wood placed on each other. In the vicinity of thefe ruins were many fepulchres or tombs, in which dead bodies were depofited. Thefe were made with a degree of neatnefs feldom exhibited in the building of their habitations. A wooden frame was raifed about ten feet from the ground, the upper half of which was inclofed, and in the open part below in many, though not in all of them, was placed a canoe; the flooring of the upper part was about five feet from the ground, and above that the fides and top were intirely clofed in with boards, within which were human bodies in boxes wrapped up in 1 kins or in matting. Thefe repofitories of the dead, were of different fizes, and fome of them contained more bodies than the others; in the largeft there were not more than four or five, lying by the fide of each other, not one appearing to be placed above the reft; they were generally found near the water fide, and very frequently on fome confpicuous point. Many of thefe facred monuments feemed to have been erected a great length of time, and the moft ancient of them had evidently been repaired and ftrengthened by additional fupporters of more modern workmanihip. Hence it would appear, that whatever might be the enmity that exifted between the fereral tribes when living, their re-

with their native weapons, Mr. Johnftone did not impute to them any hoftile intention, but attributed the ardour with which they had ftriven to join our party, to a defire of bartering away their fea otter fkins, of which they appeared to have many, for European commodities. The fituation of the party on this occafion was in a very confined place, and being furrounded by fuch a tribe of armed Indians, with reafon to apprehend there might be others at no great dif. tance, it became prudent to avoid, if poffible, a nearer intercourfe, by which alone the true firit of their defign could have been known, and in which they muft have been greatly interefted, as they continued to follow the boats, until after they had gained a more open fituation. One of the canoes now advanced before the reft, in which a chief ftood in the middle of it, plucking the white feathers from the rump of an eagle; and blowing them into the air, accompanied by fongs and other expreffions, which were received as tokens of peace and friendihip. The canoe was now permitted to come alongfide Mr. Johnftone's boat, to whom the chief inftantly prefented a fea otter fkin, for which Mr. Johnitone made him a fuitable return, with every expreffion likely to be underftood of his pacific difpofition; the Indians feemed to be fincere in their proferfions alfo, as they now came to the boats unVol. VI. E armed, armed, and with the utmoft confidence in their fecurity. Expreffions of mutual friendfhip were now exchanged, and on its being fignified to the chief, that as night was approaching the canoes fhould no longer follow the boats, he returned to the reft of his countrymen; but they ftill continued to paddle after our boats until a mufket or two were difcharged, when they all dropped a-ftern and were no more feen.

However fatisfactory the latter part of the natives' conduct may appear to be, as to their friendly intentions, yet a diftruft which prudence on fuch occafions ought always to fuggeft, induced Mr. Johnftone to proceed as far as he conveniently could before he ftopped for the night; but as the fhore was quite fteep and compact they continued to row until after midnight, when they came to a grapriel, and refted in the boats. This day had proved extremely fatiguing to the people, as they had been nearly the whole of the twenty-four hours on their oars. In this route they had reached the main arm of Prince Frederick's found, and had found the fhores to form oa large rounding, though not lofty promontory, in which were feveral fmall open bays, and near it feveral detached rocks. This promontory obtained the name of Point Macartney, the weftern extremity of which is fituated in latitude $57^{\circ} 1^{\frac{1}{2}}$; longitude $226^{\circ} 12^{\prime}$. From hence
the fhore trends N. J5.E. about a league, where the width of the found is about feven miles acrofs, in a direction N. 47 W . to point Nepean. From this ftation N. 28 E., at the diftance of about a league and a half lies a fmall ifland, with patches of rocks from this point reaching nearly to its fhores. The promontory ftill took a rounding direction about N. 65 E., five miles further, from whence the fouthern thore of the found cxtends N. 75 E . feventeen miles, to the weft point of a fmall cove, the only opening in the Chore from point Macartney; but off the little projecting points between this cove and that point, are detached rocks lying at no great diftance from the fhore. This extent was not reached until the afternoon of the 16 th, in confequence of the wind blowing hard from the eaftward, attended with a heavy rain, againft which they contended with their utmoft exertions, left the exhaufted ftate of their provifions fhould oblige them to retire before they could join the other party. This cove extended S. 34 E. about a league, where it terminated, and according to our furvey, formed a narrow ifthmus between it and the head of Duncan's channel, about two miles acrofs in a northern direction; and is another ftriking inftance of the very extenfive, and extraordinary infular ftate of the region lying before the weftern coaft of the E 2 American

American continent, between the 47 th and 59 th degrees of north latitude.

Having dined, the party refumed their furvey along the fouthern fide of the found, which took nearly an eaft direction. They had not far advanced, when about five in the evening they had the joyful fatisfaction of meeting Mr. Whidbey and his party as before recited.

Mr. Johnftone ftated, that the part of the coaft that had claimed his attention during his laft excurfion is a peninfula, connected with the more eaftern land by the laft mentioned narrow ifthmus, and that it is by no means fo high or mountainous as the land compofing the adjacent countries on the oppofite or north-eaftern fide of the found, which at no great diftance confifted of very lofty, rugged, dreary, barren mountains, covered with ice and fnow; but that the land compofing the peninfula was chiefly of moderate height, and produced a noble foreft of large and ftately pine trees of clean and ftraight growth, amongft which were a few berry burhes and fome alders. The fhores along the bays and arms they had vifited were in general low, and prefented a probability that if the wood were cleared away, the foil of the country might be advantageounly employed under cultivation. Thefe bays and arms abounded with a greater number of falmon and fea otters, than My. Johnftone
ftone had obferved on any other part of the coaft ; and as they were found in the greateft abundance at the heads of thofe places, it was inferred that falmon, and other fmall fifh, form a large proportion of the food of the fea otters, which are thus induced to frequent thefe inland channels, to which at this feafon of the year fuch fifhes refort.

Mr . Whidbey in his obfervations on Admiralty illand, remarks, that notwithftanding this ifland feemed to be compofed of a rocky fubftance covered with little foil, and that chiefly confifting of vegetables in an imperfect fate of diffolution, yet like the peninfula juft adverted to, it produced timber, which he confidered as fuperior to any he had before noticed on this fide of America. He alfo ftates, that in his two laft excurfions feveral places were feen, where the ocean was evidently incroaching very rapidly on the land, and that the low borders extending from the bafe of the mountains to the fea fide, had, at no very remóte period of time, produced tall and ftately timber; as many of their dead trunks were found ftanding erect, and ftill rooted faft in the ground, in different ftages of decay; thofe being the moft perfect that had been the leaft fubject to the influence of the falt water, by which they were furrounded on every flood tide: fuch had been the incroachment of the ocean on thefe fhores, that the fhorter ftumps in fome inftances at low water mark, were even with, or below the furface of the fea.
'This fame appearance has been noticed before in port Chalmers, and on this occafion Mr. Whidbey quotes other inftances of fimilar incroachments not only in Prince William's found, but alfo in Cook's inlet; where he obferved fimilar effects on the fhores, and is of opinion from thefe evidences, that the fhallow banks occupying fo large a part of Gray's harbour, have recently been produced by the operation of one and the fame caufe $:$ and it is not lefs reafonable to conclude, that the waters of the North Pacific, have, poffibly for ages, had a general tendency to produce the fame effect, on all the coaft comprehended within the limits before mentioned.

A return of fair and clear weather on the 18 th enabled them to fee that large traç of broken land lying between Crofs found and cape Om maney, which has been defcribed as having a range of high mountains capped with fnow extending through it; but from thefe fill continuing to have the appearance of being difunited in feveral places, it tended to corroborate our former opinion; and although as before we had not had an opportunity of afcertaining the fact, I have been induced to confider the country as
being
being divided into many iflands, and have for that reafon termed it an archipelago. The ftrait that feparates this land from the eaftern thore, which after Lord Chatham, I have called Chatham Strait, Mr. Whidbey confiders as likely to be one of the moft profitable places for procuring the fkins of the fea otter, on the whole coaft; not only from the abundance obferved in the poffeffion of the natives, but from the immenfe number of thofe animals, feen about the fhores in all directions. Here the fea otters were in fuch plenty that it was eafily in the power of the natives to procure as many as they chofe to be at the trouble of taking. I was alfo given to underftand by Mr. Brown of the Jackal, who followed us through thefe regions, that the fea otter's fkins which he procured there were of an extremely fine quality.

The principal object which His Majefty appears to have had in view, in directing the undertaking of this voyage having at length been completed, I truft the precifion with which the furvey of the coaft of North Weft America has been carried into effect, will remove every doubt, and fet afide every opinion of a north-weft paff. Sage, or any water communication navigable for Thipping, exifting between the North Pacific, and the interior of the American continent, within the limits of our refearches. The difcovery that
no fuch communication does exift has been zealounly purfued, and with a degrec of minutenefs far exceeding the letter of my commiffion or inftructions; in this refpect I might poffibly have incurred the cenfure of difobedience, had I not been intrufted with the moft liberal, difcretionary orders, as being the fitteft and moft likely means of attaining the important end in queftion.

The very detached and broken region that lies before fo large a portion of, this coaft, rendered a minute examination altogether unavoidable : this had frequently the good effect of facilitating the labours of our furvey, by its leading us through narrow, fhallow, intricate channels, which cut off extenfive tracts of broken land, and by thus fhewing their feparation from the continent, their further examination became unimportant to the object of our inquiry.

For this reafon I have confidercd it cffential to the illuftration of our furvey, to ftate very exactly not only the track of the veffels when navigating thefe regions, but likewife thofe of the boats when fo employed, as well when I was prefent myfelf, as when they were conducted by Mr. Whidbey or Mr. Johnftone, on whom the execution of that laborious and dangerous fervice principally fell, and to whom I feel myfelf indebted for the zeal with which they engaged in
it on all occafions. The perufal of thefe parts of our voyage to perfons not particularly interefted, I am confcious will afford but little entertainment ; yet I have been induced to, give a detailed account, inftead of an abftract, of our proceedings, for the purpofe of illuftrating the charts accompanying this journal; of fhewing the manner in which our time day by day had been employed; and, for the additional purpofe, of making the hiftory of our tramfactions on the north-weft coaft of America, as conclufive as poffible, againit all fpeculative opinions refpecting the exiftence of a hyperborean. or mediterranean ocean within the limits of our furvey.

I fhall now conchude the account of our tranfactions at this place by the infertion of fuch aftronomical and nautical obfervations as were made during the time we paffed at this ftation.

On the 2d of Auguft in port Conclufion the chronometers thew the following longitudes, viz. Arnold's No. 14, $225^{\circ} 37^{\prime}$; Arnold's No. 176, $225^{\circ} 38^{\prime}$; and Kendall's, $225^{\circ} 34^{\prime} 30^{\prime \prime}$; the true longitude being $225^{\circ} 37^{\prime} 30^{\prime \prime}$, it appeared that Arnold's No. 14 was $30^{\prime}$ to the weftward, Arnold's No. 176, $30^{\prime}$ to the eaftward, and Kendall's $2^{\prime} 30^{\prime \prime}$ to the weftward of the true longitude.

By eighteen fets of obfervations taken between the 2 d and 18 th of Auguft on fhore with the artificial artificial horizon, Arnold's No. 14 was found to be faft of mean time at Greenwich at noon on the 18th of Auguft - $4^{\mathrm{h}} 38^{\prime} 13^{\prime \prime} 30^{i \prime}$ And to be gaining on mean time per day at the rate of, 2400
Arnold's No. 176, faft of meantime at Greenwich on ditto 10133300
And gaining per day at the rate of, $\qquad$ 4937
Kendall's faft of mean time at Greenwich on ditto $\quad 983000$
And gaining per day at the rate of, - - 2611
The mean variation by two compaffes and eighteen fets of obfervations, differing from $24^{\circ} 9^{\prime}$ to $27^{\circ} 10^{\prime}$, was - $25^{\circ} 30^{\prime}$
The latitude of the place of obfervation by four meridional altitudes, taken on fhore with the artificial horizon - $\quad 561455$

## BOOK THE SIXTH.

PASSAGE TO THE SOUTHWARD AIONG THE WESTER COAST OF AMERICA; DOUBLE CAPE HORN; TOUCH At St. helena; arrive in england.

## CHAPTERI.

Depart from Port Conclufion-Arrival at NootkaTranfactions there-Vijit Maquinna at Tah-Gheis-Aftronomical Obfervations for correEZing the Survey between Cape Douglas and Cape Decizion.

THE preparations that had been made for our departing immediately on the return of the boats, proved of little importance, as the S. E. gale which commenced on the day of their arrival, continued with little variation to blow very violently from the direction in which I purpofed to fteer, attended with very heavy rain, and thick foggy weather until Friday the 22d in the evening, when the atmofphere became fomewhat clearer, and the wind more moderate. Although it continued to be contrary to our purfuit, yet being completely tired of remaining in this inactive folitary fituation, I determined to put to fea, and with the Chatham departed from port Conclufion. We plied towards the ocean,
but made little progrefs, as we were ftill attended by adverfe winds and thick foggy weather.

It was not until the morning of Sunday the 24th that we reached the open ocean, in accomplifhing of which, we were in imminent danger of lofing the veffels about twelve o'clock the preceding night, by being driven on cape Ommaney. The faint variable winds, and the great irregularity of the tides, fat us fo near to that promontory, and the rock that lies near it, that it required our utmoft efforts in towing to keep the veffels off from the land, and confequently from the inevitable deftruction that muft have followed. A very heavy weftern fwell at this time broke with great fury not-half a mile from us; and as no anchorage, or even bottom could be found, our fituation for fome time was moft ferioully alarming; from which however, we were moft providentially extricated, by a gentle breeze fringing up from the $\mathrm{N} . \mathrm{W}$. when in the moft peiilous and critical fate that can be imagined.

This breeze by two in the morning, enabled us to gain a fufficient diftance from the fhore, to allow the boats, which had been employed in towing the fhip from the rocks, to be taken on board. In the execution of this bufinefs we had the misfortune of lofing Ifaac Wooden, one of the cutter's crew, who unfortunately fell overboard;
board; and although a boat was inftantly fent to his affiftance, yet as he was no fwimmer, and as in falling he unluckily ftruck his head againft the boat's gunwale, he funk fo immediately that no help could be afforded him. This poor fellow had affifted in moft of the boat excurfions, was highly regarded by his comrades, and much regretted by his officers; in fhort, he was a good man, and an active failor ; and to commemorate his unexpected and melancholy fate, I named the rock which lies off cape Ommaney, Wooden's Rоск.

At day-light we had a frefh gale from the N. W. and having now finally accomplifhed fo much of my commiffion, as appertained to the difcovery of any navigable water communication, from the North Pacific into the interior of the American continent, my attention became directed to the adjuftment of thofe differences that had arifen in my negociation with Sen ${ }^{\text {r. }}$ Quadra as to the ceffion of Nootka; under the idea that a fufficient time had now elapfed, fince the departure of Lieutenant Broughton, for the arrival of the neceffary inftructions at that place, by which I might be enabled to regulate my future conduct, with refpect to the reftitution of thofe territories to the dominion of our Moft Gracious Sovereign.

In this expectation our courfe was directed fouth-eaftward towards Nootka, paffing about three leagues to the weftward of the Hazy iflands; thefe form a group of fmall rocky inlets a league in extent, lying S. 7 E . at the diftance of 10 leagues from cape Ommaney; S. 62 W . from cape Decifion; and three leagues weft from Coronation inland, which is the neareft land to them. At noon the fouthernmoft land in fight, being cape de St. Bartolom, forming the north point of entrance into Puerto del Baylio Bucareli, and difcovered by $\mathrm{Scn}^{r}$ Quadra in 1775, bore by compafs S. 87 E .; the neareft fhore was a confpicuous promontory, which I diftinguifhed by the name of Cape Addington after the fpeaker of the Houfe of Commons, N. 73 E., diftant four or five leagues; Warren's ifland in the entrance of Clarence's ftrait, N. 9 E.; mount Calder, N. 1 E.; Coronation ifland from N. 13 W . to N. 30 W. ; and cape Ommaney, N. 44 W . In this fituation the obferved latitude was $55^{\circ}$ $29 \frac{r^{\prime}}{2}$, and the longitude, agreeably to the pofition of feveral confpicuous ftations as fixed by former obfervations, and now very accurately correfponding, was found to be $225^{\circ} 58^{\prime}$; but by the chronometers, allowing their rate and error as afcertained at port Conclufion, the longitude was by Kendall's chronometer $226^{\circ} 4^{\prime}$, by Àrnold's No. 14, $226^{\circ} 3^{\prime} 45^{\prime \prime}$, and by No. $176,226^{\circ} 15^{\prime} 30^{\prime \prime}$;
hence
hence it would appear, that fome alteration in their rate of going had taken place fince the laft obfervations were made in port Conclufion, on the evening of the 18th; and particularly in No. 176 , which it is neceffary to remark, had been there taken on fhore for the purpofe of obfervation.

In the afternoon we paffed cape del St. Bartolom, which, according to our obfervations, is fituated in latitude $55^{\circ} 122^{\frac{\pi}{2}}$, longitude $226^{\circ} 34^{\prime}$. From this cape, in a direction S. 21 E. at the diftance of 14 miles, and 12 miles from the neareft part of the contiguous fhore, lies a very low flat rocky illet, furrounded by rocks and breakers, that extend fome diftance from it; from thefe circumftances, and from its being fo far diftant from the main land, it is rendered one of the moft dangerous impediments to navigation that we had met with on the exterior coaft; and hence it obtained the name of the Wolf Rock. S. 11 W. from this rock, at the diftance of three leagues, lies a fmall high inland, named by Mr. Dixon, Forrefter's Ifland; between thefe we paffed, and fo far as we became acquainted with the channel, it appeared to be clear and free from interruption.

After paffing Forrefter's ifland (Monday 25) our courfe was directed towards the north-weft point of Queen Charlotte's illands, with an in-

## tention

 tention of examining their exterior coaft, for the purpofe of correcting any error that might have occurred in our former furvey; but this we were unable to accomplifh, on account of the thick hazy or foggy weather which for the moft part obfcured the land from our view, and when vifible, it was feen but indiftinctly. This weather was attended by calms, or light variable winds, fo adverfe to our purfuit, that it was not until Monday the 1 ft of September, that we gained fight of the wefternmoft of Scot's inlands. At noon this ifland bore by compafs N. 8 E. and our obferved latitude being $50^{\circ} 21^{\prime}$, fhewed the longitude to be $230^{\circ} 35^{\prime}$; but by the chronometers allowing the rate as before ftated, Kendall's chronometer gave $230^{\circ} 46^{\prime} 45^{\prime \prime}$; Arnold's No. $14,230^{\circ} 45^{\prime} 45^{\prime \prime}$; and No. $176,231^{\circ} 0^{\prime} 15^{\prime \prime}$. Now, although we were not pofitively certain as to the identical part of the inland to which thefe calculations applied, (it being but juft vifible in the horizon) yet, concluding the longitude as had been afcertained by its bearings, and the obferved latitude of the fhip to be moft correct: the former opinion, that the chronometers had varied fince our laft obfervations by them in port Conclufion, was now very much ftrengthened, as we were thoroughly convinced that no error, either in making the prefent or any of the former obfervations, had taken place; the moft parti-. cularcular care and attention having ever been obferved throughout the whole voyage on all fuch occafions.

The wind at N. W. gradually increafed to a gentle gale, accompanied by clear and pleafant weather, which brought us by fix in the evening of the following day, Tuefday the 2d, to an anchor in Friendly cove, Nootka found ; here we found His Catholic Majefty's armed veffels the Princiffa, Aranfafu, and the St. Carlos, belonging to the eftablifhment at St. Blas, with the Phoenix bark, commanded by Mr. Hugh Moor, from Bengal; the floop Prince le Boo, one of Mr. Brown's fquadron, commanded by Mr. Gordon from China, who had been employed in collecting furs during the fummer upon this coaft, moftly to the northward of Nootka; befide thefe Englifh traders, was the Wafhington, J. Kendrick, commander, of Bofton in America; whe had been employed in the fame purfuit, but whofe veffel was now under repair.

The Princiffa commanded by Sen ${ }^{r}$ Fidalgo had arrived from St. Blas only the day before, and had brought hither Brigadier General Don Jofe Manuel Alava, colonel of the regiment of Puebla, and governor of Nootka.

The appointment of this gentleman as governor of Nootka had taken place in confequence of the death of our highly valuable and much VoL. VI. F efteemed of March had died at St. Blas, univerfally lamented. Having endeavoured, on a former occafion, to point out the degree of admiration and refpect with which the conduct of Sen ${ }^{r}$ Quadra towards our little community had impreffed us during his life, I cannot refrain, now that he is no more, from rendering that juftice to his memory to which it is fo amply intitled, by ftating, that the unexpected melancholy event of his deceafe operated on the minds of us all, in a way more eafily to be imagined than defcribed; and whilft it excited our moft grateful acknowledgments, it produced the deepeft regret for the lofs of a character fo amiable, and fo truly ornamental to civil fociety.

The Difcovery having in the courfe of the day greatly outfailed the Chatham, the latter did not arrive until after dark; for this reafon, our formal vifit to the goyernor was deferred until the day following. Mr. Puget had come down the coaft from Woody point, much nearer to the fhore than we had done; and from him I learned that between the entrance of the found, and the breakers which arre about feven or eight miles to the weftward of it, he had met with much feaweed; growing about two miles from the fhore in very irregular depths of water, from five to ten fathoms, rocky bottom, until within about two miles of Friendly cove, when the fea-weed difappeared, and the depth of water greatly increafed.

On Wednefday morning the 3d; we waited upon the governor, who ftill refided on board the Princiffa, where we were received by him and Sen ${ }^{r}$ Fidalgo with marks of the moft polite and friendly attention. I was foon given to underftand by Sen ${ }^{\text {r Alava, that his appointment to this }}$ government had taken place as above ftated for the particular purpofe of finifhing the pending negociation, refpecting the ceffion of there territories; which, in confequence of the different conftruction put on the firft article of the Spanifh convention, of the twenty-eighth of October 1790, by the late Sen ${ }^{\text {r }}$ Quadra and myfelf, had, fince the month of September 1792, been intirely. fufpended. The prefent governor however was ftill unprovided with the credentials neceffary for finifhing this bufinefs; but on his departure from St. Blas in June, thefe documents were hourly expected, and a veffel was waiting there in readinefs to be difpatched to this port, provided they arrived in time for her reaching Nootka on or before the 15 th of October; but in the event of her not being able to effect a paffage by that time, the was to repair to Monterrey. In confequence of this arrangement Sen ${ }^{r}$ Alava purpofed to remain here until that period fhould arrive; F 2 and
and as no communication from England, either of a public or private nature, had yet reached me, I confidered it to be highly probable, that a duplicate of my inftructions for the like purpore might be tranfmitted by the fame conveyance.

Under this impreffion, and the confideration of many other circumftances relative to the fituation of both veffels, I thought it moft advifeable to determine on remaining till that period with Sen ${ }^{\text {r }}$ Alava; indeed it was not very likely, from the various important duties we had now to execute, with the inadequate means we poffeffed for doing fo, that we fhould be enabled to proceed much before that time. Our ftore of cordage was completely exhaufted, nor had we a fathom of rope but what was then in ufe; the whole of it was much worn, and had been fpliced in feveral places, and therefore it became neceffary to contrive fome means for procuring a fupply before we could venture to fea again. The quantity which our Spanimh friends, or the trading veffels in this port, were likely to afford us, was very inadequate to our neceffities, which obliged us to refort to the expedient of converting fome of our cables into cordage. This would neceffarily prove a tedious bufinefs, efpecially as we had to conftruct a machine for that purpofe. The Chatham was not only in a fimilar predicament with refpect to cordage, but fhe required caulk-
ing, and immediate repair in fome of her plank, that was found to be rotten. Both veffels demanded many fpars to be cut and prepared; the fails and cafks ftood in need of great repair; and it had become effentially important, that the obfervatory fhould be erected on fhore, for the purpofe of afcertaining more pofitively the rate and error of our chironometers, in order to correct our furvey from cape Douglas to cape Decifion'; for notwithftanding that I had little doubt in my own mind of the mode that had been purfued, yet I was fenfible that correfponding obfervations at this place would be very fatisfactory.

With thefe objects in contemplation; our time was not likely to be unprofitably employed; and although I would gladly have poftponed the execution of thefe feveral tafks until our arrival in a more fouthern clime, where we had reafon to believe the weather would be more favorable to our wifhes, and where the neceffary refrefhments of which we all ftood fo much in need, might have been procured in great abundance; yet it would have been highly indifcreet, and extremely dangerous, for the veffels to have put to fea again, until a fupply of cordage could be provided. In addition to this, other circumftances feemed to demand, that I hould remain within the reach of any difpatches that might have been forwarded through New Spain; which could only be done ern Spanifh fettlements, where we fhould lofe the advantage of procuring the fpars and plank which were now required; and as moft of our bufinefs muft have been ill executed on board the veffels, I felt little encouragement, when I reflected on the treatment we had experienced the preceding year from the acting governor of California, to expect being indulged with permiffion for performing it on thore, in any of the ports under his jurifdiction.

Thefe weighty confiderations induced me to refolve on continuing at Nootka until all our important operations were completed; and if in the mean time I flould receive any inftructions for the government of my conduct, as to the reftitution of thefe territories, by the expected Spanifh packet, or by any other conveyance, I fhould be upon the fpot to act with Sen Alava as the nature of my orders might require.

I took an early opportunity of reprefenting to Sen $^{r}$ Alaya our neceffitous condition, and requefted his permiffion to erect our obfervatory and tents on fhore. To this requeft he gave his moft hearty concurrence, and feemed very earneftly to regret, that the ftate of their eftablifhment precluded him from adminiftering to our wants in that effectual manner, to which he was prompted by his inclinations.

Sen ${ }^{r}$ Saavadra, who had remained in charge of Nootka fince our former vifit, joined our party onboard the Princiffa, where the day paffed in making inquiries about the civilized world, and indeploring the turbulent and unhappy ftate of Eu-: rope. The melancholy circumftances that had been detailed by Mr. Brown, were now confirmed by thefe gentlemen to the clofe of the year 1793 ; and we became much concerned by the events that had happened, and alarmed at the fatal confequences which it was natural to fuppofe they muft produce.

The weather was gloomy with continual rain, but it did not prevent Maquinna and Clewpaneloo, with fome other chiefs, and a few of the natives, from vifiting the veffels. The two former received fuch compliments as were fuitable to their rank, with which they were highly fatisfied; and the latter difpofed of a fcanty fupply of finh at a very exorbitant price. Finh had become of great value amongft thefe people, as, either from the badnefs of the feafon during the preceding fummer, or from their neglect and inattention in providing their ufual fupply for the winter, they had experienced the greateft diftrefs for want of provifions during that period; and had not Sen ${ }^{\text {r }}$ Saavadra adminiftered to their relief, many of them would probably have fallen a facrifice to the fcarcity, And although the provident care

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he had taken was inadequate to all that was demanded of him, yet the affiftance he had, been able to afford them, was, much to the credit of the natives, acknowledged by them with the moft grateful expreffions.

The governor, Sen ${ }^{\text {re }}$ Fidalgo, Saavadra, and fome others of the Spanifh officers, honored us with a return of our vifit on Thurfday morning the 4 th ; but in confequence of our reduced ftock of powder, I was under the neceffity of declining the ufual ceremony of faluting, which was very politely excufed and difpenfed with by the whole party:

The weather continued very rainy and unpleafant until Saturday morning the 6th, when the clouds difperfed with a breeze from the weftward, and the weather became clear and agreeable. The tents, obfervatory, and inftruments, were now fet on fhore; the fails dried and unbent, and our various fervices were put in a train for execution, in which we were affifted by fome Spanifh caulkers and carpenters, who were employed on board the Chatham; and on Monday following, the 8th, having conftructed a machine, we began making rope from the materials of a new bower cable.

Whilit the wind continued in the weftern quarter, it regularly died away every evening; and though the night light airs prevailed from
the land, which were fucceeded by the refrefhing wefterly breeze from the fea in the day time, accompanied by cheerful pleafant weather; which, with the advantage of the fociety we here met, made our time pafs as agreeably as could well be expected in thefe rude and diftant regions.

On Wednefday the 10th the wind again blew frefh from the S. E. and exhibited another of the very rare inftances of lightning and thunder in this country, which with torrents of rain continued moft of the night.

The wind returned again to the weftward on Thurday evening the 11 th, and brought with it fair and pleafant weather; with which the Aranfafu failed for Sc . Blas, and through $\mathrm{Sen}^{r}$ Alava's civility, I tranfmitted by this opportunity a letter to the Admiralty, ftating our having accomplifhed the furvey of North Weft America, and the expectation I was in of receiving their final inftructions for the accomplifhment of the other objects of my commiffion.

Both wind and weather, as might reafonably be expected on the approach of the autumnal equinox, became now very changeable; on the 13th the atmofphere was dark and gloomy, with drifting howers; and the wind from the S. E., which in the afternoon fuddenly fhifted to the N. E., blew in heavy fqualls, accompanied by a
very heavy fall of rain. Notwithftanding that the wind came directly from the land, yet towards midnight, when the gale feemed to be at its height, an extremely heavy fwell rolled in from the ocean, and bruxe with great fury on the fhores of the found that were expofed to its influence; and even thofe of this little cove were by the furge greatly annoyed. This kind of weather continued until Wednefday the 17 th, and much retarded our feveral works, which could not yet be confidered as in any ftate of forwardnefs. The violence of the equinoctial gales from this time feemed to have abated, and a feries of fair weather, with regular land and fea breezes, enabled our people to make all the progrefs that the tedious nature of their feveral labours would permit.

Since our arrival we had occafionally been vifited by Maquinna, Cleropaneloo, with fome of the inferior chiefs, and many of the inhabitants, who fold us a few fifh, and brought to market fome venifon; but moft of there people had now retired to their winter habitations up the found. Thefe Sen ${ }^{\text {r }}$ Alava expreffed a defire to vifit, and as we all knew that fuch an excurfion would be highly flattering to Maquinna, and to the other chiefs and people, a party was formed with three of our boats, and a Spanifh launch to carry the luggage. Notwithftanding that we were well perfuaded
perfuaded of the friendly difpofition of the natives, yet I confidered it neceffary that the boats flould be equipped for defence, as on all other fuch occafions. The fettled fate of the weather had now not only favored and forwarded all our tranfactions, but was extremely inviting to the relaxation we had in view.

Sen ${ }^{\text {rs }}$ Alava and Fidalgo, with Mr. Menzies, accompanied me in the Difcovery's yawl; Mr. Puget, attended by fome of the officers of the Chatham, was in the cutter; Lieutenant Swaine, with fome of the gentlemen of the Difcovery, were in our large cutter; and with thofe in the Spanifh launch, our party confifted of fifty-fix officers and men. No doubt was entertained that Maquinna, who had been informed of the honor intended him, would be in readinefs to receive us, and for this reafon our courfe was firft directed towards Tahfheis, the place of his refidence. But as we were not much affifted by the wind, it was near fun-fet before we arrived at a very pleafant foot not far from Maquinna's village, where we pitched our tents; and as the day was too far advanced, our ceremonial vifit was deferred until the next day, and a meffage to that effect was fent by Clewpaneloa, who had attended us from the fhips. But Maquinna, who with his people was in readinefs to receive us, inftantly difpatched a meffenger, requefting that
that we would repair to his refidence that evening. This however we thought proper to decline, but in order that Maquinuna might be fatisfied of our intentions to vifit him in the morning, fome of the gentlemen walked to the village, and explained to him, that it was the latenefs of the hour only that prevented our then complying with his requeft.

Matters being comfortably arranged for the night, centinels were planted, as well to avoid any furprize from the natives, as to prevent our own people from ftraying to their habitations, from whence difputes or mifunderftandings might have arifen; ftrict orders were iffued to this effect, and being uniformly adhered to, the night paffed without the leaft interruption.

After breakfaft on Friday morning the 26th, we proceeded with the four boats to Tahiheis, and were welcomed on our approach to the fhore by a vocifèrous old man, exclaiming. "Wacofh, Wacofh;" by which he meant to exprefs friendfhip, and the good intentions of the natives towards us. Thefe fentiments being returned in a fimilar manner by our party, we landed, and were received by Maquinna and two of his brothers, Whaclaffe pultz, and Tatoochfeatticus, with repeated expreffions of " Waco/h," until we were almoft ftunned with their gratulations. This ceremony being concluded, we were conducted through
through the village to Maquinna's habitation, where we were led to feats prepared and covered with clean mats at the upper end of the houfe.

Having taken our feats, about thirty men began each to beat with a ftick on a hollow board, in order to affemble the inhabitants of the village to that fpot; this fummons being readily obeyed, Maquinna informed the affembled crowd with great earneftnefs, and in a fpeech of fome length, that our vifit was to be confidered as a great honor done to him, and that it had taken place in confequence of the civil and orderly behaviour of all the inhabitants of the found under his authority towards the Englifh and the Spaniards. This, he obferved, was not the cafe with Wicananifh, or any other chief whofe people committed acts of violence and depredation on the veffels and their crews that vifited their country; but that fuch behaviour was not practifed at Nootka, and that for this reafon they had been more frequently vifited : by which means, their wealth in copper, cloth, and various other articles of great value to them, had been increafed far exceeding that of any of their neighbours. He particularly mentioned fome tribes, but by appellations we were not aequainted with, over whom he feemed to confider our vifit to him as a great triumph; and from his manner of feaking, there evidently ap- the various good qualities that marked the character of the Spaniards and the Englifh; that both were ftrongly attached to himfelf and his people, and that he hoped that we fhould be much pleafed by being entertained according to their manner of receiving vifitors.

The performers I believe were all in readinefs without, and anxious to begin their part; for the inftant Maquinna had ceafed fpeaking, the hollow board mufic recommenced, and a man entered the houfe moft fantafticaily dreffed in a war garment, which reached to the calves of his legs, but not below them; this was varioufly ornamented, as was alfo his face with black and red paint, fo that his features appeared to be moft extravagantly diftorted, or, more properly fpeaking, they were fcarcely diftinguifhable; his hair was powdered, or rather intirely covered with the moft delicate white down of young fea fowl, and in his hand he bore a mulket with a fixed bayonet, making altogether a moft favage, though at the fame time a whimfical figure; this man was followed by about twenty reore, decorated with confiderable variety after the fame fafhion, but differently armed; fome like himfelf with mulkets, others with piftols, fwords, daggers, fpears, bows, arrows, fifh gigs,
and hatchets, feemingly with intent to difplay their wealth and power, by an exhibition of the feveral implements they poffeffed, as well for the ufe of war, as for obtaining the different neceffaries of life.

This prepofterous group of figures was drawn up before us'; and notwithftanding we were perfectly fatisfied of the harmlefs and peaceable inten̂tions of thefe people, yet I believe there was not one of our party intirely free from thofe fenfations which will naturally arife from the fight of fuch unufual objects ; whofe favage and barBarous appearance, was not a little augmented by their actions and vociferous behaviour, accompanied by an exhibition, that confifted principally of jumping in a very peculiar manner. In this effort the legs did not feem to partake much of the exertion, although they fometimes raifed themfelves to a confiderable height; and we underftood that thofe were confidered to be the beft performers, who kept their feet conftantly parallel to each other, or in one certain pofition, with the leaft poffible inclination of the knees. After thefe had finifhed their part, Maquinna performed a mafk dance by himfelf, in which, with great addrefs, he frequently and almoft imperceptibly changed his mafk ; this feemed to be a very favourite amufement of his, as he appeared to be in high fpirits, and to take great delight in
performance. The malks he had made choice of, certainly did credit to his imagination in point of whimfical effect ; his drefs was different from that worn by any of the other performers, confifting of a cloak and a kind of fhort apron, covered with hollow fhells, and fmall pieces of copper fo placed as to ftrike againft each other, and to produce a jingling noife; which, being accompanied by the mufic before defcribed as a fubftitute for a drum, and fome vocal exertions, produced a favage difcordant noife, as offenfive to the ear as the former exhibition had been to the eye. But as the object of our vifit was a compliment to Maquinna, a previous determination to be pleafed. infured our plaudits, which were bountifully beftowed, and received with great pleafure and fatisfaction by the furrrounding feectators.

A paufe now took place in the entertainments, which however was foon filled up, to the great gratification of our hoft and his friends. The prefents that had been provided for the occafion were now exhibited to public view, confifting of copper, blue cloth, blankets, ear fhells, and a variety of fmall articles of lefs value; thefe were feverally diftributed by Sen ${ }^{r}$ Alava and myfelf to Maquinna and his relations, according to the rank and confequence of each; in thefe tokens of our friendihip we fucceeded fo well, that our
liberal
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liberal donations foon refounded through the village, and the glad tidings wère received with loud acclamations of applaufe. On thefe fubfiding, we had a fecond vocal and inftrumental performance, which concluded by a return from Maquinna for the prefents wè had madë. In this Maquinina did nót perfonally appéar; Whactaffe pultz, acting as mafter of the ééremonies; firft addreffed Sen Alava in a hort feeech, refpect: ing, the friendinip that had fo long been eftab: lifhed between the Spaniards, and the tribes under the authority of Maquinna, who, he faid, was highly pleafed by the trouble he had taken in paying him this diftant vifit; and that, as a proof of Maquinna's fincerity, he was then about to make fome return for the repeated inftances of friendfhip he had experienced, by placing a fea otter flim at the feet of Sen Alava. I then received a fimilar compliment, as did Sèn Fidalgo and Mr. Puget, after which Sen Alava and myfelf were each prefented with a fecond fea otter fkin, which concluded the ceremonies of this vifit.

The day was not yet far advanced; and being fair and pleafant, we amufed ourfelves in ftrolling through the village; and found it, although extenfive, far from being numeroufly inhabited. This was accounted for by Maquinna, who ftated, that many famifies weie ftill ablent, not having VoL. VI. G yet
yet procured their ftock of provifions for the en fuing winter fearon; at which time, if all their habitations are fully occupied, its population cannot be much lefs than eight or nine hundred perfons. Maquinna's habitation was confiderably larger than any of the others, and had a very fuperior advantage over them all by being lefs filthy; it was at prefent not more than half occupied, nor was it intirely covered in, though it-did not appear to have been recently erected; but we remained -ignorant of the reafon why fo large a proportion of the roof remained unfinifhed. The conftruction of the Nootka houfes, efpecially with refpect to their infide, has been fo fully treated by Captain Cook, as to preclude any material addition from my pen; yet it is fingularly remarkable, (although particularly reprefented in Mr. Webber's drawing of the vilIage in friendly Cove) that Captain Cook hould not have taken any notice whatever in his journal, of the immenfe pieces of timber which are raifed, and horizontally placed on wooden pillars, about eighteen inches above the roof of the largeft houfes in that village; one of which pieces of timber was of fize fufficient to have made a lower maft for a third rate man of war. Thefe, together with the large images, were at that time fuppofed to denote the habitation of the chief, or principal perfon of the tribe; and the opinion
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then formed, has been repeatedly confirmed by obfervations made during this voyage. One or more houfes in many of the deferted villages, as well as in moft of the inhabited ones we had vifited, were thus diftinguifhed. On the houfe of Maquinna were three of thefe immenfe fpars; the middle piece was the largeft, and meafured at the but-end nearly five feet in diameter; this extended the whole length of the habitation, which was about an hundred feet long. It was placed on pillars of wood; that which fupported it within the upper end of the houfe was about fifteen feet in circumference, and on it was carved one of their diftorted reprefentations of a gigantic human figure. We remained totally unacquainted with the intention of, or the purpore that was to be anfwered by, thefe fingular roof trees; but it is natural to fuppofe that they muft be directed to fome important object, as the raifing of fuch immenfe maffes of timber twelve or fourteen feet from the ground, and placing them firmly on the pillars by which they are fupported, muft, to a people fo totally devoid of mechanical powers, be a moft tedious and labod rious operation.

Our curiofity being fatisfied, and our pockets completely emptied by the unremitting folicitations of the inhabitants of Tahfheis, of the ftock of trinkets with which we had been provided, -..G2. we
we proceeded to the upper end of the arm, which afforded me an opportumity of explaining to Sen Alava the manner, in which the numerous channels and branches in the continent he had feen delineated on our charts, terminated; as this ended in the fame way, by a low border of land in the front of a valley, through which fome friall ftreams of water were difcharged; but the adjacent fhores were infinitely lefs high than we had been accuftomed to obferve; where having-w ftrolled a little about in the fkirts of the woods, we returned to our encampment. Hêre we found Maquinna with feveral of our Tahfheian friends, who were very folicitous that we hould return and partake in the evening of an entertainment fimilar to that we had received in the morning; but as we had appointed to be at home on Sunday morning, and had promifed a vifit to our friend Clewpaneloo at his prircipal refidence, called Mooetchee, which was at a confiderable diffance from Tahfleis, it was not in our power to comply with the civil folicitations of Maquinna and his fraternity.

We were honored at dinner with the company of Maquinna, moft of his family, and many of the other chiefs; who, with the moft unequivocal affurances of their friendfip, and with expreffions of the great pleafure they had derived from

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from our vilit, bad us farewell affér dinner, and we departed.

As Mooetchee is fituated near the upper part of the next branch to the eaftward of Tahineis channel, our route was directed back by the way we had come; and having reached in the evening the dividing point of thefe two arms of the fea, which is fituated about N. 0 E. Six or feven miles from Friently cove, we pitched our tents for the night, in order to have the day before us for vifiting Clewopaneloo, whofe habitation was about Reven or eight miles from us; towards which place, after breakfaft, onSaturday morning. the 27 th , we proceeded; and-as our vifit was not intended to be a very long one, the Spanifk launch was left in a pleafant fituation, in order to pitch the encampment, and provide a dinner againft our return;' by which means our journey to the fhip the next day would be matenally fhortened. Our progrels was not very rapid, as both wind, and the ftream which I believe in general runs down, were adverfe to our purfuitt; which was through a region fo wild and inhofpitable in its appearance, as occafioned Sen Alava frequently to exprefs his aftoniffment, that it could ever have been an object of contention between our refpective forereigns. - The ${ }^{3}$ fhores either conftituted impenetrable forefts? produced from the fiffures of a rugged rocky G3 country,
country, or were formed by ftupendous barren precipices, rifing perpendicularly from the water to an immenfe height; fo that, excepting the ice and cataracts to which we had been accuftomed in many other inftances, Sen Alava was enabled from this hort excurfion to form a very complete idea of the general character of thofe countries to the northward of this fation, which had fo long occupied our time and labour.

It was nearly three in the afternoon before we reached the village of Mooetchee, which confifted of a few houfes huddled together in a cove, with as little regularity in the difpofal of them as was apparent in the conduct of its inhabitants, who crowded about us; and produced us much inconvenience, although with the moft inoffenfixe and peaceable defign. Our friend Clewpaneloo, though their chief, feemed not to poffers fufficient influence to reftrain this behaviour, even within his own habitation, to which we were conducted by a very narrow paffage between the houfes; the filth of which, and the combination of fo many offenfive exhalations, rendered it highly neceffary to our feelings, that as much difpatch as poffible fhould be ufed in the diftribution of our prefents, which, when effected, would leave us perfectly at liberty to depart; without giving the leaft offence to our hoft or to any of his friends. On this occafion,
ceremonies fimilar to thofe practifed at Tahihies were here obferved; but the want of order and decorum, independently of the difference in point of numbers between Tahmeis and Mooetchee, evinced the fuperiority' of Mäqünna's authority, when compared with that of the neighbouring chiefs; amongtt whom Cleropaneloo was méed to be one of the firt in wealth and power; and I certainly noticed as many of their large fquare boxes, in which they generally keep their valu $\pm$ ables, in his habitation, as I had done in almoft all the other houfes collectively taken, but what they contaned we did not entirely learn; yet, if credit were to be given to our landlord, they were all well appropriated, being, according tô his account; filled with the flins of the fea otter; bear, deer, martin, and other animals of the country, or with copper, iron, doth, and other European commodities.
' Our part being performed, and our ftore of prefents exhaufted, we returned to our boats, accompanied by Clewpaneloo, who made us in re-: tarn prefents fimilar to thefe we had received: from Maquizina; to which he added one infinitely more valuable than all the reft. This was a very fne buck, juft killed; which being depofited in our boat, we took leave of Mooetchee, amidft reiterated acclamations of "Wacofh, Wa-* sofl," with repeated intreaties of the moft friendly:

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nature nature to prolong our ftay; but as the day was now, far advanced, no time was loft in making the beft of our way towards the ftation where the Spanif launch had been left; this we reached in the evening, and found every thing com, fortably prepared for our reception.

As we bent our way homewards the next morning, we fopped at an anchoring place called by the natives Mowenna, in great repute with the traders on this coaft, and particularly fo with the Americans. It is fituated on the weftern fride of the found, between four and five miles to the northward of Friendly cove, over which it poffeffes (though further from the fea) feveral advantages in point of fecurity and accommodation. The land in its neighbourhood continues to be low to a greater diftance than about Friendly cowe, and feems to be compofed of lefs rocky materials. The extent of this harbour is but fmall, but being well protected againft all winds, and its diftance from the ocean preventing its being much affected by the fwell, feveral veffels might ride here in perfect fafety; and as it has a fair navigable channel out of it in a. foutherly direction, veffels can fail out of this harbour whenever the land wind prevails to puif them clear of the found, with infinitely more eafe than from Friendly cove; out of which, they are firf obliged to warp a confiderable dif-
tance, and to anchor not ondy in an inconvenient depth of water, but on an uneven rocky bottom; in addition to which, in the event of the wind fuddenly fetting in frong from the fea, their Gituation becomes by no means pleafant. The departure from Friendly core, although not difficult in the fummer feafon, yet (as I bave been given to underftand) is fubject in the winter to great, and indeed dangerous, inconvenience, from the heavy fea which rolls in ftormy weather into the found; efpecially during the S. E. gales, againft which, from its vicinity to the ocean, it is not fufficiently protected. As a military eftablihment however, it is greatly to be preferred to Mowenna, as nothing can pafs or repafs into the found unobferwedat Friendly cove.

About noon we arrived on board. Nothing of any moment had occurred during our abfence; the weather, which had been favorable to our excurfion, had been folikewife to the reveral employments of re-equipment, though we had yet much remaining to perform.

On Monday afternoon the 29th, arrived a veryfmall fhip called the Jenny, betonging to Briftol; the fame veffel that had vifited Nootka in October, 1792 , then rigged as a three-mafted fchooner, and commanded by Mr. Baker, who had: proceeded in her to England, with the cargo of: furs he had then collected. She was now com-:
manded by a Mr. Jönn Adamfon, who had réturned with her from England, and had in the courfe of the preceding fummer in the neighbourhood of Queen Charlottes iffands, collcefed upwards of two thoufand fea otter fkins, with which he was bound to the Chinefe mafket, and from Canton was to be employed as packet in the fervice of the Eaft India Company. He brought us the agreeable intelligence of having riet Mr . Brown in the Jackal on the coaft, in the latitude of $54^{\circ}$, for whofe fafety we had entertained fome apprehenfion; for when we left Mr. Brown in port Althorp, it was his intention to proceed to the fouthward through the inland navigation, and as the inhabitants of thofe fhores had acted a very fufpicious part towards Mr. Whidbey, we ẅere fearful left Mr. Brown's fmall force might not have been equal to his protection.

The ferenity of the-weather continued to favor our operations with little interruption. The wind blew for a few hours on the afternoon of Tuefday the 30th, from the S. E. attended with rain; but the N. W. wind again prevailed, and the weather became fair and pleafant the next morning; Wednefday the 1 ft of October.

On the day following, Thurday the $2 n d, 1$ was honored with the company of the Governor, Scns ${ }^{\text {rs }}$ Fidalgo, Saavadra, and moft of the Spanifh officers to dine on board the Difcovery: The-
very exhaufted ftate of my ftores, and ftock of articles neceffary on fuch occafions, had precluded my receiving this pleafure fo frequently as I could have wiined.

I was very agreeably furprized by receiving a meffage from the governor on Saturday the 4 th, in the afternoon, purporting that the expected Spanifh packet from St: Blas was in the offing; thefe however were but fhort-lived hopes, for we no fooner had recourfe to our glaffes, than we becanteof opinion that the veffel in queftion was the Jackal. But as the wind at this time blew ftrong from the $\mathrm{S} . \mathrm{E}$. attended with dark, rainy, hazy weather, and as fhe could not reach the port before dark, fhe ftood to fea again; during the night the $S$. E: gale increafed with inceffant rain, and a very heary fwell rolled into the found; the next day, Sunday the 5 th, the weather was more moderate, andin the evening the Jackal arrived. It was now that I received the information of Mr. Brown's having paffed through the fhallow paffage mentioned in Mr. Whidbey's laft furvey in the boats, which appertaining immediately to the region then under confideration, I thought it moft properly introduced in the narrative of that expedition. Since our feparation with the Jackal, Mr. Brown had collected upwards of a thoufand prime fea otter flkins, and feveral of inferior quality. Moft of thefe fhad been procured cured from thofe people, whofe conduct had put on fuch a fufpicious appearance in the opinion of Mr. Whidbey and his party, in his way from Crofs found : they had behaved very properly to Mr. Brown, whofe readinefs to enter into a traffic with them might probably operate in gaining their good opinion; for it had bcen evident, on many occafions, that our difinclination to a commercial intercourfe had excited the difpleafure of feveral tribes we had met with; this opinion: was confirmed, by their ufual formalities on firft vifiting the veffels, which generally concluded with a defire to operr a negociation for the difpofal of their merchandize.

As the month of October advanced, we knew perfectly well, both from our former and prefent experience, that the fummer feafon of this country. was faft drawing to a conclufion, and as moft of our material bufmefs with the fhore was now nearly finifhed, I took the advantage of Monday, being a fair day, to receive on board the obfervatory inftruments and tents. Our fuel and water was yet, however, to complete, which would unavoidably detain us three gr four days longer, fo that waiting the ftipulated time, after which the Spanifh packet was not to be expected, could now be of little moment, when compared to the importance her arrival might poffibly be of, in expediting our return to England.
land. This, kowever did not happen, nor did any circumftante worthy of notice take place. during this anxious interval. At midnight on the $16 \mathrm{th}^{-3}$ we put to fea, in company with the Chatham. The Princiffa, Captain Fidalgo, with Governor Alava on board, was to follow us the next day. Monterrey was appöinted as the next rendezvous, where thefe officers entertained little doubt of our meeting a reception, and every refpect fuitable to our fituation and wifhes. In this opinion I was induced to concur, from a converfation that had lately paffed between Senr Alava and myfelf, when I became acquainted that the reprefentation I had made to Sen Quadra of the treatment we had received on our former vifit to New Albion, had in confequence of his deceafe been tranfmitted to the viceroy at Mexisco, whofe very humane and liberal intentions towards us, had no doubt, been materially mifunderfond by Sen Arrillago.

