

# Y A 0 G E TOTHE CAPE OF GOOD HOPE, TOWARDS THE ANTARCTIC POLAR CIRCLE, ROUND THE WORLD: BUT CHIEFLY INTO THE COUNTRY OF THE HOTTENTOTS AND CAFFRES, FROM THE YEAR 1772, TO 1776. BY ANDREW SPARRMAN, M.D. PROFESSOR OF PHYSIC AT STOCKHOLM, FELLOW OF THE ROYAL ACADEMY OF SCIENCES IN SWEDEN, AND INSPECTOR OF ITS CABINET OF NATURAL HISTORY. TRANSLATED FROM THE SWEDISH ORIGINAL. WITH PLATES. IN TWO VOLUMES. VOL. I. AND IL. LONDON: PRINTED FOR G. G. J. AND J. ROBINSON, PATER-NOSTER-ROW. M DCC LXXXV.



# P R E F A C E.

RELATIONS of voyages and travels have at all times, and in all ages, fince the invention of letters, been favourably received by the public: but, perhaps, in no age fo well as in the prefent; writings of this kind being bought up with avidity and read with eagernefs, more efpecially in this ifland, not only by the learned and polite, but alfo by the rude and illiterate. The reafon is evident. The age in which we live, has not unfrequently been accufed of frivolity and indolence. With what juffice, it is not our bufinefs at prefent to determine. Its turn for experiment, however, and difpofition to enquire into facts is univerfally acknowledged: and indeed, may, perhaps, be partly deduced from the principle abovementioned. Now every authentic and well-written book of voyages and travels is, in fact, a treatife of experimen-

A 2

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# PREFACE.

From these fources natural history derives tal philofophy. its most copious streams : and the observations which, in compositions of this kind, every where occur on winds and feafons, foils and climates, in fhort, on the whole of what may be called *fill nature*, are undoubtedly of the greateft advantage to physical science. With respect to moral philosophy and metaphysics, it may be sufficient to mention the works of PAUW, RAYNAL, KAIMES, and Ro-BERTSON, to evince the utility of journals and defcriptions of voyages in these and fimilar researches. It is alfo worthy of obfervation, that it is the modern philosophers chiefly, and the living inftructors of our own times, who have mostly had recourse to these treasures, as containing the best materials for the purpose of building their systems, or at leaft, as being best adapted to the fupport and confirmation of their doctrines.

Few, indeed, are the travellers, whofe writings may be relied on as the pure fources of truth, unadulterated with error, or undifguifed by wilful mifreprefentation. But is the number of writers anfwering to this defcription greater among those who have collected and reported facts, avowedly for the purpose of rendering them subfervient to philosophy? Have not, on the contrary, the major part of these collectors greatly distorted and misrepresented the facts they have laid before the public, in consequence of a previous attachment to favourite softems? Doubtless they have;

įv

have; and it is therefore in the original writers of itineraries and journals, that the philosopher looks for genuine truth and real observation; as the authors of them for the most part have had neither philosophical abilities, nor any other motive sufficient to induce them to report these facts, otherwise than they have presented themselves to their notice.

The author of this journal, though a man of much real knowledge and genuine learning, difcovers in every page of his book too. little attachment to fystem and hypothesis, to allow us to suppose him likely to be guilty of a fimilar error. Fired with the love of fcience and of truth, he fet out for the defert wilds of Africa, without money, and without friends or support of any kind; and was even obliged to labour for fome time, before he could acquire wealth enough to enable him to put his favourite fcheme in execution .: In this refpect, indeed, he may deferve to be compared to our illustrious countryman, the prefent prefident of the Royal Society, whofe zeal for the promotion of ufeful knowledge induced him, at nearly the fame age, though at a fomewhat earlier period, to go on a much more dangerous and extensive expedition, than that which is the principal fubject of the following fheets, and to facrifice fortune, eafe and health, in the caufe of science.