Having bad farewell to Nootka, and made fuch remarks on our ordinary tranfactions thereas appeared to me deferving attenton, I thall now proceed to ftate the refult of our labours at the obfervatory, and hew from what authority I deduced the longitude of the various ftations in our late furvey, which in many inftances differs materially from the longitude affigned to them by Captain Cook. I have already ftated my reafons reafons for fubfcribing to our own calculations in preference to thofe made by Captain Cook; and muft again repeat, that I have prefumed fo to do, under the conviction of our having had the means of being accurate, more fully in our power than fell to the lot of that renowned and illuftrious navigator.

On September 6th, in Nootka found the chronometers thew the following longitudes; viz. Arnold's No. 14, $232^{\circ} 32^{\prime} 50^{\prime \prime}$; Arnold's No. $176,232^{\circ} 32^{\prime} \cdot 53^{\prime \prime}$. "The true longitude being $232^{\circ} 31^{\prime} 30^{\prime \prime}$, it appeared that Arnold's No. 14, and Kendall's; were each of them $1^{\circ} 0^{\prime} 40^{\prime \prime}$, and Arnold's No. 176, $44^{\prime} .25^{\prime \prime}$ to the weftward of the true longitude.

On the 6th of October at noon, Arnold's No. 176 was found by the mean of twenty-nine days equal altitudes, to be faft of mean time at Green-. wich : - - $\quad 10^{\mathrm{h}} 49^{\prime} 45^{\prime \prime} 56^{\prime \prime \prime}$

> And to be gaining on mean time per day at the rate of,

Arnold's No. 14, faft of mean time on the fame day, $\begin{array}{lllll}4 & 57 & 10 & 56\end{array}$

And gaining on mean time
per day at the rate of, - 23.4
Kendall's, faft of mean time

$$
\text { on ditto, - } \quad-\quad-\quad . \quad 3 \quad 30 \quad 52 \quad 56
$$

And gaining on mean time per day, - .- 28 30

By obfervations taken on fhore with the artificial horizon, between the 6th of September and 11 th of October, 1794, the chronometers were found to be gaining on mean time, viz. Arnold's No. 176, $41^{\prime \prime} 5 \dot{\boldsymbol{F}}^{\prime \prime \prime}$; Arnold's No. 14, $23^{\prime \prime} 6^{\prime \prime \prime}$; and Kendall's, $28^{\prime \prime} 29^{\prime \prime \prime}$ per day; by which it appeared, that when opportunities did not offer of obtaining equal altitudes for afcertaining the rates of the chronometers, common altitudes if taken with care, would anfwer the fame purpore; this is exemplified by the above obfervations, as the difference of the rate between two of the chronometers was only one fourth, and that of the other, viz. Arnold's No. 176, rather more than half a fecond, which is accounted for by the very unequal rate in general of that chronometer.

The latitude, longitude, variation, and inclination of the magnetic needle, were found to be the fame as on our firft vifit to this place in the year 1792 .

## CHAPPTER II.

Depart from Nootka Sound-V Volentit Storm-Atr: rive at Monterrey-Receive on board the Deferter's from the Chatham and Dedalus-Excurfort into the Countrym-Examine a very temarkable Mout-tain-Afitronomical and Nautical Obfervations.

ALIGHT breeze from the land favored our progrefs out of Nootka found, and by daylight on Friday the 17 th; we were about three leagues from the land, when the wind fuddenly died away, and was fucceeded by a calm with thick hazy weather continuing the whole of the day, and giving the veffels an appearance of being ftationary; the depth of water continued to be the fame from noon until midnight, 75 fathoms, muddy bottom. At this time the haze was fucceeded by a very thick fog, without the leaft breeze of wind; and although by the depth increafing we imagined that we were proceeding from the coaft, yet our motion was fo flow, that by fix in the evening of Saturday the 18th, we were fill in foundings at the depth of 100 fathoms, muddy bottom, and by the lead when on the ground, the veffel feemed to lie as if at anchor.

This

This obfcurity in the atmiofphere had prevented our feeing the Chatham fince the preceding evening, but the ferenity of the weather, and the apparent ftationary fituation of the Difcovery, made me conclude that the could rot be fat off. Our powder beirg much exhaufted, the fog fignal had not been made; but in order to afcertain the fact, a gun was now fired, and to our great aftonifhment it was not anfwered. The fog and calm fill continued, and the depth of water gradually increafed, at eight o'clock we had 105 fathoms, with fandy bottom. The fog now difperfed, and the calm was fucceded by a light breeze from the E. N. E.; another gun was now fired, and a falfe fire burnt as a fignal to our confort, but neither was anfwered. After repeating thefe fignals in the fame manner, at three o'clock on Sunday moming the 19 th to no effect; we made all fail, fteering to the S. S.E. At day-light the high land over Nootka and Clayoquot, was fill in fight, bearing by compafs from N: 6 W. to E. N. E.; our diftance from the coaft was 10 or 12 leagues. The foundings ${ }^{2}$ we had gained at midnight at the depth of 1.35 fathoms, proved to be at the diftance of about feren leagaes from point Breakers, and formething more from the general. line of the coaft to the eaftward of that point. This I confidered to be the edge of a bank of foundings that appeared Vor. VI. H to to lie along the coait, which commenced a-breaft of cape Lookout, and terminated a little to the northward of Nootka. Near the entrance of De Fuca's ftraits it feemed to ftretch further into the ocean, as at the diftance of eight leagues from thofe fibores we had only 58 fathoms water, with muddy bottom.

In looking round for the Chatham a veffel was difcovered a-ftern, for which we immediately fhortened fail, but foon finding it to be the Spanifh hip Princiffa, we again directed our courfe as before with all fail fpread to a pleafant eafterly breeze and fair weather; with this however we were not long indulged, for in the evening the wind veered to the S.S. E., and by Monday the 20 th in the afternoon, inereared to fo ftrong a gale as to oblige us to clofe-reef our topfails. The wind fixed in the fouth-eaftern quarter; and became variable, with fometimes clear, and at others cloudy weather : this gale did not reduce us below our topfails, although we plied not only againft it, but againft a very. heavy fouth-wefterly fwell to fo little purpore, that by noon on Friday the 24th we'had by our reckoning (for we were unable to gain any obfervation) only reached the latitude of $47^{\circ} 12^{\prime}$; longitude $232^{\circ} 12^{\prime} \square^{\prime}$ In the evening the wind veered to the S.S. W., with which we made a tolerably: good progrefs to the fouth-eaftward until
until Sunday morning the 26 th, when it became light and variable, with alternāte calms, and a very heavy fwell from the W.S. W.
a This uncomfortable weather was fucceeded by a frefh breeze from the N. E., which as ufual veered to the S . E , on Monday morning, and in. the afternoon increafed to a gale fo violent, as to make it neceffary that we fhould frike the topgallant-mafts, and bring to, under the ftorm Ctayfails; this gale was attended with an extremely heavy rain until midnight, when the ftorm fuddenly moderated, and the wind veering to the S.W. we ftood to the S. E. under our courfes and clofe-reefed topfails.

The obferved latitude on Tuerday the 28th was $44^{\circ} 14^{\prime}$; longitude by account $233^{\circ} 27^{\prime}$; in the afternoon all our canvafs was again fpread, but by Wednefday morning the figth the wind had refumed its fouth-eaftern direction, with hard fqualls and heavy rain, which again reduced us to the forefail and ftorm ftayfails.

Since our departure from Nootka we had conftantly been incommoded by a very heavy wefterly and fouth-weft fwell, which at this time was greatly increafed, notwithftanding the fea, raifed by the violence of the wind from the foutheaft ; thefe together caufed a very confured agitation of the ocean, and although the hip was made as fnug as poffible by the top-gallant mafts H2 being
being ftruck, and by every thing, that conveniently could be taken from aloft, yet the was extremely uncomfortable, and chipped great quantities of water. About noon the gale moderated, and on the wind returning to the S.W., we again made fail to the fouth-eaftward. The afternoon was tolerably fair; yaft flocks of wild geefe and ducks were obferved, flying to the fouthward, which indicated that in a more northern climate the winter had fet in with much feverity.

The wind, although variable between S. E. and S. W. was moderate, with frequent calms, and the weather, comparatively fpeaking with that we had fo recently experienced, might be confidered as tolerably fair, notwithftanding which, we made litele progrefs until Monday morning the 3d of November, when the wind feemed fixed in the north-weft quarter, with very pleafant weather. To this favorable gale we fpread all our fails, feering for cape Mendocino; the fouthern promontory of which, at noon, bore by compaif S. 51 E., and with the coaft to the north of it, in fight to the N. E., was about 9 or 10 leagues diftant. The obferved latitude $40^{\circ} 42^{\prime}$, longisude according to our former calculations of the fituation of cape Mendocino, $235^{\circ} 30^{\prime}$, the variation $14^{0}$ entewardly.

At this time the longitude by the chronometers agreeably to the Nootka rate, was by Kendall's,
dall's, $235^{\circ} 27^{\prime}$; Arnold's No. 14, $235^{\circ} 22^{\prime}$; and No. $176,235^{\circ} 55^{\prime}$.

As we drew in with the fhores of the northera part of the cape, having fince noon fteered S. E. by compaifs about three leagues,: we fuddenly came into difcoloured water, with a very irre;gular fea; but foundings could not be gained with the hand line, nor at the rate we were then going, could bottom have been reached at a greater depth than from 7 to 10 fathoms.

As I intended before we proceeded to Monterrey to vifit the bay of Sir Francis Drake, and from thence in our boats to acquire a-better knowledge than we had hitherto gained of port Bodega, our courfe after paffing this promontory was directed along the coaft to the fouth-eaft for that purpore.

In the evening about fun-fet a very fingular appearance was obferved over the interior mountains, immediately behind the high land of this lofty projecting promontory. An immenfe body of very denfe clouds enveloped the fummits of thofe mountains, rifing in a confufed agitated ftate like volumes of fteam from a boiling cauldron of great magnitude; thefe expanded to the northward, and obfcured all that part of the horizon, whilft to the fouthward, it was perfectly clear and unclouded. From our own experience, as well as from the information we had derived $\mathrm{H}_{3}$ from
1 IO2 A voyage of discovery [nov. from the Spaniards, we had long been led to confider cape Mendocino as fituated on the divifionary line betwen the moderate and boifterous clinates of thiscoaft: For this reafon, however unfeientific it may appear, we could not avoid entertaining an idea, that from the immenfe accumulation of exhalations, which the ftupendous mountaing in: this immediate neighbourhood arreft, arofe thofe violent fouth-eaft ftorms, with which, further to the northward, we fo frequently contended; and by which, the coaft of New - Albion to the fouthward of this ftation, is certainly but feldom, and never in fo violent a degree affected. This extraordinary appearance inclined us to believe that fome turbutent weather was not far remote, but from what quarter we could not guefs, as the fteady favorable northweft gale, and the appearance of clear and fettled weather, in the direction we were freering, did not give us reafon to apprehend any inconvenience from the wind hifting to the fouth-eaftward; and its blowing from the oppofite point fiad always been confidered as the harbinger of moderate and pleafant weather. This general rule was on Tuefday morning the 4 th partly confirmed, and partly contradicted, as the vapours we had obferved collecting on the preceding - evening, were now found to have been deftined to difeharge their fury from a quarter we had
leaft fuch progrefs along the coalt, that by four in the morning it became neceffary to haul to the wind, in order that we might not overfhoot our-in-tended-port before day-light. At this time the wind at N. N.W. attended with a mof tremendous fea from the fame quarter, had increafed to fuch a degree of violence, as allowed us to haul off the fhore under our forefail and ftorm ftayfails only; but the forefail, though a very good one, not being able to refift the violence of the ftorm, was about fun-rife on Wednefday the 5th, blown nearly to pieces; this was immediately replaced with the beft we had, the topgallant-mafts were ftruck, and the fhip made as fnug as poffible; but unable to fcud with fafety before the ftorm, we lay to, with the phip's head to the weftward, under the form ftayfails, it being impoffible to thow more canvals, and of courfe too hazardous to feee for that part of the coaft I:wifhed to make, or to attempt running under our bare poles into a port; of which we had fo little knowledge as that of the bay of Sir Francis Drake; to keep the fea, was therefore our only prudent alternative.

During this ftorm I felt a high degree of fatisfaction, that we had not made a more fpeedy paffage from Nootka to Monterrey, as from the direction in which it had :blowh, It confidered; $\mathrm{H}_{4} \quad \because$ that

104 A. FOYAGE OF DISCOVERY [rov: that bad we been arrived in that port, we fhould have been expofed to the whole of its fury; and the violence of the fea that had attended it. .As Monterrey was now lying S: 50 E. of us, I could not fuppofe from the diftance of that port, that the gale had not reached fo far, for excepting the ftorms we experienced at and off New Zealand, this was certainly the moft violent of any we had met with during this voyage; the thip howerer was by no means fo uncomfortable as we had found her on many other occafions. The waves; although extremely high, were long and regular; the 1 ky was hard and clear, and intirely free from clouds. About the horizon and a few degrees above it, was feen a bright glaring. haze; and as this at intervals became more perceptible, the violence of the wind was conftantly obfefved to be increafed.

In this fituation we remained until the ftorm moderated, though it ftill blew extremely hard : we now wore and ftood for the land under the forefail and ftorm ftayfails, in the hope, that by the time we thould arrive near the fhore, now at the diffance of 45 leagues; the viotence of the ftorm would in a great meafure have abated. It was not howéver before ten at night that it had fufficiently moderated ta allow of our fetting the . clofe-reefed topfails; at midnight we had the topgallant fails fet for about an hour, but the
wind foon again increafed, and feeing the land at no great diftance about two o'clock in the morning of Tuefday the 6th, we hauled off fhore, and plied under an eafy fail to wait the return of day, when finding ourfelves about three or four leagues from point Anno Nuevo, point Pinos in fight bearing by compars S. E. $\frac{1}{2}$ E. and having a moderate breeze with fine pleafant weather, we fteered-for Monterrey, where about two in the afternoon we anchored, and moored nearly in our former fituation.

Here we found the Chatham, the having arrived in the evening of the 2 d . By Mr. Puget I was informed, that whilt we were becalmed and ftationary off Nootka, the Chatham on the evening of the 17 th of October was favored with a light breeze from the eaftward, which gradually increafed; with this Mr. Puget fteered to the fouth-eaft, concluding we were doing the fame, and be was not undeceived until noon of the 18th, when the fog with them had fufficiently difperfed, to fhew that the Difcovery was not within their viifible horizon. Mr. Puget was equally at a lofs with ourfelves, to account for the feparation that had then taken place; but as he confidered that we had preceded the Chatham, and the having at that time a pleafant breeze from the eaftward; he thought it moft advifeable to make the beft of his way to the fouthward, fouthward, and on the 19 th in the morning whilfe he continued to be within fight of Nootka, the Chatham had increafed her diftance near 40 leagues from the fhore. This circumftance, in confequence of the fucceeding winds, afforded the Chatham a fuperior àdvantage in getting to the fouthward, and which in all probability was confiderably augmented, by her having ftood further from the coaft to the fouth-weftward; than we had done during the prevalence of the fouth-eafterly winds. On reference to the journals it appeared Mr. Puget had been enabled fo to do, by the wind having been much further to the fouthward with the Chatham than with the Difeovery; by which means on the wind's thifting to the S.W. as is moft frequently the cafe after the fouth-cafterly gales, our confort made much better flants along the coaft to the fouthward, than we were able to do, becaufe-we were fo much nearer to it. The Chatham had to conterid with nearly the like boifterous weather we had experienced until fhe had paffed cape Mendocino on the 30 th of the preceding month; when, at the diftance of 40 leagues from the cape-the weather waspleafant, with wefterly and north-weft winds. - The greateft diftance fle had on this paffage been from the coafe, was ftated by Mr. Puget at 93 leagues from cape Difappointment, and from thence, fouthward to cape

Mendocino

Mendocino from 60 to 70 leagues; the greateft diftance we had been from the coaft did not exceed 78 leagues off Deftruction illand, but to the fouthward of cape Lookout we were not more than from 16 to 40 leagues from the land,

The north-weft ftorm we had fo lately contended with, and to which I had confidered this anchorage as dangeroufly expofed, Mr. Puget informed me had been here felt, at the fame time; but that the gale had been principally from the weftward; and although it certainly blew ftrong, yet it neither prevented the ufual communication with the fhore, nor would have caufed any apprehenfion for the fecurity of veffels riding in the bay, if tolerably well provided with anchors and cables. Indeed the Chatham rode it out, with cables that had been long in ufe, and were in the laft ftage of being ferviceable. This was by no means an unpleafant fact to afcertain, as it tended to prove, that although the weather may be extremely boifterous out at fea, and in the offing, yet this bay may be approached with the greateft facility; and will afford extremely good fhelter againft thofe winds, to which, apparently, it is moft expofed.

Our profeffional inquiries being mutually fatisfied, I had the pleafure to underftand from $\mathbf{M r}$. Puget, that he had met the moft cordial reception from our former friend Sen Arguello, the lieutenant firft vifit to this place, in the abfence of the governor of the province, officiated in that capacity. From this gentleman we were likely to meet very different treatment to that which we had received from Sen ${ }^{\text {r }}$ Arrillago, whofe reftrictive arrangements on our laft vifit to Monterrey, had obliged us.to feek that hofpitality and protection from the untatored inhabitants of the Sandwich iflands, which we defpaired of obtaining in any of the ports under his jurifdiction. Sen ${ }^{r}$ Arrillago having been ordered to fome inferior eftablifhment, had refigned his authority at this place, and had departed about two months previoufly to our arrival, and a lieutenant in the Spanifh army, Don Diego de Borica, had been appointed fome time fince, to the government of this province, and was now daily expected at Monterrey.

As foon as the fhip was fecured, an officer was fent to the Prefidio with the ufual ceremonious compliments, and with an apology for our not having faluted. On landing I was received by Sen ${ }^{i}$ Arguello, to whofe kind and benevolent offices we had before been greatly indebted, with marks of the greateft friendłhip and refpect. He expreffed the fatisfaction he fhould receive by having it now in his power to fupply us with the various neceffary refrefhments the country afforded;
afforded: and being without the leaft reftraint, he fhould endeavour to adminifter to our amurement and recreation. Whatever means he poffeffed that were likely in any way to contribute to the happinefs or comfort of the prefent time, or to our future welfare, he was now impowered, by the orders that had been-tranfmitted to this government from the viceroy of New Spain, feduloufly to afford, and prompted by the intereat he felt in our accommodation, he thould with great pleafure carry thofe orders into effect.

The people who, on our firf vifit to this Prefidio, had deferted from the Dædalus and Chatham, we found here, with directions for their being delivered up to me; but as the governor of the province was fo foon expected, I deferred taking any fteps in this bufinefs until he fhould arrive; nor did. I erect our tents or obfervatory on fhore for the fame reafon, as I confidered it would be more refpectful to fubmit thefe matters to the approbation of Governor Borica himfelf than to Sen ${ }^{\text {r }}$ Arguello, from whom I only folicited permiffion to recruit our wood and water, and to obtain fome neceffary refrefhments.

On Friday morning the 7 th $I$ received from Sen ${ }^{r}$ Arguello the only letter that had arrived at this place for me; this letter was from the Conde Revilla Gigedo, the late viceroy of New Spain,
in reply to one I had written to his excellency on the 22d of May, 1793. In the moft polite and friendly terms the count informed me of Mr . Broughton's fafe arrival at Madrid, and expreffed the higheft approbation of the conduct of Sen Fidalgo, whofe fervices I had reprefented to him we had been greatly indebted to, on heaving the Chatham down at Nootka. Thofe very obliging offers he had before made, in wifhing to contribute to our health and welfare, by whatever means of affiftance this country could beftow, were in this letter repeated. It was dated on the 20th of October, 1793, about the time wher we firft felt the influence of $\mathrm{Sen}^{r}$ Arrillago's difinclination towards our little fquadron. It was addreffed to me at Monterrey, with directions there to remain for my reception, until it 'hould be underftood I had taken my leave of thefe regions, and in the event of my fo doing, without repairing to this place again, the letter was then to be tranfmitted to me in England. From thefe circumftances it would appear, that the correfpondence $I$ had been thus honored with, was not intirely of that complimentary nature that Senr Arrillago had thought proper to confider it ; and that the viceroy did expect that I fhould make, at Leaft; a fecond vifit to Monterrey, was evidently proved by the deferters having been fent hither; inftead of being forwarded to Nootka, as he had
formerly intended to do; but which determination, Sen Arguelto informed me, he had been induced to alter, under the perfuafion of this being the moft likely place of our meeting with them.

Not having received official intelligence at this port from England, and there being here no difpatches waiting the arrival of Sen ${ }^{r}$ Alava, through which channel I might poffibly have obtained fome fort of information, by which my future proceedings might, in fome degree, have been regulated, I could not help feeling very great difappointment, anxiety, and concern. I was not, however, totally deftitute of hope, that fome letters might have arrived at St. Diego. To afcertain this fact, notwithftanding that it was from bence to St. Diego more than four hundred Englifh miles, Sen ${ }^{\dagger}$ Arguello very obligingly ordered an extraordinary courier to be ready the next day, whofe return from St. Diego might be expected in ten or twelve days, and before the expiration of that time, I had no idea of quitting, this ftation. Under the circumftances of the mortifying difappointment I now felt, I was unable to form any plan for our future operations, excepting that which I had before meditated, of remaining here a fufficient time to recruit the health and ftrength of our little community. For, notwithftanding that we were not materially af, fected of us demanded care and attention. The fatiguing fervice in which we had now been fo long employed, and the very few frefh meals we had been enabled to obtain fince the middle of the preceding month of March, muft be fufficient to convince the judgment, without the appearance of actual difeafe, that three weeks or a month would be well dedicated in availing ourfelves of the refrefhments and recreation, in which we had now fo favourable an opportunity to indulge.

Frefh beef, which was extremely good, was daily and unlimitedly ferved to the crew of each veffel; but vegetables were a fcarce commodity, owing to the drynefs of the feafon, which gave the country an appearance of being parched up; and the few articles which had been produced on the fmall portion of land allotted here to the purpofe of garden ground were nearly exhaufted. We, however, were not apprehenfive of wanting fufficient variety to cover our tables, as in the immediate neighbourhood of the bay there were an immenfe number of wild geefe, ducks, plovers; curlews, and other wild fowl; to which, by little excurfions into the country, our fportfmen added an abundance of very fine quails and fome hares, which afforded us excellent repaits in adtdition to their amufement. It was fomething fingular that none of thefe fpecies of wild fowt, had

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had been found in any degree fo numerous on either of our former vifits to Monterrey.

The weather was fair and pleafant, with a moderate breeze from the fea; which in the evening brought in the Princiffa. We had confidered this veffel to have been to the northward of cape Mendocino; whilft we contended with the northweft ftorm to the fouth of it; and an idea had arifen; from the appearance of the evening that preceded the gale, that the Princiffa muft, in that fituation, have experienced much blowing weather from the fouth-eaftward; but on inquiry this was not found to be altogether the cafe; She was, however; to the north of the promontory in queftion at that time, and her progrefs, like ours, had been greatly retarded by contrary winds; but on the 1 ft of November, in the latitude of $45^{\circ} 30^{\prime}$; fhe having generally kept about 30 leagues from the coaft; thefe adverfe winds were fucceeded by a pleafant gale from the north weft, which continued during-the remainder of the paffage.

This fact, though not proving cape Mendocino to be fo fingularly fituated as we had fuppofed it to be, with refpect to moderate or boifterous weather, yet ferves to flew that it has an influence on the winds that prevail during the winter feafon, as the fouth-eafterly ftorms are fcarcely ever known to the fouthward of cape MendoVol. VI.

I cino; cino; where, whilit the north-weft gale reduced us to our ftorm ftayfails for twenty-four hours, the Princiffa to the north of it, felt nothing of its fury ; but, on the contrary, had only a moderate north-weft gale, to which the whole of her canvafs was fpread.

We had the pleafure to meet our friends in the Princiffa very well, though much difappointed, like ourfelves, in not receiving any official communications from Mexico; but as the courier was in readinefs to depart the next morning, $\operatorname{Sen}^{r}$ Alava embraced this opportunity to make the neceffary inquiries at St. Diego.

In the night the wind blew ftrong from the northward; and on the return of the day it conGderably increafed from the north-weft. Notwithftanding the veffels rode without the leaft inconvenience or apparent danger, yet, as our cables had been a long time on board, and had endured great trials, the topgallant mafts were got down, the yards and top-mafts ftruck, and the veffels made perfectly fnug; by noon, however, the wind moderated, and we had a return of fair and pleafant weather; all hands were now employed in different fervices, amongft which, recruiting our ftock of fuel and water, was no inconfiderable labour ; no difficulty was experienced in procuring the former, but the drynefs of the feafon had rendered the latter very farce.

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The wells that we had dug, on our firft vifit to Monterrey, though not perfectly dry, afforded too fmall a quantity to anfwer our demãnd, and we had no means of obtaining a fufficiency of water nearer than up a valley about half a mile to the eaftward of the Prefidio, and full that diftance from the fea-fide, where a fluggifh ftream oofed through the bed of a water-courfe, compofed of a loofe fandy foil; and here, by finking feveral cafks, temporary wells were formed, which afforded only a fcanty fupply, though the water was extremely good. This mode of procuring it was very tedious, and the diftance which the cafks, when filled, had to be rolled, through a loofe fandy gully, to the boats, was very great, and proved to be a very laborious tafk, yet the water was infinitely preferable to any that could have been collected from the ftagnated brackilh pools, in the vicinity of the Prefidio.

On Sunday part of the fhip's company were indulged with a run on fhore, and the day following, Monday the 10th, we were bufily employed in facilitating, as much as poffible, the procuring of our water, by the beft arrangement in our power, notwithftanding which we could not prevent its being a very laborious bufinefs.

The weather continued to be remarkably pleafant, and on Tueflay evening, the 11th, Sen ${ }^{r}$ Don Diego Borica arrived at the Prefidio, I 2 where where, the next morning, accompanied by Mr. Puget and moft of the officers of both veffels, I waited upon him, to congratulate him on his fafe arrival, and to acquaint him with my reafons for vifiting the countries under his jurifdiction; thefe attentions, I had the pleafure to find were perfectly fatisfactory, and were received in a manner that was highly compatible with the refpective ftations that each of us had the honour to fill.

The indulgence I had folicited, and which had been granted by Sen ${ }^{r}$ Arguello, was now very politely extended by the governor, with further permiffion to crect our tents and obfervatory on Shore, under the direction of our officers, and protection of our own guard, to which he very obligingly added the affurance of doing every thing in his power that could in any way contribute to make our ftay as pleafant and agreeable as their limited fociety and the lonelinefs of the country would afford.

After this introductory difcourfe, we under-* ftood from Sen ${ }^{\text {r }}$ Borica, that accompanied by his wife and daughter, a young lady about eleven years of age, and a fuitable number of attendants, he had come from Mexico to this place on horfeback; as no other mode of conveyance was to be procured. They were provided with a fimall camp equipage, which was occafionally. pitched, either as a retreat from the heat of the fun,
fun, or for reft during the night. Upwards of eight months had been employed in performing this journey, through a country very thinly inhabited, and which afforded but little comfortable accommodation for travellers.

In the evening an exprefs arrived from Mexico, which brought difpatches from the viceroy of New Spain to the governor, together with the long expected inftructions to Sen ${ }^{\text {r }}$ Alava, refpecting the ceffion of Nootka to the crown of Great Britain, but nothing addreffed to me accompanied thefe credentials; and, from a converfation with Sen ${ }^{\text {t }}$ Borica, I was not flattered with the leaft probability of receiving any intelligence from St. Diego, becaufe it was not likely, had any difpatches for me arrived there, that he fhould have remained ignorant of the circumftance; and as the deftination of Sen Alava was well known to the officers commanding the fouthern pofts of this province, letters for either of us would moft likely, immediately on their arrival, have been tranfmitted hither.

The embarraffment I had been long under was now very materially increafed, and I was greatly at a lofs as to what meafures were beft to be purfued. From this dilemma, however, I was very unexpectedly relieved the next day, Wednefday the 12 th, by Sen ${ }^{r}$ Alava very obligingly confiding to me that part of his inftructions which
ftated, that no further altercation would take place with refpect to the precife meaning of the firft article of the convention of the 20th of October, 1790, as the documents tranfmitted by the late Sen ${ }^{\text {r }}$ Quadra and myfelf, had enabled our refpective courts to adjuft that matter in an amicable way, and nearly on the terms which I had fo repeatedly offered to Sen ${ }^{r}$ Quadra in September 1792. In addition to which the Spanifh minifter's letter fet forth, that this bufinefs was not to be carried into execution by me, as a frefh commiffion had been iffued for this purpofe by the Court of London.* The fame was announced to governor Borica by the new viceroy of Mexico, the Marquis de Branciforte, with inftructions to receive the perfon acting under this commiffion into their Prefidios.

Having maturely confidered the feveral parts of this intelligence, I concluded that from the length of our voyage, and the various accidents to which the fervice in which we were employed would neceffarily render us liable, Government did not expect we fhould remain longer in thefe feas, than the furvey of the American coaft might require; and in truth we were not now in a fit condition to protract our ftay in thefe regions.

[^0]The very exhaufted ftate of our ftores and provifions not only demanded fuch fupplies as were not eafily within our reach, but as the Difcoviery had been frequently aground, it was highly probable that her bottom might ftand in need of fome very material repair, of which we had remained intirely ignorant, not having been fo fortunate as to meet with a proper fituation for the purpofe of her undergoing this neceffary examination.

One of the great objects of our voyage, the furvey of the coaft of North Weft America, being now accomplifhed, and relying on the authenticity of the intelligence $I$ had derived from Sen ${ }^{r}$ Alava, I did not long hefitate, but determined on making the beft of my way towards England, by the way of cape Horn, agreeably to my inftructions; and as I had no intention of vifiting any part of the American coaft to the northward of the 44 th degree of fouth latitude, I purpofed that our courfe from hence hould be directed towards that latitude without ftopping, unlefs we fhould be fo fortunate as to fall in with the Gallapagos illands, whofe undefined fituation I much wifhed correctly to afcertain; and of courfe it would neceffarily be fome time before we reached our next refting place. On this account it became highly expedient that we fhould fail from hence with as great a quantity
of water as we might be enabled to procure, for the reception of which the coopers were directed to repair, and put into order every cark on board capable of holding water; in many cafes this was attended with great trouble, from the length of time they had been in ufe, and the hard fervice that many of them had endured.

Although the very great diftance, and the badnefs of the road we had to pafs in getting the water down to the fea-fide, made the obtaining of this indifpenfable article a very tedious and fatiguing bufiners, yet as we were in the mean time benefitting from the air, the exercife of the fhore, and the excellent refrefhments of the country, I could not confider our detention here as a lofs of time, becaufe I was affured that it would be attended with the ineftimable advantage of fecuring to us all, that fate of health which the remainder of our voyage we had yet to perform homewards, would neceffarily require.

Some doubts having arifen in my mind, as to the fafe arrival in England of the copies (which I had forwarded thither) of our furvey of the American coaft to the northward, from Fitzhugh's found to cape Decifion, and fouthward from this port to the 30th degree of north latitude, I deemed it expedient that a duplicate of the former papers, together with a copy of our furvey during the preceding fummer, as alfo that
of the Sandwich iflands, fhould from hence be tranfmitted to the Admiralty; that in the event of any mifchance having befallen the others, or any unfortunate accident happening hereafter to us, our labours might not be intirely loft to our country. The like information, in conformity to my original promife to my much lamented friend. the late Sen ${ }^{\text {r }}$ Quadra, had been folicited by Sen ${ }^{r}$ Alava, for the ufe and information of the Spanifh court, and with which of courfe I complied. The preparation of thefe documents would neceffarily occupy fome time, but I had little doubt of their being finifned by the time we fhould in other refpects be ready to depart.

The deferters from the Chatham and Dædalus had, at my requeft, been delivered up to me, at leaft fuch of them as were the fubjects of Great Britain. An account of expences, amounting to three hundred and twenty-five dollars and an half, was exhibited againft them; but as I did not confider myfelf authorized to difcharge this debt, (though of its having been incurred by the deferters. I could entertain no doubt) of which I acquainted Governor Borica, by letter, on Sunday morning the 10 th, and at the fame time added, that I fhould reprefent the bufinefs fully to the Board of Admiralty, and that I had no doubt that the ftriceft juftice would be done. With this the governor feemed to be completely fatisfied,
fatisfied, and in his letter to this effect, after expreffing the greateft approbation, he, in virtue of the hamony and good underftanding that continued to exift between us, folicited my good offices in behalf of the deferters before mentioned.

The weather, fince the 8 th, had been delightfully pleafant; in the day time the wind blew a gentle gale from the fea, and during the night a calm, or gentle breeze, prevailed from the land, fo that the precaution we had taken of ftriking. our yards and topmafts, fince the moment of our having done fo, ceafed to be neceffary. This agreeable weather caufed the water in the bay to be fo very tranquil, that landing was eafily effected on any of its fhores, and rendered our intercourfe with the country extremely pleafant.

The fame caufe operated to invite the excurfroms of feveral parties into the country on foot and on horfeback. Thefe were rendered further agreeable and pleafant, by the friendly and attentive behaviour of our Spanifh friends, of which I was feldom able to avail myfelf, not only from the various matters of bufinefs in which I was deeply engaged, but from the very debilitated ftate of my health, under which I had feverely laboured during the eight preceding months; I was, however, on Wedneflay the 19 th able to join in a party to the valley through which the Monterrey river flows, and was there gratified
with the fight of the moft extraordinary mountain I had eyer beheld. On one fide it prefented the appearance of a fumptuous edifice fallen into decay; the columns which looked as if they had been raifed with much labour and induftry, were of great magnitude, feemed to be of an elegant form, and to be compofed of the fame creamcoloured ftone, of which I have before made mention. Between thefe magnificent columns were deep excavations, rcfembling different paffages into the interior parts of the fuppofed building, whofe roof being the fummit of the mountain appeared to be wholly fupported by thefe columns rifing perpendicularly with the moft minute mathematical exactnefs. The whole had a moft beautiful appearance of human ingenuity and labour; but fince it is not poffible, from the rude and very humble race of beings that arc found to be the native inhabitants of this country, to fuppofe they could have been capable of raifing fuch a ftructure, its being the production of nature, cannot be queftioned, and it may not be prepofterous to infer, that it has been from fimilar phænomena that man has received that architectural knowledge, by which he has been enabled to raife thofe maffy fabricks, which have ftood for ages in all civilized countries.

In this excurfion I had an opportunity of feeing what before I had been frequently given to underfand ; underftand; that the foil improved in richnefs and fertility, as we advanced from the ocean into the interior country.

The fituation we had now reached was an extenfive valley between two ranges oî lofty mountains, whofe more elevated parts wore a fteriland dreary afpect, whilft the fides and the intervening bofom feemed to be compofed of a luxuriant foil. On the former fome pine trees were produced of different forts, though of no great fize, and the latter generally fpeaking was a natu:al pasture, but the long continuance of the dry weather had robbed it of its verdure, and had rendered it not very interefting to the eye; yet the healthy growth of the oak, both of the Englifh and holly-leaved kind, the maple, poplar, willow, and ftone pine, diftributed over its furface as well in clumps as in fingle trees, with a number of different fhrubs, plainly fhewed the fuperior excellence of the foil and fubftratum in there fituations, to that which was found bordering on the fea flore.

The fame uninterrupted ferenity of the weather continued, and on Friday evening the courier from St. Diego returned, but he brought no kind of intelligence whatever; and the 24th being the day fixed for the return of the exprefs to Mexico, I embraced that opportunity for tranfmitting to the Admiralty a brief account of
our tranfactions during the preceding fummer, and a copy of our furveys made in that and the former year, which had been prepared for that purpofe. Thefe documents, agreeably to the advice of the governor and our other Spanifh friends, I took the liberty of addreffing to the - marquis of Branciforte, viceroy of New Spain, and requefted that he would do me the favor of forwarding them to England by the moft early and fafe conveyance.

All expectation of Mr. Broughton's return and of his refuming the command of the Chatham being now at an end, I appointed Lieutenant Puget to that office, Mr. Baker, and Mr. Swaine I removed to be the firft and fecond liéutenants of the Difcovery ; Mr. Thomas Manby I dppointed to the vacant lieutenantcy, and Mr. H. Humphreys, to be the mafter of the Chatham in his room.

Our bufinefs with the fhore now began to draw nigh to a conclufion; the yards, topmafts, and topgallant-mafts were got up, and the rigging put into condition for fea fervice, but a fufficient ftock of water was however not yet obtained; whilft this was completing, I difpatched Lieutenant Swaine on Thurfday morning the 27 th with three boats over to the miffion of $\mathrm{S}^{\text {ta }}$ Cruz, in order to procure a fupply of garden ftuff, as the continuation of the dry weather, here, had made tremely fcarce. Mr. Swaine returned on Saturday evening the 29 th, having been tolerably fuccefsful, fo that with our live ftock and the other refrefhments that Monterrey had afforded, we were likely to take our leave of it, with as good a ftore for the prefervation of health, and to be as well provided for the long and diftant paffage we had to perform, as from any port in the known world. The two following days were employed in receiving on board the tents, obfervatory, inftruments, and all other matters from the fhore, and in getting the fhip in readinefs to proceed.

The variety of objects that had occupied my time whilft at Monterrey, had, as at Nootka, precluded my attending to little more of our aftronomical bufinefs, than that of afcertaining the rate and error of the chronometers, according to the meridian of thefe places as fixed by our former obfervations : yct I had confidered thefe,to be of fufficient authority to anfwer all the purpofes of correcting our furvey of the coaft in the refpective vicinity of thofe ftations. By comparative obfervations made by Mr. Whidbey with Mr. Ramfden's circular inftrument, and thofe made with the artificial horizon by myfelf, I was in hopes of adducing further reafons in fupport of the means I had adopted for fixing of the longitude,
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longitude, and for correcting our general furvey of this coaft during the preceding fummer, between Trinity iflands and cape Decifion ; and I had the fatisfaction to find the fame correfponding accuracy at Monterrey as had appeared at Nootka.

On the 13 th of November in the bay of Monterrey the chronometers fhewed the following longitudes:

| Arnold's No. 14, | - | - | $238^{\circ}$ | $0^{\prime}$ | $50^{\prime \prime}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ditto, 176, | - | - | 238 | 33 | 5 |
| Kendall's | - | - | 237 | 59 | 15 |
| The true longit |  |  |  |  |  |

$25^{\prime} 45^{\prime \prime}$, Arnold's No. 14 appeared to be $24^{\prime} 55^{\prime \prime}$, Kendall's, $26^{\prime} 30^{\prime \prime}$ to the weftward, and Arnold's No. $1 ; 6,7^{\prime} 20^{\prime \prime}$ to the eaftward of the true longitude. And by altitudes taken on fhore with the artificial horizon on the 28th of November, Arnold's No. 14 was found to be faft of mean time at Greenwich, at noon on that day, - - - $5^{\text {h }} 19^{\prime} 23^{\prime \prime} 0^{1 /:}$

And to be gaining on mean time per day at the rate of - $\quad 24 \quad 1$

Arnold's No. 176 was faft of mean time at Greenwich, - 11282130

And gaining on mean time per
day at the rate of - $\quad 5025$

Kendall's faft of mean time at Greenwich, $9^{\text {h }} 58^{\prime} 23^{\prime \prime}$
And gaining on mean time per day at the rate of - - 3053

By equal altitudes taken on fhore with the circular inftrument between the 13th and 29th of November, the following are the ratcs at which the chronometers were found to be gaining. per day ; (viz.)

Arnold's No. 14, - - 2355
Ditto 176 , - . 5019
Kendall's, - - - 3052
The very inconfiderable difference between the rates thus found, and thofe afcertained by the artificial horizon, muft be reccived as a proof of the correctnefs of that method, which fhould be reforted to, whenever better authority cannot be had.

The above true longitude, latitude, variation, and inclination of the marine dipping needle, were found to correfpond with our obfervations made on our former vifit to this place in December, 1792 .

## CHAPTER III.

> Leave Monterrey-Some Account of the three Marias Iflands-Proceed to the Southward-Aftronomical and nautical Obfervations.

THE method that had been purfued to preferve as great a regularity as was poffible in the rate of the chronometers, had fo far fucceeded with No. 14, that its rate as afcertained at Nootka and at Monterrey, differed only 54 ${ }^{\prime \prime \prime}$; this made me very anxious to fall in with fome place whofe longitude had been fettled by profeffed aftronomers, by which means the accuracy of our calculations would be confirmed, or the error they might have been liable to, would by fuch comparifon become apparent; leaving it at the difcretion of geographers, or of thofe who might hereafter follow us, to adopt or reject fuch correction as their own judgment might direct. Fior this purpofe, no ftation appeared to me to be fo eligible as cape St. Lucas, at the fouth extremity of the peninfula of California, (on a moderate computation not more than eight or ten days fail from Monterrey,) as at St. Joreph's, in the immediate neighbourhaod of that promontory, Vol. VI. K the
the tranfit of Venus had been obferved, and other aftronomical obfervations had been made by profeffors in that fcience, whence its pofitive fituation had been correctly determined. But as our obfervations during the preceding autumn for fixing the longitude of the coaft of New Albion, fouth ward from hence to the 30th degree of north latitude, had been all reduced to port St. Diego as a centrat-ftation, and the rate of the chronometers for correcting that furvey had been there afcertained; I deemed it expedient to fteer firft for the ifland of Guadaloupe, for the purpofe of examining whether the fituation we had before affigned to that ifland from the refult of thofe obfervations, would agree with the longitude in which we had now placed Monterrey. .

With a frefh breeze from the N. E. attended with fair and pleafant weather, on Tuefday the 2d of December we quitted Monterrey, and bad adieu to governor Alava, and the reft of our Spanifh friends, from whofe great kindnefs and hofpitality we had not only derived much relaxation and happinefs, but by their attention to our future wants, we had every profpect of a continuation of that health, which now feemed to be eftablifhed, by the refrefhments we had there procured.

From Monterrey bay our courfe was directed to the $S$. Er but in the evening the gale died
away, and after about twelve hours calm, it was fucceeded by light variable adverfe winds, which continued until near noon on Thurfday the 4 th, when it fixed in the weftern quarter, blowing a pleafant gentle breeze. The obferved latitude was $35^{\circ} 29^{\prime}$, longitude $238^{\circ} 16^{\prime}$. The coaft of New Albion was ftill in fight, bearing by compafs from N. E. to N. W. by N. This was the laft we faw of it; the wind between W. N. W. and N. N. W. gradually increafed to a pleafant gale, which by the evening of Monday the 8th brought us in fight of the illand of Guadaloupe; this we paffed in the night, and from the obfervations made on the preceding and following day, which exactly agreed with the fhips run by the log, I had the fatisfaction of finding its fituation exactly to correfpond with that which we had before affigned to it ; hence it is fair to prefume, that the whole of this coaft which has fallen under our examination, has been laid down relatively correctly, however our longitude may be found to vary from other navigators or obfervers.

Having afcertained this fact, and being unwilling to Iofe any opportunity by which the advancement of geography might in the flighteft degree be furthered, I fteered aver to the coaft of California, for the purpofe of fixing in our way towards cape St. Lucas, the pofition of fome of
the moft projecting points between that promontory, and the part where we had quitted its fhores the foregoing autumn; but in fo doing I had no intention of approaching fufficiently near to attempt a minute delineation of the coaft.

At day-light in the moming of Tuefday the 9th we had fight of the illand of Cerros, bearing by compars from E. N. E. to N. E. about ten leagues diftant. This is reprefented in the Spanifh charts to be about ten leagues long, and to be lying before an extenfive bay, on the fhores of the peninfula. The fouth-weftern point of this bay is a very projecting promontory named Morro Hermofo : weft from thence is laid down a fmaller ifland called Natividad. To thefe as the day advanced we drew fomewhat nearer, but the land was ftill too far off to admit of our forming any correct judgment as to the productions of the coûntry, or the hape of its fhores. Thofe of the illand of Cerros wore an uneven broken appearance, though on a nearer view they feemed to be all connected. The fouthern part, which is the higheft, is occupied by the bafe of a very remarkable and lofty peaked mountain, that defcends in a very pecutiar rugged manner, and by projecting into the fea, forms the fouth-weft end of the inland into a low craggy rocky point; this as we paffed at the diftance of five or fix leagues, feemed, like the other part of the inland, to be defti-
tute of trees, and nearly fo of all other yegetable productions. Natividad appeared to be mores moderately elevated, and at noon bore by compans N. $70 \mathrm{E} . ;$ the fouth eaft point of the illand of Cerros, N. 46 E.; the peaked mountain, N. 37 : E. ; its fouth-weft point, $\mathrm{N}_{:}: 2 \% \mathrm{E} ; \mathrm{z}$ its northwefternmoft part in fight; $\mathrm{N}: 20 \mathrm{E} \cdot \boldsymbol{;}$; and ifle de St. Benito, which is a frall iffand, feemingly: with fome rocks and iflets about it, $\mathrm{N}: 1 \mathrm{~K}$. diftant eight or nine leagues. In this fituation the obferved latitude was $27^{\circ} 51^{\prime}$, longitude by Arnold's No. 14, 2440 38. $\mathbf{1}^{\prime}$, by Kendall's $244^{\circ}{ }^{\circ}$ 382' and by Arnold's.No. 176, $244^{\circ}$ '54'. The variation, by the furveying compafs, was at this time $8^{\circ}$ eaftwardly.
'The weather continued to be fair and pleafant, and, with a gentle breeze from the north weft, we proceeded along the fhore. In the affernoon we had fight of what we fuppofed was Marro Hermofo, which at that diftance appeared to be infular, and, itike Natividad, feemed to be mor derately elevated. Although we vere too fax diftant to attempt an accurate delineation of thefe fhores, yet we were enabled pretty clearly to af certain the pofition of their moit prominent points, and, from the refult of our calculations, the ifland of Cerros appeared to form:onits western fideardeep bay, betweenits nomb-iwertand fouth weft points; which are: obout fine leagues $\cdots$ K 3 apart, apart, in a direction N. 20 E. and S. 20 W.; the peaked mountain being the part whofe fituation we were beft able to fix, is in latitude $28^{\circ} 8^{\prime}$, longitude $244^{\circ} 58^{\prime}$. From this mountain the inland St: Benito fies N. 65 W. at the diftance of twenty miles, and the ifland of Natividad S. 4 E. diftant fourteen miles. The latter appeared to be about four miles long, in: S. E. and N. W. direction, and, like the ifland of Cerros, prefented a barren and dreary afpect.' Behind it was the point which we had taken for Morro Hermofo, in latitude $27^{\circ} 52^{\prime}$, longitude $245^{\circ} 7^{\prime}$. The channels round thefe iflands, and between them and the main land, are, in the Spanifh charts, reprefented as clear and navigable; we were not, however, fufficiently nigh to them to fatisfy ourfeIves in this particular. During the night our courfe was directed more foutherly, which, although it kept us within fight of the land, yet by the morning of Wednefday the 10 th, it hadincreafed our diftance further from the coaft than had reafon toiexpect, from the way in which it has been laid down. We were now at the diftance of 12 to 14 leagues; and whether the parts in fight were or were not immediately on the: fea fliore, it was not poffible for:us, to determine, but the fhore was? fufficiently marked to admit of our making the heceffary observations, as we failed along it' for the object I had in
view. The northernmoft point in fight at noon, being the fame land that had formed the northern extremity ever fince the morning, bore by compass N. 3 W . diffant feveňteen leagues, a particular high part, appearing to form the north point of a bay or opening on the coaft, N. ${ }_{17} \mathrm{E}$. at the fame diftance; and what appeared to form a very confpicuous point, from whence the coaft feemed to take a very eaftwardly turn, N. 25 E . diftant thirteen leagues. In this fituation the obferved latitude was $26^{\circ} 48^{\prime}$, longitude $245^{\circ}$ $265^{\prime \prime}$; and, if the above eftimations be correct, the latter point will be found to lie in latitude $27^{\circ} 20^{\prime}$, longitude $245^{\circ} 49^{\prime}$. Several turtles were feen at this time on the furface of the fea, one of which was taken by our fmall boat. Towards fun-fet the weather became cloudy, the wind veered to the fouth ward, and threatened us with a heavy rain, but by midnight the wind refumed its north-weft direction, and the weather became fair and pleafant. Not being in fight of the coaft, on Thurfday morning the i 1 th, I fteered more to the eaftward, and by day-light on Friday the 12 th we were within fight of a high round mountain, which we fuppofed was on the main land of the peninfula, bearing by compafs N. E. ${ }_{\frac{1}{2}}$ E.

The part of the ocean in which we had now arrived abounded with bonitos, albicores, and $\mathrm{K}_{4} \quad$ various
other fifhes of the tropical regions, with a great many turtles. Thefe feemed fo perfectly indifferent to any interruption that we occiafioned them, either by paffing near to, or even over them, that I was induced to fend the fmall boat to take fome of them up, and in about half an hour the returned loaded with thirteen very fine green ones, each weighing from feventy to two hundred pounds. They all proved to be extremely good eating. Some of them were ftuck with the turtle peg, but moft of them were taken into the boat unhurt. The obferved latitude at noon was $25^{\circ} 11^{\prime}$, longitude $247^{\circ} 48 \frac{11}{4}$, and the variation of the compafs $9^{\circ}$ eaftwardly. The above high round mountain at this time bore N. 30 E. diftant 25 leagues; and land fuppofed by us to be an ifland, S. 35 E.; to the eaftward of which our courfe was directed until two in the afternoon, when our conjectures were difcovered to have been ill founded; for, inftead of this land proving to be an ifland, it formed the weft point of a fpacious open bay, the contiguous Thotes to which were very low, and bounded by breakers, whilit the more interior country rofe in fmall detãched hillocks, giving the whole from the deck the appearance of group of iflands, but from the maft-head it was feen to be all connected, for which teafon wauted our wind, and palfed to the weftward of this land, which,
in every point of view, even at a very little diftance, feemed to be infular, owing to the lownefs of the land to the eaftward of the elevated part that forms the point, and which, in a fouth-eaft and north-weft direction, appeared to occupy an extent of about five miles. It is higheft in the centre, from whence its north-weftern extremity fooots out and defcends gradually to a low point of land, with an even furface, but in every other part the acclivity was fteep and irregular; and the farface; broken into deep chafrns, terminates at the water-fide in abrupt rocky cliffs. On its northern fide lies an iflet with fome rocks at a little diftance from the fhore, on which there was an appearance of fome verdure and fertility, but where its furface was rocky and broken it had a fteril and barren afpect. In the evening we paffed within about five miles of this point, which I fuppofed was the fouth point of the bay de la Magdalina, and which, according to our obfervations, is fituated in latitude $24^{\circ} 53^{\prime}$, longitude $247^{\circ} 56^{\prime}$, from whence, in a fouth-eaft direction, at the diftance of about three or four leagues, is another elevated part of the coaft, which, like the former, at a little diftance, has the appearance of being infular. As the coaft, for fome extent to the fouth-eaftward of this ftation, is in the Spanimh charts reprefented as low, and dangerous to approach, we ftretched to the fouth-eaftward during . the
the night, and on Saturday morning the 13 th, there being no land in fight, we food to the eaftward, and foon regained a diftant view of the coaft, which was high and mountainous.