Indeed, exclusively of the confiderations above-mentioned, the work itself in every page bears evident marks of that that paffionate regard for truth, which first infpired the undertaking. In the defcriptions of animals he is accurate to a degree; infomuch that it is to be feared, that fome of his readers, who are not fufficiently apprized of their general utility, may think him tedious : but in defcribing fcenes and fituations, whether partaking of the fublime, the beautiful, or the ridiculous, he is no longer an author, he is a painter: and, quitting his pen for the pencil, fets every object before us in colours equally vivid with those of nature herself. Physician, naturalist, and philosopher, neither human manners, nor civil institutions, rural œconomy, nor police, nothing, in fine, escapes the keennefs of his obfervation. Never relying on the relations of others, except when it is impossible for him to do otherwise, he fees every thing with his own eyes, and trufts only to the report of his own fenfes : and at the fame time knows perfectly well (which is never the cafe with the ignorant traveller) both how to fee and what to look for. Hence we have fo many accurate defcriptionsand drawings of animals never before feen, or elfe ftrangely misrepresented by his predeceffors.

In fact, the account given by him of the whole face of the country, may be confidered, in a great measure, as new: though (befides fuch navigators as have occafionally touched at the Cape, from whom, indeed, much information, could not possibly be expected) deveral others, the chief

6

chief of whom are KOLBE and DE LA CAILLE, have either refided in this part of the world for feveral years, or made expeditions into the country previoufly to our author. It might appear invidious in us to expatiate on their demerits, or to enquire into the caufes of their failure in their refpective undertakings. We will therefore rather confine ourfelves to that which is the fubject of the following fheets.

Our author, together with a fpirit of obfervation not feen in every traveller, had, as we are informed by his friend Mr. GEORGE FORSTER, admittance into the houfes of the first families at the Cape. This advantage he feems to have been very folicitous to turn to the best account; and to it we, perhaps, in a great measure, owe the annexed map of the country, which is certainly no fmall acquifition to geographical fcience.-Before he had attained the frate of manhood, he had prepared himfelf for an expedition of this nature, by a voyage which he made under his kinfman, the Chevalier EKEBERG ; and the Amenitates Academica, publiched under the infpection of the great LINNEUS, exhibited divers proofs that he had not made the woyage in vain. On his return to Up/al, he applied to the fludy of physic: but his attention was principally engroffed by the fcience of botany, which he purfued with the greatest ardour under its celebrated reftorer, and became one of his favourite difciples. With an education of this kind,

kind, which, it must be owned, was the most favourable that could well have been imagined to fuch a purpofe, he fet out for the Cape, at a time of life the best adapted to an enterprize of this nature, nominally to inftruct the children of M. KERSTE, the refident at that place; but in reality, to fearch for the works of the Creator in a part of the world hitherto hardly known to naturalists. How he has fucceeded, the reader must judge for himfelf.-But it was not this obfcure corner of the globe only that he was defined to illustrate. By the arrival of the RESOLUTION and ADVENTURE at the Cape with Meffrs. FORSTER, he had an opportunity offered him of extending his refearches to an infinitely greater diftance, and all nature now lay It was, perhaps, not more to the adopen to his view. vancement of natural knowledge than to that of these gentlemen's reputations, that chance threw fo great a zoologift as Dr. SPARRMAN in their way at fo critical a juncture ; and it is to be hoped, that we fhall one day be informed of the extent of our obligations to him on this fcore. In the mean while, we must content ourselves with the few fpecimens he has given us in the Swedish Transactions, where he has inferted, and still continues to infert, the various difcoveries he has made on the continent of Africa.

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viii

of doctor of physic, was on his return home made a member of the Royal Academy at Stockholm, and of feveral other learned focieties. After the death of the great entomologift Baron DE GEER, who had engaged Dr. SPARRMAN to live with him at his houfe, the Baron having bequeathed his magnificent collection of natural curiofities to the Academy, our author was made infpector of it. He was likewife invefted by the Academy with the nominal dignity of profeffor : and, on refigning to his fucceffor the charge of prefident of this fociety, after having held it for the fpace of three months, pronounced an oration " on the augmentation and advantages which fcience in general, and more particularly that of natural hiftory, have acquired, and are farther likely to acquire, from exploring the Pacific Ocean." Published at Stockholm in 1778.

To this flort account of the author it may be neceffary to add, that we have taken the liberty of reforming the orthography of most of the places mentioned in the course of the work, both with respect to the map and to the work itself: the author, whose pursuit was things and not words, having been careless in his language, and more especially in his nomenclature, to a high degree: as likewise that we have adopted the divisions into chapters and sections made by the editor of the German translation, as rendering the following sheets more intelligible,

VOL. I.

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viii

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VOL. I.

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and greatly relieving the attention of the reader. Having mentioned this, we will no longer trefpafs on the reader's time and patience, but leave this work, which, to use the words of Mr. GEORGE FORSTER, the author's friend and German editor, is *adapted to every class of readers*, in the hands of its best judge and protector, the Public.

x

INTRO-

# [ xi ]

# INTRODUCTION.

I N the month of September I had occasion to think of making a voyage to the fouthernmost promontory of Africa. What gave rife to this defign, was the following circumstance.

The ingenious Captain EKEBERG, who never neglects any opportunity of promoting the interests of science, had, during a short visit he had made to the Cape of Good Hope, made it his business to obtain permission to fend thither a natural historian.

But in order that this perfon, in the courfe of his refearches after plants, infects, and other objects of his inquiry, might not run the rifque of being confidered as a fpy on the country and its government, and at the fame time that he might compass his intentions with as little expence as possible, it was agreed that he should instruct

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the refident's children in Falle-bay in geography, French, and mathematics.

M. EKEBERG was no ftranger to the turn I had for natural hiftory, having been acquainted with it in the courfe of a voyage to Canton in China, which I had the happinefs to make under his command, in the years 1765 and 1766. He therefore had me in view when he thought on this voyage to the Cape.

I accepted his offer with the greatest pleasure, as I had long wished for an opportunity of seeing distant parts of the world. Still, however, it depended entirely on the special favour of the directors of the Royal Swedish East-India Company, whether I could be allowed a passage in some vessel bound for the Cape and Canton.

M. EKEBERG, therefore, mentioned my intended voyage to the board, as likely to be of fervice to fcience. From the confideration of fo specious an object, I was flattered by these gentlemen with the greatest hopes of success inmy application, till such time as, agreeably to their statutes, a written petition should be prefented to them on this subject.

The late Archiater LINNÆUS, as zealous for the advancement of his favourite science as he was deeply skilled in it, heard of this with peculiar pleasure; and, in his own name, drew up a petition for the voyage to be made.

xii

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The directors \* well knowing, that a well-regulated commerce as well as navigation in general, has its foundation in fcience, and at the fame time receives light from it, while this, in return, derives fupport from, and owes its extension to the two former, not only confented to what I requested, but likewife, in their great kindness, went beyond my defires.

Accordingly they ordered, that I fhould have my paffage gratis from Gottenburg to the Cape, together with every convenience, in one of their fhips, called the *Caftle* of *Stockholm*, which, it was expected, would be ready to fail on the Christmas following. The last-mentioned place was pitched upon, for the first station to be reforted to for the purpose of taking in refreshments in our way to China.

Before I begin the journal of my travels, I must affure every gentleman of a hearty welcome, who intends doing me the honour to accompany me in them by means of this paper-conveyance, provided he will deign to be pleafed with his entertainment.