Being favored with a fine gale from the northweft, and delightfully pleafant weather, we made great progrefs towards the land, for which we continued to fteer until nine in the evening; when, being in 80 fathoms water, and conceiving the land to be not far off, we hauled to the wind and plied under an eafy fail, with foundings from 80 to 90 fathoms, until five on Sunday morning the 14 th, when we again food towards the land, and to our great furprize, at day-light, found it to be eight leagues diftant, and bearing by compafs. from N. 54 E. to S. 68 E. By ten in the forenoon we were within about three leagues of the fhore, at which time we bore away, and fteered for cape St. Lucas. The parts of the coaft to which we were now oppofite were in a great meafure compofed of fteep white rocky cliffs, from whence the country rofe with a very broken and uneven furface to a ridge of ftupendous mountains, which were vifible at a great diftance into the ocean. The fhores jut out into fmall projecting points that terminate in abrupt cliffs, and having lefs elevated land behind them, gave them at firft the appearance of being detached inlands along the coaft, but, on
a nearer approach, this did not feem to be the cafe. . The general face of the country was not very inviting, being deftitute of trees and other vegetable productions.

The obferyed latitude at noon was $25^{\circ} 12^{\prime}$. longitude $250^{\circ}$, and the variation of the compais $7^{\circ}$ eaftwardly. At this time the northernmont part of the exterior coaft of California in fight bore by compafs N. 15 E . the neareft fhore N. 63 E. diftant three leagues, and a point to the northward of, and intercepting our view of cape St. Lucas S. 39 E. diftant fix leagues, beyond which the cape foon appeared, and was found to lie from that point S. 47 E. diftant two leagues. In the afternoon we paffed this point, or promontory, which gradually, though not very regularly, defcends from the range of mountains before mentioned, and terminates at its fouth extremity in a hummock of low, or very moderately elevated land, that had the fame rocky fteril appearance as that we had been op, pofite to in the morning.

The weather had been very favorable to the object I had had in view in thus directing our courfe to the fouthward. According to our obfervations cape St . Lucas is fituated in latitude $22^{\circ} 52^{\prime}$ longitude $250^{\circ} 16^{\prime} 18^{\prime \prime}$. The :very fharp turn which the coaft takes from that point towards the gulph of California, enabled us in a
very precife manner to afcertain the moft projecting part of the cape, which according to the Spanifh charts, and the information I had procured from the Spaniards themfelves, is fituated under the fame meridian as their eftablifhment of St. Jofeph, and which agreeably to the Spanimh printed chart compiled by Miguel Coftanfe in 1770 , is fated to be in latitude $23^{\circ} 3^{\prime} 42^{\prime \prime}$, longitude $250^{\circ} 17^{\prime} 30^{\prime \prime}$. On the confirmation of our calculations by this authority I derived much gratification, as I had now great reafon to prefume, that the pofition of the weftern coaft of America between cape St: Lucas in California, and cape Douglas in Cook's inlet, ias heretofore ftated by me, would be found tolerably correct. The very trivial variation that had occerred in the rate of Arnold's No. 14 for the preceding two or three months, induced me to place my principal reliance upon it, and by which the longitude of cape St . Lucas differed from the above, only $1^{\prime} 12^{\prime \prime}$. By Arnold's No. 82 on board the Chatham, the longitude of the cape was $250^{\circ} 9^{\prime}$; Arnold's No. 170 , gave $250^{\circ} 37^{\prime}$; and Kendall's, $250^{\circ} 21^{\prime} 30^{\prime \prime}$. From thefe feveral refults it fhould $\cdot$ feem, that Arnold's No. 176 varied moft from the truth; and as I have had occafion before to obferve, this deviation may poffibly have arifen by the motion it received on its
being taken on fhore, for the purpofe of difcovering its rate of going.

As the fituation of the Marias illands lying between cape St. Lucas and cape Corientes before the port of St. Blas, had been varioufly defined by different perfons, and as thefe iflands were nearly in our route, an opportunity was likely to be afforded me for determining their pofition; and on confidering the length of the paffage we had yet to perform, I was induced to hope we might at thofe inlands be able to recruit our ftock of water; for thefe reafons our courfe was directed towards the Marias, with a frefh gale from the northward, and delightful weather. The fea ftill abounded with filh, and feveral turtle were feen; but as our former fupply was not yet exhaufted, and as the gale was too favorably tempting to admit of a moment's delay, they remained unmolefted.
3. According to Damprer, the illands for which we were then fteering are fotuated E.S. E. at the diftance of 40 leagues from cape St. Lucas; according to the Spanifh chart 47 leagues; and by the Spanifh MS. chart they are ftated to be 60 leagues from that promontory. This irreconcidable difference rendered it no eafy talk to determine on which to rely; the difference in the Spanifh charts rendered the accuracy of each equally queftronable, and our own experience had
had proved both of them to be very erroneous in feveral inftances. Under this uncertainty, about nine o'clock on Monday the 15 th, at night, being then 42 leagues from cape St. Lucas, and in the direction in which the Marias were faid to lie, we plied under an eafy fail until the next morning, Tuefday the 16 th, when we made all fail, fteering to the E.S.E. which courfe, by nine in the forenoon, brought us in fight of thofe illands, bearing by compars E. $\frac{1}{2}$ N. ; in this direction we inftantly fteered, but as we were not fufficiently up with the land to gain anchorage before dark, the night was paffed in preferving our fituation with the land, and in the morting of Wednefday the 17 th, we fteered for the paffage between the northernmoft and the middle, or Prince George's illand, fo diftinguifhed by Dampier. The moft northern and largeft inland of this group, is about thirteen miles long, in a S. E. by E. and N. W, by W. direction, which is alfo nearly the line in which thefe iflands feemed to lie from each other. As we paffed.along the northernmoft ifland it appeared to be but maderately elevated, notwithftanding that we had deferied it at the diftance of near 18 leagues; its higheft part is towards the fouth, from whence it gradually defcends and terminates in a long low point at its noth-weft extremity, which caccording to our obfervations is fituated S. 68 E.
and at the diftance of 64 leagues from cape St. Lucas. A low detached iflet, and a remarkably fteep white cliffy rock, lie off this point of the ifland, whofe thores are alfo compofed, but particularly fo on its fouth-weft fide, of fteep white rocky cliffs ; the fame fort of fubftance feemed to be its principal component part, and although in fome places it was tolerably well covered with low hhrubs, yet upon the whole it prefented but a dreary and unproductive fcene. Its fouth-eaftern extremity, which likewife defcends gradually from the fummit of the ifland, terminates alfo in a low projecting point with fome rocks lying off from it. On either fide is a fmall bay; that on the eaftern fide is bounded by a beach, alternately compofed of rocks and fand, and as we gained foundings of 35 fathoms at fome diftance as we paffed by it, little doubt was entertained of its affording good anchorage, provided the bottom fhould be good; as it is protected againft the general prevailing winds. The furf however broke with fome violence on its flores, and as it did not feem from the fcanty portion of its vegetable productions, and the apparent drynefs of the foil, to poffefs what we principally, and indeed only wanted, water; we proceeded towards that ftation which Woods Rogers defcribes to have occupied, and where about the fame feafon of the year, he procured a great fupply of excellent
excellent water. This was on the north-eaft fide of Prince George's ifland. In our way thither we paffed between Prince George's and the north wefternmoft iflaṇd, in a paffage about fix miles wide, with foundings from 20 to 40 fathoms, fandy bottom, and fo far as we became acquainted with its navigation, it is free from danger or interruption. The fouth-weft fide of Prince George's ifland is bounded by detached rocks lying at a fmall diffance from its fhores; thefe in general, but more fo on its northern and eaftern fide, defcend gradually from the center of the ifland (whofe fummit is nearly as high as that of the northernmoft ifland $d_{2}$ ) and terminate at the water-fide in a fine fandy beach. This was infinitely more verdant than the other iland, as its vegetable productions extended from the more elevated parts to the wafh of the fea, and grew with fome luxuriance though we did not perceive any trees of great fize on the ifland, nor did it feem to afford any.ftreams or runs. of frefh water. Some gullies were feen as we paffed along, which in addition to the cheerfyl appearance of the country, flattered us with the hope, that on further examination they would be found to afford us the fupply of water we needed. -Háving fhortly after noon, reached the fpot pointed out by former vifitors as moft likely to furnilh this effential article, we anchored on a
clear
clear fandy bottom, in 10 fathoms water, about three quarters of a mile from the fhore, on the north-eaftern fide of Prince George's illand; its eaft point bearing by compafs S. 16 E . about two miles and a half diftant; its north-eaft point, N. 68 W. diftant two miles; the north point of the northernmoft ifland, N. 46 W . about fix leagues diffant; and the moft fouthern ifland, which is the fralleft, from S. 21 E. to S. 45 E . about four leagues diftant.

Two boats were immediately difpatched with Mr. Whidbey and Mr. Manby in different directions in queft of water, which however, if found, could not be got on board without fome difficulty, on account of the furf which broke on every part of the flore, but not fo violently as to prevent the parties from landing. In the evening both returned; Mr. Whidbey had extended his excurfion to the north-weftward from our anchorage, without finding any water, and Mr. Manby had been equally unfucceefsful to the fouth-eaftward round the fouth point of the ifland. On its fouth-eaft fide the beds of many fpacious water courfes were feen, which in the rainy feafon appeared to give vent to copious ftreams, as fome of them wefe twenty feet in width. In fome a moiftnefs was obferved, and Mr. Mariby was of opinion, that by digging wells, water might have been procured. A fupply by Vox. VI.

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this means was however precarious, and as we could not devote any time to uncertainties, I determined to depart wit. out further delay, and at eight o'clock we were again under fail.

Our vifit to thefe iflands not having afforded us an opportunity of making a very accurate delineation of their fhores, or of acquiring fuch information as might render them objects worthy the particular attention of future vifitors to thefe feas, I have not fubjoined any fketch of them, and fhall content myfelf by noticing, that the anchorage we quitted, is fituated according to our obfervations made on the preceding day, and the day after we failed (not having obtained any obfervations on the day of our arrival and departure) in latitude $21^{\circ} 28^{\prime}$, longitude $253^{\circ}$ $54^{\prime}$; and that in a direction N. 50 W . and S. 50 E.; thefe iflands occupy a fpace of about 14 leagues; the length of the northernmoft has been already ftated, its breadth is about nine miles; the next in fize and direction is Prince George's ifland, this is about eight leagues in circuit; and the third, or fouth-eafternmoft, is about nine miles round. In navigating near them we obferved no danger; fome detached iflets and rocks are about the fhores, but all are fufficiently confpicuous to be avoided; and the regularity of the foundings, fo far as our examination extended, gave us reafon to believe, that
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round the wordd.
fecure anchorage might be obtained againft the prevailing winds, at a commodious diftance from the fhore.

From the gentlemen who had landed (being myfelf from the the ill ftate of my health unable to go on fhore) I became acquainted, that the foil of Prince George's ifland feemed to be principally of a fandy nature, on which the chief valuable production was lignum vita, befides which, was an almoft impenetrable thicket of fmall trees and bufhes of a thorny nature, together with the prickly pear, and fome plants of the orange and lemon tribe; the whole growing as clofe to the water fide as the wahh of the furf would permit. Some of the lignum oitce which was cut clofe to the beach and brought on board, worked up full eight inches in diameter at heart; this wood was very ponderous, of a clofe black grain, and extremely hard. Before this time I did not recollect to have met with this fpecies of wood growing on any of the iflands in thefe feas, and it is not improbable, that in the more interior parts of this ifland the trees may be of a much larger fize. About the outkirts of the woods, for excepting where in the rainy feafon the defcending waters had formed a path, the thicket was impenetrable ; many birds were feen, thofe of the larger kind were hawks of feveral forts, green parrots with yellow heads, paroquets,

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\text { L } 2 \text { pigeons, }
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pigeons, doves, and a variety of fmall birds, many of which were of beautiful plumage. Pelicans, gulls, curlews, terns, and fandpipers were obferred, but no quadrupeds were feen, although in the fand on the bottom of fome of the watercourfes Mr. Manby noticed the footing of an animal, which he confidered to be about the fize of a fox; many turtle tracks were on the beach, and nearly a hundred of dead manatee, or feacows, were lodged at fome diftance beyond the prefent range of the furf. The carcaffes of thefe animals, from their then ftate of putrefaction, were confidered by Mr. Manby to have been fo left about ten or twelve days before, and as they all feemed to be nearly in the fame ftate of decay, the only conjecture that could be reafonably formed, was, that they had been fo depofited in a violent foutherly ftorm. They were eagerly devoured by the vultures, hawks, and other birds of prey that had affembled about them in great numbers, and it appeared to be not improbable that the carnivorous animals of the Marias are frequently regaled with fuch fumptuous repafts, for, befides the fea-cows that remained intire, the fkeletons of many hundreds of the fame or fimilar animals had been in like manner caft on fhore, at more remote and different periods. A variety of fifh common to the tropical regions were feen in great numbers about the fhores;
amongft thefe the fharks were very bold and daring, they followed the boats, and made repeated attempts to eatch the oars, in which one of them at length fucceeded, but with the lofs of five of its teeth, which were left in the blade of the oar. A few fnakes and guannas were alfo feen, and fome of the latter were very good eating. No traces of human vifitors were perceived, though on fhore fome drift wood was found, with evident marks of its having been worked or hewn with Eurapean tools.

This appeared to me to be the fubftance of the information we acquired by calling at thefe illands, which are not more than 160 leagues from Acapulco, and in the immedrate vicinity of St. Blas. In the Spanifh M. S. chart they are placed weft from that port, at the diftance of about 20 leagues, which appeared to correfpond exactly with our obfervations, in refpect to the bearings from cape St. Lucas, and to differ only three leagues in the diftance from that promontory ; this was further proved (fo far as eftimated diftances could be relied upon) by the diftant view we had had of the continent in that direction at our laft place of anchorage; notwithftanding which, thefe iflands do not feem to have engaged or attracted the attention of the Spanift government.

As on leaving the Marias it was my intention L 3 , to
to make cape Corientes, in order to afcertain its latitude and longitude, our courfe was directed between the inlands and the main land; fteering well to the eaftward at firft, in order that we might avoid a fhoal faid to extend fome diftance from the fhores of the fouthernmoft of the Marias ; at midnight we purfued a more foutherly courfe, but the wind, though attended with fine pleafant weather, was fo moderate, that at daylight on Thurfday the 18 th, the iflands we had left were ftill in fight, bearing by compais the fouthernmoft from N. 82 W . to N. 72 W.; Prince George's ifland, from N. 70 W . to N. 64 W . the eaft point of the northernmoft, N. 58 W.; âd a diftant view of the continental fore from N. E. by N. to E. by S. This was too remote. to form any judgment refpecting the country, further than its appearing to have a very lofty and uneven furface, fwelling into various eminences of different forms and magnitude.

The obferved latitude at noon was $21^{\circ}$, longitude $254^{\circ} 27^{\prime}$, and the variation of the compafs $7^{\circ} 30^{\prime}$ eaftwardly. In this fituation the high land over cape Corientes bore by compafs S. 25 E., land appearing like a fmall inland, lying at fome diftance from the continent S. 66 E .; the northernmoft part of the main land in fight N. N. E., and the fouthernmoft of the Marias nands N. 58 W., diftant nine leagues. Miuch
to our furprize, in the afternoon we approached a fmall black rugged rock, or, more properly fpeaking, a clofely connected clufter of fmall rocks, which though deferving of attention, from their fituation, and the fafety of the navigation between cape Corientes, St. Blas, and the Marias, yet they are not inferted in either of the Spanifh charts, nor do they appear to have been noticed by any former vifitor with whofe obfervations I have become acquainted. The fpace they occupy does not appear to exceed the dimenfions of a large fhip’s hull, nor are they much higher. They are at a great diftance from any land, and, fo far as we could perceive on paffing by them at the diftance of about half a league, the water near them appeared to be deep in every direction. We could not gain foundings clofe round them with the hand-line, nor did this fmall rocky group feem to be fupported by any bed of rock or fhallow bank. The floores of the main land, to the eaftward of them, at the diftance of about eight leagues, appeared to be broken, and about ten miles within them are two fmall iffands. Thefe rocks, according to our obfervations; are fituated in latitude $20^{\circ} 45^{\prime}$, longitude $254^{\circ} 27^{\prime}$, lying from the land mentioned at noon as appearing like an inlet S. 76 W . fix leagues diftant, and from the fouthernmoft of the Marias S. 36 E . at the diftance of 12 or 13 leagues.

In the evening the breeze that had been very moderate all day, frefhened, and towards midnight we paffed cape Corientes, at the diftance of about five leagues; this time was rather unfavourable for the fixing of its pofition; but as it was ftill in fight at day-light the next morning, Friday the 19 th, bearing by compafs N. 8 E. and having been conftantly within our view. during the night, I fhould fuppofe that it's fituation as refulting from our obfervations will be liable to no very matenal error. Thefe placed cape Corientes in latitutie $20^{\circ} 22^{\prime}$, longitude $254^{\circ} 40^{\prime}$; from whence if this ftatement be correct, the above rocky group will be found to lie N. 26 W . at the diftance of nine leagues.

The American coaft to the fouthward of cape Corientes not continuing to take a direction favorable to our route, we were no longer defirous of keeping near its hhores, and I therefore made the beft of our way towards the ifland of Cocos and the Gallipagos, with an intention of ftopping at one or both of thofe places. At noon the obferved latitude was $19^{\circ} 15^{\prime}$, longitude $254^{\circ} 48^{\prime}$; the coaft at this time was ftill in fight, bearing by compafs north, from N. 85 E . and its neareft part N. E. about ten leagues from us. We were now accompanied by many of the tropical fimes, and oceanic birds, and notwithftanding that we had a fref breeze from the north-weftward, the weather
weather was very fultry and unpleafant. The thermometer within thefe two days had rifen from 70 to 81 , and the heat that we now experiençed was attended with a degree of oppreffive inconvenience, that exceeded any thing of the fort I had ever before felt, under fimilar circumftances of fuch an alteration in the height of the mercury. The unpleafantnefs of the atmofphere on Saturday morning became greatly increafed by the north-wefterly wind dying away, and by its being fucceeded by calms of light variable airs. The atmofphere was perfectly clear, ferenc, and unincumbered either with fogs or clouds, which made it very difficult to account for the extraordinary change in the climate between our then fation and the three Marias inlands, as the diftance did not exceed 70 leagues. 'This may poffibly be acounted for by the projecting promontory of cape Corientes, and other parts of this mountainous country intercepting thofe cool refrefhing gales from the north that are fo grateful and acceptable to the human conftitution.

That part of the globe we had now to pafs over having been little frequented by perfons poffeffing the means of making due obfervations on the vertical inclination of the magnetic needle, I purpofed to procure fome obfervations at different intervals when the fhip was fufficiently fteady
for this purpofe. This day in latitude $18^{\circ} 20^{\prime}$, longitude $255^{\circ} 40^{\prime}$, the marked end, north face eaft, fhewed
Ditto Ditto Weft, 383

Ditto South face Eaft, 343
Ditto Ditto Weft, 3620
Mean vertical inclination of the
north point of the marine dipping needle - - $\quad 3641$

The horizontal inclination or variation was about $60^{\circ}$ eaftwardly.

A continuation of very light winds made our progrefs very flow, through an ocean on whofe furface great numbers of turtles, in every direction, were lying afleep, and we had only to lower down the boat, and without interrupting the progrefs of the fhip, make choice of as many as we required; though under our prefent circumftances we would readily have waved the acquifition of thefe luxuries for a little more wind, as with that which now prevailed, the hip's motion through the water was fcarcely perceptible.

We had again fight of the American coaft on Sunday morning the 21 ft ; it bore by compars from N. 5 E. to eaft, to N. 72 E.; but at fo remote a diftance that we loft every appearance of it by noon, when the obferved latitude was $17^{\circ}$ $50^{\prime}$, longitude $255^{\circ} 52^{\prime}$. During the two preceding cerling days we had very light variable winds from the eaftward and S. E. with alternate calms, and very oppreffive fultry weather ; but by Thurfday the 25th we had fome little alleviation, as the wind then blew a moderate fteady breeze from the north-weftward. Whilft the light winds continued we were greatly incommoded by a very heavy fwell from the fouth-eaftward, which made the fhip extremely uneafy; this had now in a great meafure fubfided; but the weather though perfectly clear was ftill very hot and fultry, the thermometer night and day varying from 81 to. 83. Had it not been for our anxious folicitude to get forward, and the exceffive heat of the weather, our fituation would have been by no means unpleafant; the ocean was tranquil, and abounded with a great variety of filh; its furface as it were was covered with turtles, and the numerous fea fowls hovering:over, and diving for their prey, prefented fuch an animated feene, as the ocean, unaffifted by intervening land, or other objects, is feldom, I believe, found to exhibit. We were here at no lofs to provide a repaft for this our fourth Chriftmas day fince we had quitted the civilized world; and with the addition of the frefh beef, mutton, and poultry we had brought from Monterrey, the officers tables prefented fach an appearance of luxury as
is not frequently feen in fuch diftant regions of the ocean. In addition to our frefh provifions, and what the fea afforded, the people were ferved fuch an extra allowance of grog as was fufficient for the celebration of the day, and to call to their recollection their friends and favorites at kome; on which occafion, though perhaps the circumftance may appear too trivial here to be noticed, yet as the fentiment arofe fpontaneoully from the gratitude of the crew, I am induced to mention it; the memory of $\operatorname{Sen}^{r}$ Quadra, and the health of Tamaahmaah were not forgotten.

The fame light baffling winds continued to impede our progrefs, which was tardy and irkfome beyond all defcription; in addition to which, fome of our water cafks were found to have leaked out; this, very contrary to my wifhes, obliged me to reftrain the allowance of water to three quarts a man per day. So very flowly did we proceed, that by Wednefday the 31 ft at noon we had only reached the latitude of $13^{\circ} 50^{\prime}$, longitude $259^{\circ} 5^{\prime} 30^{\prime \prime}$; the latter was deduced from 116 fets of lunar diftances, as follow, with the fun and aldebaran on different fides of the moon between the 27 th and 31 ft of December. Thofe taken on the 27 th, and brought forward by Arnold's No. 14, gare the following refults.

The
1794.]

The mean of


| 6 | $D$ | ab aldebaran eaft of her, | Mr. Whidbey, | 259 | 52 | P |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 6 | ditto | Mr. Baker, | 260 | 14 | 17 |  |
| 4 | ditto | Mr. Manby, | 260 | 8 | 10 |  |
| 6 | ditto | Mr. Orchard, | 259 | 55 | 38 |  |

6 D a 黄 weft ofher, taken 31ft Mr. Whidbey, 2594650
6 ditto Mr. Baker, 2594147
6 ditto . Mr. Manby, 2594743
6. ditto - Mr. Orchard, 259472

4 D ab aldebaran eaft of her, Mr. Whidbey, $25952 \quad 4$
6 ditto ; Mr. Baker, $2595 S 10$
6 D ab aldebaran eaft of her, Mr. Manby, $25955 \quad 7$
6 ditto Mr. Orchard, 260152
3 ditto Myfelf, 2595825
3 days' obfervations, in 28 fets, Mr. Whidbey, 259475

| ditto | 28 | Mr. Baker, | 259 | 48 | 55 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| ditto | 28 | Mr. Manby, | 259 | 55 | 51 |
| ditto | 29 | Mr. Orchard, | 259 | 54 | 19 |

The mean of the whole, collectively taken, being the refult of 116 fets of lunar diftances, fhewed the longitude, at noon on the 31 ft of
December, 1794, to be - 2595145
At which time Arnold's No. 14 fhewed $\quad 260 \quad 630$ No. 176 - - $26053 \quad 36$
Kendall's - - $\quad 2604645$
And by the dead reckoning - 260

Hence,

Hence, as I confidered the longitude deduced from the lunar obfervations to be correct, or nearly fo, it will appear evident that the chronometers, fince the commencement of the very hot weather, had been gaining confiderably lefs than the rate we were allowing as afcertained at Monterrey; for which reafon a new rate was, from thefe and fubfequent obfervations, found and adopted for pointing out our longitude, by the chronometers, from this ftation fouthward to the inland of Cocos.

By this mode No. 14, at noon, on the 31 ft of December, rappeared to be faft of mean time at Greenwich, - - $\quad 5^{\mathrm{h}} 31^{\prime} 30^{\prime \prime} 45^{\prime \prime \prime}$

And to be gaining on mean time per day at the rate of, 20
No. 176 , faft of mean time at Greenwich on the fame day, $\begin{array}{llll} & 11 & 51 & 59 \\ 45\end{array}$

And to be gaining on mean time per day at the rate of, - 415

Kendall's faft of mean time on the fame day, $\quad-\quad-\quad 10114345$

And to be gaining on mean time per day at the rate of, - $\quad 2135$

## CHAPTER IV.

# $\sqrt[V]{\text { it the }}$ Illand of Cocos-Some Defcription of that Ifland-Aftronomical and nautical Obfervations there-Proceed to the Southward-Pafs between Wenman's and Culpepper's Iflands-See the Gallipagos Iflands, and afcertain their Situation. 

DURING our paffage thus far from Monterrey, it did not appear that we had been much affected by currents, the $\log$ and the obfervations having in general correfponded very nearly, and the difference between the longitude, by the dead reckoning, and that which I confidered to be the true longitude, had not exceeded half a degree, the dead reckoning having been in general to the eaftward of the truth.

- The wind in the north-weftern quarter continued to blow a fteady breeze, and as we advanced to the fouth-eaftward it increafed in its force ; the heat was lefs oppreffive, and the mercury in the thermometer fell to a general temperature of about 78 ; the atmorphere was commonly clear, and the fea, which was remarkably fmooth, abounded with immenfe numbers of flying fifh, dolphins, bonitos, albicores, and a
great variety of fmaller fifh; of turtles we eafily procured as many as we could difpenfe with.

By noon on Monday the 5th we had reached the latitude of $9^{\circ} 2 \hbar^{\prime}$, and the longitude, brought forward from the preceding lunar obfervations, with the new rates of the chronometers, was fhewn by Arnold's No. 14 to be $263^{\circ} 36^{\prime} 15^{\prime \prime}$, No. $176,263^{\circ} 34^{\prime} 15^{\prime \prime}$, and by Kendall's $263^{\circ}$ $40^{\prime}$; the dead reckoning at this time hewed $265^{\circ} 33^{\prime}$; whence it became evident that we were now materially affected by a current fetting to the weftward, as this deviation had been gradually increafing fince the 31 ft of December, and by our daily obfervations for the latitude, the direction of this current feemed to be irregularly between the north, fometimes correfponding, and at others to the fouth of the obfervations.

In this fituation the vertical inclination of the magnetic needle was as under :

Marked end North face Eaft - $24^{\circ} 50^{\prime}$
Ditto ditto Weft - 2530
Ditto South face Eaft, - 2445
Ditto ditto Weft, - 2430
Mean inclination of the marine dipping needle - - 2454
The variation being about $7^{\frac{1}{2}}$ degrees eaftwardly.

The two fucceeding days we were fet to the fouthward, at the rate of about half a mile per

- hour, and on Wednefday the 7 th the wind from the north-eaftward again became very light, and I found it neceffary to begin diftilling frefh water from the fea; by this'procefs, without any great additional expenditure of fuel, a fupply of from twelve to eighteen gallons of freh water was procured in the courfe of each day; and although it could not be confidered of the firft quality, yet it was perfectly frefh, and applicable to all the purpores of cooking. In this refpect it was highly acceptable, as by the affiftance of the diftilled water, we were enabled to appropriate to greater advantage the abundant refrefhments which the fea ftill continued to afford, and which were fome compenfation for the very tedious and tardy progrefs that the faint baffling winds permitted us to make.

Since Wednefday we had frequently noticed very ftrong riplings on the furface of the water, but felt fcarcely any. effect from currents. The obferved latitude on Sunday the 11 th was $7^{\circ} 47^{\prime}$, longitude, by Arnold's No. 14, $266^{\circ} 27^{\prime}$; No. $176,260^{\circ} 20^{\prime}$; Kendall's, $266^{\circ} 33^{\prime}$; and by the dead reckoning $268^{\circ} 32^{\prime}$; fo that admitting No. 14, as I conceived it to be, neareft the truth, the error in the reckoning, fince the 5 th, had only increafed $19^{\prime}$. The variation of the compafs was now about $s^{\circ}$ eaftwardly. During the laft week the clouds, particularly in the northern quarter,

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had fometimes hung about the hronzon very dark and heavily, but they had now difperfed without any rain, excepting about noon on the preceding day, when we had a fmart fhower that lafted nearly two hours, and was the firt rain that had fallen with us fince our arrival at Monterrey in the beginning of November laft.

As we thus gently advanced to the fouth-eaftward, the riplings on the furface of the water became more frequent, and were attended with a greater degree of agitation, making a ruftling hiffing noife, like a tide in hoal water; and though we felt fomething of their influence, they feemed infinitely more to affect the Chatham in her fteerage; yet, from the refult of our obfervations, they did not appear to be the confequence of any current, which gave rife to an idea, that probably the fpace we were then paffing over was of very uneven bottom. To afcertain this fact foundings were tried, but no bottom was found in there riplings with 140 to 170 fathoms of line. During the night of Monday the 12 th , and until noon the following day, we had a frem breeze from the N. N. E., which afterwards veered round to the eaftward and E.S.E, nearly in the direction in which I wifhed to ftect. On Wedneilay noon we had reached the latitude of $5^{\circ} 37^{\prime}$, longitude $208^{\circ} 31^{\prime}$, approaching nearly to the paraliel of the iffand of Cocos, and about two
or three degrees of longitude to the weftward of its meridian, accbrding to the different accounts of its fituation in the ocean; and as we had no indication whatever of our having left it to the weftward of us, our courfe was directed eaftwardly, as the moft probable means of finding the inland.

We were fill attended by vaft numbers of fifh, varying bath in fize and fpecies; few birds wc now about us, and the abundance of turtles was fo much decreafed, that, on Thurfday the 15th, notwithftanding the day was for the moft part calm, our boat's crew caught only two. The weather fill continued clear, and gave us fo good a view all around us, that had any land been within the limits of our horizon, it could not have efcaped our notice. After having paffed to the fouth of the 6th degree of north latitude, we again found ourfelves under the influence of the current, that, during the 14 th, had fet us $18^{\prime}$, in a direction S. 47. E., and, during the laft twenty-four hours, at the fame rate, in a direction N. 62 E. A light breeze fpringing up foon after noon from the north, we purfued our eaftwardly courfe, intending to incline a little to the fouthward. This however we were prevented doing, from the current continuing to fet to the E. N.E. at the rate of a mile per hour; fo that at noon the following day, Friday the 16 th, our ou-

$$
\mathrm{M}_{2} \quad \text { ferved }
$$

ferved latitude was $5^{\circ} 51^{\prime}$, and the longitude $269^{\circ} 32^{\prime}$.

The tranquil ftate of the wind and fea, which with fo little interruption had for frech a length of time attended us, now feemed likely to undergo a very material change: A very heavy fwell rolled from the weftward, and the atmofphere became loaded with denfe, heavy clouds, particularly between the S. E. and S. W.; in this direction our view was limited to a very few miles. The wind now blowing a gentle breeze from the N. W. a more foutherly courfe was purfued, in the hope of regaining what we had loft by the current having driven us to the northward. Towards midnight, after about three hours calm, the wind came from the fouthward, and obliged us to fteer again to the eaftward; this I much regretted, as we had not, with all our efforts, yet been able to get fo far fouth, as the latitude affigned to the inland we were in queft of, which according to Lord Anfon's voyage is ftated to be in $5^{\circ} 20^{\prime}$, and by the Buccaneers in $5^{\circ} 15^{\prime}$. I could not help being apprehenfive, that a continuation of thefe adverfe winds and currents would oblige us to pafs to the northward of the illand without feling it; for, by cur obfervations on Saturday the 17 th, after making every allowance, inftead of our being in latitude $5^{\circ} 22^{\prime}$, which was hewn by the reckoning,
ing, the refults of our meridional and d able altitudes (which agreed extremely well together) proved our latitude to be $5^{\circ} .46^{\prime}$, and that we were alfo feveral miles to the eaftward of our ac: count, the longitude being $270^{\circ} \cdot 37^{\prime}$. . The rariation at this time was $8 \frac{10}{}{ }^{\circ}$ eaftwardly:

Between this and the preceding:noon, we had pafled over upwards of a degree of longitude, without being able to fee far to the fouth of the latitude of $5^{\circ} 30^{\prime}$, owing to very thick hazy gloomy weather; hence it was very poffible, that we might have paffed to the northward of the ifland of Cocos. This was confidered by fome on board to have been highly probable, from the circumftance of our being now attended by raft numbers of the different fpecies of birds that are generally found frequenting the fhores of the uninhabited tropical iflands; but this did not amount to proof, as thofe birds might have been attracted to the neighbourhood of our then fituation by the great numbers of bonitos, albicores, and other fifmes, with which the fea at that time abounded: and as we were fuceefsful in taking as many of them as we could make ufe of, they made us ample amends for the deficiency of turtle, which did not appear to be an object of much regard, as I believe moft of us began to be tired of that food, which was only ufed to diverfify our other provifions.

The currents with which we had met, thewed that little reliance was to be placed on the longitude, affrgned to any land in this part of the ocean, from the teftimony of thofe who had fo long fince vifited thefe regions, but who had not been provided with the means we poffeffed for afcertainirg the ftrength and direction of thefe fireams.

For fome days paft we had been fet confiderably to the eaftward, and as, from the feveral authorities I had confulted, it did not appear that we had yet reached the moft eaftern fituation affigned to the ifland in queftion, the prefumption was that it was ftill to the eaftward of our prefent track; and although I fhould have been graty mortifed to have been obliged to abandon an object that had fo much attracted my attention, yet, from the reduced fate of our water in confequence of this unexpectedly tedious paffage, and the worn-out and defective ftate of our wa-ter-cafks, the reaching of the ifland of Cocos became a matter more of neceffity than choice; as I was very unwilling to enter any port in the continent. There feemed, however, no profpect of effecting this, unlefs we fhould be able to thape fuch a courfe as would counteract the ftrength of the adverfe north-eafterly current. For this purpore, with the wind at S. S. W. we itcered to the S . E. and in the evening had a tolerably
leabbly diftinct view a-head, but the fouth-weft horizon was fill obfeured in dark denfe clouds, and baze; the night was moftly calm, but in the following morning, Sunday the 18 th, the weather was ferene and clear, attended with a gentle breeze from the $\mathbf{N}$. W, with which we fteered to the fouth and at noon were in latitude $5^{\circ} 33^{\prime}$, longitude $277^{\circ} 7^{\prime}$; having been fet during the laft twenty-four hours $13^{\prime}$ to the north, and $11^{\prime}$ to the eaft of our reckoning.

The clear weather was not of long continuance in the fouthern quarter, although the oppofite fide of the horizon retained its former appearance; for by fun-fet we could not fee a mile from the thip in the eaftern, fouthern, or fouth-weftern quarters. The various kinds of birds became more numerous, and having at length reached the ftated parallel of the ifland, we plied during the night, which was attended by variable winds, fome rain, and dark gloomy weather. This continued until noon the next day, Monday the $19 t h$, when the obferved latitude was $5^{\circ} 1 \cdot 4^{\prime}$, longitude $271^{\circ} 9^{\prime}$; being $10^{\prime}$ to the north, and $4^{\prime}$ to the eaft of what the $\log$ fhewed. The weather now: admitted of an cxtenfive ricw all round, but no land was in fight; and as the number of birds was confiderably leffened, fome additional reafons were offered in fupport of the former opinion, that we had left the ifland to the fouth-weftward

were not quite fo numerous as on the preceding evening. The night was calm or accompanied with light variable winds, which continued with rain and dark gloomy weather until noon the next day, fo that no obfervations could be obtained for afcertaining the flip's fituation: we had however made fome progrefs, as the illand now bore by compafs N. 73 E. to N. 81 E. not more than 6 or 7 leagues from us. In this we had been much affifted by the current fetting us directly itowards the land, the fouth-weft extremity of which appeared in this point of view, to rife abruptly from the fea in fteep rugged cliffs to a confiderable height; and then in a moderate afcent to its moft elevated part; this was a hill of no very great fize; from whence it defcended with a more uniform declivity to its northern extremity, which appeared like a detached inlet.

The wind, which had been variable in the evening, became very light, and I was not without my apprehenfions that the current might force us paft the inland, before we might have an opportunity of making choice of a fituation for anchoring. That no time might be loft, about two in the following morning, being then fufficiently near the land for one of our boats to be in with the thores by day-light, Mr. Whidbey was difpatched in the cutter to make the neceffary examination. During this and the three or four
preceding nights the fea had prefented a very luminous appearance, but I was not able to afcertain with fatisfaction the caure of it. After the boat had left the chip, we ufed our utmofi endeavours to preferve our ftation to the fouth-weft of the ifland, but to no effect; the current foon after day-light drove us beyond its. weftern end, and although our head was to the fouth-weft, we were driven at a great rate paft its northem fide, within a few miles of its hores. Thefe:appeared to be indented into fmall bays, with rocks and iflets lying near them; but they by no means exhibited that inviting appearance which has been reported of them by Lionel Water* and others. The fhores were chiefly compofed of broken perpendicuiar cliffy precipices, beyond which the furface rofe unevenly ta the fummit of the illand; the whole compofing one rude connected thicket of fmall trees near the fhore, but on the more elevated and interior parts many large fpreading trees were feen; fome cacoa nut trees werc alfo obferved in the chafms of the rocky precipices, but they did not feem now to flourinh in fuch abundance, as was moft likely the cafe when their fruit gave a name to the ifland.

Being intircly without wind, the current fat us faft to the north-eaftward from the land,

[^1]which at noon bore by compafs from S. $17 \mathrm{~W}^{-}$ to S. 35 W. diftant feven or eight miles. The weather at this time afforded us a good opportunity for afcertaining the flip's place, which by feveral correct obfervations was found to be in latitude $5^{\circ} 40^{\prime}$, longitude $273^{\circ} 8^{\prime}$. By thefe and other obfervations that had been made on the 20th, the thip appeared to have been fet by the current during the two days 60 miles, in a direction $\mathbf{N}$. 50 E.; this fhewed that the ifland, which we did not confider to be more than moderately high when firft feen, was upwards of 20 leagues diftant.

In the morning, as we were driving near to the fhofres of the ifland, fome falls of water were obferved defcending from the cliffs into the fea, and as we ftood much in need of this neceffary article, as more of our cafks were found to have leaked out, no fmall degree of impatience was experienced for the return of the boat, as her long abfence had been attributed to want of fuccefs in finding a fafe place for anchorage. This however did not prove to be cafe, for her fuppofed detention was wholly occafioned by the great diftance to which the current had fet the thip from the ifland. About four $0^{\circ}$ clock I had the fatisfaction of being informed by Mr. Whidbey, that the fhores abounded with ftreams and falls of moit excellent water, together with fome cocoa nuts, and plenty of wood for fuel, eafily to be pro- cured; efpecially in two fmall bays, both of which afforded anchorage fufficiently fheltered from the prevailing winds at this feafon of the year; the one on the north-caft, the other on the north-weft part of the inand. Mr. Whidbey gave the preference to the moft eaftern, for which, therefore, with a light breeze from the north, we immediately fieered, but were unable to ftem the current till about nine at night, when the wind frehened from the N. E.; and with this, about four on Friday morning, the 23d, we reached the fituation Mr. Whidbey had chofen, and moored in 33 fathoms water, fandy and gravelly bottom, and (fo far as we became acquainted:) good holding ground, and free from rocks. The eaft point of the bay, which is a fmall conical iflet lying clofe to the north-eaft extremity of the ifand, bore by compafs S. 51 E . diftant ohalf a mile; the weft point of the bay. S. 75 W. ; a fteep rocky inlet lying off it bore from S. 87 W . to N. 06 W. ; and the watering place at the month of a very fine ftream emptying itfelf over a fandy beach, S. 13 W. about three quarters of a mile diftant; the Chatham moored within us in 20 fathoms water, on the fame kind of bottom.

As foon as the fhip was fecured I went on more, and found that alf our wants could be enfly fuplied; that a though there was fome
furf on the beach it was inconfiderable, and that not only water and fire-wood, bat that cocoa nuts were alfo to be procured in great abundance. No time was now loft in fetting about obtaining a due fupply of thefe effential articles, and in the performing fuch other bufnefs as had become requifite on board; where, at noon, by the mean of four obfervations, with different perfons and inftruments, the latitude was hewn to be $5^{\circ} 35^{\prime} 15^{\prime \prime}$. This differing fo materially from the latitude as ftated in Lord Anfon's and other voyages, and the general appearance of this ifland fo little correfponding with the defeription given of the inland of Cocos, efpecially by Dampier, and Wafer, gave rife to fome doubts in my mind as to its being the identical ifland fo deferibed by thofe genticmen. Be that as it may, the advantages it afiorded us, not only in the articles already mentioned, but in an abundance of very fine fifh, were very important; and as the foil was apparently capable of affording a variety of ufeful vegetables, this inland did not fail to attract our particular attention; and being anxious to acquire every information refpecting it that the fort ftay I purpoficd to make would allow of, I difpatched Mr. Whidery oin Saturday morning, the $24 t h$, in the large cuter, to take a fictch of its fheres. This fervice he performed, and retumed about four in the stemon, hasing
found them to be compofed of fteep perpendicular rocky cliffs, with fome inets and rocks lying near them; on which the fea broke with fo much violence as to preclude any attempt to land in any part, excepting in the bay to the weftward of the anchorage we had taken, where Mr. Whidbey had been before; and in that in which the veffels were moored; which were the only two fituations on the ifland to which veffels could refort. On Sunday morning I made a fhort excurfion to the weftern bay, and although a more copious ftream of frefh water was found to flow into it, yet it is certainly not fo eligible a fituation for procuring the good things which the illand afforded as that which we occupied. It was about half ebb when we reached its fhores, where we landed with tolerable convenience. After we had breakfafted, we fatisfied our curiofity in taking a view of the adjacent country; this was confined by an impenetrable thicket nearly to the limits of the fandy beach, which compoies the bottom of the bay, where, on our return to the boats, we found fome difficulty in re-embarking, owing to an increafe of the furf which at that time broke upon the beach.
At the place on fhore, where our operations were going on, I had obferved evident marks of European vifitors, from the trees having been felled with axes and faws, whilf the decayed
ftate of the remaining ftumps proved that they had not been very recently cut down. In this weftern bay, near to the frefh-water brook, a bottle was fufpended on a tree, containing a note directed to the commander of any veffel that might vifit the ifland, and figned "James Colnett;" ftating, that the fhip Ratler, South-fea whaler, of London, had arrived on the 26th of July, 1793, and, after procuring wood, water, and other refrefhments, had proceeded on her voyage, all in good health: that, previoufly to her departure, a breed of hogs and goats had been left on the ifland, and a variety of garden feeds. had been fown, but the fpot where thefe valuable articles had been depofited did not happen to fall. within the limits of cur oblervation.

By the time we reach the refels the rain fell very heavily, and I became acquainted, on my arrival on board, that the furf had fo much increafed, as very materially to retard our bufinefs with the fhore. The rain was accompanied by a frefh gale from the S. W. at the commencement of which the current, which, though by no means regular in its force, (fometimes being barely perceptible, at others runining at leaft at the rate of two miles per hour, yet had hitherto fet uniformly to the E. A. E. now changed its direction and fet to the weftward, but at a very gentle rate.

This uncomfortable weather continued, though with fome intermiffion, during the 26 th; we, however, made great progiefs in completing our water and fuel, and having nearly exhaufted the neighbouring fhores of their cocoa nuts, I difpatched two boats with Mr. Manby, the next morning, to the weftern bay, where they were produced in great plenty, to procure a full fupply of them. The boats returned about noon, not having been very fucceffful, as the heavy furf prevented their landing in that part of the bay where the fruit was moft abundantly produced.

By the afternoon we had taken on board about thirty-five tons of water, with as much wood as we could ftow; and having thus finifhed all our bufinefs with the fhore, we quitted this ifland in the evening, and made the beft of our way to the fouthward.

Having adverted to the fituation and advantages which this fmall foot of land poffeffes, I fhall now more particularly notice fuch matters as occurred to our obfervation whilft we remained there.

It does not appear from any account with which I am acquainted, to whom we are indebted for the dififovery of this valuable little inand; nor, indeed, do the feveral defcriptions of the illand of Cocos much accord with each other,
or agree with what we found to be its fituation or appearance. The ifland feen by Lord Anfon, of which he was within fight for five days, and confidered by him to be the inland of Cocos, is ftated in his voyage to be fituated $13^{\prime}$ to the fouth of what was found by our calculations to be the latitude of this ifland; and fhould this error in the latitude be confidered as reconcilable, it is likely we may both intend the fame illand. I have not the leaft doubt that the inland we laft quitted is the fame which Chipperton vifited, and called it the ifland of Cocos. He, I fhould fuppofe, anchored in the weftern bay, but his defcription is too confined to draw from thence any fatisfactory conclufion; but the greateft difference is in the accounts given of the ifland of Cocos by Dampier and Lionel Wafer; thefe differ fo very materially from our obfervations, in point of extent of fituation and appearance, that their reprefentations muft either be exceffively erroneous, or they muft belong to fome other inland. After taking all thefe circumftances into confideration, it appeared to me by no means unlikely, that fome other ifland might exift not very far remote from this, to which thefe apparently contradictory reports might more properly apply.

Two opinions were formed refpecting an infcription that was found cut on a rock near to
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the wind and fea. The width of the bay from point to point of the two iflets that form each of its extremitics is about a mile, in a direction S. 52 E. and N. 52 W. and from this line its extent to the battom of the bay is alfo about a mile; the foundings are regular from 12 to 50 fathoms, and veffels may fide very fragly within lefs than half a mile of the beach, in about 20 fathoms water, but in a lefs depth the bottom did not appear to be fo free from rocks. The weftern bay is more extenifive and more expofed, and its foundings are neither fo regular, nor is the bottom fo' good, but from thie abundance and great variety of vegetable produttions thatgrow clofe to the verge of high water mark in both bays, it fhould feem that neither of them are fabject to very violent ftorms, or heary feas. The climate was confidered by us as temperate and falubrious, for although the thermometer was ufually between 78 and 80 , we did not feet that oppreffive heat which we had experienced further to the northward; and notwithftanding that our people were greatly expofed to the heavy rains that fell while tranfacting our bufinefs on fhore, yet not the leaft interruption from want of health took place, which in various ather tropical iflands frequently attends the execution of fimilar fervices.

This ifland cannot be confidered as having a pleafant appearance in any:one point of view, for although its inland furface is much diverfified by hills and vallies; yet the only low land of any extent that we were certain it poffeffes is in the bottom of the two bays, each of which form the extremity of one of thefe valleys bounded by craggy precipices, from the foot of which extends a narrow ftrip of low flat land that terminates in a beach at the water fide, refembling more the dreary profpect exhibited at the heads of the feveral branches of fea we, had fo recently explored on the coaft of North Weft America, than any thing elfe I could compare them to. Every other part of the fhore feemed to be compofed of fteep, broken precipices of rock, of which fubftance the interior of the illand was apparently compofed, as the naked cliffs were frequently feen protruding their barren fides through the thicket, which otherwife covered the furface of the inland. This thicket, fo far as we were enabled to afcertain, was, chiefly compofed of a great variety of trees of a moderate fize, with an impenetrable underwood of the vine or fupplejack kind, which oppofed any excurfion into the country ; fome attempts were, I believe, made to penetrate thither by the water courfe, but this, from rocky precipices and other obltructions, was found to be equally impracticable ; dur know-
ledge of its productions muft confequently be confined to our obfervations on the fmall margin between the woods and the fea fhore, the only part that was acceffible to us. In refpect of its future utility, the firft object of confideration to maritime people is the abundant fupply of water that it affords. This abounds in every part of the ifland, and is to be eafily procured at the ftations to which veffels can refort. From its purity and limpid appearance, and from its being deftitute of any colour or unpleafant tafte, either from dead leaves or other putrid or rotten matter, though very heavy rains had fallen during the time we had been at anchor there, it may reafonably be inferred that the larger ftreams of water have a more remote and permanent fource than the accidental fhowers that at this feafon of the year may defcend upon the ifland. The foil in the immediate neighbourhood of the ftreams that fall into each of the bays is of a poor, loofe, fandy nature; but at a little diftance behind the beach, and in the fiffures of the rocks, a rich black mould was obferved, apparently capable of affording much vegetable nourihment; and this may alfo be the cafe in other parts of the illand, although we had no power of afcertaining the fact. All its vegetable productions appeared to grow luxuriantly, and covered the ifland in one entire wildernefs. On the rocky
cliffs near the fea fide, whofe uneven furface admitted the growth of vegetables; a coarfe kind of grafs is produced, that afforded an excellent retreat for the different kinds of fea fowl which reforted thither to rooft and build their nefts, or more properly fpeaking to lay their eggs, as they are at little pains to form a neft of any defcription. About thefe cliffs grew a very particular kind of tree, fomething like the cloth plant of the South Sea iflands, but much larger; fome of there grow to the height of about thirty feet, are of a lightifh coloured bark, free from branches to the top, which is fomewhat bufhy, and for that reafon was called by us the umbrella tree. There were fome few other trees whofe foliage ftrongly refembled that of the bread fruit, but as no one of them was in bearing near the beach, I was not able pofitively to determine their fpecies. . Many of the trees that compofed the foreft, efpecially in the interior and elevated parts of the ifland, feemed to be of confiderable fize, fpreading out into large branches towards their tops, which in point of height greatly furpaffed the others. I was inclined to believe that thefe trees were of the fame fort with thofe from which we principally obtained our fuel, although near to the fea-fide they did not grow fo large as on the hills; Mr. Manby, who moft commonly fupcrintended that fervice, gave me the follow-
ing account of them. This tree is very generally produced all over the ifland, its trunk growis very ftraight to the height of twenty or thirty feet before it throws out its branches, which are fo clofe, large, and fpreading, as to afford extremely good thelter againft both fun and rain; the ftems of feveral were capable of fquaring to twelve or fourteen inches; the grain is clofe, fomewhat variegated, and reddifh towards the heart ; it yielded to the axe with tolerable eafe, to the faw it was equally fitted, and being free from knots, it fplit without much labour ; its leaves are of a dark green colour, fmooth at the edge, and not much unlike the laurel, though rather longer; the feed refembling a fmall acorn is borne in clufters. The wood is well calculated for burning. Mr. Manby defcribes another fort, (which we cut for fuel alfo,) as having a whitifh fmooth bark, growing tall and ftraight, and producing but few branches. Its leaf is large, and in hape refembling that of the horfe-chefnut, of a light green colour, with a velvet furface; it appeared to be fit for little elfe than fire-wood, and not the mof proper even for that purpofe, as it has a thick pith in the center of it that occupies a large portion of the ftem or branches. The wood is of a white clofe grain, fplits readily, but does not burn remarkably well. The cocoanut trees, which grow not only on the fea-ihore Ne but
but high up on the fides of the hills, were the only trees we faw that bore any fruit, although, in one of the rivulets, an unripe guava was picked up, which, moft probably, had come from the interior country: in addition to thefe, we noticed an abundance of different forts of fern, fome of which produced a ftem nearly fix inches in diameter, and grew to the height of nearly twenty feet; thefe, as well as I recollect, were exactly of the fame defcription as thofe commonly found in New Zealand. Such were the moft general vegetable productions of this ifland that fell under our obfervation, to which we further added the feeds of apples, peaches, melons, pumkins, with beans, peas, \&c. Thefe were fown by Mr. Swaine, in a foot cleared for that purpofe, where he was of opinion they were likely to thrive.

With refpect to the animal kingdom, fifh and fowl feemed to be in great abundance, and we entertained hopes that future vifitors may benefit by Captain Colnett's liberality ; as juft before Mr. Swaine left the illand a young hog, in very excellent condition, was feen by him and fome of his party, but on his difcovering our people he haftily retreated into the thicket. Although at no very great diftance from the inland we had feen fuch numbers of turtle, it was fingularly remarkable that there was not the moft diftant
fign of their reforting to thefe fhores. The land abounded with white and brown rats, and vait numbers of land crabs. All the birds of the oceanic tribe, common to the tropical regions, repaired hither in great flocks, and were by no means bad eating. Befides thefe were feen hawks, a fpecies of brown and white herons, rails, a kind of blackbird, and a few others, that chiefly inhabited the woods; which, with fome ducks and teals, were what was obferved principally to compofe the feathered race. A great variety and abundance of excellently good filh frequented the fhores; fharks alfo were very numerous, and the moft bold and voracious I had ever before feen. Thefe affembled in the bay in large fhoals, conftantly attended on our boats in all their motions, darting at the oars: and every thing that by accident fell, or was thrown overboard. They frequently took the fifh from the hooks before they could be got clear of the water, and what was ftill more fingular, when one of their own fpecies was fo taken, and they perceived he could no longer defend himfelf, he was inftantly attackedsuon to pieces, and devoured by his companions, 锭hilft yet alive; and, notwithftanding that thefe monfters fubjected themfelves to be greatly annoyed by the harpoons, knives, \&c. of our people, by which they reccived many deep wounds, yet even that did not deter them from renewing the attack upon
the one which was eaught; until every part of the victim's flelh was thus torn from its bones. On this occafion we had an opportunity of obferving, that it is erroneous to fuppofe the fhark is under the neceflity of turning on his back for the purpofe of taking his prey, as thefe fharks moft commonly attained their object without firft turning themfelves, as has been generally believed.

The genera! warfare that exifts between feafaring perfons and thefe voracious animals, afforded at firft a fpecies of amufement to our people, by hooking, or otherways taking one for the others to feaft upon, but as this was attended with the ill confequence of drawing immenfe numbers round the fhip, and as the boatfwain and one of the joung gentlemen had nearly fallen a facrifice to this diverfion, by narrowly efcaping from being. drawn out of the boat by an immenfely large fhark, which they had hooked, into the midift of at leaft a fcore of thefe voracious animals, I thought proper to prohibit all further indulgence in this fpecies of entertainment; which, independently of its being likely to be attended with ferious confequences, was in itfelf of too cruel a nature to be witneffed without pain. Thefe fharks appeared to be of three dittinct forts; the moft numerous were of the tyger kinc, thefe were beautifully ftreaked down their fides; the other forts were the brown and the
the blue fharks; and it was fingularly remarkable, that although they all voracioully devoured the two former fpecies, yet when one of the latter was caught, it remained unmolefted by the reft, and even when killed, and cut up, its flefh was not eaten by its companions.

The other kinds of fifh that fell under my notice, befide thofe common to the tropical feas, were two forts of bream, the large fnapper of the Weft Indies, a fort of rock fifh, and another kind commonly called yellow tail; thefe were all very excellent, and took the hook readily; and to thofe who may follow us, and fand in need of refrefhments, they may prove a moft defirable refource; and there can be little doubt but that perfons under fuch circumftances would foon fall upon fome expedient, to evade the inconvenience to which they might beliable from the extreme vigilance of the Marks. Nor is it improbable, that on a more minute examination, the furface of this little inland may be found to produce many articles of refrefhment; but as we did not ftand much in need of any, excepting the neceffary article of water, our attention was not directed to fuch incuiries, being wholly engrofled in uing erery porible means of difpatch in providing qurfelves with thofe few particulars with which we could not dipenfe.

We happily ftood in no great need of fearching for refrehments at any great diftance from the fhores of the ifland; for, excepting that I continued to be in a very feeble and debilitated ftate, there was not on board either of the veffels a fingle individual who was not in the higheft health imaginable. In confequence of the indifpofition under which I had fo long laboured, I was only able to go once on fhore in each of the bays, or I might poffibly have acquired more knowledge refpecting this fmall though valuable fpot of land. The comfort we derived from the water, and the few other fupplies there obtained juftly entitled it to our confideration; and as from its fituation it is not unlikely that it may become a place of importance to thore whofe purfuits may direct them to this part of the $\mathrm{Pa}-$ cific Ocean, I truft I thall be excufed for having dwelt fo long on a fubject which I could not but regard as deferving attention; not only as far as it refpects the productions of the inland, but alfo to fhew, that the defcription of the ifland of Cocos giveñ by Dampier from the obfervations of others, and that ftated by Lionel Wafer from his own, are either extremely inapplicable to its prefent circumftances and appearance, or have reference to fome other ifland in its neighbourhood. It is much to be regretted that Dampier
had not himself vifited this inland, as from the great accuracy of mort of the observations made by that judicious traveller, few doubts could have arisen concerning the identity of the inland he meant to defcribe. I am more inclined to attribute this deviation from the truth to mireprefentation, than to any other caufe, from cur having acquired a tolerably competent knowledge of that part of the ocean between the 5th and Eth degrees of north latitude, for at leaft four degrees of longitude to the weftward of the inland in queftion, in which face there is not much likelihood of there being any other inland.

For the purpose of commemorating our vifit to the inland of Cocos, I directed that the date of our arrival, with the names of the veffels and the commanders, fhould be cut on the fame rock where the other infcription was found : the two former I underftood was executed, but it feems that forme obstacle arofe to prevent the infertion of the latter. The reasons before fated for fuppofing that this inland may hereafter prove useful to thole who may traverfe there fees, demended that the utmoft attention mould be paid to the fixing with accuracy its true pofition. By the refult of all our obfervations, comprehending 152 fets, taken between the 29th of December 1794, and the 16 th of January 1795; and 155 rets taken afterwards between the 28 th of Ja -

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a veyage of discovery
[JAN. nuary, and the 16 th of February following, the longitude of the anchorage deduced thus from 306 fets of lunar diftances from the fun and ftars, each fet as ufual containing fix obfervations, appeared to be as follow:
The mean of
37 fets on both fides $D$ before our arrival by
Mr. Whidbey, $272^{\circ} 54^{\prime} 46^{\prime \prime}$

| 37 | ditto | ditto | Mr. Baker, | 273 | 1 | 43 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 37 | ditto | ditto | Mr. Manby, | 273 | 3 | 3 |
| 38 | ditto | dito | Mr. Orchard, | 273 | 4 | 58 |
| 3 | ditto | ditto | Myfelf, | 273 | 2 | 55 |
| 32 | ditto after | our departure | Mrfelf, | 273 | 8 | 42 |
| 34 | ditto $:$ | ditto | Mr. Whidbey, | 273 | 10 | 38 |
| 36 | ditto | ditto | Mr. Baker, | 273 | 14 | 55 |
| 25 | ditto | ditio | Mr. Manby, | 272 | 53.15 |  |
| 27 | ditto | ditto | Mr. Orchard, | 273 | 21 | 53 |

The mean of the whole 306 fets collectively taken, and reduced to the anchorage by Arnold's No. 14, according to its new rate, fhewed the true longitude to be $\quad$ - $\quad 273 \quad 534$

From this authority, and from fereral fets of altitudes of the fun carefully taken whilft in the bay, the errors and rates of the chronometers were found to be as follow :
Araöild's No. 14, faft of mean time at Greenwich at noon on the 27 th of January 1795, $5^{5} .41^{\prime} \quad 3^{\prime \prime} 20^{\prime \prime \prime}$.
And to be gaining per day on mean time at the rate of $20 \quad 2$
Arnold's No. 176, faft of mean time at Greenwich at fame time, - 12.111820
And to be gaining per day on mean time; $\quad 41 \quad 5$.
Kendall's

Kendall's faft of mean time at Greenwich at fame time, - $\quad \therefore \quad 10^{\mathrm{h}} 21^{\mathrm{h}} 19^{\prime \prime} 20^{76}$
And to be gaining per day on mean time 2135
The latitude by twenty meridional altitudes of the fun and fea horizon, by the back obfervation taken by fivesdifferent obfervers with different inftruphents, and warying from $5^{\circ} 33^{\prime}$ to $5^{\circ} 37^{\prime} 20^{\prime \prime}$, fhewed the mean refult to be

The longitude according to the Monterrey rate was,


By which it appeared that No. 14 was $31^{\prime} 5^{7}$, No. 176, 42 $20^{\prime \prime}$, and Kendall's chronometer, $1^{\circ} 49^{\prime} 35^{\prime \prime}$ to the eaftward of the true longitude. The variation of the compars by four fets
of azimuths differing from $8^{\circ} 14^{\prime}$ to $7^{\circ} 21^{\prime}$,
fhewed the mean refult to be - $\quad \tau^{\circ} 45^{\prime}$ caftwandy.

The vertical inclination of the magnetic necdle,

Marked End, North Face Eart, $\quad 19^{\circ} 47^{\prime}$
Ditto $\because$ ditto Weft, 2017 Ditto South Face Eaft, 1917 Ditto ditto Weft, " 1940
Mean inclination of the north point of the magnetic dipping needle, 1945
The rife and fall of the tides were, by the fhore, found to be very confiderable and regular twice
twice in the twenty-four hours without any apparent ftream, and were not in the leaft influ-. enced by the currénts. The night tides appeared to be the higheft,: and were eftimated to rife nearly ten feet pexpendicularly, though the furf was too high to admit of any correct meafurement. The time of high water was pretty clearly afcertained to be about $2^{\mathrm{h}} 10^{\prime}$ after the moon paffes the meridian.

Having, as before ftated, put to fea from the ifland of Cocos, on the evening of the 27 th of January, and having no intention of ftopping fhort of the ifland of Juan Fernandez, or fome port on the coaft of Patagonia, for the purpofe of again recruiting our water and ftore of firewood, the fhip's courfe was directed fouthwardly, but with fo gentle a breeze during the night, that although we had all fail fet, yet, in the morning of Wednefday the 28th, the ifland continued in fight until about nine in the forenoon, when it bore by compars N. 30 W., diftant fortyfix miles; fhortly after this time we loft fight of -it;' not from its being beneath the horizon, but from its being obfcured by clouds and an hazinefs in the atmofphere. At noon the obferved latitude was $4^{\circ} 43^{\prime}$, the longitude $273^{\circ} 17^{\prime}$; by which it appeared that, fince quitting our anchorage, a current had fet us in a direction S. 12 E., eighteen miles. In the afternoon fuch
immenfe
1795.] ROV゙ND THE WORLD. 193 immenfe fhoals of fifh were playing about on the furface of the water as to be miftaken at firlt for breakers. During the night the wind was very light from the weftward, and on the following morning, "Thurfday the 29th, the weather was calm, with very heavy rain; but in the forenoon, although the atmofphere continued very gloomy, we procured the neceffary obfervations to fhew the latitude to be $3^{\circ} 29^{\prime}$, the longitude $273^{\circ} 25^{\prime}$, whence we appeared to have been fet by a current 46 miles, in a direction S. 5 E.; a few turtles were this day about the fhip, fome of which were taken. In the afternoon we had a light breeze variable between the eaft and S.S. Em with which we food to the fouth-weftward; the night was nearly calm with very heavy rain, but the next morning, Friday the 30th, we had again a fouth-eafterly breeze with fome rain, which in the forenoon ceafed, and permitted us to obferve the latitude at noon to be $2^{\circ} 35^{\prime}$, which was $30^{\prime}$ to the fouth of what was fhewn by the log. With a moderate breeze, varying between S. by W. and S. E. we ftood on fuch tacks, as would enable us to make the beft of our way to the fouthward, and at noon on Saturday the 31 ft the obferved latitude was $2^{\circ} 11^{\prime}$, the longitude $272^{\circ} 12^{\prime}$, from which it appeared that the current during the laft twenty-four hours had fet us 12 miles to the fouth, and from the 29 th Vol. VI.

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at
at noon 41 miles to the weftward. Since leqaving the ifland of Cocos we had obferved many riplings on the water, and had experienced an uncomfortable irregular fwell from the fouthward. On Sunday the 1 ft of February the weather became more pleafant, and the wind at S. S. E. blew fo fteady a breeze, that I concluded we had at length reached the regular trade wind. In the forenoon we paffed by fome fea weed and drift wood, a cocoa-nut, and a ftick of fugar cane about nine feet long; all of which, excepting the former, appeared to have been no great length of time in the water. The obferved latitude at noon was $1^{\circ} 31^{\prime}$, longitude $270^{\circ} 26^{\prime}$; the former agreed exactly with the log, but by the latter we appeared to have been fet fince the preceding noon 10 miles in a weft direction. The vaft numbers of filh that fill attended us afforded us a very profitable amufement, and many birds were fill about us. The wind which now hung far to the fouth, obliged us to make a much more wefterly courfe than I could have wifhed, as I had entertained hopes of being able to pafs near enough to the Gallipagos iflands to have had an opportunity of afcertaining their true fituation; but as the wefternmoft of them are faid to be under the meridian of the inland of Cocrs, which was now nearly three degrees to the cateward of us, the chance of fuccecding in
this expectation was now fo little; that I gave up every idea of accomplifhing that objcct.

Land was difcovered on Monday forenoon to the W.S. W.; it then appeared to be a very fmall ifland, which at noon bore by compafs S. 72 W., eight or nine leagues diftant. As our obferved latitude was $1^{\circ} 20^{\prime}$, longitude $268^{\circ} 43^{\prime}$, and the variation of the compafs $8^{\circ}$ eaftwardly, we appeared to have been fet in the courfe of the laft twenty-four hours 10 miles to the north, and 28 miles to the weftward. The influence of this current fetting to the W. N.W. was very perceptible, for although with a light air of wind during the afternoon our courfe was directed to the fouth-weftward, yet fo rapidly were we driven in the above direction of the current, that, at fun-fet, this, ifland bore by compafs S. 40 W., and another ifland, which had been difcovered about an hour and an half before, bore, at the fame time, N. 72 W. During the night we had a light breeze from the S. S. W., with which we ftood to the S. E.; but fo far werc we from ftemming the current, that, at day-light on the following morning, Tuefday the 3d, the firft of thefe iffands bore by compafs S. 68 E., diftant fix leagues, and the fecond N. 17 W., in miles diftant. At fuch a rate had we been diven by the current between thefe iflands, that, notwith'tanding we ufed every endeavour to preferic our faO2. tion
tion by keeping as the wind reered on the moft advantageous tacks, yet, at noon, the firft ifland bore by compafs $E$. by S., at the diftance of nine leagues, and the other N. N.E. $\frac{x}{2}$ E., at the diftance of 17 miles. In this fituation the obferved latitude was $1^{\circ} 28^{\prime}$, longitude $267^{\circ} 49^{\prime}$, by which the current appeared to have fet us, fince the preceding day at noon, ten miles to the north, and fifty miles to the weftward.

In paffing between thefe iflands, which lie from each other N. 42 W. and S. 42 E., at the diftance of twenty-one miles, we obferved neither danger nor obftruction; the fouthernmoft, which is the largeft, did not appear to exceed four miles in circuit, and the northernmoft about half a league; the former is fituated in latitude $1^{\circ} 22^{\prime} 30^{\prime \prime}$, and longitude $268^{\circ} 16^{\prime}$. It northweftern fide forms a kind of long faddle hill, the northern part of which is higheft in the middle, and fhoots out into a low point, which at firft fight was confidered by us to be an inlet, but was afterwards believed to be united. A fmall peaked neck or iflet lies off its fouth-weft frde, which, like all the other parts of it, excepting that towards the north, is compored of perpendicular naked rocky cliffs. On the low north-weft part we faw what we fuppofed to be trees, but we were by no means certain, for the inand in general prefented to us a very dreary and unpro-
ductive appearance. The northernmoft inland rofe in naked cliffs from the fea, off which are two iflets, or fmall rocks; that on its eaft fide is remarkable for its flat table top, and for its being perforated nearly in the middle. The fituation of thefe illands, the eafternmoft being nearly $5^{\circ}$ to the weftward of the meridian of the ifland of Cocos, gave us at firft reafon to fuppofe them a new difcovery, and not a part of the group of the Gallipagos, as all the ancient accounts agree in placing the Cocos due north from the wefternmoft of that clufter of iflands; but when we took into confideration the very rapid currents by which we had been controlled, they eafily accounted for errors to which other navigators muft neceffarily have been fubjected, who have not, like ourfelves, been fo well provided with the means of afcertaining the full effect of their influence; which had, fince our leaving that ifland, produced a difagreement of upwards of two degrees of longitude in our dead reckoning. The decifion of this point remained, therefore, to be determined by our further progrefs to the fouth; for, in the event of the firft or fouthernmoft, being Wenman's ifland, and the moft northern, that called Culpepper's inand, the northernmoft of that group of iflands, little doubt was entertained of our mecting with more of them in purfuing our fou:hern courfe; in doing
which we were not very expeditious the two fuccecding days, as the wind between S.S.W. and S.S.E. was very variable in point of ftrength; and although we endeavoured to take every advantage it afforded, fo little progrefs did we make againft the adverfe current, that on the 5th, the moft fouthern of thefe two iflands was ftill in fight, and at noon bore by compafs N. 31 W., diftant eight or nine leagues. The obferved latitude at this time was $59^{\prime}$, longitude $268^{\circ} 27^{\prime}$, by the dead reckoning $271^{\circ} 24^{\prime}$; having, in the laft twenty-four hours, been fet by the current feven miles to the north, and forty-eight miles to the weftward. As we were now approaching the equator, and as the fea was tolerably fmooth, fome further obfervations were made on the vertical inclination of the magnetic needle, which fhewed
The marked end North face Eaft, $70^{\circ} 8^{\prime}$
Ditto ditto Weft, 83
Ditto South face Eaft, 728
Ditto ditto Weft, 718 Mean inclination, - 728

The variation of the compafs, at the fame time,

8 caftwardly.
We advanced fo flowly from thefe inlands, that at fun-fet the fouthernmoft of them was ftill within our view, bearing by compafs N. 12 W . The wind was moftly at S.S.W. during the
night,
night, with this we ftood to the fouth-eaftward, and at day-light on Friday morning the 6th, difcovered a more extenfive land than the two illands we had juft paffed, bearing by compafs from S. 10 E. to S. 35 E. This land appeared to be very lofty, to be at a confiderable diftance from us, and to be divided into three or more iflands; but as we approached it the lefs elevated parts were feen to be connected, fo that, in the forenoon, it feemed to be only divided into two portions, and even this divifion was rendered doubtful, as we drew nearer to it, by the low land rifing to view until about noon, when the whole extended by compais from S. 42 E. to S. 10 E., with a detached rock S. 2 W. In this fituation the obferved latitude was $28^{\prime}$ north, the longitude $268^{\circ} 32^{\prime}$; having been fet, in the lait twenty-four hours, by the current twenty-fix miles to the weftward. This, however, appeared to have taken place in the early part of that day, as fince our having made the land in the morning, we had approached it with a light breeze, without having apparently been influenced by any current whatercr.

In the afternoon a picafant breeze fprang up from the fouth-weftward, with which we ftood clofe-hauled in for the land, and before fun-fet faw very plainly, that what we had for fome hours before confidered to be two iflands, was all

connected by depreffed land on which was a hummock, that had alfo appeared like a fmall ifland; and beyond this iow land, at a confiderable diftance to the fouthward, was feen an extenfive lofty table mountain. The land immediately before us formed alfo towards its eaftern extremity a fimilar table mountain, and towards its weftern point a very regular hhaped round mountain, which, though not of equat height to the others, was yet of confidsrable elevation, and in this point of view feemed to defcend with great uniformity. The eafternmoft; terminating in a low point with fome fmall hummocks upon it, at fix in the evening bore by compafs S .47 . E.; the wefternmoft, which terminated more abruptly, S. 13 W.; and the detached rock, which is fteep, with a flat top, S. 71 W . The whole of this connected land appeared now to form an extenfive lofty tract; and as I had no intention of ftopping, the object for confideration was, on which fide we fhould be moft likely to make the beft paffage? The fouth-weft wind from its fteadinefs, and the appearance of the weather, feemed to be fixed in that quarter, and as we approached the fhore we found a ftrong current fetting to windward; I therefore did not hefitate to ufe our endeavours to pafs to the weftward of this inland, which under all circumitances appeared to me to be the beft plan to purfue.

We drew in with the ifland until about nine at night, when we were within about a league of its fhores, and finding that the windward current was the ftrongeft near to the land, the night was employed in making thort trips between the fhores of the ifland and the flat rock before mentioned, frequently trying for foundings with 100 fathoms of line without fuccefs. On Saturday the 7th, we were nearly up with the weftern extremity of the ifland, and as the weather was fair and pleafant with a very gentle breeze of wind, I wifhed, whilft the fhip was turning up along fhore, to acquire fome knowledge of what the country confifted, and for that purpofe immediately after breakfaft Mr. Whidbey, accompanied by Mr. Menzies, was difpatched with orders to land fomewhere to the fouthward of the weftern extremity of the land then in fight, which had been named Cape Berkeley. The part of the ifland we were now oppofite to, and that which we were near to the preceding evening forming its north-weftern fide, either Shoots out into long, low black points, or terminates in abrupt cliffs of no great height, without any appearance of affording anchorage or fheltcr for fhipping. The furf broke on every part of the fhores with much violence, and the country wore a very dreary defolate afpect, being deftitute of wood and nearly fo of verdure to a confider-
able diftance from the fea fide, until near the fummit of the mountains, and particularly on that which formed nearly the north-weftern part of the ifland; where vegetation, though in no very flourifhing ftate, had exiftence.

The obferved latitude ar noon, being then within four or five miles of its fhores, was $7 \frac{1{ }^{\frac{1}{2}}}{}$ north, the longitude $268^{\circ} 29 \frac{1}{2}^{\prime}$; in which fituation the fteep flat rock, called Rodondo rock, bore by compafs N. 26 W .; the eafternmoft part of the ifland now in fight, N. 78 E., and cape Berkeley in a line with more diftant land, fuppofed by us to be another inland, fouth. As we advanced, the regular round mountain affumed a more peaked hape, and defcending with fome inequalities, terminated at the north-weft extremity in a low barren rocky point, fituatcd according to our obfervations in latitude $2^{\prime}$ north, $208^{\circ} 30^{\prime}$ caft. From it the fteep flat rock lies N. 2 W., diftant 12 miles; and the fhores of the north-weft fide of the ifland, fo far as we traced them, took a direction about N. 50 E. fixteen miles; the wind for the moft part of the day concinued light and variable between the weft and S . W., but with the help of the current which ftill continued to run in our favour, we patfed in the afternoon to the fouth of cape Berkeley, from whence the fhores to the fouthward of that point take a rounding turn to the caftward, eaftward, and hoot out into low rocky points. The interior country exhibited the moft fhattered, broken, and confufed landfcape I ever beheld, feemingly as if formed of the mouths of innumerable craters of various heights and different fizes. This opinion was confirmed about five in the afternoon on the return of Mr. Whidbey and his party, from whom I underftood, that about two leagues to the eaft fouth-eaftward of cape Berkeley, a bay had been difcovered round a very remarkable hummock, which feemed likely to afford tolerably good anchorage and Shelter from the prevailing winds; but as Mr. Whidbey had little time to fpare, and as the fhores afforded neither fuel nor frefh water, he was not very particular in this examination, but endeavoured to gain fome knowledge concerning the general productions of the country. During the Chort time the gentlemen were fo employed on fhore, thofe remaining in the boat, with only two hooks and lines, nearly loaded her with exceedingly finc fifh, fufficient for ourfelves, and fome to fpare for the Chatham. Our opinion, that this part of the ifland had been greatly fubject to volcanic eruptions, appeared by this vifit to have been well fourded; fince it hould feem, that it is either indebted for its clevation above the furface of the ocean to volcanic powers, or that at no very remote paiod it had been fo pro-
fufely covered with volcanic matter, as to render its furface incapable of more than the bare exiftence of vegetables; as a few only were found to be produced in the chafms or broken furface of the lava, of which the fubfratum of the whole ifland feemed to be compofed. Inftead of the different fpecies of turtles which are generally found in the tropical, or equatorial regions, thefe fhores, however fingular it may feem, abounded with that defcription of thofe animals which are ufually met with in the temperate zones, bordering on the arctic and antarctic circles: the penguin and feals alfo, fome of which latter I underftood were of that tribe which are confidered to be of the fur kind, were feen, as likewife fome guanas and fnakes; thefe, together with a few birds, of which in point of number the dove bore the greateft proportion, were what appeared principally to compofe the inhabitants of this inland; with which, from its very uncommon appearance, I was very defirous to have become better acquainted; but we had now no time to fpare for fuch an inquiry, nor fhould I indeed have been able perfonally to have indulged my curiofity, as I ftill continued to labour under a very indifferent ftate of health, which in feveral other inftances had deprived me of fimilar gratifications.

At fun-fet the fteep flat rock bore by compafs N. 5 W.
N. 5 W . and the land in fight from N. 56 W . to S. 9 E.; the former, being the north-weft point of the ifland, and the latter, the land that was ftated at noon to be in a line with it, fill at a confiderable diftance from us; both of which feemed to form very projecting points, from whence the fhores retired far to the eaftward; but whether only a deep bay was thus formed, or whether the land was here divided into two feparate iflands, our diftance was too great to determine.

In the evening the wind freflaned from the S. S. W. with which we plied to the fouthward, and having ftill the ftream in our favor, we kept near the fhore where the current continued to be the ftrongeft. At midnight this breeze was fucceeded by a calm, which lafted until day-light the next morning, when, with a light breeze, and the affiftance of the current, we made fome progrefs along fhore. As we advanced, land further diftant, and apparently detached, was difcovered to the S.S. E.; at noon the obferved latitude was $18 \frac{1}{2}^{\prime}$ fouth, the longitude $268^{\circ} 23^{\prime}$; in this fituation we were oppofite to the land mentioned the preceding day at noon. This takes a circular form, and thoots into feveral fmall low projecting points. From the moft. confpicuous of thefe, called cape Douglas, the adjacent diores take on one fide a north-eait-
wardly, and on the other a foutherly, direction. The above, being the neareft fhore, bore by compals N. 78 E. diftant five miles; the fouthernmoft part of this land in fight S. 39 E.; the weft point of the laft-difcovered detached land, which is named Chriftopher's point, S. 28 E. ; and cape Berkeley N. 14 W. The land we were now abreaft of bore a ftrong refemblance to that feen the preceding day, equally barren and dreary towards the fea-fide, but giving nourifhment to a few fcattered vegetable productions on the more elevated part, which rofe to a table mountain of confiderable height and magnitude, and is the fourth mountain of this table-like form of which this land is compofed.

The wind, during the afternoon and night, blew a gentle breeze from the fouthward, but as we continued to be affifted by the current fetting to windward, we made fome progrefs in that direction, and were fufficiently to the fouthward the next morning, Monday the gth, to afcertain pretty clearly that the lalt-difcovered land, now bearing S. 54 E. dittant nine leagues, was dif$G$ tinct from the fecond difcovered land, or ifland; and that its weftern part, Chriftopher's point, hes from the fouth poiat of the fecond-difcovered land, which is called cape Hamond, S. 13 E. at the diffance of twenty miles.

Thus concluced cur examination of thefe fhores,
mores, which proved to be thofe of the Gallipagos illands. The wind now feemed to be fetticd in the fouth-caftern quarter, blowing a fteady pleafant gale; and as the weather was fine, we were once more flattered with the picafing hopes of having at length reached the regular fouth-eaft trade wind; we therefore made the jeft of our way to the fouth-weftward with all fail fet, and at noon obferved we were in latitude $4 \cdot 4^{\prime}$ fouth. The longitude by the feveral chronometers, agreeably to their rates as afcertained at the illand of Cocos, was by Arnold's No. 14, $205^{\circ} 54^{1} 30^{7}$ Ditto 176, $267 \quad 524.5$ Kendall's, $\quad 267 \quad 52 \quad 30$
But by the dead reckoning it ap-
peared to be - $\quad 272 \quad 20$
The variation of the furveying compafs was $8^{\circ}$ eaftwardly, and the rertical inclination of the matine dipping needle was,

Marked End, North face Eaft, - $2^{\circ} \boldsymbol{5 0}^{\boldsymbol{\prime}}$ Ditto ditto Weft, - 245
Ditto South face Eaft, - 230
Ditto ditto Weft, - 230
Mean inclination of the north
point of the marine dipping needle, 229
The sery exact corrofpondence of the longitude by the chronometers, and which had uniformly been the cafe ever fince our departure from the illand of Cocos, induced me to believe, that gitude of that ifland with thefe would be found correct; and I truft, that the means adopted to afcertain the longitude of the former, will not be found liable to any material error.

On reference to the relative pofition of the land to which our attention had been directed fince the 6 th of this month, the delineation of its fhores from our obfervations, will be found to bear a very ftriking refemblance to that of the wefternmoft of the Gallipagos, as laid down in Captain Cook's general chart ; and although the fituation of Wenman's ifland does not correctly agree, yet the correfpondence of the larger portions of the land with the above chart, is doubtlefs a further confirmation of their being the fame as is therein intended to be reprefented; from whence I fhould fuppore,* that the firft and third portions of land feen by us conftituted Albemarle inland, and that the fecond was Narborough's inland. Thefe names were given by the Buccaneers, as alfo that of Rodondo rock to the fteep flat rock, and Chriftopher's point to the weft point of the third land; and under this perfuafron, this is the fouth-weft point of Marlborough ifland, which is fituated according to our obfer-

[^2]vations in latitude $50^{\prime}$ fouth, longitude $268^{\circ} 34^{\prime}$ eaft.

From there conclufions, all the objects I had had in view in fteering this fouth-eaftwardly courfe from Monterrey appeared to have been accomplifhed; fince I had not entertained the moft diftant intention of ftopping, to make furveys or correct examinations of any illands we might fee. But as the fituation of thofe which were lying not far out of our track had been varioully reprefented, I anxioufly wifhed to obtain fuch information as would place this matter out of all difpute for the future; and having been enabled to effect this purpofe to my fatisfaction, it was fome recompence for the very irkfome and tedious paffage we had experienced in confequence of the light baffling winds that had conftantly attended us after we had paffed cape Corientes; fince which time, to our fation this day at noon, our progrefs upon an average had not been more than at the rate of 10 leagues per day.

I thall now proceed to ftate, what little more occurred to my knowledge or obfervation refpecting that part of the Gallipagos iflands that we were now about to leave. The climate appeared to be fingularly temperate for an equatorial country. Since our departure from the illand of Cocos the mercury in the thermometer had
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feldom
feldom rifen above 78, and for the three preceding days it had moftly been between the 74 th and $\gamma$ th degree; the atmofphere felt light and exhilarating, and the wind which came chiefly from the fouthern quarter was very cool and refrefhing. The fhores appeared to be fteep and bold, frce from hhoals or hidden dangers; fome riplings were obferved, which at firft were fuppofed to be occafioned by the former, but as foundings were not gained when we were in them, thefe riplings were attributed to the meeting of-currents. The lofty mountains of which this land is principally compofed, excepting that which forms its north-weftern part, appeared to us in general to defcend with much regularity from a nearly flat or table fummit, and to terminate at the bafe in projecting points on very low level land ; fo that, at a diftance, each of thefe mountains appeared to form a diftinct ifland. This circumftance may probably have given rife to the different fatements of former vifitors concerning the number of this group of iflands; all of them however agree in their affording great ftores of refrefhment in the land and fea turtles, in an abundance of moft excellent fifh of feveral forts, and in great numbers of wild fowl. Our having feen but few turtles whilft in the neighbourhood of thefe iflands, is no proof that thefe animals do not refort thither; for in the fea we
faw neither feals nor penguins, yet the fhores, were in a manner covered with them; and in addition to this, the parts of the coaft that were prefented to our view confifted principally of a broken, rugged, rocky fubftance, not eafily acceffible to the fea turtle, which moft commonly, and particularly for the purpofe of depofiting its eggs, reforts to fandy beaches. With refpect to fifh, we had ample proof of their abundance, and of the eafe with which they are to be taken; but in regard of that great defideratum, frefh water, fome affert that the inlands afford large ftreams, and even rivers; whilft others ftate them to poffefs only a very fcanty portion, or to be nearly deftitute of it. This however is but of little importance, as, from their vicinity to the Cocos, where perpetual fprings feem to water every part of the inland, veffels ftanding in need of a fupply, may eafily procure a fufficient quantity for all purpofes; and fince we faw in their neighbourhood many whales which we conceived to be of the fpermaceti kind, it is not unlikely that thefe fhores may become places of defirable refort to adventurers engaged in taking thofe animals, Notwithltanding that our vifit did not afford an opportunity for difcovering the moft eligible places to which veffels might repair; it neverthelefs, by afcertaining the actual 'fituation of the weftern fide of the group, has rendered the

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\mathrm{P}_{2} \text { tafk }
$$ talk of procuring fuch information more eafy to thofe, who may wifh to benefit by the advantages thefe iflands may be found to furnifh.

I fhall now take my leave of the Gallipagos iflands, and with them alfo of the North Pacific Ocean, in which we had paffed the laft three years.

## CHAPTER. V.

> Proceed to the Southward-The Di/covery fprings Fier Main-mafl-Scurvy makes its AppearancePafs the Iflands of Mafafuero and Juan Fernan-dez-Arrive at Valparaijo—Vifit St. Jago, the capital of Chili.

0N taking our final leave of the North Pacific Ocean, I could not avoid feeling fome regret in reflecting, that although I was convinced we had very effectually delineated its eaftern fhores, yet that the geography of a very large portion of that coaft which gives bounds to its weftern limits, ftill remained very imperfectly, and indeed almoft intirely, unknown to Europeans. The examination of thefe parts however had not formed an object of the prefent expedition; nor could we, without a complete reequipment of both veffels in fome eftablifhed arfenal, hate undertaken a fervice of that nature with any reafonable profpect of fuccefs, had it been within the limits of my commiffion. The length of time we had now been abfent from our native foil, the unpleafant intelligence we had P $_{3}$ recently recently received of the ftate of Europe, and the defire we had of adding-our little ftrength to the means adopted for the reftoration of good order and tranquillity at home, all combined te reconcile us to any difappointment which the thirft for exploring or difcovering new countries might have infpired; and operated to fatisfy our minds as to the neceffity of making the beft of our way towards thofe regions, where our fervices in another line of duty might poffibly be more acceptable to our country.

Our progrefs however was not equal to our wifhes, for by Wednefday the 11 th at noon, we had only reached the latitude of $2^{\circ} 3^{\prime}$ fouth, when the rertical inclination of the magnetic needle was obferved to be,

Marked End, North face Eaft, $0^{\circ} 40^{r}$
Ditto Ditto Weft, o so .
Ditto South face Eaft, o 30
Ditto Ditto Weft, o 20
Mean inclination of the north point, o 30
The variation of the compafs at this time was $7^{\circ} 45^{\prime}$ eaftwardly.

The wind between S. E. and E. S. E. blew a fteady but very gentle breeze, and although the atmofphere was moftly free from clouds, yet the weather was temperate and pleafant; the thermometer night and day remaining between 75 and
and 76 . On Thurfday the 12 th, in the afternoon, the vertical inclination of the magnetic needle was found to be as under;

Marked End, North face Eaft, $1^{\circ} 32^{\prime}$
Ditto Ditto Weft, 138
Ditto South face Eaft, 140
Ditto Ditto Weft, 117
Mean inclination of the fouth point, 132
The variation of the compafs, $7^{\circ} 50^{\prime}$ eaftwardly.
The fame light winds with pleafant weather continued until the following day, when, after about ten hours calm, a breeze fprang up from the S. E. which gradually increafed, and the next day, Friday the 13 th at noon, the latitude was obferved to be $4^{\circ} 15^{\prime}$ fouth, longitude 265 。 15'. The vertical inclination of the marine dipping needle was as follows:

Marked End, North face Eaft, $5^{\circ} 37^{\prime}$
Ditto Ditto Weft, 532
Ditto South face Eaft, 555
Ditto Ditto Weft, 63
Mean inclination of the fouth point, $5 \quad 46$ And the variation of the compafs, $9^{\circ} 7^{\circ}$ eaftwardly.

Since our departure from the Gallipagos iflapds we had felt the influence of a current fetting to the weftward, though this did not appear to be of great ftrength, as the error of the dead reckoning in longitude to this fituation in the ocean had not increafed more than a degree.

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The extremely bad failing of the Chatham had, throughout this voyage, very materially retarded the pragrefs of our labours, but fince our laft departare from Monterrey the evil feemed to have much increafed; and confidering that our operations to the fouthward might acquire fome advancement from our preceding her, I informed Mr. Puget, that I fhould make the beft of my way with the Difcovery towards the ifland of Juan Fernandez; and in the event of his not arriving there before our departure, he was provided with further inftructions, which, with fuch as I might leave for him at that ftation, would be fufficient for his future government.' After having made thefe neceffary arrangements, we made all fail in the Difcovery with a pleafant fteady gale from the S. S. E. Many oceanic birds and numbers of finh fill attended us, and we werc now and then fortunate in taking fome of the latter. By the evening the Chatham was a confiderable diftance aftern, and by the next forenoon, Monday the 10 th, intirely out of fight from the maft-head; fo that the diftance we had gained of her in twenty-four hours could not be much thort of five leagues.
Our progrefs now was not only very expeditious, but very picafant; the wind blew a fteady gale between E. S. E. and S.S. E ; the fea abounded with a great variety of filh, and was remarkably
fmooth; the weather, alternatcly clear and cloudy, with fome flight howers of rain, was very temperate and agreeable, the thermometer ftanding between 75 and 77 . On Saiurday in fouth latitude $12^{\circ} 43^{\prime}$, longitude by

Arnold's No. 14, - $255^{\circ} 3 \frac{\frac{1}{2}^{\prime}}{}$

| 176, | - | 2550 |
| :---: | :---: | :---: |
| Kendall's, | - | 25454 |

And by the dead reckoning, continued from the ifland of Cocos, $260^{\circ} 32^{\prime}$.

In this fituation the vertical inclination of the magnetic ncedle was,

Marked End, North face Eaft, $23^{\circ} 5^{\prime}$
Ditto Ditto Weft, 2350
Ditto South face Eaft, 2358
Ditto Ditto Weft, 2318
Mean inclination of the fouth point, 2323 The variation of the compafs, $4^{\circ} 55^{\prime}$ caftwardly.

As we advanced the wind decreafed in its force, and gradually inclined to the eaftward and northward of eaft, with nearly the fame plcafant weather. On Thurfday the 20 th, in latitude $19^{\circ}$ $44^{\prime}$, longitude $253^{\circ} 45^{\prime}$, the vertical inclination of the magnetic needle was found to be,

Marked End, North face Eaft, $3 G^{\circ}$. $20^{\prime}$
Ditto Ditto Weft, 3017
Ditto South face Eaft, 3523
Ditto Ditto Weft, 3515
Mean inclination of the fouth point, 3549
Variation of the compafs, $2 \hat{i}^{\circ} \mathbf{5}^{\prime}$ caftwardly.

The trade wind during the two fucceeding days was light and variable in the eaftern quarter, and on Sunday the 1 ft of March we feemed to have reached the variable winds, having a frefh breeze, attended with a very heavy fwell from the north-weftward. The obferved latitude at noon was $23^{\circ} 24^{\prime}$, longitude by

Arnold's No. 14, $\quad-\quad 255^{\circ} \quad 3^{\prime}$
176, - 25452
Kendall's, - 25453
And by the dead reckoning, 26025
The variation of the compafs was $4^{\circ}$ eaftwardly. In the afternoon we again reached the temperate zone; and notwithftanding that fince our departure from the Gallipagos inlands we had paffed under a vertical fun, the height of the mercury in the thermometer had at no time excceded 77 degrees.

The north-weft wind continued with fair pleafant weather until the evening of Monday the 2d, when it veered to the north, and became light and variable between the N. N. E. and E. N. E. On Wednefday the 4th, in latitude $26^{\circ} 45^{\prime}$, longitude by Arnold's No. 14, $258^{\circ} 39^{\prime}$, we paffed fome drift wood, and we had many birds and fifhes about the fhip. Some good lunar obfervations had been lately procured by fome of the officers, which fhewed the longitude to be about $5^{\prime}$ to the weftward of Arnold's No. 14,
$18^{\prime}$ to the eaftward of No. 176 , and $3^{\prime}$ to the eaftward of Kendall's chronometer; the dead reckoning at the fame time fhewing $20.4^{\circ} 10^{\prime}$; the variation was $4^{\circ}$ eaftwardly, and the thermometer from 73 to 75 .

From this time our progrefs was much retarded by the wind being adverfe, and varying between fouth and E.S. E.; the weather however continued fair and pleafant until the morning of Sunday the 8th, when the breeze frefhened, attended by fome thowers and fmart fqualls; in one of thefe, the heavieft wehadexperienced for a great length of time, the head of the mainmaft was difcovered to bave been very badly fprung, about five feet below the rigging and about feven feet above, and oppofite to its former defective part. The fails on the mainmaft were immediately taken in, and on further examination of the wound, the head of the maft was feen to be in a very weak and fhattered condition. No time was loft in relieving it of its weight, by getting every thing down upon deck that was above the top, and the carpenters were immediately employed in preparing two anchor ftocks as fifhes to fupport the maft-head. At noon the obferved latitude was $8^{\circ}$, the longitude $259^{\circ} 32^{\prime}$; the variation of the compafs $5^{\circ} 3^{\prime}$ eafterly, and the thermometer from $70^{2}$ to $72^{\circ}$. The weather was tolerably favorable for applying fuch remedies
to the defect in the maft as we poffeffed ; and on Monday afternoon, the 9 th, it being as well fecured as was in our power, the mizentop-maft was fubftituted for a maintop-maft, that being as much as the weak fate of the lower maft was capable of fuftaining, and the maintop-gallantmaft was got up for a mizen-top-maft. By this unfortunate accident our quantity of canvas was fo reduced, that our progrefs towards the appointed rendezvous was rendered very flow; we however made the beft of our way, with winds wery variable both in refpect to force and direction, though generally attended with moderate pleafant weather.

Without the occurrence of any circumftance worthy of recital, we paffed on until Saturday the 14 th, when we founil ourfelves in latitude $33^{\circ} 13^{\prime}$, longitude $262^{\circ} 43^{\prime}$, and variation $4^{\circ}$ eaftwardly. At this time, to my utter aftonifhment and furprize, I was given to underftand from Mr. Menzies that the fea fcurvy had made its appearance amongft fome of the crew. This was a circumfance for which it was not cafy to account. The high ftate of health which cvery individual on board the Mip (myfelf excepted) had appeared to enjoy for fome months before, and the refrefmments we had been conftantly in the habit of procuring fince our arrival at Monterrey, together with the very pleafant weather that had attended
attended us fince that period, all confpired to render the caufe of this unfortunate malady the more inexplicable, efpecially as there had not been the fmalleft abatement or relaxation in the meafures I had adopted at the commencement of our voyage; but on the contrary, the moft rigid obfervance had been paid to all thofe circumftances, which had been proved from experience to be the happy and effectual means of preferving that moft valuable of all bleffings, health. All thefe precautions and falutary meafures on this occafion feemed to have loft their effeet;for the number of our fcorbutic invalids increafed, and with them alfo my folicitude, which may probably be more eafy to imagine than to defcribe. The baneful effects which feldom fail to be confequent on this diforder at fea, filled my mind with apprehenfions for the fafety of our patients; and having prefumed that we had at length profited fo much by the experience and indefatigable labours of that renowned navigator Captain Cook, as that by due attention we could on a certainty protect feafaring people from the fatal confequences hitherto infeparable, under fimilar circumftances, from this malignant diforder, the difappointment which I felt on this occafion was inexpreffible. This was the fecond inflance in which it had appeared during the voyage. The firt was on our pafiage from Nootka to the Spaninf fettlements in New Albion; but I was then in fome meafure able to account for its appearance, our pcople having been for many of the preceding months expofed in a very arduous and fatiguing fervice to moft inclement weather, with only the very fmall portion of refrefhments we were enabled to procure during that time. Thefe reafons did not now exift, and I remained in the greateft uncertainty concerning the caufe of its origin, until at length it appeared to have been elerived from a fource from whence I leaft expected it: namely, from a difobedience of my pofitive injunctions and orders on the part of the cook, who had been ftrictly forbidden on any account whatever to allow the fkimmings of the boiling falted meat to be eaten by the people. Of this difobedience, the fhip's cook, a fteady, grave, and valuable man, came aft on the quarter deck, and made a voluntary confeffion; and ftated, that he had not only acted in dircet oppofition to my repeated injunctions in the prefent inftance, but alfo on the former occafion; though he had not been induced at any other time during the voyage, by the importunities of the people, to tranfgrcis, in giving to the crew the fkimmings of the boilers to mix with their pulfe, which at both thofe times,
times, but particularly the prefent, they had been able to procure in great abundance from their Spanifh friends.

On his examination it appeared that he had been lefs fcrupulous in complying with the demands of the people, in confequence of arguments that had been frequently urged and fupported by fome on board, who feemed to be acquainted with the opinions of the prefident of the Royal Society, and who ftated, that he conceived that pulfe with any kind of greafe was not only a wholefome food, but alfo very antifcorbutic.

When the great infipidity of peas or beans alone, without the aid of butter, or other qualifying material, is taken into confideration, it is not much to be wondered at that a deviation from reftrictive rules in thofe refpects fhould have taken place, with people fo totally indifferent and carelefs of themfelves as are the generality of feamen. The very unreferved and feeling manner in which the cook acknowledged his tranfgreffion, and the contrition he flewed for having thus departed from his duty, intitled him to my full forgivenefs; on which he earneftly affured me, that he would in future attend ftrictly to my directions, and I had reafon to believe that he performed his promife. The cook's name was John Brown, which I fecl a fatisfaction in recording, from his having beeen the means of eftablihing a fact of fo much importance to maritime perfons, by the two experiments which his honefty compelled him to make known, at the rifk of a punifhment for difobedience of orders.

All our antifeptics were reforted to, but they did not feem to act fo well as on the former occa-- fion; and fince the number of fcorbutic patients increafed daily, I had reafon to believe that the pernicious indulgence which had produced the difeafe, had been a very general practice amongft the crew.

With the wind blowing a fteady gale, chiefly between N. N.E. and N. W., attended with fair and pleafant weather, we made as much progrefs as could well be expected in our crippled condition. In the courfe of the preceding weck we procured feveral very good lunar obfervations for the longitude, which, when reduced by Arnold's No. 14 to Wednefday the 1 Sth at noon, flewed their refults to be as follow:

The mean of 31 fets taken by Mr. Whidbey, $273^{\circ} 25^{\prime} 55^{n}$
Ditto 18 ditto Mr. Baker, 2733648
Dito 30 ditto Mr.Swaine, 2733230
Ditto 37 ditto Mr. Manby, 2731337
Ditto 30 ditto Mr. Orchard, 2731744
The mean of the whole 136 fets collectively taken thewed what I confidered the true, or neaily the true longitude, to be - 2732530
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By Arnold's.chronometer No. 14, the longitude


From thefe ftatements it fhould feem, that the chronometers were at this time materially gaining on the rate now allowed. The dead reckoning fhewed $280^{\circ} 1^{\prime}$. The obferved latitude was $33^{\circ} 50^{\prime}$ fouth, and the variation of the compafs $9^{\circ} 15^{\prime}$ eaftwardly.

At day-light in the morning a ftrange fail had been difcovered at a great diftance aftern, or rather upon our weather quarter; fhe was fcon found to be drawing up to us, although we had all the fail fet that we were able to carry; and as the appeared to be a brig, little doubt was entertained of her being the Chatham; the opinion of her being our confort was confirmed about four in the afternoon by her anfwering the private fignal, and as fhe had now evidently the advantage of us in point of failing, we did not florten fail, but left her to overtake us; which however was not effected until about nine o'clock on Friday forenoon the 20th, when Mr. Puget came on board, and I had the pleafure to underftand from him, that, like ourfelves, they had had very fine weather ever fince our feparation; and that on the 2 d of March he had met with a large Spanifh merchant fhip named the Rofalie, Vol. VI.

Antonio Antonio Jofeph Valaro, mafter, laden with cocoa and jefuit's bark from Guayaquil, and bound round cape Horn to Rio de la Plata, and from thence to Cadiz; having quitted the former place on the 20 th of the preceding January. The commander of this veffel mentioned the lofs of the fhip. Edward of London, which had been unfortunately caft away at a place called Manquiva, and that feveral other Britifh veffels, which had been very fuccefffully employed in the fouthern whale finery, had vifited different ports on the coaft of Pcru and Chili, where they had been well received; and that the Englifh were in high eftimation in thofe countrics. From this gentleman Mr. Puget became informed, that the anchorage at Juan Fernandez was confidered as very bad and greatly expofed; that a Spanifh frigate had lately been loft there; and that the illand afforded but very few refrefhments. On there accounts he ftrongly recommended, that in cafe the Chatham ftood in need of any articles of naval ftores, that the thould repair to the port of Valparaifo, as being the moft likely place on the coaft of Chili for procuring fuch fupplies.