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A man who travels to a great diftance from home, can never meet with the objects of his refearches in the order and arrangement that he himfelf would with for: how then fhould he be able to difpofe and arrange his travels upon paper, agreeably to every one's peculiar tafte and liking? With refpect to my ftyle, which, in confequence of my being unufed to composition, is fometimes fo unequal, as well as unhappy in point of expression, that I have frequently been difpleafed with it myfelf, I have need, more than most authors, to beg for the reader's kind indulgence. In fact, all my writing for thefe many years paft, has confifted chiefly in fhort notes and memorandums, expressed fometimes in one language and fometimes in another, (just as my occupations and the part of the world I was in gave occafion to) and fometimes in many languages blended together in one. From this medley I have now translated and expressed in a more diffuse style, and in my native language, what I had formerly fet down, in the manner above-mentioned, by way of memorandum And though I do this with pleafure, conceiving only. it to be a duty I owe to my curious and inquifitive countrymen, yet the performance of this tafk is by no means unattended with anxiety; inafmuch as on account of the want of practice for many years, proceeding from my attention to affairs of greater importance, I do not find myfelf

felf able to come up to the reader's wifnes in this particular.

Neverthelefs, though I can pledge myfelf for the principal article requifite in all compositions of this kind, viz. for the truth of the occurrences here related, it will be of no avail, if at the fame time, I cannot avoid being confidered as being rather unfuccefsful in the choice of my materials, in the variety and uncommonnefs of them, and laftly, in the ftyle and manner in which they are prefented to the Indeed, it has been given me to understand, that public. from one, whom a reftlefs inquifitive difposition has enticed from his native country, to follow the calls of deftiny all round the globe, and more particularly through the land of the Hottentots and the wild and defert regions of Africa, from fuch a man accounts are expected of a most entertaining and wonderful import. Nor is this expectation abfolutely ill-founded. Nature has prefented herfelf to me in various fhapes, always worthy of admiration, often enchanting, and fometimes terrible, and clothed with hor-But at the fame time I must apprise the reader; that ror. a great many prodigies and uncommon appearances, about which I have frequently been afked by many, who have been brought to entertain these conceits by perusing the defcriptions of others, are not to be found in my journal. Men with one foot, indeed, Cyclops, Syrens, Troglodytes, and fuch like imaginary beings, have almost entirely difappeared

peared in this enlightened age. At the fame time, however, many have been hitherto induced to give credit to tales almost as marvellous, with which authors, who have before me vifited and deferibed the Hottentots, have feafoned their relations, in order to make them go down the better with the public. So that the reader must not be furprized to find my accounts frequently differ much from those of various of my predeceffors; and at the fame time, I shall now and then be obliged to take up my own and his time with some very narrow limitations of what they have advanced. Otherwise, in fact, the public would have reason to doubt of my own veracity.

I must here likewife previously inform the reader, that I do not undertake to give a full and complete hiftory of the Cape of Good Hope, but merely fuch relations concerning every thing remarkable, as I have either been able to collect, or have myfelf obferved with respect to this part of the world. A deficiency of this kind may, perhaps, even in matters of importance, meet with a ready excufe from many of my readers, when it is confidered, that without being either rich myfelf, or in the leaft fupported by others, I undertook an expedition, which, when confidered with re-fpect to these circumstances, will appear to be of no small The whole of the fum that I took out with me extent. to, bear my travelling expences was about twenty-five rixdollars, and what, by dint of æconomy, I had made myfelf 8

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felf mafter of by the time I got home, was fomewhat more than double that fum.

Thus fo far was I from being able to purchafe collections, or to obtain at my eafe, or by dint of money, opportunities of enlarging the fphere of my knowledge, that I even could not poffibly arrive at them without great trouble and danger. In this cafe, I have been obliged to content myfelf with what fortune has thrown in my way, as I may fay, gratis.

The arranging by way of journal the occurrences and events which I have defcribed, though in certain refpects it be not the beft method, is yet in general, the most na-In order to acquire an adequate idea of a variety tural. of objects out of the great number of those that have prefented themfelves, it conduces not a little to know on what days they were feen. In fact, the time, the manner, and the order, in which things occur, are accidental circumftances from which much light may be derived. But the greateft advantage accruing from this method is, that hereby it becomes eafier both for the writer and reader to diffinguish, what is the actual refult of the author's own experience. from what he has, in defect of this, been obliged to advance on the ftrength of the information given him by others.