After Mr. Puget had obtained this information, and exchanged with Sen $^{r}$ Valaro fome mutual, though trivial marks of civility, they parted, and each veffel purfued her courfe with a pleafant gale at E. N. E., which enabled the Chatham
the next morning to crofs the fouthern tropic in the longitude of $257^{\circ} 40^{\prime}$, about a degree and a half to the eaftward of our track acrofs that line, about forty hours before them. The winds had permitted the Chatham to fteer a more eafterly courfe than we had been enabled to do, which, with our reduced rate of failing, had contributed to form this early junction, and had obtained me a yreat degree of fatisfaction, as it had rendered our ftopping at Juan Fernandez intirely unneceffary.

The very unferviceable and damaged ftate of our mainmaft demanded, that we fhould without delay repair to fome port more eligible than this ifland was likely to prove for adminiftering to our neceffities, efpecially as the head of the maft, in addition to the former accident, had upon a more minute furvey been found to be very rotten. A defect of fo ferious a nature, admitting of no delay in the application of the moft effectual remedy, left no doubt in my mind refpecting the meafures that it would be moft defirable to purfue for the accomplifhment of that object.

In confequence of the ftrong injunctions contained in my inftructions, not to vifit any of the Spanifh fettlements on this coaft, excepting in the event of the moft abfolute neceflity, I deemed it expedient to fubmit to Mr. Puget, and the principal officers of the Difcovery, the ftate and condition of the maft from the carpenters written

Q 2 report, report, together with that part of my fecret inftructions relative to the matter in queftion. Thefe having been maturely taken into their confideration, they were unanimoully of opinion, that for the good of His Majefty's fervice intrufted to my care and execution, and for the prefervation of His Majefty's Chip, it was indifpenfibly neceffary that the Difcovery fhould immediately repair to the neareft port, for the purpofe of procuring a new mainmaft; fince the difabled one, with every repair that it was poffible to give it, would ftill be very inadequate to the fervice that might be demanded of it in thofe boifterous feas, which at this feafon of the year we muft neceffarily expect to encounter in paffing round cape Horn.

The port of Valparaifo feeming to be the moft likely to fupply our wants, and being the neareft to us, our courfe was directed thither with a frefh northerly breeze, and fair and pleafant weather. At noon the obferved latitude was $33^{\circ} 55^{\prime}$ fouth, the longitude by

Arnold's chronometer, No. 14, $277^{\circ} 36^{\text {r }}$

$$
176, \quad 27631
$$

Kendall's. $\therefore$ ditto $\because \quad 27732$
And by the dead reckoning, $284 \cdot 19$
And the variation of the compafs was $10^{\circ}$ eafterly.

About four oclock in the afternoon the illand
of Maffafuero was feen dearing by compafs E. N. E., 11 or 12 leagues diftant. The wind at this time blowing a frefh breeze rather to eaftward of north, our courfe was directed to the fouthward of this ifland; but from its diftance, and the approach of night, we were unable to fee much of it. At midnight we were paffing within about 4 leagues of its fouthern fide, its centre then bearing by compafs N. 15 W . The latitude of the hip by the log fince noon was at this time $34^{\circ} 3^{\prime}$ fouth, the longitude by Arnold's No. 14, according to the laft rate was $278^{\circ} 50^{\prime}$, and by the lunar obfervations brought forward by No. 14, allowing the fame rate, $279^{\circ} 17^{\prime}$; but as the, chronometers were evidently gaining, and that very materially, the true longitude of this ifland was deduced from fubfequent obfervations, which thewed its centre to be in $279^{\circ} 26^{\prime}$ eaft. Its latitude from the preceding and following days obfervations, which with the fhip's run agreed exceedingly well together, was $33^{\circ} 49^{\prime}$ fouth. This ifland did not appear to exceed three leagues in circuit: its furface is hilly, rugged, and uneven, and it appeared to terminate abruptly in rocky cliffs at the water's edge. During the night we had a frefh breeze with fome fqualls, which continued the next morning, Sunday the 21 ft , when the jury maintop-fail yard was carried away; not in confequence of a prefs Q 3
of fail, but like many others of our materials, from being quite worn out and rotten. This was immediately replaced with another, of whofe ftrength and qualitieswe had not a much better opinion. At about ten in the forenoon the ifland of Juan Fernandez was feen bearing by compafs N. 60 E. The latitude was fhewn by obfervations at noon to be $33^{\circ} 56^{\prime}$ fouth, longitude by $\therefore$ Arnold's No. 14, - $280^{\circ} 16^{\prime} 30^{\prime \prime}$

170 , - 27918
Kedall's, $\quad 280 \quad 15$
By the laft lunar obfervations
brought forward by No. 14, 2803730
And by the dead reckoning, 28651
The variation of the compafs at this time $13^{\circ}$ eaftwardly.

We had fenfibly felt the influence of a current during the laft two days, fetting to the eaftward at the rate of ten miles per day. In this fituation the fouth-weft point of Juan Fernandez, or rather what we fuppofed to be Goat ifland, bore by compars N. 39 E., at the diftance of 18 miles. In the afternoon we paffed the fouthern fide of Juan Fernandez, at the diftance of about 14 miles, which was too indiftinctly feen to attempt any delineation of its fhores. Its fouth-weft point appeared by our calculations to be fituated in latitude $33^{\circ} 45^{\prime}$ fouth, and longitude corrected by fubfequent obfervations, $281^{\circ} 8^{\prime} 47^{\prime \prime}$ eaft. Its
afpect in this point of view was not very inviting; the point terminates in a high fteep bluff, its eaftern part feemed to be lefs elevated, and the whole compofed a group of broken irregular hills, forming altogether as rude and grotefque a fcene as the imagination can well fancy.

The wind feeming now to be fixed in the northern quarter, and being to the fouthward of our port, our courfe was directed to regain the parallel of its latitude; this was accomplifhed by Monday noon, being then by obfervation in latitude $32^{\circ} 55^{\prime}$ fouth, true longitude $285^{\circ} 30^{\prime}$; the wind was fill at N. N. W., with fair and pleafant weather; the thermometer from 66 to 68 , and the variation of the compafs $13^{\circ} 42^{\prime}$ eaftwardly. Having now got to the northward of Valparaifo, our courfe was fo ordered as to preferve that fituation. This however proved to be a very unneceffary precaution, as towards midnight, in latitude $32^{\circ} 51^{\prime}$, the wind, after becoming light and variable, was fuccceded by a frefh breeze at fouth, that feemed to be equally fteady and fixed in its direction as the northerly wind had been before; fo that we had now again to haul to the fouthward, in order that we might keep to windward of our port,

On Tuefday forenoon, the 24th, we gained a diftant view of the lofty coaft of Chili to the caftward. The obferved latitude at noon was Q $432^{\circ} 53^{\prime}$


## $32^{\circ} .53^{\prime}$ fouth. The land at this time was too

 far off to diftinguifh any of its particular parts. The wind blew frefh from the fouth, with which we made great progrefs towards the land, and by fun-fet the fhores were diftinctly feen to extend: by compars from N. 50 E. to S. 68 E., about 10 leagues diftant.' In this point of view the fea coaft appeared to be compofed of hills of various fhapes and fizes confiderably elevated; behind there the interior country rofe to a very lofty range of ftupendous mountains wrapped in perpetual fnow. Thefe were the Andes, and when firft feen, which was ihortly after noon, were at the diftance, I hould imagine, of nearly: 40 leagues; but we had not an opportunity of mak. ing the neceffary obfervations for afcertaining that fact. We continued to fand in fhore until ten at night, when, concluding we were within three or four leagues of the land, we tacked and ftood to the W.S. W. under as much fail as we could venture to carry, for the purpofe of fetching, if poffible, to windward of Valparaifo.At two o'clock on Wednefday morning the 25 th, we again ftood in for the land, which was very indiftinctly feen, owing to a denfe haze in which it was enveloped. . The wind at S.S. E. wą̧ light, and it was not until about ten in the forenoon that we were in with the fhores; on which there was no one circumftance that could indicate
indicate our being in the nighbourhood of Valparaifo, nor point out whether we were to the north or fouth of that port, excepting our own reckoning; which fhewed it to be in the former direction. I did not think it prudent in our crippled fituation to rifk a difappointment, and for that reafon we ftood off fhore until an obfervation for the latitude could be procured; which by the help of a double altitude, was accomplifhed about eleven o'clock, when we bore away in latitude $33^{\circ} 10^{\prime}$ fouth, for a point not far diftant from the place where we expected to find the bay of Valparaifo. At noon the above point, which was the moft northern part of the coaft in fight, and appearing like a fmall rocky ifland, lying clofe to a low or moderately elevated projecting point of land, and terminating at the feafide in a round hummock like a bell, bore by compafs N. 43 E.; a rugged rocky inlet lying clofe to the main land, near the fouth point of a fmall fandy bay, being the neareft fhore, N. 64 E ., two or three miles diftant; and the fouthernmoft part of the coaft in fight, S. E. by S.

The view we had thus gained of the coafts of the kingdom of Chili prefented but little to attract the attention, or excite the curiofity, of ftrangers. Thofe parts immediately on the fea thore were compofed of rude cliffs and rocky precipices, againt which the weftern fwell broke with with unremitting violence. Above thefe cliffs the country was varioufly brokerr by irregular eminences, fome formed of naked barren rocks, and others confifting of a reddifh fubftance almoft equally unproductive, on which fome verdure appeared here and there, with a few ftunted fhrubs and bufhes, fome of which were at great diftances from each other; but nothing like a tree was to be feen, and the landfcape, bounded by the frozen fummits of the lofty Andes towering abore the lower barren mountains that defeend from them towards the fea coaft, exhibited an extremely dreary, defolate, and inhofpitable picture.

As we proceeded, a low fteep bluff point of land, beyond that which terminated our northern view of the coaft at noon, was now feen lying in a direction from it, N. 51 E. about three leagucs diftant, and which proved to be the weftern point of entrance into Valparaifo bay.

Our attention was now directed in queft of the " great rock or fmall ifland" defcribed by Sir Richard Hawkins in 1593, as lying "a league " or better to the fouth of, and a good mark and "fure lign of, the port." At firft I was at a lofs to difcover which of the two noticed at noon was Sir Richard's rock, as both are much further from the bay of-Valparaifo than he defcribes them to be; but as we advanced, I had no doubt
doubt of the moft northern being the "great " rock or fmall illand." This lies upwards of three leagues, in a direction S. 51 .W. from the point of Angels, which is the weft point of Valparaifo bay; and is rendered fill more confpicuous for pointing out the port, by being fituated clofe to a very projecting point called by the Spaniards Pr Quraumilla, from whence the fhores of the main land to the fouthward take a direction fome degrees to the eaftward of fouth, and thofe to the northward, as before fated, towards Valparaifo. It is alfo the fouth-weftern point of a fpacious open bay bounded by a fandy beach, where anchorage might probably be found, but which muft be much expofed; and as feveral rocks were obferved lying at a very little diftance from the fhore, the chance is that the bottom may be compofed of the fame materials. On the north-eaft fide of this bay a houfe and fome fmaller habitations near it were feen, and the country in its neighbourhood appeared to be lefs fteril and forbidding than thofe parts to which we were oppofite in the morning. Its furface, though unequal, was lefs broken; and although it could not boaft of a luxuriant vegetation, yet the naked, rugged precipices, that formed a barrier againft the ocean on each fide of the bay, were no longer the general characteriftic of the interior country, which prefented a furface of fome

236 A vorage of miscotery [itarch, fome foil, on whofe withered herbage both flocks of heep and herds of cattle were feen grazing, on the fides of the hills.

Along thefs fhores, which feemed to be bold, we paffed at the diftance of from half a mile to half a league, without difcovering any : danger which is not fufficiently confpicuous : to . be avoided; and, with the affiftance of a fine foutherly brecze, by two in the afternoon we were abreaft of the point of Angels, off which fome rocks extend to the diftance of about half a cable's length. Thefe we paffed at about twice that diftance, without gaining foundings. In failing round this point, the country fuddenly opened upon us, and prefented a fcene to which we had long been intire ftrangers; the whole of the bay was now exhibited to our view terminated by a fandy beach; near the upper margin of which, and on the fides of the adjacent hills was feen the town of Valparaifo; and although from its fituation it could not boaft of much pleafintnefs, yet in this point of view it appeared to be neat, of confiderable extent, and built with regularity; the churches rofe above the other buildings, and the, whole being defended by feveral forts, all confpired at once to announce, that we were again approaching towards the civilized world.

In the bay and near to the fhore rode feveral
1795.] - ROUND THE WORLD. .. 237
fail of merchant flips, engaged in their refpective occupations; to and from which boats were paffing and re-paffing to the fhore, where a very lively fcene was exhibited of men and cattle; the whole exhibiting that fort of commercial intercourfe between diftant countries, that the arts and civilization can alone carry into effect. This pleafing profpect of at length drawing towards our native country, after fo long an abfence amongft the rude, yet hofpitable, nations of the earth, was however not unmixed with forebodings of a painful nature, left the intelligence refpecting the diftracted ftate of Europe, which we had but too much reafon to apprehend would meet us on vifiting thefe fhores, fhould be of a more melancholy complexion than we had anticipated.

The wind from the fouthward blowing directly out of the bay, obliged us to make fome trips for the purpofe of reaching a proper fituation for anchoring, which was accompliflied about three o'clock in 10 fathoms water, muddy bottom.

An officer was immediately difpatched to inform the governor of our arrival, of the occafion of our vifit, and of the affiftance we required. A hip that had been feen in the offing in the morning anchored foon after us, and, together with the Difcovery and Chatham, made ten fail of veffels riding in the bay; of thefe five fhips and two brigs were Spanifh merchantmen, and the other the Lightning of Briftol, a South-fea whaler, commanded by a Mr. Cook; from whom we received little encouragement to hope for fuch a reception at Valparaifo, as we confidered we had a right to expect, or as our fituation demanded. Soon after we had anchored, however, and during the abfence of Mr. Manby, who was the officer fent to the governor, a Spanifh officer came on board with congratulations on our arrival from Sen ${ }^{r}$ Don Lewis Alava, a colonel in the army, gorernor of this port, and brother to our friend of that name at Monterrey.

This meffage was accompanied by the ftrongeft affurances on the part of the governor of affording us every affiftance that we might require, and which might be in his power to beftow, and with hopes that he fhould foon bave the pleafure of feeing myfelf and officers on fhore, where we might depend upon receiving every civility; adding, that the time we might remain at Valparaifo hould pafs as agreeably as it was in the power of himfelf and the inhabitants of the town to render it.

It was not eafy to reconcile two reparts fo wery oppofite, though I did not hefitate to give more credit to the latter than to the former, efpecially: as our firf impreffions were received from one
not perfectly fober. Had I entertained any doubts, my fufpenfe would not have been of long duration, for on the return of Mr. Manby, every thing the Spanifh officer had fated was confirmed; and we now underftood, that if thore on board the Lightning laboured under any uncomfortable reftrictions impofed by the governor, it was to be attributed folely to their own indifcretion and improper conduct, which had rendered fuch meafures on the part of the commanding officer indifpenfibly neceffary for the prefervation of good order.

Mr. Manby informed me that Senr Alava had ftated to him, that notwithftanding he did not entertain the leaft doubt that Don Ambrofio Higgins de Vallenar, the prefident and captain general of the kingdom of Chili, would confirm all the promifes which he then made; yet it was neceffary, before any material operations fhould take place, to obtain his excellency's. fanction and approbation for their being carried into effect. For this purpofe he fhould difpatch a courier that evening to the capital, St. Jago de Chili, the refidence of the Prefident, and where he now was, and he hoped it would be convenient to me to make fome communication to his excellency by the fame conveyance, on the fubject of our vifit, and the fuccours we required.

With this requeft of the governor's I inftantly complied; complied; the meffenger was then difpatched, and we were given to underftand that a reply might be expected on the Sa*urday or Sunday following; in the mean time there was no reftraint on the officers vifiting the town; the markets were open to us to obtain fuch-immediate refrefhments as we might require ; and we were equally at liberty to recruit our ftock of water and of fuel.
On thefe agreeable communications being made, the garrifon was faluted with thirteen guns, and on this compliment being equally returned, I waited upon the governor, whilft the veffels were mooring by the bower anchors in a N. N. E. and S.S. W. direction, a cable each way; the fouthern anchor in ten fathoms, the northern in fixteen fathoms water, on a bottom of fiff muddy clay. The point of Angels bearing by compars N. 35 W. diftant about a mile; the faluting fort on the weftern fide of the bay, N. 53 W . about half that diftance; the governor's houfe in another fort, S. 86 W . about three cables diftant; a rocky point running off from the town, being the neareft fhore, S . 7 W . one cable and a half diftant; a redoubt on a hill, S. 5 E.; a confpicuous white church in the village of Almandrel; S. $65 \mathrm{E} . ;$ the eafternmoft fort, N. 83 E.; a remarkably lofty, rugged, fnowy mountain, terminating partly in a flat, and partly
in a peaked fummit, being a part of the Andes, N. 61 E. ; the eaft point of the bay, N. 57 E . about a league diftant; a more diftant point, N. 17 E. three leagues off; and the northernmoft part of the coaft in fight, N. 6 W .

On Thurfday morning the 26 th, accompanied by Mr. Puget and feveral of the officers of both veffels, I paid my formal vifit to governor Alava, and had the pleafure of receiving every mark of polite and hofpitable attention from him, with repeated affurances that nothing fhould be wanting on his part to relieve our wants, or to render Valparaifo as pleafant and agreeable to us as its circumftances would allow. Thefe ceremonies being concluded we returned to the veffels, where our vifit was fhortly repaid by the governor, attended by moft of the principal officers and inhabitants of the town; and on their coming on board they were faluted with thirteen guns. From all thefe gentlemen we received the moft preffing intreaties to vifit their families; which civilities we did not fail to accept, expreffing our thanks for the cordiality with which they had been fo obligingly made.

The day was pleafantly fpent amongft our new acquaintance, who readily affifted me in making arrangements for procuring a fupply of the abundant refrefhments which this luxuriant country

[^3]afforded. In doing this, my firft care and principal object was, immediately to adopt the moft efficacious meafures that could be devifed, for eradicating the inveterate fcorbutic diforder which now prevailed, and which had greatly increafed amongft the crews of both veffels. The number of fcorbutic patients rendered incapable of attending to their duty on board the Difcovery, amounted to feventeen. On board the Chatham their number was not fo great, though the difeafe was making a rapid progrefs; and I learned from Mr. Puget, that on his making inquiry into the caufe of it, he had found that the fame pernicious practice had been indulged in on board the Chatham, which had taken place on board the Difcovery during our late long and tedious paffage, that of permitting the fat 1 kimmings of the boiling falt meat to be eaten by the people with their pulfe, and to be ufed for frying their finh; but it did not appear that this unwholefome indulgence had been carried to fuch an extent on board the Chatham, as it had been on board the Difcovery. In confequence of this information, I deemed it expedient that the whole crews of both veffels fhould, in addition to the regular allowance of frefh beef and greens, and new foft bread from the fhore, be daily ferved with a quantity of grapes, apples, and onions; and I had foon
the happinefs of finding, that this falutary diet was attended with the defired effect of intirely eradicating the difeafe.

Whilit we were waiting for the return of the courier difpatched to his excellency the Prefident, my time was not unprofitably employed; for I embraced that opportunity to vifit the feveral warehoufes, and by fo doing obtained a complete knowledge of the quality of the ftores and provifions they were capable of affording us. When this was done, I made the neceffary arrangements for receiving them on board the inftant we fhould be at liberty to accept them. In the courfe of my inquiries I had the mortification to learn, that there was not a fpar, either at Valparaifo, or in the country within our reach, of a fize fufficient to be converted into a maft, for the purpofe of replacing our difabled one on board the Difcovery. This was a matter of very ferious concern ; but as a new maft could not here be procured, the only expedient we had the power of reforting to, was to ufe our beft endeavours to repair the old one. This I purpofed to do by turning the maft end for end, by which means the moft defective parts would fall below the deck; where, by the addition of the fifhes we had on board by way of further fecurity, I was in hopes, that with great care and attention to the performance of the work, we fhould be able to render it fufficiently

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The town of Valparaifo not affording any taverns or places for the reception and accommodation of ftrangers, we were obliged to intrude on the hofpitality of its worthy inhabitants for fuch conveniences when we vifted the fhore. Thefe civilities were conferred in fo handfome a manner as at once to relieve us from any idea of our being intruders; the pleafure that every one manifefted in entcrtaining us, completely removed every fentiment excepting that of gratitude on our parts, for the repeated acts of kindnefs they fo very obligingly beftowed. Amongft the firft to whom we were indebted in there refpects was Don Juan Barrara, the collector of the king's duties, and Don Practa, the captain of the port. We firft became known to thefe gentlemen in their public capacity, and they had the goodnefs to introduce us to many others of their friends, all of whom treated us with the greateft. politenefs, attention, and hofpitality; but as their houfes were not more than fufficiently large for the accommodation of their own refpective families, a lodging on fhore was not to be eafily procured. The very indifferent ftate of my health at this time however, required that I fhould avail myfelf of this opportunity of fleeping on flore, and taking as much of the cxercife of the coun-
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try as my ftrength would permit; for this reafon I was induced to apply to the governor, to allot apartments for myfelf and a few of the officers in fome of the public buildings of the town, with which he very obligingly complied; and in the event of our equipment in this port meeting with the approbation of his Excellency the Prefident of Chili, of which there was little doubt, the Cafa de Exercicios was appointed for our reception and refidence. This building had been erected fome years ago as a chapel of eafe, for the purpofe of accommodating the country inhabitants who came into the town on Sundays to attend divine fervice, but who frequently could not find room in the churches; and it had likewife been appropriated for the penitential acknowledgments of the women,

Our time on board was bufily employed in making every thing ready to proceed in the fervice we had to perform, the inftant we fhould receive the fanction of the prefident for fo doing. On Saturday evening the 28th, agreeably to our calculations, the courier returned, and I had the fatisfaction to receive from his Excellency Sen ${ }^{\text {r }}$ Don Ambrofio Higgins de Vallenar, prefident and captain general of the kingdom of Chili, the moft ample confirmation of all the liberal offers which had been made to us by Governor Alava; together with a letter containing the molt polite R 3 congratu- congratulations on our having thus far fafely accomplifhed the great object of our expedition, and having at length arrived in a country where nothing fhould be wanting within the reach of his power to fupply, that could in any way contribute to the reftoration of our health, adminifter to our future comforts, or tend to re-equip the veffels, and repair the damages which they had fuftained. Thefe obliging and friendly offers were further accompanied by a communication to governor Alava, ftating, thaf if myfelf and fome of the principal officers thould be inclined to wifit the capital, we had his Excellency's permiffion to do fo; and in the event of our undertaking a journey to St. Jago, the governor was requefted by the Prefident to employ his good offices, in feeing that we were properly provided for the excurfion.

I embraced the earlieft opportunity to return my moft grateful acknowledgments to the Prefident, for his extreme politenefs and liberality towards us; and I loft no time in fetting hard to work on the various fervices which now demanded our attention. My firt and principal object was to get out the main-maft ; for this purpofe, on Monday morning the 30th, the fhip was moved nearer in fhore, and moored in four fathoms, to infure more effectually fmooth water for performing that operation. After this was
accomplimed, on the following morning, the maft was hauled up on to the beach between Valparaifo and the village of Almandrel, where a tent was erected, and at the governor's exprefs defire a guard of marines from the Difcovery was pofted there, to prevent thefts, or other improper conduct on the part of the inhabitants, as fome of the pinnace's covering had been ftolen the preceding night.

Whether this application from the governor proceeded from a fentiment of delicacy towards us, or whether he confidered that our marines * - would be more adequate to the protection of our Eproperty than the Spanifh foldiers, is not eafy to decide; but it appeared to be a very unprecedented and extraordinary circumftance, that a guard fhould here be requefted by the governor from an Englifh man of war, to do duty in the dominions of his Catholic majefty. The marines however were landed with a ferjeant, and planted as centinels, with pofitive orders from me, on no account to hurt any of the inhabitants, even though they fhould be detected in the very act of thieving; but to fecure their perfons, that they might be dealt with according to their own laws.

On the maft being examined we had the mortification to find, that the damage it had fuftained was greater than we had fufpected, as it

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was
was fprung nearly two thirds through, a little below the hounds. Some Spanifh carpenters, in addition to our own, were immediately fet to work upon it; and as both the veffels required much caulking, the artificers of the country were alfo hired for this fervice. Our fail-makers were employed in repairing the old and making fome new fails; the coopers in fetting up cafks for the reception of flour, and repairing thofe made ufe of for water; and the armourer was making the neceffary iron work for the repair and fecurity of the mainmaft and other purpofes, whilft thofe remaining on board were varioully employed about the rigging, and in the hold for the reception of a quantity of fhingle ballaft. Not being yet pofitively determined whether our route home fhould be round cape Horn, or through the ftraits of Magellan, and our cables and hawfers being worn to the laft extremity, a fupply of each fort was ordered to be made for both veffels, according to the dimenfions we required; for although we had found an abundance of fmall white cordage in the warehoufes, there were no cables; there being little demand at Valparaifo for fuch - ftores ; nor was there any tarred rope of any defription, the cordage from four inches in circumference downwards, being all white rope, fuch as the Spanifh trading veffels in there feas ufe for running rigging. Thefe feveral fervices
were all put into a regular train of exccution; but as the following day was the anniverfary of our departure from Falmouth, and the commencement of the fift $/ 2$ year of our labours, all work was fufpended, and the people as ufual had the day to themfelves. They were all ferved with a double allowance of grog, and an excellent dinner, compored of the various good things that this country fo abundantly afforded.

All our operations were cheerfully refumed the next morning, Wednefday, April the 1ft; and on my vifiting the artificers employed on the maft, had the mortification to underftand, that on traming the heel of the maft for the purpofe of its becomit:g the head, that end, near to the place where the cheeks were to be fixed on to it, was found to be extremely decayed, and fcarcely in a better ftate than the other extremity. It was however, though rotten, not fprung, and having no refource but that of applying the beft remedy in our poffeffion, two ftout cleeks made of our fpare anchor ftocks, together with two ftrong fifhes, were fixed to the maft below the partners of the main deck, and continued up to its head; and even with thefe additional fecurities, it would be but a crippled ftick to depend upon: yet as we had no alternative, we were eompelled to make the beft hift we could, which would neceffarily oblige us to be particularly cautious cautious, and to prefs it as little as poffible in our paffage homewards.

The obfervatory, with the requifite inftruments, was fent on fhore, and, as ufual, committed to the charge of Mr. Whidbey, for the purpofe of making fuch obfervations as were now become neceffary for afcertaining the rates and errors of the chronometers, and for finding the latitude and longitude of Valparaifo. Having made this and fome other arrangements for carrying into effect the re-equipment of the veffels, I determined to avail myfelf of the obliging permiffion of the prefident to vifit the capital of Chili, and ordered preparations to be made for an excurfion to St. Jago.

Our party was to confift of Mr. Puget and Lieutenant Johnftone of the Chatham, and Lieutenants Baker and Swaine, and Mr. Menzies of the Difcovery. I had already made known to governor Alava my intention of vifiting St. Jago, who very obligingly gave directions, as Valparaifa did not afford any travelling carriages, that we fhould be provided with a proper number of horfes and mules for the expedition; the former for our riding, and the latter for carrying our luggage.

I now had the pleafure of finding that his Excellency the Prefident, together with his polite invitation to the capital, had alfo fent two dragoons from St. Jago, who were natives of Ireland,
land, in his Catholic Majefty's fervice, for the purpofe of being our guides and interpreters, and for rendering us eyery other fervice that we might require on the journey. Thefe people had been long in New Spain ; they feemed to be highly delighted with the charge now intrufted to their care, and not a little proud of the power and confequence that was attached to it; for, as on this occafion they bore the immediate order of the Captain-general, they had authority to do many acts from which, in the capacity of dragoons only, they were prohibited. This power, amongft other things, permitted them to take any horfe or horfes whatfoever, whether in the ftables or at pafture, for the purpofe of facilitating the fervicen which they were employed; but as our vilit to St. Jago was purely for recreation, I would not permit any compulfory meafures to be reforted to for our accommodation; and a fufficient number of horfes were procured, at twelve dollars each, for the journey thither, and back again to Valparaifo.

Every thing being prepared, we fet out early on Friday morning the 3d, with a numerous cavalcade; for, notwithftanding this country had been fettled a great length of time, we were given to underftand that we fhould find no accommodation on the road between thefe two principal towns of the kingdom of Chili, excepting
ing fuch as might be met with in the villages through which we might pafs or occafionally ftop at, and thefe-would confift only of a hhed or uninhabited empty houfe. A fupply of provifions might be depended upon, but there were neither beds, feats, tables, nor any fort of convenient or neceffary articles or utenfils to prepare them for our table; all thefe, with our cook, we were obliged to take with us; and, left we fhould be difappointed of the promifed fhelter, we wero provided with a tent, which was packed in conyenient travelling trunks, and carried on the backs of the mules, according to the ufual method of travelling in this country. I could not, however, help expreffing my concern that the pnor beafts fhould be fo much loaded, and I objected to the weight propofed to be carried, efpecially the poles of the tent, which I fufpected would prove too inconvenient a burthen fur them to move under: indeed this circumftance produced fome altercation between the muletecrs and the dragoons; but as there was no appeal againft the injunctions of the latter, the muleteers and myfelf were obliged to acquiefce, and twelve mules were completely loaded with our tent and baggage. : The horfes that had been hired we thought rather too fmall, and not of fufficient ftrength; for, befides the weight of their rider, they had each a moft enormous heavy faddle to

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carry ；but our Irifh guides undertook to anfwer for their abilities，and the event proved that their judgment was to be depended upon．

From the town of Valparaifo，which is fituated on a narrow tract of very uneven ground at the foot of the fteep rocky precipices，which，at no great diftance from the water－fide，compore the fhores，there is no pafs immediately into the country but for foot paffengers；for the main road which leads into the interior parts of the country， approaches the fea－hore through the village of Almandrel，whither our route was neceffarily di－ rected．This village is pleafantly fituated，and is on a more extenfive border of low land than the town of Valparaifo；but it is bounded ina fimi－ lar way behind，by fteep and nearly barren hills． The valleys and plains，however，in its imme－ diate neighbourhood，are fertile，and large gar－ dens were both cultivated for profit，and deco－ rated for amufement．From Almandrel a tole－ rably good，though rather ftecp，road had been made，in a zigzag way，over a ridge of hills，of confiderable extent and elevation，the fummit of which occupied us full two hours in reaching． The old road between thefe two towns being a very bad one，and dangerous to pafs，his excel－ lency had determined that a new and more eli－ gible line of road fhould be made；and for the more immediatc convenience of the inhabitants
of St. Jago and Valparaifo, this new road, which is about fixteen yards wide, had been begun from each place, and by that means an eafier and more pleafant cormmunication with the adjacent country had already been afforded to the inhabitants of each of thefe towns than they had hitherto enjoyed. We were informed by our guides, that the whole of the new road was not yet finifhed, but was at that time in a progreffive ftate towards completion, and that we fhould meet the people employed upon it as we proceeded.

Under the prefent circumftances of this road, and whilft the dry feafon may continue, it is doubtlefs as commodious a pafs as could have been well defigned; but, from the loofenefs of the foil, and the acclivity of the hills along the fides of which it is carried, it appeared to us that it would be liable to great injury in the winter feafon; which, we were told, is frequently fubject to extremely heavy rains, that muft neceffarily ruh with great impetuofity down the fides of this fteep mountainous country.

Having gained the top of the road; which paffes over a depreffed part of that ridge of lofty hills which bind the fea coaft, we arrived in a fpacious plain, nearly on a level with the fummit of the hills we had now left behind us. This plain extended to a confiderable diftance, in a north-
eafterly, eafterly, and fouth-eaft direction, where it finifhed at the bafe of another ridge of hills, beyond which were feen other ranges varioully diverfified, and rifing in fucceffion one after another; until our view was terminated by the hoary head of the lofty Andes, wrapped in undiffolving fow. Had the intervening plain, and the furrounding rifing hills, exhibited the verdant productions of nature, affifted by the hand of man, the landfcape would have been beautiful in the extreme, but this was not the cafe; and the apparent fterility of the wide wafte, that now encompaffed us on every fide, rendered that abundant fupply of good things which we had been daily accuftomed to fee in the market of Valparaifo, a circumftance not eafily to be accounted for.
Inftead of numerous villages, fertile paftures, and fields in high cultivation, which I had expected to find, after paffing over the hills near the fea fhore, an extenfive open defert now appeared before us, deftitute of wood, and nearly fo of verdure; as a few ftunted trees only, and fome grovelling flrubs, were fcattered at a great diftance from each other; and, excepting near the banks of the fluggifh rills of water that crept through the plain, regetation was fearcely perceptible; whilft the few miferable inhabitants that exifted on its furface, lived in wretched little havels,
hovels, or huts, made principally of mud. The frames of thefe dwellings, of which we had feen about a dozen, were rudely conftructed of wood; and plaftered over with a thick coating of mud; this ferved as a wall, whilft the unfmoothed furface of the ground formed the floor, and little or no covering appeared on the roof; the whole feeming fcarcely to afford a fhade againft the fcorching rays of the fun; for againt wind and rain thefe humble manfions could afford no fhelter.

At one of thefe mean abodes, about fifteen miles from Valparaifo, we ftopped to dine. The infide of the dwelling more forcibly difplayed the poverty of its inhabitants than had been exhibited by its external appearance; for it hardly contained the moft common neceffaries to the exiftence of human life; a dirty table, a ftool, a wretched bed in one corner, and five or fix croffes, comprehended all its furniture; yet it was not without fome decorations of a religious nature; and what ftill more attracted our notice, thofe who refided in it not only indulged in the luxury of taking the mattee, which is an infufion of an herb imported from Paraguay, but to our furprize, the very few utemfils they poffeffed for their moft common domeftic purpofes were chiefly made of filver. The land about thefe miferable hovels was, hike the wide furrounding walte,
wafte, in a perfect ftate of nature, without the veftige of any labour having been ever beftowed upor it, not even in the cultivation of a gaiden. The few wretched peaple who inhabit this dreary wild, feemed to rely intirely on the bountiful hand of Providence for their daily fubfiftence; and to pafs away their lives, without entertaining a wifh to procure the leaft addition to their happinefs or comfort, at the expence of any exertion. Indolence and fuperftition appeared to influence the whole of their conduct, which was marked with a greater degree of uncleanlinefs and thofe characteriftics that diftinguilh the very loweft order of fociety, than I had before witneffed amonglt any people who had ever had the advantage of living amongt thofe connected with the civilized world.

The mules which carried our luggage were on the road before us, making the beft of their way to the place where we purpofed to reft for the night, excepting one fumpter mule, which had accompanied us with fome articles of provifions and provender for the day; and by adding to our own ftores the fupplies which thefe hovels were able to furnifh, confifting of poultry, eggs, potatoes, onions, and fruit, we made an excellent repaft, whilft ou: horfes were alfo refrefhed, and prepared to proceed with us over this extenfive defert. Having now travelled fome miles beVol. VI.

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yond
yond the extent to which the new road from Valparaifo had been carried, we found the old one infinitely les commodious, and the difference between the two was very grcat indeed. Inftead of the fmooth regular furface over which we had paffed from Valparaifo along the new road, this could only be confidered as a beaten track, fometimes leading along, or through, deep and irregular ravines and gullies, deftitute of the appearance of any labour haring ever been applied to reduce the inequalitics of its furface, or to remove any of thofe impediments which continually interrupted our travelling.

The making of the new road had doubtlefs been a work of great labour; and to a people who are not very induftrioufly inclined, and who are all bigotted to former practices and original habits, it is no wonder that the manifeft adrantages that muft refult to the inhabitants of the country from his Excellency's wife undertaking, Thould be overlooked, or rather not feen by them; and that the execution of his judicious plan thould have deprived him, amongft the lower orders of the people, of much of his popularity. For as the thought had firft originated with the Prefident, rather than not induige a contradictory fpirit, which our guides informed us had fhewn itfelf amongft the bulk of the people, the inhabitants feemed to be more willing to facrifice their own
future intereft and comfort by oppofing this beneficial defign, than to do any thing which might promote its fuccefs.

Little variation occurred, in the fcenery already defribed, in our journey in the afternoon, as we faw few objects to attract our attention until towards the evening, when we arrived at the village of Cafa Blanco, or, the white houfe. Here our guides propofed we fhould reft for the night, and after travelling twenty-eight miles in a way to which we were little accuftomed, we all gladly agreed to the meafure.

Cafa Blanco is a hamlet, confifting of a neat church and about forty houfes in its neighbourhood; which, with fome inclofures of land under cultivation, formed a pleafing contraft to the barren . naked country through which our day's journey had been directed. The principal perfon of the village appeared to be the curate, who having been made acquainted with our approach, was prepared to meet us, and gave us a like hofpitable reception with that which had been fo generally fhewn by all the good people of this country with whom we had hitherto met. In the exercife of his humanity and good wifhes, our reverend friend feemed to be much hurt that he had fo little to beftow; but as we fortunately did not ftand much in need of his affiftance, excepting in one refpect, that of providing us with S 2
a lodging, a lodging, we foon relieved him from his embarraffment. This gentleman immediately furnifhed us with a houfe, over which he held fome authority; a manfion precifely of the defcription which, we had been given to underftand, we fhould find on the road for our accommodation.

This houfe, if the ftructure could be entitled to fuch a name, was fituated nearly in the centre of the village, and was fo rudely formed, that it could hardly be confidered as the work of a civilized people. Its walls were made of dried pieces of earth cut fquare into the fhape of bricks, which had been laid on each other when in a wet ftate, and plaftered over with the fame fubftance; but by drying unequally the plafter had fallen off in many places. Its infide was open like a barn, and confifted of but one apartment, which contained nothing but our baggage, that had arrived fome hours before us; and had the weather been rainy, it would have afforded us but very imperfect fhelter. The floor was no other than the ground in its natural, unlevelled ftate; but though it was not remarkable for its cleanlinefs, it was fpacious, and in that refpect more fuitable to the purpofes of our party, than the tent we had brought with us. As it, however, was totally deftitute of all kinds of furniture, we were obliged to refort to our neighbours for fuch temporary conveniences as we fhould want, which they very
readily fupplied: and whilft our fupper was preparing we vifited the inhabitants in the village, by whom we were received with the moft cheerful affability; particularly by the younger parts of the fex, amongft whom we noticed feveral faces which, even by the fide of our fair countrywomen, might have been confidered as pretty, had not the intolerable nafty cuftom of painting both red and white, deftroyed the natural delicacy of their comprexion, and impaired the effect of the agrccable affemblage of their features. Their affiduity to pleafe was however very engaging, and the evening paffed fo pleafantly, that the fatigue of the day's journey was, I believe, intirely forgotten by moft of us. The houres of this village being all white-wafhed, gave it a neat appearance, which, as we approached, impreffed us with a belief that we fhould find thefe dwellings infinitely fuperior to the wretched hovels we had paffed in the courfe of the day; but we had the mortification to difcover, on accepting the invitations of the principal people, that the fame want of cleanlinefs prevailed, and that wretchednefs, indolence, and fuperfition was exhibited here in as great a degree, as amongft. the cottagers on the fun-parched defert. The only difference that we could difcern, between thofe people and the inhabitants of Cafa Blanco, confifted in the fluperiority of the external habi-
liments of the latter, who had evidently dreffed themfelves in their beft attire for the occafion.

Our time was agreeably engaged until fupper was ferved, when we were favoured with the company of every inhabitant, I believe, belonging to the village ; the principal perfons partook of our repaft, whilft the others feemed to be equally gratified in the opportunity that was afforded them, of fatisfying their curiofity with a fcene fo novel and unexpected in their country. The glafs went cheerfully round, and our new friends did not retire until a late hour. Our blankets were then fpread, but the night did not pafs fo pleafantly as the evening had promifed; for our reft was moft tormentingly difturbed by the vermin. which had been generated by the former filth of our habitation, and which now took revenge upon us ftrangers, for having endeavoured to difpoffefs them of their ftrong holds by fweeping out the place. When we arofe in the morning we found ourfelves but little refrefhed, owing to the great annoyance we had fuffered from myriads of bugs and fleas. Early the next morning we again fet out, and foon arrived at the foot of that range of hills that gives bounds to the plain on which Cafa Blanco is fituated. Thefe hills appeared to rife with a quicker afcent, and to a greater height above the plain we were then quitting, than the firft ridge had feemingly done from
the fea fide at Almandrel. The new road here led acrofs the lefs eleyated part of the ridge, notwithftanding which, it was fo fteep that it was neceffary to cut the road in the fame zigzag dia ${ }_{z}$ gonal way as before, and in its courfe from the bafe to the fummit of the hills, it made: twentyfive returns or angles.

On this intermediate part of the new road the labourers were at work; and we.undertood from our guides, that as a fufficient number of people could not be procured to carry the whole of the defign into execution at once, his Excellency the Prefident (having the comfort, convenience, and intereft of the inhabitants much at heart) had, in order to facilitate the intercourfe between there two great towns, ordered the moft difficult and dangerous parts of the new line of road to be firft made paffable and commodious. The road here was of the fame.width, and equally well made, with the part before defcribed; but as the foil confifted of the fame lóofe fandy materials, it muft neceffarily be liable in the winter feafon to the fame difadvantage I have before ftated, from the defcending torrents of rain.

We had here for the firft time an opportunity of feeing the peafantry of the country in a labouring capacity, and we could not help remarking, that their inactivity in the performance of their work could only be equalled by the humble

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means means they poffeffed for carrying it into execution. There were about fifty men at work with common pick-axes and fhovels; and to fupply the place of wheel-barrows for the removal of the earth from the higher to the lower frde of the road, the hide of an ox was fpread on the ground, and when as much earth was thrown upon it as would require the ftrength of two men to remove, the corners of the hide were drawn together by each of them, and in that ftate dragged to the depreffed fide of the road, and emptied where requifite, to preferve a gentle flope in the breadth; or elfe difcharged over the brink, and fent down the fide of the till. The rocky parts, which were frequently met with, were blown up with gunpowder; and the fragments, which fometimes were very large, inftead of being beaten into fmall pieces for the purpofe of making a more folid foundation for the paffing of carriages, were all moved to the lower fide of the road, and, like the earth, thrown from thence down the hill By this injudicious practice the earth from the higher fide, which in muft places might have been contrived to have made a parapet along the brink, was not only carried down by thefe maffy fabricks of rock, but in many places the ground was torn up by them in their paffage down; and as it appeared to us that the brink was to be left in this open ragged ftate,
ftate, the defcending rains muft foon caufe gullies that will injure the road, and do it confiderable damage. The fuperintendents, however, feemed to have been aware that the torrents of water, defcending fro mthe upper fide of the hill above where the line of road paffes, might have the effect in rainy weather of wafhing away the loofe materials of which the road is compofed; for a channel was cut along the fide of the road neareft the mountain to receive fuch water, and to carry it down its inclined plane; but it appeared to us to be too fmall, and too much like a gutter to anfwer the purpofe for which it was intended. The lower fide, or brink, had neither bank of earth, nor rail of wood, as a fence; nor did we underftand that any fort of protection was defigned to be made, the want of which gave-it a very unfinifhed naked appearance, and in fome places, where the lower fide paffed over a fteep part of the hill, or over perpendicular precipices formed by the rock, it appeared to be dangerous in a high degree ; for in the night, or in the event of a horfe taking fright, or falling near this outer unprotected fide, there can be little chance of the animal or its rider efcaping unhurt. Indeed it did not appear to us to be prudent to venture too near to this fide in the day time, as the road had already crumbled down
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the hill, and had fallen into deep holes in many places.

The labourcers, I was informed, received their provifions, and a rial and an half per day, which according to the rate at which we received the dollar, (viz.) at three fhillings and nine-pence cach, makes the amount of their daily wages about feven-pence fterling, and the value of their food cannot exceed a groat. Thefe circumftances made it appear to us very extraordinary, that in a country where the expence of labour did not exceed eleven pence per day, more-perfons were not employed in agriculture, and other rural improvements; efpecially as the foil and climate feemed to be well adapted for cultivation, and the fituation of the country infured a ready market for every kind of produce; of which, there. could be no doubt, an abundance would eafily be procured, to reward the labours of induftry. By the introduction of a greater proportion of the common neceffarics of life, and by the obtaining a few of its comforts, it is reafonable to fuppofe that a general firit for exertion would be diffufed amongt the lower orders of the people, who might be tauglit, by encouragement, to prefer a life of diligence and activity to that fupinenefs which at prefent difgraces the larger part of the community. The fubmiffive obedi-

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ence that is here paid to every regulation or re-. ftraint impofed by the pricfts, gave us reafon to believe that it might be within their power to infift that each individual fhould employ himfelf, or be employed by others, a certain number of hours each day, either in his own garden, or in. the general hurbandry of the country; for which certain rewards, proportionate to the excrtion, fhould be affigned as an incentive to a life of induftry. This would foon produce an inclination for employment, which would not only promote the general happinefs of the people, but would be the means of fecuring to every one, in proportion to his diligence, the comforts that would certainly arife from this change in the prefent œconomy of their lives. Inftead of the univerfal apathy to work that feemed to pervade the whole of the labouring clafs, who were dragged to their employment, without any felfimpulfe, like an ox to the yoke, their daily labour would be undertaken with alacrity; and, in looking forward to the adrantages that would refult from their exertion, they might foon be ftimulated to prefer the habits of induftry to thofe of fupinenefs and indolence.

On reaching the top of this range of hills, we could plainly difcern the neat looking village of Cafa Blanco, which added greatly to the appearance of the country we had left behind. The, road forward to St. Jago defcends on the north eaft fide of thefe hills, but it had not fo many angles or returns in it as that by which we had afcended on the other fide, becaufe the intermediate valley, between this range of hills and the mountains before us which we had yet to pafs, was confiderably more elevated from the level of the fea, than the plain on which Cafa Blanco is fituated.

After breakfaft, we proceeded on our journey ałong a very narrow path, which, without a guide, might have been eafily miftaken, as there were many fimilar to it, in various directions, through a foreft of fmall trees, that continued for about four miles. About four in the afternoon we ftopped at a mud hovel, at the diftance of nearly five miles from the mountain of Praow. The country we had paffed through poffeffed little to entertain, and lefs to intereft, the traveller; its general character was fimilar to that over which we had paffed before, excepting that it was more wooded, without any objects to vary the fcene; and being much fatigued with our new mode of conreyance, and the heat of the weather, the advice of the dragoons to make this fyot our refting place for the night, was willingly acceded to by all parties. Some lamb and poultry were foon procured for dinner, which was dreffed by our cock, and both proved to be very good.
good. Our table was fpread under the thade of fome vines clofe to the hovel, where we were attended by a few peafants brought thither by curiofity, who conducted themfelves very refpectfully. We retired very early to our blankets, which, as before, were fpread in the hovel on the bare ground.

By the recommendation of our guides, we were on horfeback at three the next mornings that we might avoid the intenfe heat to which, they ftated, we fhould be expofed in afcending the lofty fummits of Praow; we accomplifhed this before fun-rife by the new road, which made thirty-two paffes or returns on its fide, cut out in a manner fimilar to the other parts of it over which we had already travelled. In afcending at this early hour, we found the air fo very cool, that great coats or warmer clothing would have been very acceptable; and we all were of opinion, that the confideration which had tempted our guides to recommend our travelling thus early, was more to infure a refting place the next evening amongft fome of their particular friends, than to avoid the heat; a meafure on which, however, much of our comforts might very porfibly depend.

From the top of Praow the landfcape was very interefting. To the eaftward ftretched the extenfive valley in which St. Jago is fituated, and
which number of mud hovels were now difcerned, that had before efcaped our notice as we had travelled along, and we now underftood that the valley through which we had juft paffed was confiderably more inhabited, efpecially near Praow, than thofe parts of the country nearer to Valparaifo. The people are chiefly peafantry, whofe principal employment is to take care of fome oxen and Theep that feed in the vicinity of their feveral huts.

We defcended Praow to the north-eaft, by fewer paffies than we had afcended on its oppofite fide, as the valley in which St. Jago is built is much higher than the other two acrofs which we had travelled; the general character of the country being that of an inclined plane rifing towards St. Jago, although its furface is broken by the ridges of mountains before defcribed. The road ftill continued in an eaftern direction, and was here as well made and as broad as the turnpike roads in England. On either fide were feveral fmall orchards, and a few plantations with fome indifferent pafture land, on which cattle were feen grazing-under the flade of a few feattered trees; but the general want of cultivation gave the face of the country a barren and wild

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appearance, deftitute of any feature that could indicate our approaching fo large and populous a city as that of St. Jago; the only people we faw were two or three travellers, and a few muletcers.

We ftopped to breakfaft about fifteen miles from the capital, whofe lofty fires were now plainly difcerned, towering above the numerous houfes which the city appeared to contain. Notwithftanding our prefent vicinity to fo large a town, we found no other place for the accommodation of travellers than the mud hovel, where we were entertained in the fame way as we had been before; and where, like the others at which we had ftopped, there was no fign of any improvement whatever, either in the building, or in any other refpect that might add to the comfort of life; the fame want of cleanlinefs, and wretched condition which I have before had occafion to remark, continued here to debafe the character of the inhabitants, who, notwithftand ing their external appearance of wretchednefs and mifery, wore neverthelefs a contented look, and together with a cheerful countenance poffeffed a difpofition to oblige that was extremely grateful to our feelings, though their exceffive indolence and inactivity created in us a mixed fentiment of pity and reproach. In addition to the ufual fupplies we had found on our journer, we here procured fome creelient water melons of luxuriant growth and in high perfection, which were very refrefhing and acceptable.

Having finihed our breakfaft we again refumed our journey; the road was level, broad, and firm, and we had not travelled far, before on each fide of it were feen plantations and vineyards, in each of which a neat white houfe was generally fituated at a little diftance from the road. The appearance of cultivation and fertility in thefe low lands, when contrafted with the ftupendous fummits of the Andes, produced a moft agreeable effect, and rendered this part of our journey very pleafant and entertaining. After a fmart ride of nearly two hours, we arrived at a houfe about a mile from the capital, where fatigue, and a journey of ninety miles, made it neceffary that we fhould halt ; not only for the purpofe of taking fome reft and refrchment, but alfo that we might equip ourfelves for the vifit of ceremony we were about to make to the Captain General. From hence I difpatched one of the dragoons who had attended us with a letter to his Excellency; announcing our arrival in the vicinity of the capital, and ftating, that with his permiffion we would do ourfelves the honor of paying our refpects to him at the palace in the evening; and I gave further directions to the dragoon, to procure and fend from St. Jago, carriages fufficient to convey thither
thither the whole party. In the mean time our dinner was provided and ferved, and it was our intention as foon as that hould be over to drefs ourfelves in all our beft apparel; that we might make as uniform an appearance on this occafion as our feveral ftocks of clothing would enable us to do; for the extreme length of the voyage had deprived moft of the party of the principal parts of their wardrobe, and we had fcarcely a coat or hat that was fit for common ufe, much lefs for an occation like this. In the midft of our endeavours to make as fmart an appearance as we could contrive, the dragoon returned, accompanied by an officer from the Captain General, whom he fent for the purpofe of complimenting us and congratulating us on our arrival, and of defiring that we would immediately repair to the palace, on horfes which he had fent for the purpofe of conveying us in a fuitable manner to the capital.

Although it was by no means my intention to have made fo public an entry as this arrangement of the Prefident's would neceffarily expofe us to, yet it appeared to me that we could not decline it without giving umbrage, or perhaps offence; we therefore endeavoured to equip ourfelves in the beft manner we were able, and in doing fo we referved our uniforms, which were extremely rotten and unfit for any fervice on horfeback, for Vol. .VI.
the purpofe of appearing in on our vifit of ceremony to his Excellency. The frefh horfes which had been fent from St. Jago, we had imagined to be like thofe which had brought us from Valparaifo, but, to our great aftonifhment, thofe which had now arrived from the Prefident under the care and directions of another officer, feemed to be very high-bred animals; and were all richly eaparifoned with fine faddles and bridles, and faddle clothsirichly decórated, and fringed with gold and filver lace, according very ill with the drefs in which we were under the neceffity of appearing. All my former objections to a public entry were now greatly increafed, and I became very defirous that we might be permitted to vifit St. Jago in a more private manner ; but on reprefenting this to the officers, inftead of acceding to the wifhes of myfelf and party, whips and fpurs were inftantly produced, that nothing might be wanting to complete our appearance on horfeback in every particular. The ufe of the fpurs however was generally declined by us all, left fome embarraffment or mifchance fhould take place from their being unintentionally applied, whilft our thoughts were engaged by the new objects that were likely to attract our attention as we paffed through the ftreets of the city. Trivial as this circumftance may appear, yet to the officer who had charge of this efcort it was
a matter of the firft importance. He not only ufed all his eloquence to perfuadeus to wear the fpurs, but even expoftulated with us on the impropriety of appearing without them, and the unreafonablenefs of our declining fo effential a part of drefs; all his intreaties were not, however, fufficient to overcome our objections, and to his great mortification we mounted without them, and proceeded towards the capital, with a true military ftep, attended by the two officers, and our former guides the dragoons.

The inconvenience we experienced on firft fetting out, from being equipped in this very extraordinary manner, was greatly increafed by the erowds of people who had affembled to fee our eavalcade pafs along, in which they were fully gratified by the flownefs of our pace, until we arrived at the palace; where, on our alighting, we were received by a guard which was turned out on the occafion, and were conducted in form to the audience chamber. Here we were received by his Excellency Don Ambrofio Higgins de Vallenar, with that fort of unaffected welcome in which neither ceremony nor flattery appeared, and which amply repaid us for all the little fufferings we had endured in the courfe of our journey. This polite and cordial reception we had indeed anticipated from the reports :we had received, before our departure from Valparaifo; and T 2 afterwards

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[APRIL, afterwards on the road to St. Jago. His Excellency's character, not only in refpect of his great attention and urbanity to ftrangers, but of his parental care and conftant folicitude for the general happinefs and comfort of all the people who lived under his government, were the conftant topics of our converfation; and it is not to be wondered at. if, on this occafion, we became inftantly impreffed with the juftice which report had done to his virtues, by his congratulations and hearty welcome to the capital of Chili, which were delivered by him in our own language with a fluency that greatly excited our aftonifhment, when we were informed by his Excellency, that he had now been refident in New Spain twentyfour years, during which time very few opportunities had occurred to him for fpeaking Englin. We now learned from Don Ambrofio himfelf that he was a native of lreland, from whence he had been llbfent upwards of forty years, that at an early period of his life he had entered into the Englifh army; but not obtaining in that fervice the promotion he had expected, he had embraced more advantageous offers on the continent. His firft commiffion in the fervice of his Catholic Majefty was in the corps of engineers, from whence he exchanged into the dragoons, and was foon raifed to the rank of lieutenant-colonel; in this fituation he ferved for fome time in Old

Spain, and afterwards in this country, until he obtained the diftinguilhed poft of military commander on the frontiers of Chili, and governor of Conception. - In this fervice he was employed twetve years, and had the good fortune, by the conftant exercife of his humanity, and an uniform attention to the comforts of the native inhabitants of the country, fo to fubdue the natural fiercenefs of their difpofitions; as to induce them to fubmit to the government of Spain. For this effential fervice he was promoted about the year $1 / 83$ to the exalted fation he now fills; fince which time he has been honoured with repeated marks of approbation and diftinction by his Ca tholic Majefty, who has been pleafed to confer upon him the orders of Charles the Third, and St. James, with the rank of lieutenant-general in the Spanifh army.

A room of confiderable dimenfions was allotted to me in the palace, and a large apartment adjoining to it was appropriated to the ufe of Mr. Puget and the reft of the officers, in which were a fufficient number of fmall beds for the party, covered with thin gauze, as a protection againft the mufquitos. The two dragoons who had attended us from Valparaifo were now appointed to be ufeful to us in the capacity of fervants; and every other matter was attended to, ordercd, and rettled, that evening, which could in any way
contribute to render our ftay at St. Jago, and our refidence in the palace, as pleafant as poffible. Nor did the politenefs of the Prefident end here, for, previoully to the fupper being announced; he introduced to our acquaintance Don Ramon de Rofas, the corrigidor, and Don Francis Caffada, a captain of dragoons, who received the Prefident's directions to ufe his utmoft endeavours in fhewing us every thing in St. Jago worthy the attention of ftrangers, and to make us known to the principal families refiding in the city.

The fupper, confifting of a great variety of hot difhes, was ferved up on filver, at which no perfon was prefent but Don Ambrofio the Prefident, Don Ramon de Rofas and ourfelves; all fort of ceremony was now laid afide, and agreeably to the repeated intreaties of his Excellency, we confidered and felt ourfelves as much at home as if we had been partaking a repaft in England with our moft intimate acquaintances. The firft part of our converfation was chiefly engroffed by inquiries refpecting our late difcoveries on the northweft coaft of America. In this I was very happy to learn, that no part of our conduct, or tranfactions with any of the fubjects of his Catholic Majefty, appeared to have given the leaft caufe for jealoufy, or complaint againft our little com-. munity; and I was alfo much gratified by the very handfome compliments that were paid to myfelf
myfelf and officers, on the fuccersful labours of out voyage. After the curiofty of the Prefident, and Don Ramon was fomewhat fatisfied on this: fabject; the former; with great indignation, recounted $a_{i}$ circumftance which I cannot forbear to mentions although, being a matter only of converfation, it may poffibly appear too extraneous.

At the fime when his Excellency was the governor at Conception, and during the late American, French, and Spanifh war with England, an enterprize was meditated and planned by the Eoutt of Great Britain againt that place, which wasthen the feat of government in the kingdom of Ching When Sir Edward Hughes failed with his fleet from England to the Eaft Indies, it was generady believed that he was to have acted only in defence offour eftablifinents in that quarters, but before chat adtnital had teached the firftplace of his defination in the Eathdues, the Prefident fiated to tasg that he was in poffefion of a copy of Sir Edivat ATughes's orders, which had been tranfmitted to hind at Conception fromold Spain, by which decuments he became informed, that an attack warpofed to be made by that Heet from the Eafl Indies of the Spanifl fettlements in South America, and that Conception wasthe place agannt which the enterprize would $\qquad$ frite beattempted. In confequence of this intelligenice a general alarm took place throughout
all the eftablimments on the coaft $;$ the fortifications, which had been much neglected were repaired and ftrengthened; the number of troops attached to each were gieatly augmented; and every preparation was made for the purpofe of acting vigoroully on the defenfive; and to this circumfance alone his Excellency attributed the abandoning of the defign, that had been concerted by the Britilh Cabinet.

Soon after fupper was ended; a number ofidadies made their appearance at the iron grating that protected the window of the palace, begging our acceptance of nofegayss and requefting that we would join the reft of their party. iaffeme bled at a little diftance frem the palaee ; bat as I thought it would be more tefpectfal to pay our compliments to his Exceldoney in the audience: room, which formatity was fixed for the fuce ceeding morning before we thould wift any one elfe in the citysue declined their obliging invis tation for the prefent, with a promife of acknows ledging their civility the following day.

We did not retire until an early hour, when -we found our beds tolerably good, but we could. not help being much difgufted at the infufferable uncleanlinefs of our apartments ; the floors of which, but more particularly that appointed for the teficuce of the officers, were covered-ith fith and dirt. Application was inftantly made
to the dragoons, to procure us fome brufhes or brooms in order to fweep it out, but, to our great mortification, they told us that/fuch things were not in common ufe at St. Jagd; fo that the only alleviation we could obtain was that of water to fprinkle the duft, which was fo thick in the officers' apartment, that it would rather have required a hovel than a brufh for its removal.

Every Sunday morning the Prefident has a levee, which is ufually attended by the military people, and the principal inhabitants of the city and furrounding country. For the purpofe of being formally introduced at this levec, we made ourfelves as fmart as the exhaufted ftate of our refpective wardrobes would allow, and then repaired to the audience-chamber; this room; which is fpacious, was neatly, but not extravagantly, furnifhed; the anti-chamber was large in proportion, and the entrance to each was from the ground, through large folding doors. In the anti-chamber were the portiaits of the feveral prefidents of Chili, from the firft eftablifhment of the Spanifh authority in this part of the country, to the prefent governor, whofe portrait was one of the number. The infide walls of thefe rooms were covered with glazed tiles, refembling thofe from Holland, for about eight or ten feet from the floor, which had a good effect, and was a great relief to the dead white plafter of the re- maining part up to the ceiling. At the upper end of the audience-room was a fmall ftage, raifed a few feet from the floor, upon which was placed the chair of ftate, ornamented with a canopy of red damafk, and decorated with the portraits of their Catholic Majefties, which were placed on each fide of the Prefident's chair. The levee was attended by about one hundred and twenty perfons, the greater part of whom appeared in the regimentals of the eftablifhed militia of the country; and, in fuch a well dreffed company, our thread-bare unfforms fuffered much by comparifon. I had, however, taken the precaution to apologize to his Excellency for the reduced ftate of our apparel, and he did not fail, on introducing us to his friends, to enumerate the hardfhips we had undergone, to ftate the length of time we had been abrent fronitherivilizea world, and to conclude, on every occufion, with fome panegyric on the laborious undertaling in which we had been fo long engaged. This very polite and friendly attention foon relieved us from any cmbarraffment which, at firf; it was natural we fhould feel in being thus unexpect: edly thrown into a circle of gentlemen, who made a very fplendid appearance, and who feemed to have great pride in conforming to the faffion of the day, and the etiquette of court parade. From all the gentlemen, to whom we were made known,
known, we received the moft flattering congratulations on our arrival at St. Jago, accompanied by very friendly invitations to their houfes; and every one appeared to be anxious to make our time pars as pleafantly as the circumftances of the place would permit. The fpecimen we had already received from our very hefpitable friends at Valparaifo, left us no room to doubt the fincerity of thefe ftrangers, whofe kind folicitude to gratify our inclinations on every trivial occafion, was infinitely greater than could reafonably have been expected. After we had feverally paid our compliments to the Prefident, the levee broke up, and we followed the reft of the party, accompanied by Don Ramon and Captain Caffada, to the levee of the Bifhop of Chili, which always commences on the conclufion of the Prefident's. Here we were again received with the fame politenefs and affability which had marked our reception at Don Ambrofio's. The Binhpp , is addreffed by the title of Illeffrifoma, and the palace in which he conftantly refides, in point of magnificence and how, exceeded, in a great degree, every houfe in. St. Jago, not excepting the Prefident's, to whom the Bifhop is the next perfon in rank and confequence. The rooms here were not fo large as thofe of the royal palace, but they were fufficiently capacious and well proporioned; the walls were hung with yellow
filk, feftooned at the top, the furniture was rather gaudy than elegant, yet every object befpoke the richnefs and exalted ftation of the illuftrious owner. The Bifhop was dreffed in a loofe clerical garment of purple filk, buttoned clofe, with a fort of apron that extended round his waift, and reached below his knees. This part of his drefs, I- was given to underftand, is commonly worn in Spain by the dignitaries of the church.

The fame perfons who had attended the leveé of his Excellency, repaired with us to the palace of the Bifhop; but their deportment here, in point of refpect, far exceeded that which had been Chewn to the-Prefident. Many priefts attended the levee, one of whom always conducted to the Bifhop the perfon who was to be introduced, who fren fufficiently near, bent one knee, and received in that fubmiffive attitude the benediction of the church. On this occafion, the Bifhop with one hand made the figure of a crofs over the head of the perfon introduced, whilft he prefented a ring which he wore on a finger of the other, to receive aneadditional homage, paid by touching it with the lips, as in the act of kiffing. This ceremony was, not reftricted to a few, for we did not perceive any one in the group that did not go through it; and, as I had made it a conftant rule to conform, on all occafions; to the innocent manners and cuf-
toms of whatever country we might chance to vifit, I fhould not have hefitated to perform the like ceremony on our introduction, had the ftighteft hint been given, either by Don Ramon or Captain Caffada, that it would be expected from us; but, as their filence lefe us completely to our own feelings, we each of us fimply made our bow, which appeared to be as well accepted, and to receive as gracious a benediction, as if we had adopted the other cuftomary formality.

The Bifhop made many very pertinent inquiries refpecting the countries we had vifited, and feemed to have great pleafure in the little information we were able to afford him; for at this time, we had not an interpreter with us, who fo perfectly comprehended what we defcribed in Englifh as to make a faithful tranflation of it to the Prelate; and I do not recollect that I ever felt more real regret, than on this occafion, that I did not fufficiently underfand the Spanifh language to hold a converfation with this apparently intelligent gentleman, who was pleafed to embrace every opportunity of beftowing fome encomium on our late refearches, and to offer his congratulations on our having fo happily concluded them.

From the Bifhop's palace we were conducted, by our friends, to the houfes of the judges and great officers of ftate, in all of which we experienced the fame cordiality and friendlinefs, and received reccived the fame preffing intreaties to vifit their families as had uniformly been offered by every perfon with whom wén had become acquainted fince our firft arrival in this hofpitable country. About two o'clock we returned to the palace, where we found the Prefident waiting our arrival for dinner, which was ferved up on a plain deal ill conftructed table, by no means correfponding with the magnificence of the dinner fervice, which, was entirely compofed of filver. The company confifted of the Prefident, Don Ramon de Rofas, Captain Caffada, and ourfelves; and the converfation turned chiefly on the late labours of our furvey, and the difcoveries we had made on the coaft of North-Weft America, which were repeatedly honoured with the moft flattering commendations from the Captain General, who appeared to be extremely interefted in the events which we related.

After drinking coffee, which is always brought in as foon as the cloth is removed, every one retired to his private apartment, a cuftom which fo generally prevails in this kingdom, that, between the hours of three in the afternoon and fix in the evening, no perfon is feen in the ftreets, the hops are hut up, and the fame ftillnefs prevails as if it were actually night. Accuftomed as we had hitherto been to a life of conftant anxiety, and to be fatisfied with little reft,
we were at firft greatly at a lofs to difcover how ${ }^{*}$. we fhould employ the hours which were thus dedicated to fleep by the fociety in which we were now living; but the exercife of the morning, the heat of the weather, the want of occupation, and the natural inclination to fleep after a hearty meal, foon reconciled us to the practice of the country; and we all indulged in ajpefta, (or afternoon's nap.) and enjoyed it I believe full as much as the moft voluptuous Spaniard in the capital.

Accompanied by our new friends, we were introduced in the evening to the family of $\mathrm{Sen}^{\text {r }}$ Cotappas, a Spanifh merchant of confiderable eminence. A defcription of this gentleman's manfion will ferve to convey an idea of the manner in which all the houfes in the city of St. Jago are built. This, like moft of the principal habitations, formed a quadrangle, inclofing an open area, or court-yard, of about thirty yards fquare, one fide of which is a dead wall that runs parallel to the ftreet; and, as none of the houfes are more than one ftory in height, this wall totally obfcures every appearance of the buildings within. The entrance into the fore-court from the ftreet, was through a gateway in this wall, to which the houfe fronted; occupying the oppofite fide, whilft the wings, or two remaining fides
of the fquare to the right and left, were; as is moit commonly the cafe, divided into offices for fervants, and fleeping apartments. Sen Cotappas's houfe confifted of an anti-chamber, a large kind of dining-parlour, and bed-chamber. All the rooms were very fpacious, the principal one meafured about fixty feet in length, twenty-five feet in breadth, and I hould think the height of it was about equal to the breadth. This room was fuperbly, or rather finely, furnimed; from the ceiling were fufpended two glafs luftres, or chandeliers; and on the walls were fome paintings, the fubjects of which were taken from the facred writings; at each end of the room were large folding doors. The company we here met were divided intg two parties; the ladies were feated on curhions on one fide of the room, and the gentlemen were fitting oppofite to them on chairs, amongft whom we were inftantly furnifhed with feats. The entertainments of the evening confifted in a concert and ball, in both of which the ladies had the principal hare, and feemed to take great pleafure in excelling in both the accomplifhments of mufic and dancing. The whole of the concert was performed by the ladies; one led the band on the piano-forte, whilft the others filled up the accompaniments on violins, flutes, and the harp; the whole was ex-
tremely well conducted, and afforded us a mufical treat, to which we had been long intire ftrangers.
We fhould have been extremely happy to have aviled ourfelves of the preffing intreaties of Senr Cotappas to join with the ladies in dancing, but as their country dances appeared to be very difficult, and as no one amongft us could recollect the figures of any of thofe we had been accuftomed to in England, we were under the mortification of acknowledging our ignorance, and declining the intended civility of the mafter of the houfe. From this difappintment in the pleafures of the evening we were, however, in fome meafure relieved, by fome of the ladies, who had retired from the dance, fending us a meffage, requefting we would join their party on the cufhions; with this we inftantly complied, and confidered ourfelves greatly indebted for this mark of condefcenfion, as it was departing from the eftablifhed rules of their fociety on fuch occafions. The generality of the ladies in St. Jago are not wanting in perfonal charms, and moft of thofe we had the pleafure of meeting this erening might rather be confidered handfome than otherways; they are, in general, brunettes; with exprefive black eyes, and regular features; but a want of that neatnefs, which is fo much valued amongft Engliftanen, and fo much the pride of Vor. VI.
my fair countrywomen, was confpicuous in many particulars, efpecially in the total neglect of their teeth, which are füfered to become intolerably dirty. This inattention was not only in a very high degree offenfive, but it appeared to us incompatible with the pains that feemed to have been taken in the decoration of their perfons; for, at this affembly, they were all fuperbly dreffed, agreeably to the faihion of the country. The moft fingular part of their drefs was a fort of bell-hooped petticoat, that reached from the waift to juft below the knees, though fome of them did not wear them quite fo low ; immediately beneath this external part of their drefs appeared the under linen garment, the bottom of which, as well as the taffels of their garters, was fringed with gold lace.

The general deportment of the ladies was lively and unreferved; and they very obligingly loft no opportunity of relieving us from every little embarraffment, to which the difadvantages we laboured under, in not underftanding their language, frequently expofed us; and I verily believe that there were few occafions, during the whole of our voyage, in which our want of knowledge of the Spanifh language was more fincerely regretted $;$ as it deprived us of the pleafure of enjoying the lively fallies of wit which we had reafon to believe occurred very often in the female
female circles, by the laughter and applaufe that their converfation fo frequently occafioned. This was certainly an evidence of their natural ingenuity, though it did not amount to a proof of their minds having been duly cultivated; and it is not without concern that I ftate, from the teftimony of their $\sigma$ wn countrymen, that the education of the female part of the fociety in St. Jago is fo fcandaloully neglected, as to confine the knowledge of reading and writing to a few of the ladies only. Some of them had the goodnefs to give us their names in writing, that we might the more eafily difcover and learn the true pronunciation of them; thefe were always written in large letters; but I do notmean from this. circumftance, or from our having received but few of their names, to infer, that the edueation of the fex is as much confined as was reprefented to us; yet the circumftance of their being totally unacquainted with any other language than the dialect of the Spanih fpoken at St. Jago, evinced that their education had been very little attended to.

Excepting the inftances which are unhappily to be found amongft the fex in England, the female part of the fociety poffefs a characteriftic delicacy of fentiment and expreffion; but here fuch a degree of levity is obfervable in the conduct of the ladies, not only in their converfation, but in dancing and on other occafions, as to give a ftranger, and particularly an Englifhman, no reafon to entertain a very exalted opinion of their virtue, but rather to imprefs him with notions prejudicial to the female character. I muft, however, in juftice to all thofe ladies with whom I had the honour of being acquainted, and they were very many, beg leave to ftate, that I difcovered nothing that could impeach the fidelity of the married women, nor attaint the character of the fingle ladies; notwithftanding that the manners and cuftoms of the country in which they live fanction a freedom of feeech, and a familiarity of behaviour, that tended, in our opinion, to abridge the fex of a portion of that refpect from the men, of which, as Englifimen, we did not like to fee them deprived. To them we were indebted for the moft civil and obliging attention that can be imagined during our refidence in the capital; their doors were always open to receive us; their houfes were in a manner cur homes; their entertainments were formed for the fole purpofe of affording us amufe:nent; and no endeavour was omitted that could, in any way, contribute to the pleafure we receiyed in mixing with their fociety. Nor were we lefs indebted to all thofe gentlemen to whom we became known, who exercifed the utmoft of their powers to render our ftay at St . Jago agreeable, by thewing us every thing worthy of our notice, ${ }_{2}$ and by communicating every in-
formation
formation that was either ufeful or entertaining. We were under particular obligations to Don Ramon de Rofas and Captain Caffada, for their unremitted attention, and goodnefs in introducing us to all the refpectable families refiding in St. Jago.

The time that we remainedin the capital of Chili, paffed nearly in the fame manner as I have already defcribed, without the occurrence of any incidents to require a particular relation; for this reafon I fhall pafs over the feveral pleafant engagements we had in the different families during our refidence in this hofpitable place, and proceed to give fome account of the public buildings in the city, and to detail fuch other information as we were enabled to collect, and which, probably, may not be unacceptable to my. readers. In doing this, however, I thall not pledge myfelf for the authenticity of the facts, nor the precifion of the circumftances I am about to relate, becaufe I was not fufficiently acquainted with the Spanifh language to put the queftions. that 1 wilhed to have refolved in a proper way myfelf, nor to acquire the information I fought for, in fo correct a manner as is defirable in inquiries of this nature : in addition to this difadvantage, I found it almoft impoffible, on a variety of occafions, to make our interpreters tranflate our queftions on fubjects on which they U 3
were were not converfant, fo as to obtain; trom thofe who were able to reply to them, fatisfactory anfwers.

The city of St. Jago, including the detached houfes, or fuburbs, I fhould fuppofe, cannot be lefs than three or four miles in circumference; but this is only by eftimation, as I did not converfe with any one who could, or did, anfwer me this queftion; but as the ftreets run at right angles to each other, and fome of them are little fhart of a mile in length, this computation cannot be very erroneous. The city is well fupplied with water from the river Mapocho, which has its fource in the mountains, at fome diftance from the capital, and is made to branch offin fuch a manncr, on its approaching the town, as to pals through the principal ftreets. This, in a hot climate, cannot but be fuppofed a very great luxury, and as conducing extremely to the health of the inhabitants; but the fame want of cleanlinefs that pervades the infides of the houfes, here manifefted itfelf in the open air, and inftead of this ffream bécoming the means by which the ftreets might have been kept conftantly fweet, it is rendered a moft infufferable nuifance, by the prodigious quantity of filth which is emptied into it from the houfes. As no care was taken that a fufficiency of water thould be brought down to carry the foil and naftinefs away nor to fe-
mové it in places where it formed obftructions to the current, and produced the moft offenfive exhalations; and as the ftreets, which are narrow, are partially. paved with fmall ftones in the middle, and with only a few flag-ftones for foot parfengers on the fides, our walking about the town was, from thefe circumftances, rendered very unpleafant.

The river before mentioned, from whence the city is fupplied with water, oferflowed its banks, in the month of June, 1783, in confequence of an inundation, and rufheddown towards St. Jago; with fuch impetuous fury, that it demolifhed almoft all the dams that defended the country, did confiderable damage in the town, and filled every individual with fear and confternation left a fecond inundation fhould fucceed; in which cafe, from the extremely defencelefs ftate in which thefe torrents had left the city, there was great reafon to apprehend that not a fingle edifice would be left ftanding in the capital. The prefent Captain-General gave immediate orders that plans fhould be made by the moft able and experienced engineers and architects, for the purpofe of replacing a wall, or dam, that had principally defended the city from the river, and which had been deftroyed, at this time, by the inundating force of its waters; but, notwithftanding that the defign he had in view was for

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dious fairs are judicioufly placed to ascend the wall, from whence a commanding view is obtaine of St. Jago and the adjacent country. The whole is built with brick and lime-mortar, and, on the firft fore being laid, an obelisk, in mication of that in St. Peter's fquare, and many others in Rome, was erected, on the pedeftal of which is the following infcription, in Spanifh:
> D. O. M.

> In the reign of Charles the Fourth : and During the Government of this Kingdom, by

Don Ambrofio Higgins
de
Vallenar;
Who ordered
There dams to be conftructed in the year 1792.

There were two very fumptuous fabrics erecting in St. Jago, which, when finifhed, as I was informed by the Prefident, would be unequalled in New Spain; the one is the Caff de Moneda, or the money-houfe, and the other is the cathedral.

At the diftance of about five quadrat* to the fouthward of the principal fquare, is erecting, by

[^4] order of his Catholic Majefty, the Money-Houfe, or Mint. The fituation is open, healthy, and well chofen for this extenfive and fpacious building, which appeared to be conftructing upon the plan of the public offices contained within Somer-fet-Houfe in London, though the ftructure is by no means equal to that edifice, either in fize or magnificence. It is intended for the refidence of all the offiers and people belonging to the Mint. The apartments for the former are large and commodious, and the rooms for the latter are very convenient. To thefe are added a fort of hofpital for the fick, and a chapel for divine fervice. Large places are to be fitted up for the reception of the materials and imptements ufed in affaying the precious metats, and feparating them from the cre. The walls are built with large bricks, and the cement, or mortar, is from lime procured by the calcination of fhells. Part of the infide was plaftered with a moft delicate white fubftance, that had the appearance of being very durable. Moft of the iron-work ufed in the building, and fuch as is neceffary for the implements, \&c. ufed in the bufinefs of coining, is imported from Old Spain. Patterns for the balconies, bahufters, and rails, have been tranfmitted from St. Jago to Bifcay, which have been fent back in iron, moft perfectly and fatisfactorily executed. All the wood made ufe of in this fabric
bric is oak, excepting for the doors and windows, which are made of cyprefs. The principal front is to the north, and is about one hundred and fifty yards" in length. Befides the door, or grand entrance, which is adorned with eight columns, there are eighteen inferior windows, and eighteen fuperior balconies. The two other fronts look to the eaft and to the weft, and are each of them one hundred and feventy-eight yards in length; thefe are decorated in the fame manner as the principal front, with pillars and balconies, between which are various efcutcheons, with devices alluding to the purpofe for which the building is erected. The court-yard is forty-five yards fquare, the whole adorned with columns, architrave, frize and cornice, which extend round the court at fome little diftance from the building. The principal entrance leads into a fpacious faloon; on the right are the apartments deftined for the fuperintendent, and on the left are to be thofe of the auditor; befide thefe, in the other two fronts, are the public offices, the hall for drawing bills, the office for weighing gold and filver, the treafury, auditory, chapel, hofpital, \&c. \&c. After paffing through the court-yard towards the fmelting-offices, we entered a paffage, fourteen yards wide, which led round all the workfhops and offices of labour: the whole of the edifice is of the Doric order, and the diftribution
diftribution of the offices and apartments appeared to have been well conffdered and judicioufly appropriated. The communications were likewife commodious, and well concerted to facilitate the bufinefs between one office and another, and the whole together was a ftructure well deferving our attention.

The architect is profeffor Don Joa. Joefca, difciple of the lieutenant-general Don Francifco Savatini, firft architect to his Catholic Majefty. Don Joefca undertook to finifh and complete this building for feven hundred thoufand dollars, and the Captain-General, impreffed with a juft idea of the ufe and importance of fuch an eftab: lifhment, was induced to give his confent to the undertaking, as the calculation of the expence bore, in his eftimation, no proportion to the advantages it would afterwards infure, or the convenience it would afford. The architect, however, feems to have been greatly miftaken in the money which he ftated the building would coft, as the Prefident affured me, he was clearly of opinion, that it would require a million and an half of dollars to be expended on the edifice before it could be completely finifhed.

There is a fmall hill, about twelve quadras diftant from the principal fquare, in the grounds. belonging to the religious of the Dominican order, which is called St. Domingo. This hill contains.
contains a quarry of freeftone, of a whitifh cotour, roft, and eafily worked by the chiffel. The vicinity of this hill to the city, and the facility with which the fones were to be procured from the quarry, induced the Bilhop Don Juan Gonzales de Melgarego to begin the laborious undertaking of builaing a cathedral; for which purpofe he gave forty-three thoufand dollars towards its erection, and laid the firft fone of the edifice on the firft day of July, 17.48. At this time there was not an artift in the kingdom of Chili to whofe ability a work of this deffription could be entrufted, for which reafon no particular plan was adhered to, and the architecture feems to be a medley of whatever occurred to the perfons who fuperintended its conftruction. The principal front is to the eaft; that fide which communicates with the cpifcopal palace is to the fouth, and the north front runs parallel to the ftrect. The length of the building is about one hundred and twenty yards, its breadth is not lefs than thirty-five, and the height of the middle aifle is eighteen yards.

It was not until after thirty years were expired, that application was made to Madrid for a fkilful profeffional perfon to fuperintend the completion of this edifice. In the year $1 / 775$, Don Joefca, the architect employed in building the moneytoure, was appointed to this office, and, fortunately, nately, at this time, the principal front was not begun. The plans he drew were fubmitted to the then prelate, Don Manuel de Alday; and, on the firt day of March, in the year 1780, this artift took upon himfelf the charge of the building, which, at this time, wanted only fire arches to reach the line of the principal front; the elevation of which, I was given to underftand, is a clofe imitation of St: John de Lateran, and according to the defigns of the famous Barromini, There are three doors in this fide, embellifhed with columns of the Ionic order; within is a: handfome ftaircafe, that leads to light and elegant towers, which add greatly to the beautiful ap: pearance of this front. The eathedral contains ten altars, and, though they appeared to have been conftructed without regard to any rule of proportion, yet they are well worthy of attention. The columns and pilafters of each are an excellent imitation of jafper; thefe are green, the pedeftals are red, the cornices yellow, the bafes and capitals aregilt, and the whole together produces a very good effect. The colour of the ftone, with which this edifice is built, refembles that of the Portland ftone of England; but whether it is of the fame durability, or not; time only will determine. The workmanhip of the mafon appeared to us to be ill executed, as few of the edges of the ftones were fo neatly wrought
as to fit with exactnefs. Spires and other church ornaments, we were given to underftand, were intended to be erected, but the time when the building would be finifhed was not afcertained; the priefts, however, faid mafs in one part of it, which was fufficiently completed for that purpofe.
A very large church is alfo conftructing, under the direction of the fame architect; this ftructure is built with bricks, its front is of the Doric order, with two large towers, in which confiderable knowledge of beauty and proportion feems to have beeen difplayed. The infide of this church is of the Ionic order, it contains three aifles and feven chapels.:

The gaols of the city having fallen into decay fome years ago, and becoming infecure for the confinement of prifoners, a large building, of the Tufcan order, was erected, and appropriated to this purpofe. This ftructure has rather a magnificent appearance and the-diftribution of the cells and apartments it contains feems to have been made with confiderable judgment. The centre of the building is occupied by a grand tower, in which is the city clock; and the bell, which ftrikes the retreat at nine o'clock; after which, it becomes the duty of the watchmen to fecure all perfons of -fufpicious appearance, or fuch as are found in the ftreets with unlawful weapons.

Befide thefe public buildings, about half a quadra from the principal fquare is a houfe belonging to Sen' Don Jofe Ramirez de Saldana; perpetual regidor of St. Jago, and one of its moft opulent citizens. The porch, which is in the centre of the principal front of this manfion, is decorated with Doric columns, and many pillars of the fame order are with confiderable taite arranged on each fide of it. This building is puted to be the only one in the city in which the rules of architecture have been ftrictly obferved; and, on that account, it is highly efteemed by thofe of the inhabitants who have any knowledge of the art, or tafte for regular compofitions:

A very good houfe was erecting about fix quadras from the fquare before mentioned, after a defign of Inigo Jones, as a country refidence for Sen ${ }^{\text {r }}$ Don Jofe Antonio Aldunate, the Provifor General of this bifhoprick, who is juftly extolled for his polifhed manners and literary abilities.

At the diftance of fourteen quadras from the fame fquare a chapel was building; at the expence of the friars belonging to the order of St . Francifco. The Doric prevails in the external compofition of this edifice, but within the pillars are of the Corinthian order. It contains ten diftinct chapels, is dedicated to our Lady of Carmin, and is called the Little Convent.

Having given fome account of the moft confpicuous
fpicunus public and other buildings, that were either finifhed or erecting, in St. Jago, I fhall now proceed to ftate fuch information refpecting the population and commerce of this city as I was enabled to procure.

St. Jago, the capital of Clili, is fated to have been founded on the 12 th of February, 1541 . This city is the refidence of the Prefident, who is Captain-General of the whole kingdom ${ }_{x}$ and Governor and prefiding Judge of the audience chamber, or court of juftice, It is faid to contain thirty thoufand five hundred inhabitants; and, if my eftimation of its extent be not yery incorrect, it muft be conifidered as populous. The fubordinate cities in this great kingdom are, Coquimbo, Chillan, Conception, and Valdivia; and the principal towns are Valpasraifo, Capiapo, Vallenar, S. Francifco de Borja, St. Raphael de la Rofaz La Ligua, Quillota, Los Andes, Melipilla, St. Jofeph, Anconcagua, St. Ferdinand, Curico, Talca; Linares, Nueva, Bilboa, Caugeres, and others of lefs importance.

The kingdom of Chili is ftated to extend, in a northern and fouthern direction, from the uninhabited parts of Atacama, which divìides it ffom the vice-royalty of Peru, to the ftraits of MagelIan; and, in a weftern and eaftern direction, from the ocean to the foot of the Cordilleras, whick divides it from the vice-royalty of Buenos $\therefore$ Vos. VI. X Ayres;

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Ayres; but I cannot help being of opinion, that the kingdom of Chili does not extend further fouth than the fouthern extremity of the ifles de Chiloe, as I hould confider the American coaft, to the fouthward of thofe iflands, to be that of Patagonia. It is divided into two bihopricks, or provinces, St. Jago and Conception, each of which are under the immediate care and direction of an Intendañt; Brigadier Don Francifco La Mata Linares has the chatge of the latter; and the further title of Chief Intendant of the province of St. Jago is added to the reft of the pofts of honour and places of emolument enjoyed by the prefent Captain-General Don Ambrofio Higgins deVallenar's the value of whofe appointments amounty annuatly, to thirty thoufand dollars, whilft thofe of Don La Matalinares do not exceed ten thour fand dollars. Thefe provinces are each fubdits vided into fmall diftricts, which originally werk known by the name of Corregimientos, but are now called Subdelegaciones.

There is about a million of fpecie coined at St. Jago every year, which is the fand from whence the falaries of the ftate officers; the military eftablifhment, and other incidental experces of the government, are defrayed. The army confifts of a battalion of infantry in Conception; two fquadrons of horfe, one company of dragoons, and two of artillery: The cavalry
of this country are all well mounted, and extremely expert horfemen; and were they as fkilful in the ufe of fire-arms as they are in the management of the fword and the lance, they would not be inferior to any troops of this defcription inEurope. I was igiven to underftand, that in cafe of an attack upon Vralpataifo, the principal feaport of the kingdom; an afmy:of eight thoufand men, confifting of cavalry and militia, could there be affembled for its defence in twenty-fours hours.

The country, to the fouthward of the river Biobio, in the province of Conception, is inhabited by a nation of very fierce Indians, who formerly committed great?depredations on the frontiers under the Spanifh authority, and lived in a continual ftate of hoftility with their civilized neighbours; but, in confequence of the humane, judicious; and political arrangements-which have been made; from time to time; by Don Ambrofio Higgins, the number of the turbulent fpirits has been muchereduced, and the natives now ceale to be regarded with any apprehenfion by the Spaniards. In the diftrict which they occupy, il was given to underfand, there were ten thoufand warriors, a crobuit and hardy race of men; but fo far had the wife adminiftration of the prefent Captain-General fucceeded, in fubduing the natural ferocity of the fe Indians, and in bringing them over to fupport the authority X 2

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## A Votage or discotery

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and interefts of the crown of Spain ; that Dons. Ambrofio did not entertain the leaft doubt of their coooperating ysith the forces of His Catholic Majefty, hould it be neceffary to call them forth againft the invafion of a forcign enemy.

Independently of the warfare which thefe people tiad, for many years, carried on againit the Spaniards, they were fubject to continual infurrections and internal commotions amongft themfelves During the time that Don Ambrofio had the chief military command on this frontier; he fiappily fucceeded in terminating the feuds which had folong prevailed amongt the feverat tribes compofing this great nation, and had introduced amongt the ferocious inhabitants of this country, a spirit of induftrys and a defire to excel each other in the cultivation of the ground, the breeding of cattle, and other peaceful arts; but upon his being prometed to the elevated fituation which be now fills, with fo much honigr to himfelf, and benefit to the country, he was under the neceflity of leaving the guardianhip of thefe children of nature, and of repairing to the capital. Soon after his departure from the frontiers, frefh animofities, and new caufes for jealoufy, arofe amongt the different tribes, which ended in a war, that was furiounly carried on by all parties. Their peaceful and domeftic occupations no longer engaged their attention,
attention, and their agriculture and breeding of cattle, which had become the fources from whence they were enabled to derive many comforts, were abandoned and totally neglected. Don Ambrofio, with the fame warmth of heart and in= tereft for the happinefs and profperity of the Indians, which, during his refidence amongft them, had produced fo valuable an effect on their tempers and difpofitions, reprefented to the Court of Madrid the commotions that continued to exift amongft the Auraucan and other tribes on that frontier ; and, at the fame time, propofed fuch meafures as, in his opinion, were moft likely ta reconcile the differences, and eftablifh a permanently good underftanding between the contending chiefs of the four Butalmapus, which are the four diftricts into which this nation of In\&ans is divided.

In confequence of this reprefentation, and the meafures recommended by the Captain-General, he was directed by the Spanifh court to repair to the camp of Negrete, and there to hold a convocation, for the purpofe of hearing and redreffing. thofe grievances which were ftated by the feveral chiefs to be the caufes of all their difcontents: and, as the preliminary feeech of the Prefident ${ }_{2}$ : on this occafion, tends greatly to exhibit the natural character and general difpofition of thefe people, I have been tempted to infert a tranflaX 3 tion
tion of it from the Indian language, under the impreffion that, to thofe of my readers who may be curious in tracing the gradations of the human character, from a favage up to a civilized ftate, it may not be unacceptable.
"The fpeech of Field-Marhal Don Ambrofio Higgins de $V^{\text {allenar, Prefident, Governor, }}$ and Captain-General of the kingdom of Chili, to the Auraucan and other Indian nations, met in convocation in the camp of Negrete, on the 4th day of March, 1/93.
" Chiefs, my antient and honourable friends; full of joy and fatisfaction that I now meet upon this happy ground of Negrete, as formerly on that of Longuilmo, the great chiefs and principal leaders of the four Butalmapus, into which this valuable country is divided, that ftretches from the fouth of this great river Biobio to the outer parts of the moft fouthern continent, and from the Cordilleras to the great ocean; I falute you all with joy, and with the utmoft fincerity of my heart. I am ordered by the king, my mafter, to falute you in His Majefty's name, and to congratulate you on the felicity of this aufpicious day, which, through my mediation, on account of the love I bear you all, has reftored the ineftimable bleffings of peace to the four Butalmapus.

## 1795.]

\& With the utmoft precifion and difpatch, I have taken care to remove every obftacle that impeded the attainment of this moft welcome object. I have alfo been indefatigable in difpofing the minds of thofe to peace who were reftlefs and prone to revenge, or to take great umbrage on little occafions; and I have been unwearied in all the conferences I have had with the feveral chiefs, fince my arrival at the fort of Angels, and in this encampment, during the time that I have waited for the arrival of thofe more diftant leaders, who are now collected with the other members of this affembly. I have patiently and fully examined the complaints of fome, and heard the excufes of others, on the diftreffing fubject of your diffentions, your animofities, and your wars, fo that nothing now remains for me to learn of all their direful caufes. To-day, however, the fun fhines bright, and I fee, with heart-felt joy, that on my once again drawing nigh unto you, a friendly difpofition appears in all, to terminate the unhappy differences which long, too long, have fubfifted amongft you; and I perceive that you are prepared, once more, to unite in thofe facred bonds of peace, in the full enjoyment of which I left you, on my feparation from you, and departure for St. Jago. I rejoice that you all wifh to bury, under the fod of this encampmènt, all your animofities, heart-burnings, difX. 4 putes,
[APRIL, putes, and differences; and may the prefent meeting be a commencement of perpetual felicity to all the children of man who refide in the countries that extend from Biobio to Chiloe.
"Recollect your fituation, O my friends, when I was appointed by His Majefty to the military command of this frontier, and deftined to fit down among you. There are many amongft you, who can remember the miferable fate in which I found the whole country; it was deftroyed on both fides the river, it was defolate and laid wafte; and all its inhabitants were fuffering the dreadful calamities of unceafing furious wars, brought on by their own intemperance and unruly paffions; many of whom were obliged to retire, with their women and children, to the mountains, and were reduced at laft to the neceffity of feeding on their faithful dogs that followed them! The great chiefs and Indians of the Butalmapus were witnefs of thefe things. Before I left you, however, (on his Majefty being. gracioully pleafed to promote me to the prefidency of the kingdom) your houfes were rebuilt, your fields fmiled with a yellow harveft, and your paftures were richly decorated with the herds of your cattle. Your women provided you with comfortable garments; the high-minded and unruly young men obeyed the voice of the chiefs; and none of thofe exceffes were practifed, which,
fince my departure, have exceeded the cruelties and profligacy of your antient barbarifm; to which you would probably have altogether returned, had it not been for the zeal of your Commander General; who reported your proceedings to me, and happily fufpended, until I fhould be fent amongft you, the fatal effects of your difcords.
"I do not, however, wifh to fupprefs the merit to which you have a juft claim, or to conceal, that, in the midit of all thefe difturbances, you rigoroully obferved the promifes you made me in Longuilmo. The Spanifh fettlements, fituated on the fouthern fide of this great river, have been, by you, moft fcrupuloully refpected, their perfons have been held facred, their cattle have not been difturbed, and in no one circumftance have you broken the faith and goodwill which you pledged yourfelves to maintain. Of all this have I been made acquainted, from time to tinfe, by the feveral commanders on the frontier; and for this honourable part of your conduct I give you all due thanks. What I then promifed I likewife have ftrictly performed ; I have recommended the four Butalmapus to the protection of the king; I have fupplicated him to continue to them his paternal affiftance; and His Majefty, with that greatnefs of foul, and
piety of heart, which fo eminently diftinguifh his royal character, has been pleafed to order, that you fhall be fupported and protected fo long as you may deferve the bleffings of his favor, by adhering to the good, feparating yourfelives from the bad, and evincing, by the general tenor of your conduct, your fubordination and obedience."

The humanity, good fenfe, patience, and perfeverance, of the Captain General, very confpicuoully appear upon this occafion; and it is not lefs pleafing to obferve, that, even amongft thefe untaught nations of the earth, their political engagements are fcrupulounly fulfilled; and that the diftreffes confequent on inteftine warfare, have not the power to make them violate their treatics, or to break thofe promifes which they folemnly pledge themfelves to perform.

The territorial poffeffions of fuch of the Indians as have fubmitted to the authority, and placed themfelves under the protection, of the Spanifh crown, have been all confirmed to them by treaty; to be ufed, cultivated; or difpofed of, agreeably to their own wifhes or determinations; and, as an incitement to their future induftry and repofe, I was informed by Don Ambrofio, that he had purchafed from them a large tract of land, which he had divided, and laid out adrantagcoufly, for the purpofes of agriculture and brecding
breeding cattle ; and had left it in their pofferfion, under the direction of proper perfons to feehis defigns carried into effect.

Whilft we were under the hofpitable roof of the Prefident, I had an opportunity of feeing a chief and fix of the Indians, who had come to the palace to pay an annual vifit of refpect to the Captain General. Thefe people were of a middling ftature, they were ftout and well made, of regular features, and not unlike the North-Weft American Indians; they were dreffed after the Spanifh fafhion of the country; but if an opinion can be correctly formed of the tribe they belong to from fo fmall a fample, they would, by no means, anfwer the expectations I had formed of their prowefs and military character. Thefe Indians were accompanied by a Spanifh gentleman, who refides amongft them in one of their villages, and is called Captain of Indians; and $\mathbf{I}$ underftood, that to each tribe an officer, of fimilar rank, is attached, who prefides over their interefts, correfponds with the Captain-General, and, on all occafions, acts as their advifer and interpreter.

The exterior commerce of the kingdom is principally carried on from the fea-ports of Conception, Coquimbo, and Valparaifo; but the latter has the greateft fhare of trade, arifing from its central fituation, and its vicinity to the capi- new line of road is completed, to twenty-two leagues. From St. Jago, to the top of the firft hill towards Valparaifo, a diftance of about fix leagues, the road is finifhed; between the foot of the hill and the city there are three bridges built with bricks over three fwampy places, which before were frequently almoft impaffable, and in many other parts, where the road is depreffed, it is paved acrofs, to give a free courfe to the rain waters, and at the fame time, to prevent any damage from their paffing over the loofe materials of which the road is compofed. This extent of road is now become the general refort of the inhabitants, either for walking, riding on horfeback or in carriages; and the valuable character who firft projected it, whenever the multiplicity of his bufinefs would allow him to take any recreation of this nature, is conftantly attended thither by a numerous company of the inhabitants, and on fuch occafions he derives a confiderable degree of fatisfaction in proving how eafily he can travel up the firft hill from St. Jago. in his coach, with the affiftance of four mules. only.

The meafured diftance between St. Jago. and Buenos Ayres I could not learn, but I underftood that
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that the poft travels from thence to the capital of Chili in twenty days; and that the country, from Buenos Ayres until jt reaches the foot of the Cordilleras, which run in a northern and fouthern direction, and pafs to the eaftward of St. Jago, is one intire defert, without trees or any other fort of vegetation; and that it is fo completely a level plain, that even a hillock does not appear on its furface.

The neareff filver mine to St. Jago is at the diftance of about feven leagues, and the neareft gold mine is to the north-eaft of the city; at the diftance of about thirty leagues.

- The xalue and importance of this rich country to Old Spain is fully exhibited in the feveral ordinances, rules and directions, which, from time to time, have been iffued to the Intendants of the provinces, and enforced by the fupreme council of the Indies, at the exprefs command of His Ca tholic Majefty: Thefe are comprehended under diftinct titles, or heads, as they have reference, or apply to, the ecclefiaftical or civil government of the kingđom. The principal obfervances are thofe refpecting the tenths and contributions for the endowment of the churches, and the fupport of the religious orders; the collection of the public revenues, the appropriation of the royal eftates, the adminiftration of juftice, the regulation
tion of the internal police, and the delegation of powers and authority in the event of foreign wars or domeftic infurrections.
I. was fo fortunate as to obtain a tranllation of moft of thefe rules by: which the archbilhops and chief officers of ftate regulate their conduct; and as it does not appear to me, that I can fhew the rigid attention which is, and has ever been, paid by the Spanifh court to the interefts of thefe wealthy eftablifhments, fo well, as by quoting fome few of the royal commands, I have extracted three for this purpofe.
"Number 150.
" By the Bull of Alexander the VIth, dated the 16 th of November, 1501, and confirmed fince by fucceffive fupreme pontiffs, the Tenths of the Indiesibelong to my royal crown, and half of a year's falary on the benefices conferred by me; with full dominion, abfolute and irrevocable, to affirt the churches with a fufficient fum annually; for the decorous maintenance of the divine law, and for a competent falary to the prefates and other minifters of the holy gofpel, who ferve at the altar. In virtue of which, the fundamental. difpofition of the ritual has been promulgated, that thefe objects may be duly fulfilled. My crown remains under the obligation of fupplying, at the expence of the reft of the sents of its patrimony, the fum deficient to which
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thefe, annually, may not amount, for the endowments and other holy purpofes; and therefore it is incumbent upon all thofe acting under my: royal authority to be watchful over, to have good difcretion in the adminiftration of the decimal productions, and to divide them amonget the parties interefted, with due exactnefs and integrity, that the holy churches, parifhes, and hof pitals, under the immediate fovereigniprotection, may not feel any injury or wrong, nor my royal exchequer be called upon for its pledged refponfibility. I therefore command, that the royal officers do affig at all the public fales and accqunts of the tenths, and that they likewife attend to the erections and repairs of the churches, and duly examine the expence of each, and that they ultimately prevent all frauds and impofitions, to the end that the participants may have their right, and that my royal eftates may not be charged with any refponibility for deficiencies. Having confidered that the new eftablifhment and fyftem of intendancies may offer doubts, on the method propofed for carrying the feveral regulations into effect; I have thought proper, conformably to the true firit of the laws already in being, to annex the following commands, for the purpofe of facilitating the new arrangement, and to infure the moft exact execution of all the matters it contans.".