At the fame time, in order to come to a more fpeedy and pleafing conclusion of the travels themfelves, certain defcriptions, critical ftrictures, and reflections are deferred

VOL. I.

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at prefent, which will be inferted at the end of the fecond volume \*, partly in the form of notes to this, and partly conftituting diffinct heads by themfelves. Above two thoufand of the productions of nature hitherto unknown, which, in confequence of a moderate degree of attention only, I have difcovered in Africa, (a country in many refpects very different from the reft of the globe) but have not been able as yet fully to arrange and put in order, cannot have place here, either defcribed at full length, or in the more compreffed form of fketches and definitions.

\* This fecond volume, if it fhould ever appear, muft evidently be confidered as a work of a very different nature from the prefent: the translator, therefore, did not think himfelf bound to take any notice of it in the title-page.

CÓN-

xviii

# [ xix ]

# C O N T E N T S.



INTRODUCTION.

Occasion and defign of the voyage. Some general reflections and ftrictures on writers of travels and voyages.

#### C H A P. L

#### VOYAGE FROM GOTENBURGH TO THE CAPE.

Departure from Gottenburgh in Sweden. Description of a violent storm. Distressed situation of a Dutch vessel. Lights in the sea. A differtation on their nature and their different species. Arrival at the Cape, p. 6.

#### СНАР. И.

RESIDENCE AT THE CAPE OF GOOD HOPE TILL THE AUTHOR'S VOYAGE TO THE SOUTH SEA.

#### SECT. I.

#### Refidence at Cape Town.

Defcription of the Cape Town and the adjacent country. The author waits on the governor and commandant. Sketch of the character and hiftory of Baron Van PREHM, p. 13.

b2 SECT.

#### SECT. II.

#### Residence at Bay Falso.

Goes to Bay Falfo to wait on the refident, whofe children he is to educate. Is entertained on the road at night by a rich boor, with gritty bread, and meat preferved with pepper. Peculiar courtefy of the French nation contrafted with the manners of the Dutch at this colony. Meets with his old chum, Dr. Thunberg, at Cape Town. Defcription of Falfe Bay and the adjacent country. Dutch politeness at table. Story of an English lady going to be married in the East-Indies. Sealschooting. The torpedo. Description of various fishes, infects, and plants, p. 29.

#### SECT. III.

#### Residence at Alphen, near Constantia, till the author's trip to Paarl.

Removes to Conftantia with the refident. The plants there. The vineyard. The filver-tree. Uncommon difposition of Table-mountain, with refpect to rain. Beautiful prospect from the fouth-lide of it. Adventures in confequence of losing his way at night. Differtation on the Conftantia and Cape wines. Hout-bay deferibed. The palmites plant. Divers kinds of small antilopes. Several forts of viverræ, or weafels. The method of catching them, and their uses. A young hippopotamus. The esteem in which botany is held at the Cape, exemplified in the behaviour of a Cape physician, p. 50.

#### SECT. IV.

#### Trip to Paarl.

Letter to a brother failor, defcribing a fix-weeks excursion made on foot • in October. Hires a bastard, a man of family, for his guide. Racks, wheels, and gibbets, exposed in the public roads. New species of cicindela. Is taken up by a waggon drawn by twelve oxen, but soon quits it. Concert of jackalls, trogs and owls. Is lodged and entertained by a flave. Battle between the house-flave and the cow-herd. The forts of feed sown in this colony. Curious method of ferving at the fame time God and mammon. Salutation of a boor. The author very

#### CONTENTS.

very ungallantly neglects to requite the fervices of a female flave. A flave's revenge on his niggardly mafter. At a rich widow's houfe is in danger of being kicked out of doors, on his hat being difcovered with the brim fluck full of infects. Floats naked over the river to an iflet on a bundle of palmites plants, in order to botanize there. Behaviour of a furly but hospitable miller. Makes a fexton and his wife happy, by prognofticating the death of the latter. Is hospitably received by a learned boor. The tower of Babel. Drunken foldiers. Obliged, together with his host, to bolt his chamber-door, for fear of being murdered by the flaves. A curious love-fcale. Prices of flaves and cattle. Bad confequences of the flave-trade. His guide has not the least idea of a deity. Conclusion of the letter, p. 77.