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Here follow directions for the calling of meetings, and a lift of the officers commanded to attend them, with a great number of rules for fecuring to the government a due adminiftration of their feveral functions. And it will be feen, by the following extracts, that the happinefs of the people, the prefervation of good order, and the improvement of the country are objects not lefs regarded by the Spanifh monarchy, than the eftablifhment of its religious perfuafion, or profiting by the immenfe wealth which South America is capable of yielding.
"Confiding in the care and attention which has been manifefted by the Interdants of prorinces, I command that they do, by means of themfelves or fubaltern judges, gain a thorough. knowledge of the lives, inclinations, and cuftoms of the people fubject to their government; that they chaftife the lazy, and thofe of bad intentions, who, far from fupporting the good order and police of their refpective towns, caufe inquietudes and fcandal, disfigusing, with their vices and lazinefs, the good face of things, defpifing the laws, and perverting the defigns of thofe amongtt them who are virtuoufly difpofed: They are not, however, under colour or pretext of their authority, to be inquifitive, or to meddle in the life, genius, private purfuits, or domettic: concerns of individuals, nor to take cognizance
of reports or uneftablifhed accufations that cannot influence the good example of the people, nor diffurb the tranquillity of the public sovernment.
$\because$ For the due adminiftration of juftice, and the circumftances which have already been provided for by the foregoing articles, it appears, that whatever may conduce to the happinefs or profperity of my vaffals, fhould and ought to be diligently attended to and obferyed by the magiftrates and officers of police. For this elpecial purpofe, I order that the Intendants do procure, from engineers of the greateft renown and abilities, topographical maps of their refpective provinces, in which are to be diftinguifhed their boundaries, mountains, woods, rivers, lagoons and all other matters worthy of note; and to this end, the engineers fo employed are to execute their commiffions with all the promptitude, exactnefs, and punctuality of expreffion poffible; they are to become acquainted with the temperature and qualities of the feveral foils, and of the matural productions, not only of the animal and vegetable, but of the mineral, kingdoms; of the mountains, valleys, paftures, and meadows; of the rivers which are capable of being widened, made navigable, and ultimately to communicate with the ocean; the expence of fuch undertakings, and the benefits that would refult to my VoL. VI.

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fubjects
fubjects from 'carrying fuch works into effect. They are to make themfelves perfectly fatisfied in what places new channels or aqueducts might be made, which would be ufeful for the watering of the lands under cultivation, and for the pur- 0 pofe of reducing labour by the erection of mills. To report the ftate of the bridges; pointing out thofe which require repairing, and the paffes over which additional ones ought to be thrown. What roads can be amended, improved or fhortened; what protection or guards are neceffary for their fecurity. In what parts are growing timbers, ufeful for thip-buidding in the provinces, of valuable in the European arfenals; they are to certify and report upon the induftry and commerce of the diftricts; the fea-ports capable of fheltering veffels, which from their fituation and utility ought to be kept open, and fuch as are prejudicial that had better be fhiut. The Intendants will alio inform themfelves of the means of bettering the condition of my people, by augmenting their comforts, and by conferving the happinefs and profperity of my dominions. With thére objects before them, they are to take efpecial care, that, in the town or villages, within their refpective provinces, they do not allow of vagabonds without deltination, nor people without inclination to work ; but that they make the fturdy, and of competent age to manage
arms, inlift into my royal regiments engage in my marine fervice, or on board Ships of come merce; or elfe that they order fuch perfons to be omployed in the repairing or erecting fuch public works, as thall be judged moft proper, according to the circumftances of each individual's cafe: Should any fuch perfons be unfit for work, and mendicants by profeffion, they fhall be taken up, put into hofpitals, and there be employed each according to his ftrength; but if it can be proved that they are reftlefs unquiet fubjects of no re-** fponfibility, and bad character, the penalties eftablinhed by the laws of the Indies are to be inflicted, and fuch vagrants are to be ferrt to hard labour in the mines, or to the Prefidios."

Thefe ordinances are alfo the firft of a great number of regulations, which follow for the encouragement of induftry, the cultivation of the furface, and extending the mineral property of thefe kingdoms; in which is difplayed no lefs zeal and concern for the profperity and comforts of all the inhabitants, whether of Spanifh extraction or the native Indians, than for the intereft which the Spanifh crown poffeffes in fecuring to itfelf the monopoly of this valuable part of its extenfive empire. For as the kingdom of Chili cannot but be regarded as capable of producing great wealth, as well from its furface as from its inexY 2 . hauftible hauftible mineral productions, it may fairly be efteemed as one of the richeft territories belonging to his Catholic Majefty. In order, however, to promote the growth of the greateft quantity of corn and number of cattle, encouragement fhould be given to the lower orders of the people to become induftrious, and to prefer the pleafant purfuits of cultivation to that fupine and inactive way of life to which they have been fo long accuftomed; for if a fpirit of induftry were generally diffured amongit them, and due rewards held out for working the valuable metals, the prefent habits of indolence would probably be overcome; and as there docs not exift any phyfical impediment to exertion, either from climate or any local circumftance, it is not poffible to afcertain what might be the fum of the return from the productive labour of this highly favored country; when fuch labour fhould be properly directed to the feveral faurces of its latent wealth. The influence of the ecclefiaftical orders over the minds of the people, and the preference which is given by them, and the generality of the inhabitants, to an ufelefs unworthy life of lazinefs and begging, will continue to operate againt any change; and it is much to be apprehended, that nothing but a.totally new modification of their prefent fcheme of fociety, can infure to the indi-
viduals,
viduals, and to the fate under which they are protected, the advantages that a reform in their political fyftem promifes in future to beftow.

Confidering that the time we had now been abfent from the veffels had been of fufficient length to accomplifh the feveral fervices I had left to be performed, preparations were made for our return to Valparaifo; and after expreffing our moft grateful acknowledgments for the weighty obligations conferred upon us, by the unremitting attention to our prefent comforts, and anxious concern for our future welfare, which on every occafion had been exhibited by his Excellency the Prefident, and making offer of our beft thanks for the friendly, hofpitable, and polite entertainment we had received from other individaals during our ftay in the capital, we took our leave, and proceeded from St. Jago toward Valparaifo. 'The fame mode of conveyance as that to which we had before reforted, was now adopted for our journey back to the fea coart. Neither the road we had to retrace, nor the country on either fide of it, prefented any thing in the courfe of our travelling worthy of remark, that I have not fufficiently noticed on our journey to St. Jago, excepting that the road, which from the loofenefs of the materials with which it is formed, had fuffered, as I fufpected it would, very much by the defcending waters ${ }^{3}$ Y 3
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from the mountains, and in many places it was greatly injured by the rain that had fallen during our refidence at St. Jago; and it is much to be feared, unlefs fome means can be adopted for its fecurity, and to prevent the injurious effects of the defcending torrents, that this valuable defign projected by Don Ambrofio will in a great meafure be defeated.

On our: arrival at Valparaifo I found moft of our bufinefs in a ftate of forwardnefs; the mainmaft had been repaired and was got on board, but on our attempting to rig the main-yard, on Thurday the 16 th, it was found to be rotten nearly half through in the middle of it, and in this ftate intirely unfit for fervice; this was a mortification I did dot expect to have met with, and as there was no poffibility of procuring at this place a fpar of fufficient fize to replace it, the only means we had of repairing the defect was by making a temporary yard out of a fpare maintopmaft, with the addition of the yard arms of the yard which was decayed, and which.I was extremely forry to obferve were by no means in a perfectly found condition.

Although a further detention at Valparaifo was now unayoidable, yet that was not the only circumftance which produced me concern on this occafion; for this additional difafter was of fo ferious a nature, that when I came to reflect
on the difabled condition of our main-maft, and that our main-yard would be in three pieces, I was under the cruel neceffity of giving up all further thoughts of recommencing our furvey of $t$ ie coaft to the fouthward of the iflands of Chiloe, and to determine on making the beft of our way from this port round cape Horn to St. Helena. I could not, however, avoid having fome apprehenfion left our very crippled fate fhould prove infufficient to preferve the veffel amidft the boifr terous feas we had to encounter in this paffage, notwithftanding that every precaution within our power that could be devifed was reforted to, for the purpofe of making the maft and yard as fecure as poffible.

The regret I felt in being thus compelled to abandon the cxamination of this almoft unknown, yet interefting part of the coaft, is not to be der fcribed; becaufe I had anxioully hoped that Ifhould have been enabled by our re-equipment at Valparaifo, to have carried into effect the whole of the commiffion which his Majefty had been pleafed to entruft to my exccution; but under all the circumftances of both the veffels' condition, I did not confider myfelf warranted to indulge my inclinations at the hazard of his Ma'jefty's hips under my command, and at the ritk. of the lives of fo many valuable men, who had cheerfully endured the fatigues of our former furY $_{4}$ vey,
vey, and who, after fo long an abfence from their native country were intitled, in a peculiar manner, to every care and protection that were in my power, for the purpofe of infuring them a fafe return to their families and friends.

The main-yard was fent on fhore, and the carpenters were immediately employed upon it; butas I could not flatter myfelf that it would be in a ftate fit to be received again on board in lefs than eight or ten days, I employed this interval in examining the ftores and provifions with which we had been fupplied, in attending to the repairs of the veffels, vifiting the obfervatory on fhore, and making fome obfervations on the harbour and town of Valparaifo; with which, and the refult of the aftronomical and nautical obfervations made during our ftay, 1 fhall conclude this. chapter.

The caulkers were yet bufy on the decks and other parts of the Difcovery, and the rigging demanded infinitely more repair than I had fuppofed it would have required, owing to the very rotten and decayed ftate of almoft every rope on board. In thefe effential fervices the artificers were conftatitly engaged, whilft the reft of the crew ere employed in procuring a full fupply of water, and fuch a ftock of flour and other provifions as confidered would be neceffary until we fhould arrive at St. Helena.

Ships deftined to the port of Valparaifo, fhould endeavour during the fummer months to make the coaft well to the fouthward of the bay, in order that a fair wind may beinfured for entering the bay. The foutherly, winds, which in general extend from 60 to 70 leagues from the coaft, moftly prevail until the month of May; and from the middle of that month during all the months of June, July, Auguft, and September, I was given to underftand the prevailing winds were from the north. Thefe winds are commonly attended with great quantities of rain, and very foggy weather, but they do not often blow with much violence. As foon as the wind returns to the fouthward the dry feafon commences, and fo it continues with little variation during the remainder of the year. Thefe winds, however, frequently blow very ftrong, fo as to break veffels adrift, though well fecured by anchors on the fhore, near to the town of Valparaifo. Within four or five leagues of the point of Angels; which is the weftern point of the bay, is a low rocky point, near to which is a detached high barren rock; thefe points lie from each other S. 51 W. and N. 51 E. To the northward of the above low rocky point, are fome fcattered rocks, that lie about two miles from the point, and about a fourth of that difdiftance from the fhore, and to the northward of thefe

330 A VOYAGE OFDISCOTERY [APRIL, thefe rocks is a fandy bay, on the north eaft-fide of which is a houfe. In this bay I was led ta believe that anchorage might be had, though the fituation is ertainly very much expofed, The point of Angels, (off which are alfo fome rocks lying very near to it,) may be approached by failing at the diftance of half a league from the fhore, and as foon as the point is paffed the town of Valparaifo is inftantly difcovered. About feven miles to the north-eaft from this point is a clufter of rocks lying at fome diftance from the fhore, on which the fea breaks violently; but we had no opportunity of afcertaining their fituation with any degree of precifion. The bay is about four miles wide, and about a mile deep; apparently free from any fort of danger; but as it is greatly expofed to the northerly winds, the trading veffels conftantly moor with two good anchors and cables in that direction, and with other cables faft to anchors on fhore, in five or fix fathoms water, foft fandy bottom, near to the cuftom-houfe; by which means it is expected that the officers of the revenue may be enabled to prevent any contraband trade, by vigilantly attending to their duty in the day time, and by a rowing guard during the night. The depth of the water gradually increafes with the diftance from the fhore to 35 fathoms, and the bottom becomes more tenacious. In the depth of fix- ble's length diftant.

On the top of a hill, on the eart fide of the bay, is an open or barbet battery, lately erected with ftone and brick, and capable of mounting ten guns; this battery commands all that fide of the bay, the beach, and the village of Almandrel. On the fummit of another hill is a ftone redoubt, of a circular form, with eleven embrafures; thefe command the beach and rillage of Almandrel to the eaftward, the bay to the northward, and the town and harbour of Valparaifo to the northweftward. Although this fortification was in a moft neglected and ruinous condition, we were given to underftand, that the principal magazine was inclofed within its ruins. The largeft and moft confiderable fortification is in the middle of the town, within which is the refidence of the governor. It is fituated on a fmall eminence, one fide of which is open to the fea, and is feparated from it only by a very narrow pafs. The height of the lower wall, which is ftrong, and
well built with mafonry, is about fifteen feet to the embrafures; of which, there are fix that front the fea, two face the ftreet to the eaftward, and two look into the market-place to the weftward. The upper part of the hill is furrounded by another ftrong ftone wall, about ten feet in height, and half way up the hill; a third wall croffes it, which fhews three embrafures to the fea, immediately over the fort, and the governor's houre Below. At the place where this wall terminates. which is near the fummit of the eminence, the fide of the hill falls perpendicularly down into a deep gully, by which the fort is encompaffed, and which might be the means of rendering this fortification unaffailable, and a place that might long be maintained, were it not for other hills within mufket-fhot, which command every part of it. The fpace inclofed by the lower wall is about four hundred yards in length, and in fome places about one hundred in breadth; here are the barracks for the troops, and at the upper end is a building, in which a court is held, for the regulation of the police of the town. A door, in that fide of the wall which faces the marketplace, is the only entrance, and leads by a winding ftair-cafe to different parts of the fortification. There is one other fortification, about half a mile from the fort, fituated on the weft fide of the bay, at the font of a high hill, and but little ele-
vated above the level of the fea. This Thews a face of five embrafures to the eaft; and in that direction commands the weft fide of the bay:; three embrafures to the north ward are fo difpofed, as to be able to open upon any veffel the inftant the paffes round the point of Angels; whilft two others to the fouthward, command the hips ly-ing in the harbour or the bay. We computed that thefe feveral places contained about feventy pieces of cannon, many of which were without proper carriages, and fome were lying difmounted under the walls of the lower battery in the town.

From the weftern fort fome rocks extend into the bay, and the bottom is too foul for veffels of any force to anchor nearer to this fortification than about four hundred yards; but they may approach and anchor in a very eligible fituation, within about two hundred and fifty yards of the garrifon or principal fortrefs; and neither of thefe places, in their prefent fituation, would be able to refift a well directed fire even from two or three frigates.

It appeared to us to be very extraordinary, that, under the exifting circumftances of Europe, and during a war between Spain and France, the fortifications at Valparaifo fhould remain in fuch a neglected, ruitous, and defencelefs ftate, and that no meafures fhould either be reforted to; or appear to be in contemplation, for putting them into
into a more refpectable condition : efpecially as it is from this port that the kingdom of Peru principally depends for its fupply of grain; in return for which fugar, tobacco, indigo, and fpirits, are imported into Valparaifo. Tar we found not only to be a very farce but dear article, as the expence of the quantity which was neceffary for our new cables, was nearly equal to that of the workmanfhip and raw material of which they were compofed.

The houfes in Valparaifo, on account of the earthquakes which frequently happen in South America, like thofe at St: Jago, confift of the ground floor only; the walls are built with mud, and plaftered over with a preparation of lime; they are convenient, well adapted to the climate, and are in general handfomely furnifhed. In the town and in the village of Almandrel there are fix churches, within the diocefe of the archbifhop of St. Jago, but under the direction of a vicar, who refides at Valparaifo, and is amenable for his conduct to the archbifhop. The town and its neighbourhood are under the jurifdiction of the governor, who receives his appointment, with a falary of four thoufand dollars per annum, from the king of Spain; but he is neverthelefs under the immediate orders and controul of the Cap-tain-General. All civil and military caufes are heard at St. Jago. Capital offences are feldom committed;
committed; a man was found guilty on a charge of felony, and hanged about three years before our arrival, a punifhment that, we underitood; was feldom known to be inflicted.

I could not afcertain what were the revenues of the king of Spain on the exports and imports at Valparaifo, the collection of which is an important part of the governor's bufinefs: nor was I able to fatisfy myfelf as to the amount of dollars which are annually fent from this port to Old Spain, but lhad reafon to believe it was not lefs than one million and an half. The quantity of gold and filver coined into money at Mexico is prodigious; I obtained an account of the coinage there, from the 1 ft of January to the 31 ft of December, 1793 , by which it appeared that the total amount was as under :

| In gold. | In filver. | Totel. |
| :---: | :---: | :---: | :---: |
| pefos, or hard dollars, | pefog, | pefos, |
| $884,262$. | $23,428,080$. | $24,312,942$. |

This, however, was the greateft quantity of fpecie ever known in one year to have been coined in the money-houfe at Mexico.

In anfwer to a letter, which by the defire of Sen ${ }^{r}$ Don Ambrofio I had written to him, acquainting him with our fafe return to Valparaifo, he had the goodnefs to exprefs the moft ferious concern for the decayed ftate in whish I had the misfortune to find our main-yard; and in a let- by fearching amongit the traders in the port; and ftating that he had underfood from the fhip Mercury, a main-yard for the Difcovery might be procured. Although we could not on this occafion avail ourfelves of the Prefident's kind attention, yet thefe letters breathed not only fo much friendlinefs and anxiety for the prefervation of our little community, but exhibited fuch earneft folicitude for the fafe return of our expedition to Europe, left the important information we had to communicate fhould be loft to the world, that I cannot refift noticing this circumftance ás an-additional proof of the goodnefs and magnanimity of his Excellency the Prefident of Chili.

The wind, which had been generally in the fouthern quarter, blowing gently, and fubfiding into a calm towards the evening of Thurfday the 23 d , changed to the north, and was accompanied by a very heavy rain, that continued with little intermiffion all the following day, Friday the $\dot{2} 4$ th. After the rain ceafed, the weather was cloudy and unpleafant until Saturday the 25th, when the wind returned to the S.S.W. with fair and moderate weather, notwithftanding which the Chatham's fmall bower cable, in confequence of its being completely worn out, broke, which obliged Mr. Puget to warp the veffel
veffel nearer in fhore, and to moor to an anchor on the beach; after which the anchor, with the reriainder of the cable, was recovered. Ont:the Moriday following; (the 27 th) the carpenters finifhed the main yard, and it was got on board and rigged, the caulkers had nearly finifhed their bufinefs; and, as I was very anxious to take our departure, I gave orders for the obfervatory and inftruments to be received on board, and the weft fels to be made ready for proceeding to fea the firt favourable opportunity. It was not, however, until Tuefday the 5 th of May, thatiswe had fuffir cient wind to encourage us to unmoorse which was done about fix in the morning, with a light breeze of wind from the fouth; but this foon dying away, we returned nearly to the place from whence we had come: On a frefh breeze fpringing up, about hoon the next day, from the fouth and S. by W., we unmoored, and after faduting the fort with thirteen guns, (which were equally returned) and taking our leave of Goverior Alava, and the reft of our very hofpitable friends at Valparaifo, we made fail from the port, in company with the Chatham and a Spanifh brig and fchooner.

The trade of this port is carried on in thips from two hundred and fifty to feven hundred tons burthen ; in which is annualiki exported to Lima about-fifteen thoufand tons of wheat and Vol. VI.

Z
wheat-
wheat-flour, large quantities of fmall cordage, dried falt filh, and apples, pears, and peaches, in great abundance. All goods imported are landed on:a foft fandy bank lying before the cuitomhaufe, and from thence carried into the waretioufes, or removed to diftant parts of the country on the backs of mules; by which conveyance the articles for exportation are in like manner frought down to the fhore. Moft kinds of vegetables, and il great variety of fruits,' as well thofe of the northern parts of Europe, as thofe common in the tropical countries; were here procured ing great plenty, were all excellent of their kinds, and were very cheap: the water was extremely good, though the mode of obtaining it was fomewhat tedious, as we were obliged to fill our calks from pipes of a fmall bore, through which it was conducted from the refervoir in the market-place down to the water-fide. Although there was no perceptible current in the bay, the tife and fall of the tide was evidently about three feet.

## Afiroromical and Nautical Obfervations.

On the 27th of March, 1795, Kendall's chronometer, according to the laft rate, thewed the longitude to be $\quad-\quad 287^{\circ} 46^{\prime} 50^{\prime \prime}$ $\therefore$ Ampld, No. 14, $\therefore-\therefore 28733$ 35. Fre Ditto 176, - 2863050 . - 30 d The

The true longitude, as afcertained at the obfervatory, by 39 fets of lunar diftances, was $288^{\circ}: 28^{\prime \prime} 52^{\prime \prime}$.

By which it appears, that Kendall's chronometer was $42^{\prime} 2^{\prime \prime \prime}$; Arnold's No. 14, $35^{\prime} 17^{\prime \prime}$; and Arnold's No. $176,1^{\circ} 58^{\prime} 2^{\prime \prime}$ to the weftward of true longitude.

By equal altitudes, taken on the 20 th of April, 1795 , Kendall's chronometer was found to be faft of mean time at Greenwich, on that day at noon, - - $10^{\mathrm{h}} 59^{\prime} 23^{\prime \prime} 15^{\prime \prime \prime}$
And to be gaining on mean time, per day, at the rate of 2934
Arnold's No. 14, faft of mean time, at Greenwich, ditto 6151015
And to be gaining on mean time, per day, at the rate of 2510
Arnold's No. 176, faft of mean time at Greenwich, ditto $\quad 1328 \quad 3315$
And to be gaining on mean time, per day, at the rate of 5857
The latitude of the obferva-
tory, by twelve meridional
altitudes of the fun was found
to be
$33^{\circ} 1^{\prime} 30^{\prime \prime \prime}$
The variation, by two different compaffes, and by fix fets of offervations on each, $14^{\circ} 49^{\prime}$ eaftwardly:

$$
Z_{2} \quad \text { The }
$$

The vertical inclination of the magnetic needle :

Marked end North, face Eaft, $44^{\circ} .57^{\prime}$
Ditto, ditto; Weft, 44 40
Ditto,: South, face Eaft, $43 \cdot 45$
Ditto, ditto, Weft, 43 40
Mean inclination of the marine dip-
ping needle, - 4415

CHAP.

## CHAPTER VI.

Quit Valparaifo-Proceed to the Southroard-Pafs to the South of Cape Horn-Ufelefs Search for the Ifla Grande-Part Company with the ChathamArrive at St. Helena - Join the Chatham thereLeave St. Helena-Capture the Macafhar Dutch Eaft Indiaman-Proceed to the NorthwardDifcover a Number of Veffels under Convoy of his Majefy's Ship Sceptre-Join the Convoy, and: proceed with it to the Shannon-Difcovery proceeds from thence to the River Thames.-Aftro: zomical and Nautical Obfervations.

HAVING appointed with Mr.. Puget our next rendezvous to be at St. Helena, with a frefh breeze varying between S. S. W. and S. by E. we left the bay of Valparaifo, Thurfday the 7 th, and paffed the point of Angels, fteering: to the W.S. W. The weather was clear and: pleafant, yet a heavy fwell from the S. S. W. in dicated very boifterous weather in that quarter; the wind, however, continued to blow a gentle gale from the fouth-weftern quarter, with which we made confiderable progrefs. From the extremely worn-out fate of our fails, the foretop; Z 3
maft
maft ftayfail fplit, and on a furvey of our other fails and cables, we were under the neceffity of condemning a beft bower cable, a foretopfail, and maintopmaft ftayfail, which were unbent, and replaced by others that could fcarcely be confidered to be in a much more ferviceable condition.

The obferved latitude, on Saturday the 9 th, was found to be $33^{\circ} 21^{\prime}$ fouth, the longitude, by Arnold's chronometer, No. 14, $282^{\circ} 5^{\prime}$; by No. $156,282^{\circ} 36^{\prime} 30^{\prime \prime}$; by Kendall's, $282^{\circ} 6^{\prime} 45^{\prime \prime}$; and by the dead reckoning $282^{\circ} 25^{\prime}$; the variation of the compais $13^{\circ} 15^{\prime}$ eartwardly. The wind veered for a few hours to the north-weft, and blew a frefh gale, with which we directed our courfe towards the S. S. E. until it returned to its former fouth-weftern quarter, when we hould have been able to have made great progrefs to the fouthward, had we not been repeatedly under the neceffity of fhortening fail for the Chatham, which was far a-ftern. . Some petrels, and fix or eight pintados, were feen about the fhip on Tuefday the 12 th, and two days afterwards feveral large albatroffes were obferved at no great diftance. .The weather continued to be plearant until Tuefday the 19 th, when the wind changed to the north-weft, and was attended by very thick difagreeable rqually weather. Our courfe was again directed to the S.S. E.;
and it gave me concern that we were not able to avail ourfelves of this favourable wind, without rifking a feparation from the Chatham; for, notwithftanding the additional quantity of ballaft which the had taken on board at Valparaifo, the did not appear to be improved in her falling: about noon her fignal was made with a gun to make more fail. The wind increafed from the weft and north-weft, accompanied by very heavy

## 7

 fqualls of hail and rain; in the courfe of the night falfe fires were burnt, to denote our fitua: tion to our confort, and on the next forenoon, Wednefday the 20 th, her fignal was again re peated to make more fail; but as we ftill kept increafing our diftance from her, about noon $\mathbf{I}$ ordered the mainfail to be hauled up, and a reef taken in each of the topfails. At this time, in latitude $50^{\circ} 50^{\prime}$ fouth; longitude, by Amold's No. $14,280^{\circ} 33^{\prime \prime} 45^{\prime \prime}$; by No. $176,281^{\circ} 32^{\circ} \cdot 30^{\prime \prime}$; by Kendall's chronometer $280^{\circ} 25^{\circ} 30^{\prime \prime \prime}$, and by the dead reckoning $281^{\circ} 11$; the variation of the compafs was obferved to be $1 \%^{\circ}$ eaft ${ }^{-}$ wardly; and cape Noir to bear by compafs, according to the Spanifh charts, S. 42 E. diftant 100 leagues, but, by our calculations, it bore by compafs S. 46 E. and was at the diftance of 107 leagues.As we proceeded to the fouthward the weather gradually changed for the worfe, and the wind, $Z_{4}$ which, agreeable to our wihhes, nowh became turbulent, and blew at times in very heary fqualls; in one of thefe, about three oclock on Fridiay afternoon, the 22 nd, we carried away the maintopfail fheet: this obliged us to takerin the fait; on the gale increafing the foretopraili, was firled; and fuarful of any ferious accident, either to our main-yard or maft, I directed the mainfail to be taken in, and the topgallant yards and mafts to be ftruck, in order that the weak parts mightibe ftrained as little:as could bethelped; about an hour afterwards, the ftarboard bumkin was alfo carried away, and the wind at W. S. W. continued to blow with great yiolence until midnight; when it became fomewhat more moderate, and we were enabled to fet the mainfail and ftorm ftay feitr Folfe fires were burnt during the night as figuals to the Ghathame: Towards the next morning; Saturday the 23 d , after lowering the topfails, and hauling up the mainfail, in a heavy fquall of wind and hail, we wore the hip, to wait for our confort. In the afternoon, although the swind continued nearly from the fame quarter, the weather became more moderate, and we were able to get up our topgallant yards and mafts, and to make the beft of our way towards the fouth, directing our courfe as much to the eaftward as the yariation of the wind would permit.
mit. This favourable change, however, was not of long duration; for, in the afternoon of Monday the 25 th; on the wind veering to the wert and north-weft; we were obliged to clofe-reef the fore and maintopfails, and take in the mizentopfail. The gale continued to increafe with to much violence, that, by feven o'clock on Tuef day morning the 20 th, we were under the ne-: ceffity of handing our topfails, and getting the tepgallant yards and mafts down upon dcck, to: relieve the mafts, and to make the fhip as fnug as poffible. The obferved latitude at noon was $56^{\circ} \cdot 4^{\prime}$ fouth ;-by Arnold's chronometer No. $\mathbf{1 4 ,}$ the longitude appeared to be $285^{\circ} 52^{\prime} 30^{\prime \prime}$; by No. $176,-286^{\circ} .55^{\prime}$; by Kendall's, $285^{\circ}$. $32^{\prime} 15^{\prime \prime}$; and by the dead reckoning $280^{\circ} 33^{\prime}$. According to obferyations which had been procured in the two preceding days, it appeared, that the dead reckoning had erred thirteen miles in latitude; and twenty-five miles in longitude, the fhip having been fet fo far to the north-eaftward. The wind continued to blow very-hard, varying. between W.S.W. and W. N. W. until towards the evening, when it altered to the eaft, and E. S. E. brought with it a very heavy fall of fnow, and blew fo violently, that our weather maintopfail fheet gave way, and obliged us to take in the fail. About fix o'clock the next morning, Wednefday the 27 th, the wind again
changed to the $S . W$. and the weather became: fufficiently moderate and clear to get up the topgallant yards and mafts, and to fet our rected topfails. . Notwithftanding that at this time there was no great preffure on any part of the rigging, fo extremely rotten and decayed were our principal ropes and fails, that our ftatboard maintopfail theet broke, the gib-boom fnapped fhort off about the middle, and the wind fplit the mizentopfail. . Juft before nine o'clock in the forenoon, an ifland was feen bearing by compafs N. 15 W . which at firft we fuppofed to be Diego Ramirez; but as that is reprefented by former navigators to be a fingle illand in the latitude of $56^{\circ} 33^{\prime}$ fouth; longitude $291^{\circ} 34^{\prime}$; as the land in fight foon put on the appearance of being much broken; as we had foundings about two in the afternoon at the diftance of three leagues in the depth of eighty fathoms, in the latitude of $50^{\circ} \cdot 28^{\circ}$ fouth, longitude $291^{\circ} 23^{\prime}$; and as captain Cook had paffed between the iflands of St. Ildefonfo and Tierra del Fuego, in the latitude of $55^{\circ} 53^{\prime}$ fouth, longitude $290^{\circ} 19^{\prime \prime}$; I had every reafon to believe that we had been miftaken, and that the land we had feen at nine o'clock was St. Ildefonfo's inles, which at this time bore by compafs W.S. W. the wind was lefs boiftcrous on the fucceeding day, Thurday the 28 th, but the weather continued to be unpleafant, being very dark and gloomy,
gloomy, with frequent heavy fhowers of fnow. About eleven o'clock at night, in a fquall of hail, rain, and fnow, the maintopfail was fplit and was replaced by another, which although whole and the beft we had, was in a very unferviceable condition.

Notwithftanding the fnow continued to fall fo very heavily that no obfervation for the latitade could be procured, yet by four double altitudes of the fun taken by two perfons with different inftruments, the latitude was found to be $56^{\circ} 57^{\prime}$; the longitude carried on by the dead reckoning, and corrected by Arnold's chronometer No. 14, appeared to be $293^{\circ} 39^{\prime}$, and the variation of the compafs $23^{\circ}$ eaftwardly.

Confidering that we were now fufficiently advanced to the fouthward to avoid any inconvenience or interruption from the illands which lie off cape Horn, I determined to fhape fuch a courfe to the north-eaftward; as we proceeded in our route to St. Helena, as might afford me an opportunity of feeing and determining the fituation of the Ifla Grande, the fouthern point of which is ftated to be in latitude $45^{\circ} 30^{\prime}$, longitude $313^{\circ} 20^{\prime}$. On Friday the 30th we were again vifited by ftrong gales and heavy fqualls of wind from the weft and north-weftern points, which frequently reduced us to our courfes; as we proceeded towards the north-eaft, the latitude by an indifferent'obfervation appeared to be $55^{\circ}$ $28^{\prime}$, and the longitude at noon brought forward by Arnold's chronometer No. 14, was according to the dead reckoning $299^{\circ} 9^{\prime}$.

On Monday the 1 ft of June, about fix in the morning, I ordered the foretoprail to be taken in, for the purpofe of allowing the Chatham to come up with us, as the was at this time far: aftern. At day-light the neat morning, Tuefday the 2d, The was in fight from the main top, but not from the deck.

Our latitude on Thurfday the 4 th, by the dead reckoning fince the preceding day being $46^{\circ} 16^{\prime}$, and the longitude brought forward by Arnold's chronometer No. $14,310^{\circ} 8^{\prime}$, it was reafonable to conclude, as we had a frefh breeze from the weft and fouth-weft, that we were approaching wery rapidly towards Ifla Grande; and as I was very folicitous to examine the fpace allotted to this illand, I continued our courfe to the Horthward, that we might fall into its parallel fome leagues to the weftward of the Spot affigned to it; but in the afternoon we were agam vifited by a very furious ftorm at firft from: the N. W. but foon aterwards from the S. W. which obliged us to fteer to the eaftward, under the torefail and clofe-reefed maintopfail or the cap, in order that we might keep a-head of the fea which Ian exceffively high, and broke with great violence.
violence. Under this reduced canvas, we outfailed the Chatham fo much as to lofe fight of her. The fouth-weft gale continued to blow very hard until the morning of Friday the 5 th, when it moderated, and was attended by clear, though feverely cold weather. We now.ftood to the northward, and had the pleafure of rejoining the Chatham. At noon our obferved latitude was $45^{\circ} \cdot 30^{\prime}$, longitude $312^{\circ} 55^{\prime}$; in this fituation I efteemed it to be a very fortunate circumftance that the weather was fine, and that the horizon was remarkably clear in all directions, excepting between the N. W. and N. N. E.; fo that had any land been above our horizon within the difftance of from ten to twenty leagues, it could not poffibly have efcaped our notice. Between the limits above-mentioned, which were occupied by a haze, we could alfo have difcerned land at the diftance-of five or fix leagues, and as it was in this direction that we were fteering, we muft have fallen in with it had any land there exifted. From noon our courfe was direćted about N. by E. which by eight in the evening brought us to the latitude of $45^{\circ} 4^{\prime}$, longitude $313^{\circ} 3^{\prime}$. The weather continued to be tolerably clear until the clofe of the day, but no land was within our view, nor had we the leaft reafon, from any of the ufual indications, to fuppofe ourfelves in its vici-
nity, excepting from the numbers of birds that were about the flip.

According to Mr. Arrowfmith's comprehenfive chart, (in which the IIIa Grande is placed agreeably to the affigned fituation of it by Mr. Dalrymple,) the track of Dr. Halley is laid down about a degree to the weftward of our path, croffing the fame parallel in the longitude of about $3110.55^{\prime}$; from which circumftance it is probable, that thofe on board that veffel faw a confiderable diftance to the weftward of them. Since therefore we met with no drift wood, nor other circumftance to indicate our vicinity to lend; (and had any been near to us in a weftwardly direction, fuch indications moft likely would, from the generally prevailing winds, have been prefented to us), I was led to conclude, that if M. La Roche did difcover any illand under the parallel of $45^{\circ}$ fouth, that fuch land muft have been to the eaftward of our track. Under this perfuafion, about eight in the evening, as the weather had the appearance of being fine, and the wind moderate, I fteered a more eaftwardly courfe, with an intention, fhould the winds prove favorable, to continue about this parallet until we fhould pafs the meridian of South Georgia; from the fhores of which illand, it is with great reaion fuppofed, La Roche fteered
to the north, and in that route fell in with Illa Grande. It is therefore moft likely, that if any fuch land hasexiftence, it will be found not very far remote from the fituation affigned to it by Captain Cook; a fact I was very defirous of eftablifhing.

On: Saturday morning the 6th, although the weather was gloomy, with the wind from the north, yet it admitted of our feeing diftinctly all around us for feveral leagues; we continued to ftand to the eaftward until four in the afternoon, when in latitude $45^{\circ} 6^{\prime}$ fouth, longitude $314^{\circ} 50^{\prime}$, the atmofphere was fufficiently clear to have feen any land above our horizon at the diftance of fix or eight leagues, but nothing of the kind was within the limits of our view. The wind now veered to the N. E. and eaft, and blew a frefh gale, with which we food to the north, in the night to the S. E. and on the following morning, Sunday the 7 th, to the S. S. E. and fouth, fo that we were unable to regain the parallel of $45^{\circ}$ without employing more time than I had now to appropriate to this examination; being, from the extremely bad condition of our fails and rigging very ancious to loofe no opportunity of making the beft of our way to St. Helena; and for this reafon I gave up all further thought of fearching for Inla Grande, and continued our courfe towards the N. N. E.

This fhort inveftigation, however, will ferve to thew that no fuch ifland exifts in or about the latitude of $45^{\circ}$ fouth, between the meridians $312^{\circ}$ and $315^{\circ} 20^{\prime}$ of eaft longitude; and that; as I have already mentioned, Dr. Halley moft likely determined the fame point, namely, that there was no fuch ifland, a degree further to the weftward.

At midnight the Chatham was clore along fide of us, but by four o'clock the next morning, Monday the $8 t h$, the was nearly out of fight aftern of the Difcovery, our mainfail and top-gallant-fails were therefore taken in to wait-for her nearer approach; at day-light the was feen about three miles aftern, and having at this time a fteady frefh gale with fair weather, her fignal was made to make more fail, and repeated with a gün feveral times until about ten o'clock, when the Chatham neither making fail, nor exhibiting any reafon indicative of her wanting affiftance, I concluded that fome caufe of no very ferious nature had retarded her progrefs; and juft as we had fet our ftudding fails, I had the pleafure to fee her employed in the fame bufinefs alfo.

Shortly after noon the wind veered to the S. W. and having increafed our diftance from the Chatham very confiderably, we flortened fail to wait for her coming up, concluding that she

The would foon overtake us under our then reduced quantity of canvas. In thefe expectations however we were difappointed; at ten at night. the wind had again frefhened from the N. N. W.; we now burnt a falfe fire to denote our fituation to our confort, but this was not anfwered, and by two the next morning, Tuefday the 9 th, the wind veered to the weftward, and blew a very ftrong gale, during which, left five fhould lofe the Chatham, we hauled up the mainfail and clofe-reefed the topfails; but as at day-light the was not in fight from the maft-head, and as I did not know in what direction to fearch for her, I could not but confider the inferiority of her failing had at length completed our feparation, and in the hope that we fhould meet ail well at St. Helena, our next rendezvous, we made the beft of our way thither; by continuing our courfe to the north-eaftward. The obferved latitude at noon was $30^{\circ} 45^{\prime}$; longitude according to Arnold's chronometer No. 14, $324^{\circ} 43^{\prime}$, and the variation of the compafs $6^{\circ}$ eaftwardly. The wind continued to blow very hard at times, attended by heavy rains, and thick cloudy fqually weather, in which our fails frequently fplit, and our topfail fheets and other effential parts of the rigging gave way, until Saturday the 20 th, when it became more moderate, and in latitude $3438^{\prime}$ fouth, longitude $347^{\circ} 10^{\prime}$, brought forward by Vol. VI. A a Arnold's

Arnold's chronometer No. 14, the fhip appeared to have been fet twenty-five miles of latitude towards the north, and thirty-four miles of longitude towards the eaft of the reckoning.

About half paft five o'clock on Sunday morning the 2 rft, Richard Jones, one of the feamen, unfortunately fell overboard from the main chains and was drowned. The accident had no fooner happened than a grating was thrown overboard, and the fhip was inftantly hove to, for the purpofe of affording him every affiftance; but this was to no effect, for the poor fellow funk immediately, and was never more feer. By this melancholy event the fervice loft a very able feaman, and his comrades a good member of their fociety. On the following day at noons Monday the 22d, in latitude $32^{\circ} 3^{\prime}$ fouth, longitude $351^{\circ} 15^{\prime}$, it appeared that the fhip was nine miles of latitude to the northward, and twenty-five miles of longitude to the eaftward of our reckoning; and that the variation of the compafs by two fets of azimuths was now $11^{\circ} 20^{\prime}$ weftwardly. The eaftwardly variation feemed to have ceafed about the 16 th of June, as in latitude $35^{\circ} 43^{\prime}$ fouth, longitude $232^{\circ} 5^{\prime}$, it had decreafed to $10^{\prime}$, and fince that period the wefterly variation had been gradually increafing as we proceeded to the northward.

No circumftances of importance, or fuch as
are worthy to be recorded, took place, until about two oclock in the afternoon of Thurfday the 2d of July, when after experiencing tolerably pleafant weather for the preceding ten days, the ifland of St. Helena was difcovered bearing by compafs N. by E.; about eight in the evening we flortened fail, and hauled our wind on the ftarboard tack, as the ifland now extended by compafs from N. 3 W. to N .35 W . at the diftance of about five leagues; at day-light the next morning, Friday the 3d, we madefail forSt. Helena bay, and about fix o'clock we had the happinefs of difcovering the Chatham in the fouth-eaftern quarter. As we were now faft approaching a port from whence it was reafonable to expect that opportunities would frequently occur, during the time of our re-equipment there, to communicate with our friends in England, I deemed it expedient that the order fhould be publicly read, which I had received from the Lords of the Admiralty, directing me to demand the log books and journals which had been kept, and the charts, drawings, \&c. which had been executed by the officers, petty officers, and gentlemen on board the Difcovery; and directing alfo, that I fhould enjoin them and the whole of the crew not to divulge where they had been, until they fhould have permiffion fo to do: and a copy of this order was fent to Mr. Puget, with my diA a 2 rections
rections to enforce the fame on board the Chatham alfo.

As we approached the bay of St. Helena, I had the mortification to fee a fleet of large fhips ftanding out, and apparently bound to the northward. This fleet I confidered to be from the Eaft Indies, and that it was moft probably bound to England, under the protection of which 1 fhould have been happy to have performed the remainder of our voyage; for we were in no fituation to contend with the enemy's fhips of equal force, nor to have efcaped from thofe of fuperior weight of metal. At half paft eight s'clock we anchored in 16 fathoms water, and moored with a cable each way: In the bay of St. Helena we found the Arnifton Eaft Indiaman, and an American bring. After faluting the fort with thirteen guns, which were returned, accompanied by Mr. Puget, I paid my compliments to the governor, and underfood from him, that the fleet of dhips which we had feen depart from the ifland as we had approached it in the morning, was, as I had imagined, a fleet of Eaft Indiamen, together with feveral fail of Dutch prizes under the convoy of His Majefty's Ihip Sceptre, commanded by Captain Effington.

I was received by the governor of St: Helena with his accuftomed politenefs, and having underftood from him that hoftilities had taken place
place between the Court of London, and the United States of Holland, I fent an officer on board a Dutch Eaft Indiaman which I had perceived to be coming into the bay, and took porfeffion of her as a prize.

The great plenty of excellent refremments with which we had been fupplied during our refidence amongit our very hofpitable friends at Valparaifo, had not only eradicated every appearance of the fcurvy: before our departure from that port, but had fo completely re-eftablifhed the health of every individual on board (myfelf excepted) that although we had now been fiftyeight days at fea, during which time we had experienced much bad weather, particularly in that part of the paffage as we had approached the weftern coaft of Patagonia, and until we had paffed round cape Horn and proceeded fome diftance to the north-eaftward; and had alfo been obliged to make great exertions, and to endure great fatigue, owing to the repeated accidents. that had befallen our fails and rigging, and the additional labour at the pumps confequent on the leak in the fore part of the veffel ; I had the inexpreffible happinefs of fecing all my officers and men refurn to a Britih fettlement, after an abfence frombengland of more than four years and a quarter, perfectly well in health, and with conftitutions apparently unimpaired by the ex-
tremely laborious fervice in which they had been fo long employed, and to which without a murmur they had, at all times, and in all weather, uniformly fubmitted with great zeal and alacrity.

Notwithftanding that I had the additional fatisfaction to hear, from Mr. Puget, that the crew of the Chatham were now in a convalefcent ftate, yet I was much concerned to become acquainted that their health, as well as that of the officers, had fuffered very materially indeed in their late paffage from Valparaifo. Although, previoufly to our departure from that port, every precaution within our power had been taken to make both veffels as equal as it were poffible to the tafk which they had to perform at the then advanced feafon of the year, through fo tempertuous and inhofpitable a region; yet the fmallnefs of the Chatham had made her more liable to the influence of the bad weather than the Difcovery, and this will ferve to account for her progrefs having been fo very frequently intetrupted. . For fixteen days together Mr. Puget had been under the neceffity of keeping in the dead lights, and from the violence of her motion her decks and fides had become open and fo leaky, that his people were conftantly in a wet humid fate when they retired from the deck, on which, previoully to their making cape Horn,
five men only in a watch were able to do duty; the reft being rendered incapable of it by rheumatic complaints. Veffels of the Chatham's fize thould certainly make choice of the fummer feafon to infure a good paffage round the fouthern promontory of America; for although the prevailing winds in the winter months of May, June, and July, may expedite their voyage, yet this advantage is more than counterbalanced by the fhortnefs of the days, the feverity of the climate, and the very ftormy weather which is attendant on this time of the year ; this Mr. Puget reprefented as having had the effect of keeping the Chatham, comparatively fpeaking, almoft under water during the greater part of the paffage, in which he ftated, that nothing of impartance had occurred fince the period of our feparation, and that the reafon why our laft frgnals were not anfwered on the night of the 8 th of June, was, that the fupply of falfe fire on board the Chatham was at that time totally expended. From Mr. Puget I alfo understood, that in and about the latitude affigned to La Roche's ifla Grande, the Chatham, like the Difcovery, had been vifited by a great number of birds, which, with fome fea weed, were the only indications he had noticed of the vicinity of land.

My firft care was to take fuch precautions on aur arrival at St. Helena, as were moft likely to prove efficacious in preferving to the crews of both veffels that ineftimable bleffing, health, of which, on board the Difcovery, we were in fuch complete enjoyment. For this purpofe fome frefh provifions were procured from the ifland, and occafionally ferved to both fhip's companies, with a plentiful fupply of efculent vegetables; the convalefcents from the Chatham were fent on fhore, and fuch regulations were adopted as appeared to be, in my judgment, moft likely to infure this defirable object; which, at all times, and on all occafions, throughout the voyage, had been a confideration with me of the firft neceffity and higheft importance.

After thefe arrangements were made, the obfervatory, as ufual, was committed to the charge of Mr. Whidbey; and now that the fhip was ftationary, the carpenters were employed in fearching for the leak in the fore part of the veffel, which, at times, during our late paffage from Valparaifo, had greatly increafed our labours, by our efforts to keep the fhip free from the great quantity of water which it admitted. Notwithftanding that our main yard had, by great care and attention, brought us fafely thus far, yet, as I found it would be poffible to procure a new one at St. Helena, meafures were inftantly taken for replacing it with one, on which we could more fecurely depend; whilft other parts of the
crew were employed in the neceffary duties about the fhip, and in obtaining a full fupply of water.

According to our reckoning, this day was Monday the 6th of July, but at St. Helena we found it (agreeably to our calculations) to be only Sunday the 5 th of July: for, by our having failed round the world, in an eaftern direction, we had, fince our departure from England, gained one day; but as it was now become expedient that we fhould fubfrribe to the eftimation of time, as underftood by Europeans and the reft of the civilized world, to which we were now faft approaching, our former reckoning was abandoned, the day we had gained drepped, and after noon this day, we recommenced Sunday the 5th of July.

His Majefty's fhip the Sphinx, commanded by Captain Brifac, arrived on Tuefday, charged with difpatches from Admiral Sir George Keith Elphinftone, (now Lord Keith, to General Clarke at St. Salvador, on the coaft of Brazil, who, with his army, was waiting at that port, until he fhould receive inftructions from sir George that might enable him to co-operate with that admiral in the reduction of the cape of Good Hope. A eonvoy, I underftood, was foon expected to fall from St. Salyador, and as I had reafon to believe the chatham' rex-equipment would not take morethan a week, 1 determined
to fend her thither for the purpofe of going with the firt convoy which fhould fail from thence to England, and that I would be content to remain here unt 1 tome Britifh veffel of force fhould touch at St. Helena in her way home, or that the next convoy from the Eaft Indies fhould arrive, under the protection of which, I hould hope fafely to arrive in England in the courfe of the autumn. As the fervice which Captain Brifac had to perform required the utmoft difpatch, our boats affifted thofe of the Sphinx in recruiting her water, after which, on the following day, Tuefday the, 7 th, The immediately failed for the coaft of Brafii.

Underfanding that our field-pieces would be of ure to His Majefty's forces on the coaft of Africa, and confidering that the purpofe for which they had originally been put on board the Difcovery was now completely ferwed, and that they could not be of the leaft poffible fervice to us in performing the remainder of our voyage to England, 1 availed myfelf of the Arnitton being engaged to carry troops from St. Helena to the fquadron under Admiral Sir George Keith Elphinftone, to, confign, by that conveyance, thefour pieces of ordnance, and the remaining parts of the ammunition we had on board, to the commanding officer of the expedition deftined againft the cape of Good Hope; and, on Friday
the 10th, I was made happy on this occafion to have it alfo in my power to affift with our boats in the embarkation of the troops on board the Arnifton.

The leak was foon difcovered to be in the bows of the Difcovery, and our carpenters were immediately employed in ufing their beft endeavours to ftop and prevent any further inconvenience from it.

On Sunday morning arrived the Orpheus of London, commanded by Mr. Bowen, to whom were entrufted duplicates of thofe difpatches from Admiral Sir George Keith Elphinftone, with which Captain Brifac had failed on the 8th, with directions to the governor of St. Helena to ufe his utmoft endeavours to forward them immediately to General Clarke at St. Salvador. The Chatham at this time being nearly ready for fea, I confidered that it would be furthering his Majefty's fervice to charge Mr. Puget with the care of thefe duplicate difpatches, with which, after receiving the following order from me, he departed for the coaft of Brafil the following day, Monday the 13 th.
"Confidering it to be expedient, and for the good of His Majefty's fervice, that you fhould proceed immediately to St. Salvador, in order to carry fome difpatches from Rear Admiral the Honourable Sir George Keith Elphinftone, to Major

Major-General Clarke, commander of his Majefty's forces; deftined to act with the faid rearadmiral; $\because$ and the faid major-general having been directed to rendezvous at St. Salvador; you are hereby required and directed to proceed, without lofs of time, to the faid ports; in order to deliver the inclofed difpatches accordingly ; and, after having performed that fervice, you will communicate to the commanding officer of his Majefty's naval forces at that port, the nature of the fervice on which you have been employed, and that you have my directions, after delivering the faid difpatches, to ufe your utmoft exertions, for the purpofe of immediately proceeding to England, that you may be enabled to carry into effect fuch further orders as you have received from me.: But fhould you not meet with any naval officer, fenior to yourfelf, at that port, you will inform Major-General Cłärke, that I conceive it to be a matter of great moment, that as little detention as poffible fhould take place to retard your proceeding to England, as before expreffed. If, before your arrival at the port of St. Salvador, the faid troops and fquadron fhould have departed, you are to ufe the utmoft frecaution not to promulgate the caure which carried you thither, but having, with all expedition, completed your water,' \&ect \&ce. you are to proceed to Englaind as already:dirested : and;"proceeding round the north part of Ireland, eitherto the firft convenient port on the coaft of Scot-land or England, which you can make; fromwhence you will immediately repair to the Ad-miralty office, and there deliver the difpatcheswith which you are charged.
" But in the event of your reaching St. Salvador before General Clarke fhould have arrived, and finding no other. Britifh officer there with whom you may judge it proper to entruft the $f$ difpatches committed to your care ; you are to continue there fourteen days, and after the expis ration of that time you are to proceed as herein before directed; for which this fhall be your order. 'Dated on boărd his Majefty's floop Difcovery, in St. Helena bay, this 12th of July, 1795.

George Vancouver."
To Lieutenant Peter Puget,
commanding His Majefy's armed tender Chatham.".

Previoully to Mr. Puget's, departure from St. Helena, we were given to underfand, by Mr. Bowen, that it had been decreed, by the national affembly of France, that the Difcovery and Chatham fhould pafs the feas unmolefted by the French cruizers, notwithftanding the exifting war between the two countries. This agreeable intelligence induced me to alter the plan which I had formed of waiting at this ifland for convoy. The Eaft India fhips, under the protection of the Sceptre, had not yet been failed fo long from St. Helena, as to diveft me intirely of the hope that we might overtake them, before they fhould have reached thofe latitudes in which we fhould be likely to meet with any thing unpleafant from the enemy's ihips of force, in confequence of their commanders being unacquainted with the national decree in our favor, or in the event of any new matter having arifen between the powers at war to caufe its being revoked. Every effort was therefore now made to expedite our re-equipment; the main yard, by the affiftance of the carpenters belonging to the Arniiton, was likely to be ready in the courfe of a day or two, in which time, I had reafon to believe, our own artificers would have ftopped the leak in the fhip's bows; and as I entertained hopes that, foon after this fervice fhould be performed, the Difcovery would, in all other reffects, be fit for
fea, I determined to fail immediately, and not to wait for the uncertain arrival of any other veffel, which might afford us protection during the remainder of our voyage to England.

The fupply of vegetables which St. Helena afforded us was very ample; but fruits of all kinds were found to be extremely fcarce, owing to the want of rain. So fevere and continued had been the drought for the three preceding years, that moft of the trees, which were not indigenous to the country, had withered and fallen into decay, and amongft the exotics that had died were fix plants of the bread fruit, which had been left by Captain Bligh on his return in the Providence from the iflands in the Pacific Ocean. The lofs of thefe valuable plants was very much regretted, as they appeared to thrive, and it was hoped, would have come to perfection. The herbage had fuffered alfo in ${ }^{\prime \prime}$ the fame proportion, and, in the courfe of the period above mentioned, upwards of fixteen hundred head of cattle had died upon the ifland. The fheep were very lean and poor, and the quantity of frefh provifions that could be obtained was by ro means equal to the fupply I could have wifled to have procured.

On Tuefday the 14th I had the pleafure to behold our new main yard in fuch a ftate of forwardnefs thrat it would be ready to be got on board and rigged the following day, and I had the additional remitted attention of the refpective officers who had the fuperintendance of the feveral fervices which had become neceffary to be carried into. effect, little elfe now remained to be done than to prepare the veffel for our departure.

Much of my time, fince our arrival at St. Helena, had been employed about the concerns of the Dutch prize Macaffar, and in making the beft arrangements within my power, to fecure a fafe paffage for her to England. The Dhip was in a very bad leaky condition, and although we were able to give her fome repair, yet it was totally out of our power to refit her, and put her in a proper ftate for fo long a voyage, efpecially as there was little chance of her reaching any Britifh port before the commencement of the winter.

Having, from long experience, been convinced of the fkill and refources which Lieutenant Johnftone poffeffed, and which, on many trying occafions throughout the voyage, he had eminently difplayed, I derived great fatisfaction in committing the charge of the Macaffar to his care. For this efpecial purpofe he received my directions to quit the Chatham previoufly to her departure for St. Salvador; and in addition to the people that were to be engaged at St. Helena, to navigate the prize home, I fpared, from the crew of the Difcovery, feventeen able feamen, on whofe exertions
exertions I could with confidence rely, to carry Mr. Johnftone's orders, with promptitude, into effect. With this fupply of men on whom he could dëpend, and with the kind affurances which I received from Governor Brooke, that no affiftance in his poyer fhould be wanting in the manning and re-equipment of the prize, I entertained great hope that, under the protection of the firft convoy that flould arrive at St. Helena bound to England, little danger was to be apprehended of the Macaflar's fafe arrival, in fome port of Great Britain:

In the bay of St. Helena, on the 4th of July, the chronometers fhewed the following longitudes:

| Arnold's Nò. 14; | - | $354^{\circ}$ | $1^{\prime}$ | $35^{\prime \prime}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ditto, $176 ;$ | - | 355 | 20 | 5 |  |
| Kendall's; | - | - | 352 | 35 | 5 |
| The true longitude, |  | 354 | 11 | a |  |

By which it appeared that Arnold's chrono= meter, No. 14, was $9^{\prime} 25^{\prime \prime \prime}$, and Kendall's $1^{\circ} 35^{\prime} 25^{\prime \prime}$ to the weftward, and that Arnold's No. 176 was $1^{\circ} 9^{\prime} 5^{\prime \prime}$ to the eaftward of the true longitude : and, by altitudes taken on this day, the 14 th of July; Arnold's No. 14 was found at noon to be flow of mean time At Greenwich, $\quad=\cdots 17^{\mathrm{h}} 10^{\prime} 42^{\prime \prime} 50^{\prime \prime \prime}$ And to be gaining on meàn. time, per day, at the rate of Voc. VI. B.b 2450
Arnold's

Arnold's No. 176, flow of mean time at Greenwich, $\quad 9^{\text {h }} 18^{\prime} 29^{\prime \prime} 5 \sigma^{\prime \prime \prime}$ ? And to be gaining on mean time, per day, at the rate of 57
Kendall's flow of mean time at Greenwich , $\quad$ ? $\quad 12 \quad 15 \quad 3 \quad 20$

And to be gaining on mean time, per day, at the rate of $28 \quad 22$
On Wednefday the 15 th I had the pleafure of receiving our new main yard on board, it was immediately rigged, and the thip in every other refpect made ready to proceed to fea. After paying my refpects to the governor, and returking him my beft thanks for his hofpitality and obliging attention to the neceffities of our little community whilft at St. Helena, I left Lieutenant Johnfton on board the Macaffar, with full directions in writing, by which he would be enabled to govern himfelf in conducting the veffel, of which he was put in charge to England, and about fix o'clock on the following evening, with a light breeze of wind from the S. En we directed our courfe to the north-weftward, anxioufly looking forward to that happy hour which frould once more land us amongft: our refpective friends, from whofe fociety we had fuffered fo long and fo painful an abfence.

The weather continued to be very pleafant, and we made great progrefs to the north-weftward.

On Saturday the 25 th we croffed the equator in longitude $21^{\circ} 35^{\prime}$ weft from Greenwich, where the variation, by two fets of azimuths, was found to be $9^{\circ} 20^{\prime}$ weftwardly. 'From this time nothing occurred worthy of remark until Wednefday the 5 th of Auguft ; when one of the Cape de Verd inlands was feen, bearing by compafs N. 16 E. The weather had continued to be very pleafant, and although the winds, fince the conclufion of the preceding month, had veered from the fouth-eaftern to the weft and northweftern quarters, yet we had not been prevented from making our north-weftern courfe good, agreeably to my wifhes.

Our people, ever fince our departure from St. Helena, had been occafionally employed in mending the fails and rigging; and, on all fuitable opportunities; they had exercifed with the great guns and fmall arms; whilft the extremely pleafant weather which had attended us, had greatly contributed to our becoming well acquainted with the management of both.

About four o'clock in the afternoon of Thurfday the 20th, three veffels were difcovered to the northward, and at eight in the evening eight fail were feen from the maft-head, bearing by compafs N. 80 W. All our canvafs was immediately fpread, in the hope of our being able to overtake. them; being in great hopes that the veffels in B b 2 fight happy to avail myfelf of the protection we fhould derive by accompanying fo ftronga fleet to England. At day-light the next morning, Friday the 21 ft, five fhips only were in fight from the maft-head, but at feven in the morning nine fail of large veffels were fo clearly difcerned as to leave in my mind no doubt of their being a part of the fleet for which we had kept fuch an anxious, though hitherto unfucceffful, look out, under convoy of his Majefty's ihip Sceptre, commanded by Captain Effington. About five in the aftertoon a boat, from the General Goddard EaftIndiaman, came on board, and confirmed us in the opinion we had at firft formed, and which every hour fince had ferved to frengthen, that the fleet before us was a convoy confifting of twenty-four fail of Indiamen, under the protection of the Sceptre. Upon receiving this information, I ordered a boat to be hoifted out, and I waited upon Captain Effington, by whom I was received with that unaffected hearty welcome, and unreferved fincerity, which are known by every one who has the happinefs of his friendihip, to be the true type of his valuable character.

After putting myfelf under Captain Effington's orders, and receiving fuch inftructions as were deemed
deemed to be neceffary by him, for the regulation of his Majefty's floop under my command, now attached to the fleet which he was convoying to England; I repaired on board the Difcovery, and by fpreading an additional quantity of canvafs, we foon had the pleafure of joining company. with the Sceptre.

The fatisfaction I experienced, in the protection we had derived by overtaking and uniting our little force with fo powerful a fleet, was greatly increafed by my now underftanding from Captain Effington, that he was of opinion the agreeable tidings communicated to me at St. Helena, by Mr. Bowen, of a French decree having paffed the national affembly, in favor of the Difcovery and Cbatham, was premature, and that, in the event of our having unfortunately met with an enemy of fuperior forch to whom of neceffity we muft have yielded, we fhould have had little chance of efcaping the horrors of a French prifon, in addition to the cruel mortification of lofing to our country much of the information which had been collected during the voyage. This reffection had the effect of reconciling my mind to the flow progrefs which I was now well aware would neceffarily be attendant on the conclufive part of our paffage to England. Having been fo fortur nate hitherto, as to have loft only one man out of both weffels in confequence of difeafe, and as few by

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[auge. accidents as $I$ could reafonably have expected, when I duly confidered the length of our abfence from home, and the nature of the fervice on which we had been fo long employed; I do confers that, under the peculiar circumftances of our defencelefs fituation, I fhould have regarded it as a very painful tafk to have been compelled to the neceflity of expofing my excellent officers and valubale crew, who were now, comparatively fpeaking, almoft within reach of the welcome embraces of their neareft and deareft affections, to a conflict with an enemy, whofe fuperiority in point of force we had not originally been fitted out to meet, nor were we but in a very humble way prepared to refirt; and from whom, in point of failing, when I adverted to the fhattered condition of our mafts and rigging, I entertained no hope of our being able to efcape. I was, therefore, reoonciled to the delays unavoidable in efcorts of this nature, though they became greatly augmented by the deplorable condition of many of Captain Effington's Dutch prizes, fome of which, I undèrfood, had been with great diffculty prevented from foundering.

Although our progrefs was neceffarily much retarded, yet our fime paffed pleafantly away, by having at lerrgth regained the power of devoting it, on all fuitable occafions, to the comforts of a friendly intercourfe with our furrounding countrymen,
trymen, from the pleafures of whofe faciety we had been fo long eftranged.

Nothing very material occurred until Tuefday, 1 ftof September; when, after contending with a frefh gale from the north and north-weftern quarters, which had commenced the preceding day, and had been attended with fome heavy fqualls of wind and rain; about nine o'clock in the forenoon, in about the latitude of $46^{\circ} 12^{\circ}$ north, longitude $29^{\circ} 32^{\prime}$ weft, one of the Dutch prizes made a fignal of diftrefs: we immediately hove to, and I fent the cutter to her affiftance, but fhe was found to be almoit a wreck, and in fuch a deplorably bad condition that it was impoffible to faye her, and the was therefore abandoned, by order of Captain Effington, and fet on fire about fix o'clock in the evening. $\cdots$ After performing this fervice our cutter returned to the mip, and in the act of hoifting her on board the was by accident fove intirely to pieces.

I do not recollect that my feelings ever fuffered fo much on any occafion of a fimilar nature, as at this moment. The cutter was the boat I had conftantly ufed; in her I had travelled very many miles; in her I had repeatedly efcaped from danger; the had always brought me fafely home; and, although the was but an inanimate conveniency, to which, it may poffibly be thought, no affection could be attached, yet I felt myfelf under B b 4 fuch obligation for her fervices, that when fhe was dafhed to pieces before my eyes, an involuntary emotion fuddenly feized my breaft," and I was compelled to turn away to hide a weaknefs (for which, though my own gratitude might find an apology), $I$ fhould have thought improper to have publicly manifefted.
The wind changed on Saturday the 5 th, from the north-weft to the oppofite quarter, and blew a very hard gale, with fqualls chiefly from E. by S, about fix in the evening another of the Dutch prizes was obferved to have made the fignal of diftrefs. We were directed to give her affiftance; and the rclief we were enabled to afford her was very falutary, and had become effen? tially neceffary, as we found her in a very leaky ftate, and her crew in a very difabled fickly condition. The wind again reered to its former direction, and though it continued to be fqually and unpleafant, it had been more moderate during the two laft days; in one of thefe from the north-weft, on Tuefday morning the 8th, about feven o'clock, we fprung our maintopmaft, an accident that might have been attended with the moft ferious confequences, had, we not been in a fituation that afforded us the moft ample protection, and which I had no doubt we hould be able to maintain until we fhould arrive in fome port of Great Britain, although our quantity of canvafs
canvafs Mould hereafter be materially reduced, as we had been repeatedly obliged to Mhorten fail for the convoy. All the upper fails were taken in, the maft ftruck, and the carpenters immediately employed to remedy and provide for the difafter in the beft manner we were able; this bufinefs was completed about noon, and a top= maft with the topgallant rigging was again fet up. Notwithftanding that the weather was not yery fayourable to aftronomical purfuits, Mr. Whidbey procured fix fets, and Mr. Orchard three fets of lunar diftances, by the mean refult of which the true longitude, at noon, was found to be - - $20^{\circ} 13^{\prime \prime} 0^{\prime \prime}$ weft

By Arnold's chronometer.
Ditto, $\quad 176,194830$ weft
By Kendall's, - 20630 weft The obferved latitude 5120 Variation of the compafs, 22 wefterly.
By our courfe having judiciounly been directed far to the weftward, it was moft probable that the coaft of Ireland would be the firft land in the Britifh dominions with which we hould fall in. For thofe fhores, as the wind and other circumftances had allowed, we had been fteering for feveral days, and as our diftance from England every day and every hour decreafed, fo our happinefs became augmented in the grateful anticipation
ticipation of once more breathing our native air, once more repofing in the bofom of our country and expecting friends: Every breaft, as may be naturally imagined, was alive to fenfations of the moit pleafant nature, infeparable from the fond idea of returning home, after fo long an abfence, in an adventurous fervice to promote the general good, when unappalled by the confcioufnefs of deferved reproach. 1 n the midft of thefe agreeable reflections, hokkever, prefages of a melancholy caft would frequently obtrude upon the mind, and damp the promifed joys in contemflation. Few of us had been bleffed with any tidings from our families or friends fince our laft feparation from them; and in the courfe of fuch a lapfe of time what changes might not have taken plake, what events might not have happened to difappoint our hopes; rob us of our prefent peace; or cloud the funfhine of our future days! Thefe were confiderations of a moft painful nature, and tinged our joyful expectations with folicitude and apprehenfion!

At length, about five o'clock on Saturday morning the 12 th, a fignal was made by one of the headmoft fhips, that dencted fhe was within fight of land, and foon afterwards, from our maft-head, the glad tidings were announced that land was plainly to be feen, bearing by compafs E.S.E. At eleven in the forenoon it was known
to be the weftern coaft of Ireland, and arrangements were immediately made by the Sceptre for keeping the fhips together, and for entering the Shannon; where Captain Effington propofed to remain with his convoy until a force more equal to the protection of the valuable fleet he had thus fafely brought into his Majefty's dominions, fhould arrive, to efcort it from thence to England. Having communicated to Captain Effington fuch parts of my orders from the Lords of the Admiralty, under which I had failed, as applied to the government of my conduct on the prefent occafion, I received his orders to repair immediately to London; and the following day, Sunday the 13 th, after having feen the Difcovery fafely moored, with the reft of the fleet, in the Shannon, and giving fuch inftructions, as circumftances demanded, to my firft lieutenant Mr. Baker, in whofe zeal for the fervice, and abilities as an officer, a long experience juftified me in implicitly confiding; I refigned my command of the Difcovery into his hands, and with fuch books, papers and charts as had been previoufly felected, as being effential to the illuftration of the fervices we had performed, I took leave of my officers and crew; not, however, without emotions which, though natural, on parting with a fociety with whom I had lived fo long, fhared fo many dangers, and from whom I
had received fuch effential fervices, are yet more eafily to be imagined than I have the power to defcribe : and in the courfe of a few days I arrived at the Admiryty, where $I$ depofited my feveral documents.

Before I bid fianewell to the Difcovery,* I muft beg leave to arreft the attention of my readers for a few minutes, for the purpofe of taking a fhort view of the geographical knowledge which Had been obtained of the earth, previounly to the expedition which I have had the honour to command, and the happinefs of bringing thus to a conclufion; and alfo to notice fuch parts of the globe as yet remain to be explored to make that fpecies of information complete. The effecting a paffage into the oriental feas round the cape of Good Hope, the difcovery of America, and the opening of a communication between the Atlantic and Pacific Oceans, by paffing either through the ftraits of Magellan, or round the illands lying off the fouthern extremity of Tierra del Fuego, engaged the minds and utmoxt exertions of the moft illuftrious navigators during the three laft centuries. Thefe enterprizes have been duly appreciated and juftly celebrated for the important lights they have thrown upon the fciences of geography and nautical aftronomy; for the improvements they have caufed in the arts;

[^5]for the commercial intercourfe which, by their means, has been opened and eftablifhed with all the maritime parts of. the world ; and, laftly, for the happy introduction of civilization amongt numerous tribes of our fellow creatures.

In the firft attempts to accomplifh thefe extenfive objects, Great Britain took no part; but no fooner did the perceive the importance of which they were likcly to be to her confequence and profperity as a maritime ftate, than her fpirit for the attainment of fuch valuable acquifitions to fcience became roufed. In the courfe of a very few years, no fuch effential benefits have been fecured to mankind, nor has fo much geographical knowledge been acquired, as fince the commencement of Discovery undertaken, and fuccefffully accomplihed, by the unremitted labours of Britifh navigators; whofe primary confiderations have been to direct their inquiries to objects of an ufeful nature, and to inveftigate and fupport the truth, by, a plain narrative of thofe facts, which fell within the fphere of their obfervation, rather than to give encouragement, by the obtrufion of fpecious opinions, to hypothefes, however ingenious. In confequence of a ftrict adherence to this principle, the geography of the earth is now placed beyond the influence of conjecture, and is determined by fuch incontrowertible evidence, that the fmall fpaces that yet terprize : there are, however, parts of the coafts, both of Afia and America, which would yet afford employment for the labourers in the feience of DISCOVERY.

The Afiatic coaft, from the latitude of about $35^{\circ}$ to the latitude of $52^{\circ}$ north is at prefent very ill defined; and the American coaft, from about the latitude of $44^{\circ}$ fouth, to the fouthern extremity of Tierra del Fuego, is likewife very little known ; and I entertain no doubt, had not our late examination on the coaft of North-Wert America, fo delayed our return to the fouthern hemifphere, as to prevent my carrying the orders I had received into effect, that I fhơuld have derived great fatisfaction from a furvey and inveftigation of the fhores of that interefting country. If, however, by that portion of his Majefty's commands, which I have had the honour to execute, it Thall appear that a decifion may as juftly now take place, refpecting any navigable communication between the waters of the Paciffe and Atlantic oceans, within the limits of our furvey, as on the hypothefis which gave as a counterpoife to the globe a fouthern continent, and which the indefatigable diligence of Captain Cook completely fubverted, I hould hope that the purpofe for which his Majefty commanded
the expedition to be undertaken, will not be confidered as having failed for want of zeal or perfeverance, though it fhould hereafter be found incomplete for want of judgment and ability.

There were few objects to 'which I had paid more attention, or had more fincerely at heart, than that of obferving fuch a conduct, at all times, towards the feveral tribes of Indians, with whom we fhould frequently mect, as hould prevent the neceffity of our reforting to any meafures that might endanger the lives of a people, whofe real intentions were always likely to be mifunderftood, from a want of knowledge in us of their refpective dialects? or languages. After having refided, as it were, amongft them for more than two years, without having had the leaft occafion to fire a thot in anger, I had fondly hoped that I fhould have been enabled to have completed our refearches in thofe before untrodden regions, without the lofs of life to a fingle individual belonging to the countries we might -yet find it neceffary to vifit. In this my anxious concern for the great caufe of humanity I was, however, difappointed. The number of Indians from Traitor's cove which fell in the unprovoked attack upon our boats, on the 12th of Auguft, 1293, could not be afcertained; but, independently of this unfortunate affair, I do not know of more
than two men who afterwards loft their lives int confequence of our expeditions, from the Difcovery or Chatham. Thefe unlucky events did not, however, fail to produce in my mind much forrow and regret, from which I could find no relief but in the confoling reflection, that nothing but the moft urgent neceffity, for our own prefervation, would have compelled us to have adopted coercive meafures.

From the firft moment of my appointment, to the hour in which I refigned the ftation I had fo long held, the health of every individual under my command had been my firt cate; and I had now the unfpeakable happinefs of beholding the fame perfons return on board the Difcovery to the river Shannon, in perfect health, as had failed with me from the river Thames, excepting fuch of the officers as had officially been fent home, or had been promoted in the Chatham; the feventeen feamen left at St. Helena, to affift in navigating the Macaffar to England*, and the undermentioned individuals, who were unhappily loft in the courfe of the expedition.

John Brown, carpenter's mate, drowned by accident, in the execution of his duty, off the fouth Foreland, 3d of February, 1791.

Neil Coil, marine, died of the flux, cominum* Arrived all well the 22d of November, 1795.
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cated to the Difcovery, at the cape of Good Hope, by an infected hip from Batavia, fth of Auguft, 1791.

Jofeph Murgatroyd, one of the carpenter's crew, miffing at fea the 21 ft of January, 1793.

John Carter, feamen, poifoned by eating mufcles, in Poifon cove, 15 th June, 1793.

Ifaac Wooden, drowned by accident, in the execution of his duty, off Wooden's rock, the 24th of Auguft, 1794.

Richard Jones, drowned by accident, in the execution of his duty, between the port of Valparaifo and the ifland of St. Helena, 21 ft of June, 1795.

By this lift it will appear that, from the 15 th of December, in the year 1790, to this 13 th day of September, 1795, comprehending a fpace of four years eight months and twenty-nine days, we had loft out of our complement of one hundred men, only one man by difeafe: and at the time of our parting with the Chatham* at St. Helena, the had not, in the courfe of the whole voyage loft a fingle man, either in confequence of ill health, or from any accident whatever.

The unfortunate lofs of thefe five men from the Difcovery produced in me infinite regret, but when I adverted to the very dangerous fervice in. which we had been fo long employed, and the * Arrived all well 17 th of October 1785.

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Cc many perilous fituations from which we had providentially been extricated, with all poffible adoration, humility, and gratitude, I offered tip my unfeigned thanks to the Great Disposer of all human events, for the protection which thus, in his unbounded wifdom and goodnefs he had been pleafed, on all occafions, to vouchfafe unto us, and which had now happily reftored us to our country, our families, and our friends.

END OF THE JOURNAL.

## NOTES

## AND

## MISCELLANEOUS OBSERVATIONS.

SINCE my return to England I have had feveral converfations with Captain Colnett, selative to the capture of his veffel at Nootka, and the treatment that himfelf, officers, and crew, received from the Spaniards during the time they remained at that place, and afterwards whilft they were prifoners at St. Blas; from the whole of which it will appear, that he had been extremely ill ufed, and that no dependence is to be placed on the accounts given to Sen ${ }^{r}$ Quadra, or myfelf, by the American commanders, who are ftated to have been eye-witneffes of moft of the tranfactions. The documents and papers which Captain Colnett has fince produced to me, fully prove that the Americans wilfully mifreprefented the whole affair, to the prejudice of his character, and the intereft of his Britannic Majefty's fubjechs, engaged in commercial purfuits on the coaft of North Weft America.

Having been particularly careful to fate all the important circumftances that came to my Cc2 knowledge
knowledge during my negociation with Sent Quadra, whether they were. fuch as tended to eftablifh the claims, or militate againft the pretenfions, of the Britifh crown to the territories at Nootka, I have thought it proper, in addition towhat has been already related, to give the following brief account of the capture of the Argonaut, as reprefented to me by Captain Colrett.

The fettlement which Captain Colnett had in contemplation to make at Nootka, had been concerted at Macao, in November, N89, at the time he entered into copartnetthip with feverak Englifh gentlemen refident at that place.

On this occafion, Captain Colnett made it his particular bufinefs to become informed with refpect to the property which thofe gentlemen held in the two veffels, the North Weft America and Ephigenia, then ons the coaft of Nootka; for as to the land, he entertained no dowbt of its beTonging to Great Britain, as the fubjects of that ftate were the firft European people who had difcovered the country; and he was further well fatisfied, that no other power whatever had a right to difpoffers the gentlemen with whom he had engaged, of their property at Nootka, becaufe he and they confidered it to be exclufvely their own. The intention of forming a fettlement was known to Mr. Hudfon before his departure in the Princess Royal from Macao; and on his arrival
arrival before Captain Colnett at Nootka, fuch intention was moft probably communicated to the Spaniards and the native Indians, who appeared to have been long in expectation of the Argonaut's arrival, and had referved the greateft part of their furs for the purpofe of exchanging them with Captain Colnett, for the articles with which, they had learned, his veffel would be freighted.

Under the ideas which Captain Colnett entertained, that this part of the coaft of North Weft America belonged to Great Britain, he had no fear of entering any of its ports, becaufe he was duly authorized by the South Sea company to trade in thofe feas, and had leave to abfent himfelf from his Majefty's fervice, being at that time a lieutenant in the royal navy. As a defence againft boftile Indians, the Argonaut had twelve carriage guns, befide fwivels and fmall arms; but not apprehending any thing unfriendly from the inhabitants of Nootka, nor having become acquainted before he left China, that any difference exifted between the courts of London and Madrid, when he arrived off Nootka, on the 3d of July, 1700 , the guns of the Argonaut were difmounted, and were all in the hold of the veffel.

About nine o'clock that evening, when at the diftance of about three leagues from the entrance into the port, a boat was obferved coming to-

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wards the Argonaut ; but, as the weathqu was yery hazy, it could not be difcovered to what nation it belonged. On being hailed, the perfons in her laid upon their oars, and requefted, in Spanifh, permiffion to come on board, with which Captain Colnett inftantly complied. Soon after another Spanim boat, and one belonging to an American veffel, came alongfide his veffel, and Captain Colnete now underftood that there were two Spanith men of war, and an American hip and floop, at anchor in Friendly cove. On receiving this information, Captain Colnett hefitated for fome time, whether he fhould, or not, go into Friendly cove; as he had fome doubts as to the propriety of putting himfelf under the command of Spanifh hips of war. This objection being made known to Don Martinez, who had arrived in the firft boat, he requefted, through an interpreter, that Captain Colnett would, neverthelefs, afford him ome afliftance, as the veffels under his command were in great diftrefs for the want of provifions and other neceffaries; and as he had paid fome attention to Mr. Hudfon, the commander of the Princefs Royal, one of the four veffels under Captain Colnett's directions (as would be feen by a letter which he produced to Captain Colnett from Mr. Hudfon) Martinez hoped Captain Colnett would not be wanting in a return of civility, and intreated him, in the
moft
moft earneft manner, to enter Friendly cove; pledging his word of honor, not only as commander in chief of all the thips belonging to his Catholic Majefty, on the northern coafts of the Pacific Ocean, but alfo as nephew to the viceroy, and in his capacity at Nootka, as the reprefentative of the king of Spain; that Captain Colnett fhould be at liberty to depart whenever might think proper; Don Martinez ftating, at the fame time; that he was then at Nootka for the fole purpofe of watching the operations and proceedings of the Ruffians. Thefe affurances induced Captain Colnett to confider Don Martinez as an officer of high rank and character; and as he did not entertain the moft diftant idea that any falfehood was attempted to be impored upon him, or that he was in the leaft danger of being trcated by Martinez with duplicity, he fuffered the Spanifh launches to tow the Argonaut into port, where fine did not arrive until midnight.

The next morning Don Martinez invited Captain Colnett to breakfaft on board the Princiffa, and afterwards accompanied him on his return to the Argonaut, where Captain Colnett ordered fuch provifions and ftores as he could fpare to be got to hand, gave a lift of them to Don Martinez, and, at the fame time, requefted his acceptance of them, with which civility he dppeared to be highly pleafed and thoroughly fatisfied. Don C c 4

Martinez

Martinez had not been long on board the Argonaut before he felected Captain Colnett's boatfwain from the reft of the crew, who being a native of Gibraltar, fpoke the Spanifh language very fluently. After fome converfation with this man, Don Martinez demanded him of Captain Colnett, as a fubject of his Catholic Majefty, and as the boatfwain was very defirous of leaving the Argonaut, Captain Colnett remitted the balancethen due from him on account of his wages, and difcharged him from his fervice. This circumftance was by no means a pleafant one to Captain Colnett; but, as Don Martinez feemed to be extremely anxious to obtain the releafe of this man, Captain Colnett did not think it would have been prudent to have refifted his application. His doubts, however, of the profeffed fincerity of Don Martinez, became increafed, by his foon difcovering that the Indians declined all fort of trade with the Argonaut. This induced him to determine upon leaving Friendly cove with all poffible difpatch, and he acquainted Don Martinez that he purpofed to depart in the courfe of the day. Upon this the Spanifh officer offered his launch to affift the Argonaut out of the cove; and it was at this time agreed, that the articles with which Captain Colnett could fupply Don Martinez, fhould be fent to him by the return of the Spanifh launch. The promifed affiftance of
this boat not arriving fo foon as Captain Colnett had expected, he fent one of his mates to Don Martinez, for the purpofe of reminding him of his engagement; and to procure the launch; but, to his great furprize, inftead of the officer returning with the Spanifh boat, Captain Colnett received a meffage from Don Martinez, defiring that he would inftantly repair on board the Princiffa, and produce his fhip's papers for his examination. With this requeft Captain Colnett immediately complied, and Don Martinez had fcarcely looked at them, before he pofitively afferted that they were all forgeries, although he did not underftand a fingle word of the language in which they were written. With this declaration he threw them on the table, and infifted that the Argonaut fhould not fail from Nootka until he fhould think proper to grant permiffion for her departure. On Captain Colnett complaining of this breach of promife and good faith, Martinez quitted the cabin in an apparent rage, and inftantly difpatched an armed party from the deck, who, after knocking Captain Colnett down, arrefted him, and detained him as a prifoner on board the Princiffa. Don Martinez then fent his launch on board the Argonaut; ftruck the Britifh, and hoifted Spanifh, colours; ordered the Columbia, an American fhip, to fire into the Argonaut if fhe attempted to unmoor; made the officers
officers prifoners, and put the crew into irons. After this the veffel was unloaded, and every individual was robbed of fuch parts of his private property as was chofen by the Spaniards. In this fituation the Argonaut, officers, and crew, remanned for ten days, wishen the Princefs Royal appeared in the offing; and on Mr . Hudfon, her commander, being perceived by Martinez to be coming near the fhore in his boat, he fent out his launch armed, feized the boat, and brought Mr. Hudfon on board the Princiffa, where a letter was prepared for him to fign, ordering the officer, whom he had left in charge of his veffel, to deliver her up without any refiftance. At the yard-arm was rove a rope, with which Mr. Hudfon was threatened, to be hanged, if he declined figning the letter, or if the floop under his command fhould fire at the launch then ready to carry the propofed letter, and which, under thefe circumftances, he was compelled to fign on board the Princiffa.

From the 5th to the 14 th of July, 1790 , arrangements were making on board the Argonaut for the confinement of the officers and crew during their paffage from Nootka to St. Blas, whither Captain Colnett was given to underftand they would be fent as prifoners.

The treatment which Captain Colnett received whilft on board the Princiffa had nearly proved fatal
fatal to him; he was feized with a violent fever, attended with a delirium, which did not abate until he was removed on board his own veffel; here he was made a clofe prifoner, and confined to the mate's cabin, a place not fix feet fquare. Such parts of the Argonaut's cargo as Martinez thought proper to reject, were returned into the veffel again, and all the officers, and fixteen of the crew, who were Britifh fubjects, were, on the 14th of July, fent in the Argonaut under confinement from Nootka to St. Blas.

Notwithftanding the great diftinction with which it had been reprefented to Sen Quadra, and urged by him to me, Captain Colnett had been received on his arrival at this port, and which he does not deny, in point of treatment, was infinitely better than he had experienced during the time he was under the power and directions of Martinez; yet the remainder of his cargo, ftores and provifions, was taken from out of his veffel at St. Blas, and a part only of the former was afterwards reftored, whilft the wages of the Spanifh navy that were paid to him, for himfelf, officers, and crew, were nearly counterbalanced by the heavy expences brought againft his fhip's company during the time of their captivity, for their maintenance, medical and other affiftance:

The hardfhips which were endured, according
to Captain Colnett's reprefentation, by himfelf, his officers, and the fixteen Britih feamen, during a paffage of thirty-two days to St. Blas; are not to be defcribed; but as a detail of thefe circumftances would lead me into extraneous matter, unconneted with the object (the ceffion of the territories at Nootka) which made a ftatement of Captain Colnett's tranfactions in Friendly cove neceffary in the former part of my journal, I fhall forbear to mention any thing on that head, and only infert a paffage, tranflated from the Spanifh paffport, granted by the viceroy of Mexico to Captain Colnett, at the time of the refteration of his veffel, and his liberation from the Spanifh territories in America; by which it will appear, that although Don Eftevan Martinez had no efpecial directions to capture either the Argonaut, Princefs Royal, or any other Britifh fhip, yet all veffels not belonging to his Catholic Majefty, might have been retained at Nootka as good and lawful prizes: this will neceffarily leave the reader in fome doubt as to the means that were purfued by the American traders then at Nootka, to preferve the privileges which they feem to have enjoyed; and I fhall conclude this relation of the bufinefs from the teftimony of Captain Colnett, by briefly ftating how he conducted himfelf, on receiving a fubfequent paffport from the viceroy: of Mexico.
"The
"The conduct of this officer" (Don Eftevan Jofe M rtinez) " was founded on laws and royal orders, which not only do abfolutely prohibit the negociation, eftablifiment, and commerce, of aliens on our coafts of the fouth feas of both Americas; but ordain alfo, that they the faid aliens, fhall be looked upon and treated as declared enemies, without its being underftood to be a breach of the good faith, or contrary to the treaties of peace; for in that concluded in the year 1760, and confirmed in the fecond article of that in 1/763, the arrival of all alien veffels, or their introduction, paffage, or commerce on the faid coafts, are completely prohibited.
" Under thefe circumftances, agreed to by the treating parties, and pofftive declarations of the court of Spain, the veffels Argonaut and Princers Royal might have been retained as good and lawful prizes; but, being defirous to preferve that harmony which at prefents exifts between our court and that of London, and confidering alfo that the fovereigns of both kingdoms will, upon reafonable and juft terms, amicably agree to the reftoration of the faid veffels, I grant a free and fafe paffport to their Captains James Colnett and Thomas Eludfon, that they may proceed to Macao, or fail to any other place they may choofe, with the exprefs prohibition that they fhall not put into any port or bay of our coafts without fome
fome very preffing neceffity, or eftablifh themfelves there, or trade in them with the Indians, becaufe they may do this in other places or inlands. not the dominions of his Catholic Majefty."

After Captain Colnett had received this paffport, he petitioned the viceroy that he might be permitted to difpofe of the remaining part of his cargo on the coaft of North Weft America, but this was pofitively refufed by the viceroy, who ftated that he was bound to give that preference to the fubjects of his Catholic Majefty. Notwithftanding that he did not grant Captain Colnett this indulgence, he tranfmitted to him another paffport, in which Captain Colnett was directed to proceed to Nootka, with orders to the commanding officer there, to deliver up the Princef Royal, which veffel had been directed to repair to that port, after having been fome months employed in the Spanigh fervice. On Captain Colnett's return to Nootka he did not find the Princefs Royal there, nor could he learn any tidings of her deftination, and therefore he made the beft of his way from Nootka to Maceao, agreeably to the injunctions contained in the fecond paffiport from the viceroy of Mexico.

In the year 1792, the fur trade, between the north-weft coaft of America and China, gave employment to upwards of twenty fail of hips and veffels, whofe names, and the countries to
which they belong, I have thought proper to infert, for the putpofe of fhewing that my opinions, refpecting the value of this trade, were not only founded upon obfepvation, but confirmed by the practice of feveral European fates, and adventurèrs from the Afratic, Chinefe, and American fhores.


Befide thefe, the denfets already mentioned in finy journal, belonging to his Catholic Majefty, frequently reforted to the port of Nootka.
When fuch a fpirit for enterprize as this, is
thus manifefted by the people of fo many different nations, and directed from all quarters of the globe to thefe fhores, there can remain no more doubt, with refpect to the commercial advantages which are likely to be attendant on fuch fpeculations, than that many unjuft proceedings will take place amongft the feveral perfons concerned, who, in the avidity for promoting their refpective interefts, become competitors for the commodity of which each is in purfuit, and deftroy the general benefits which, under wife and good regulations would refult to all. A retrofpective view of thefe circumftances, and the behaviour of $\mathrm{Sen}^{r}$ Quadra, in the negociation which, with him I had the honour to conduct, refpecting the ceffion of the territories at Nootka to the crown of Great Britain ; will ferve to Shew in what an important light the court of Spain beholds her interefts in this valuable country, and what alfo are the commercial advantages that moft probably would accrue to the adventurers on the coaft, were their dealings properly reftrained, and their general conduct wifely regulated.

Although we did not meet with any Ruffian veffels at Nootka, yet I am clearly of opinion the people of that nation are more likely than thofe of any other to fucceed in procuring furs, and the other valuable commodities, from there

Thores; with which a moft beneficial trade might be eftablifled between North-Weft: America; Japan; and the northern parts of China. Of this I was well perfuaded, from the accounts I received from Symloff, and from my own obfervations on the general conduct of the Ruffians towards the Indians, in the feveral places where we found them under their controul and ditection. :Had the natives about the Ruffian eftablifhments in Cook's inlet, and Prince William's found been oppreffed, dealt hardly by, or treated by the Ruffians as a conquered people, fome uneafinefs amongft them would have been perceived, fome defire for emancipation would have been difcovered; but no fuch difpofition appeared, they feemed to be held in no reftraint, nor did they feem to wih, on any occafion whatever, to elude the vigilance of their directors; For fome of our commodities that were valuable to them, they would offer their furs in exchange; but in no inftance did they propofe any thing of the kind for fale to the difadvantage of their employers. The Ruffians, moft likely, unable to reduce the inhabitants of the infular country to the fouth-eaftward from Crofs found, have preferred to fit down amongft thofe to the weftward; where, from the compactnefs of the coaft, and the lofty impaffable mountains which apVol. VI.

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proach the fea thore, the natives are reftrained from indulging in the wandering life to which their more eaftern neighbours are accuftomed, and who being a much more warlike race, may poffibly have been found by the Ruffians to be lefs tractable.

Notwithftanding that our furvey of the coaft of North-Weft America has afforded to ourminds the moft fatisfactory proof that no navigable communication whatever exifts between the North Pacific and North Atlantic Oceans, from the 30 th to the 50 th degree of north latitude, nor between the water of the Pacific, nor any of the lakes or rivers in the interior part of continent of North America; yet, as it is very difficult to undeceive, and more fo to convince the human mind, when prepoffeffed of long adopted notions, however erroneoully they may have been founded, and efpecially when circumfances may be reforted to which hate the appearance of being capable of furnifhing new matter for ingenious fpeculative opinions, it may not be improper to ftate; that although, from unavoidable circumftances, Mr Broughton* was compelled, in his examination of Columbia river, to defift from attempting to afcertain the navigable extent of the feveral fmall branches which

[^6]fall into that river, yet that gentleman was thoroughly convinced from the view he had obtained of each, and the circumftances attendant on them all; that no one of thofe branches admitted of any navigable communication whatever with the interior country:

With refpect to the ancient difcoveries of De Fuca; they appear to be upheld by tradition alone, and ought therefore to be received with great latitude, and to be credited with ftill more caution. A celebrated writer on geography* appears to have been perfectly convinced that this oral teftimony was corrëct, although he candidly acknowledges that "we have no other than verbal report of De Fuca's difcovery; he communicated the information to Mr. Lock at Venice; and offered to perform a voyage," I prefume, for the further exploring of thofe regions, " on condition of having payment of the great loffes he had fuftained, to the value of fixty thoufand ducats, when captured by Sir Thomas Cavendifh in the South Seas. John de Fuca; the Greek pilot; in 1592 , railed into a broad inlet, between the 47 th and 48th degrees, which led him into a far broader fea; wherein he failed above twenty days; there being at the entrance on the north-weft
*.See Dalrymple's plan for promoting the fur trade. 1789.

$$
\text { Dd } 2: \quad \text { coaft }
$$

coaft, a great head-land or illand, with an ex: cceding high pinnacle or fired rock, like a pillar, thereupon:

This is the whole that can be collected from the information of this fuppofed navigator; which Mr. Dalrymple fays exactly correfponds with the difcöveries of the Spaniards, who "have recently found an entrance in the latitude of $47^{\circ} 45^{\prime}$ north, whichintwenty-feven days courfe brought them to the vicinity of Hudfon's bay." On making inquiries of the Spanifs officers attached to the commiffion of Senr Melafyina, as alfo of Sen ${ }^{r}$ Quadra, and feveral of the officers under his orders, who, for fome time paft, had been employed in fuch refearches refpecting fo important a circumftance, I was given to underfand by them all, that my communication-was the firft intelligence they hadever received of fuch difcoveries having been made; and as to the navigators De Faca, De Fonte, and others, thefe gentlemen expected to have derived intelligence of them fromus, fuppofing, from the Englifh publications, that we were better acquainted with their achievements than any-part of the Spanifh nation. A commander of one of the trading yeffels met with fuch a pinnacke rock in the lalatitude of $47^{\circ} 47^{\prime}$, but unluckily there was no opening near it, to identify it being the fame which
which the Greek pilot had feen; but this circumftance can eafily be difpenfed with, for the fake of fupporting an hypothefis, only by fuppofing the opening to be further to the northward. That fuch a rock might have been feen in that latitude is not to be queftioned, becaufe we faw: numbers of them, and it is well known, that not only on the coaft of North-Weft America, but on various other coafts of the earth, fuch pinnacle rocks are found to exift.

On thefe grounds, and on there alone; ftands the ancient authority for the difcoveries of John De Fuca; and however erroneous they may be, feem to have been acknowledged by moft of the recent vifitors to this.coaft, who as well as myfelf, (as is too frequently and injudicioufly the cafe) have been led to follow the ftream of the current report. By my having continued the name of De Fuca in my journal and charts, a tacit acknowledgment of his difcoveries may poffibly, on my part, be inferred ; this however, I muft pofitively deny, becaufe there has not been feen one leading feature to fubitantiate his tradition: on the contrary, the fea coaft under the parallels between which this opening is faid to have exifted, is compact tund impenetrable: the fhores of the continent have not any opening whatever, that bears the leaft fimilitude to the defcription Dd3 of
of De Fuca's entrance; and the opening which I have called the Juppofed firaits of Juan de Fuca, inftead of being between the 47 th and 48 th degrees, is between the 48th and 49th degrees of north latitude, and leads not into a far broader fea or mediterranean ocean. The error, however, of a degree in latitude may, by the advocates for De Fuca's merits; be eafily reconciled, by the ignorance in thore days, or the incorrectnefs in making fuch common aftronomical obfervations; yet we do not find that Sir Francis Drake, who failed before De Fuca, was liable to fuch miftakes.

The difcoveries of the Portuguefe or Spanilh admiral De Fonte, De Fonta, or De Fuentes, appear to be equally liable to objections, as thofe faid to have been made by De Fuca. Little reliance, I truft, will hereafter be placed on that publication of De Fonta's account,* wherein it is ftated that "He failed 260 leagues in crooked channels, amongft illands, named the Archipelago of St. Lazarus, and on the 14 th of June 1640, he came to a river which he named Rio de los Reyes, in $53^{\circ}$ of north latitude ; he went up it to the north-eaftward 60 leagues; it was frefh 20 leagues from the mouth, the tide rifing

[^7]24 feet

24 feet, the depth not lefs than four or five fa. thoms at low water all the way into lake Belle, which he entered the 22 d of June; in this lake there was generally fix or feven fathoms; and at a particular time of tide there is a fall in the lake; that from a good port fheltered by an ifland on the fouth fide of lake Belle, De Fonta on the 1 ft of July failed in his boats to a river which he named Parmentiers; that he paffed eight falls, in all thirty-two feet perpendicular, from its fource in lake Belle, into a large lake which he reached the 6th of July. This lake he named De Fonte; it is 160 leagues long, and 60 broad, lying E.N.E. and W.S. W. in length, having in fome places 60 fathoms depth, abounding with cod and ling."

It is here neceffary to interrupt the thread of De Fonta's curious narrative for a moment, in order, if poffible, to reconcile the nature of his voyage with his ftatement of facts. After his arrival in Rio de los Reyes, he failed in his Thip bo leagues to lake Belle; 40 leagues of this diftance were frefh water ; and then in his boats, through that lake and the river Parmentiers; where, after paffing eight falls he arrived in lake de Fonte, which he finds abounding with cod and ling; but the extent of lake Belle is not mentioned, nor whether the water in lake de Fonte was frefh or falt, though from common reafoning, it is natuD d 4
ral to conclude, that fince the water in Rio de los Reyes was frefh at the diftance of 40 leagues from the lake whence the river derives its origin, that the water in lake De Fonte, where cod and ling are faid to abound, muft be frefh alfo: But to return to the narrative. Lake de Fonte contained "feveral very large illands, and ten fmall ones: from the E. N: E. extremity of this lake, which he left the 14th of July, he paffed in ten hours with a frefh wind and whole ebb a lake, which he named Strait Ronquillo, 34 leagues long, and two or three broad; with 20 , to 26 and 28 fathoms depth. On the 17 th he came to an Indian town, where he learnt there was a hhip in the neighbourhood; to this hip he failed, and found on board only one man advanced in years and a youth; the man was the greateft in the mechanical part of mathematicks he had ever feen : he learnt they were from Bofton in New England, the owner named Gibbons, who was major general of Maltachufett's, and the whole fhip's company came on the 30th of July. On the 6th of Auguft De Fonta made the owner fome valuable prefents, and took fome provifions from them, and gave Captain Shapely, the commander of the veffel, one thoufand pieces of eight for his fine charts and journals. On the 11th of Auguft De Fonta arrived at the firft fall in the river
river Parmentiers, and on the 16 th on board his thip in lake Belle.

The extenfive archipelago, in which De Fonta had failed through crooked channels 260 leagues; the river navigable for fhipping that flowed into it, up which he had failed in his fhip 60 leagues; the water becoming frefh after he had entered and paffed in it 20 leagues; its communicating by other lakes and rivers with a paffage, in which a fhip had arrived from Bofton in New England; are all fo circumftantially particularized, as to give the account, at firft fight, an air of probability, and on examination, had it been found reafonably connected together, which is by no means the cafe ; a trifling difference in point of defcription or fituation would have been pardoned.

The Rio de los Reyes. Mr. Dalrymple ftates (according to the Spanifh geographers, under the authority of which nation De Fonta is faid to have failed) to be in the 43 d ; according to the Englifh in the 53d; and according to the French, in the 63d degree of north latitude, on the weftern coaft of North America. If it be neceffary to make allowance for the ignorance of De Fonta, or the errors in his obfervations, any other parallel along the coaft may be affigned with equal correctnefs.

Under the 43 d parallel of north latitude on this coaft, no fuch archipelago nor river does exift; but between the 47 th and 57 th degrees of north latitude, there is an archipelago compored of innumerable iflands, and crooked channels; yet the evidence of a navigable river flowing into it, is ftill wanting to prove its identity; and as the fcrupulous exactnefs with which our furvey of the continental fhore has been made within thefe limits, precludes the poffibility of fuch a river having been paffed unnoticed by us, as that defcribed to be of Rio de los Reyes, I remain in full confidence, that fome credit will hereafter be given to the teftimony refulting from our refearches, and that the plain truth undifguifed, with which our labours have been reprcfented, will be juftlyappreciated, in refutation of ancient unfupported traditions.

I do not, however, mean pofitively to deny the difcoveries of De Fonta, I only wifh to inveftigate the fact, and to afcertain the truth; and I am content with having ufed my endeavours to prove their improbability as publifhed to the world. The broken region which fo long occupied our attention, cannot poffibly be the archipelago of St. Lazarus, fince the principal feature by which the identity of that archipelago could be proved is that of a navigable river for thipping
flowing
flowing into it, and this certainly does not exift in that archipelago which has taken us fo much time to explore; hence the fituation cannot be the fame, and for that reafon I have not affixed the name of De Fonta, De Fonte, or Fuentes to any part of thofe regions. It is however to be remembered, that our geography of the whole coaft of North Weft America is not yet complcte, and that the French navigators, who have flated the archipelago of St. Lazarus to be in the 63d degree of north latitude, may not yet be in an error.

The ftupendous barrier mountains certainly do not feem to extend in fo lofty and connected a range to the northward of the head of Cook's inlet, as to the fouth-eaftward of that fation; and it is poffible that in this part, the chain of mountains may admit of a communication with the eaftern country, which feems to be almoft impracticable further to the fouthward. In this conjecture we are fomewhat warranted by the fimilarity obferved in the race of people inhabiting the fhores of Hudfon's bay and thofe to the northward of North Weft America.

In all the parts of the continent on which wo landed, we nowhere found any roads or paths through the woods, indicating the Indians on the coaft having any intercourfe with the natives of
notes, \&e.
the interior part of the country, nor were there any articles of the Canadian or Hudfon's bay traders found amongft the people with whom we met on any part of the continent or external fea fhores of this extenfive country.

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[^0]:    *This however was not the fact, as the frefh inftructions were addreffed in the firft inftance to me.

[^1]:    * Wide Coilection of Voyages to the Southern Hemifphere, in 2 rois. 8 \%o. publithed in 1,38 .

[^2]:    - This conjecture was on my return to England fuily confirmed by the information I received in confequence of Captain Colnett's vifit to there illands.

[^3]:    Vol. VI.
    R
    afforded.

[^4]:    - Tinirty-fix quadras make a mile.

[^5]:    * Arrived all well in the. Thames the 20th of October, 1795,

[^6]:    - Now a poft captain in the royal navy.

[^7]:    * See Dalrymple's phan for promoting the fur trade. 1789;

[^8]:    T. Gillet, Priater, Salisbury-square.