#### SECT. V.

Refidence at Alphen, after the author's return from Paarl.

Observations on the uniola and pisang, p. 79.

#### C H A P. III.

VOYAGE TO THE SOUTH SEA.

#### SECT. I.

The circumstances which gave occasion to this Voyage.

Goes round the world with Capt. Cook, as an affiftant to Meffrs. Forfter. The occasion of his undertaking this voyage, p. 84.

#### SECT. II.

Voyage from the Cape of Good Hope to New-Zealand.

Continuation of the journal of the voyage, p. 87:

### SECT.

### SECT. III.

First Voyage from New Zealand to Otabeite, and from thence back again to New Zealand.

Some events not related by Cook and Forfter, p. 91.

#### SECT. IV.

Second Voyage from New Zealand to Otabeite, and from thence back again.

Journal continued, p. 97.

SECT. V.

Voyage from New Zealand to Terra del Fuego, and from thence farther on towards the South Pole.

Journal continued, p. 99.

#### SECT. VI.

Return to the Cape of Good Hope.

Return to the Cape. Ship's provisions utterly spoiled, p. 104.

# C H A P. IV.

JOURNEY FROM CAPE TOWN TO THE COUNTRY OF THE CAFFRES.

## SECT. I.

Residence at Cape Town, previous to the author's African Expeditions.

Dangerous fituation of a veffel in Table-bay. A shipwreck. Lives ofthe crew faved by an old foldier on horseback. Cruelty and ingratitude of

xxii

of the government at the Cape. Humane inflitution of the Chinefe in thefe cafes. Register of the weather at the Cape, for May, June, and July, 1775, p. 113.

#### SECT. п.

#### Preparations for the African Expedition.

Undertakes an expedition into the interior parts of the country. Equipment for that purpofe. Buys a waggon with twelve oxen. Is accompanied by Mr. Immelman, the fon of an officer at the Cape, p. 119.

#### SECT. III.

#### Journey from the Cape to the Warm Bath.

Bad accommodations on the road. Manner of travelling in the African waggons. Description of Gustavus's sceptre, a plant. No bridges in Africa. Account of the manner in which they pais the rivers with waggons in this country. Defcription of the landscape about Botriver. Wretched wine at Agter de Berg. Sees various forts of gazels in his way to the warm bath; and likewife whole troops of zebras. Oftrich-hunting. Method of reckoning the length of journies here; and of harneffing the oxen, p. 135.

#### SECT. IV.

#### Refidence at the Warm Bath.

Hottentot-Holland's warm baths defcribed. The bathing-houfes and wells. Chemical analysis of the waters. Cures performed by means of them. Differtation on their origin. Remains of a volcano. Onkjes, vernal flowers of the iris kind; their ufes in food, and in reckoning time. Shoots a wild cat in a tree. The different forts of them in this country enumerated and examined. Defcription of a porcupine-hunt. Cape partridges and pheafants, the korr-hen, and fecretaries-bird, otherwife called the ferpent-eater, defcribed. Ufes of this latter, and its manner of attacking ferpents. The author frequently visits a patient in these parts, and is paid in milk and provisions. Wild dogs very dangerous animals. Their manners. Hunt in packs, and fometimes turn,

turn, when hunted, and hunt their purfuers. Tiger-wolf, or hyana, eats up the carcafes and bones of animals which are left untouched by other wild beafts, and would otherwife contaminate the atmosphere. Its cowardly but artful manner of attacking other animals. By imitating the cries of other creatures, it decoys them away from the reft of the herd, with a view to devour them. Is the most voracious as well as watchful of all animals. Betrays its approach by an involuntary barking, proceeding from an empty and conftantly craving ftomach. At night is fuffered to enter the town at the Cape, being of great ule in clearing the fhambles. Adventure of a drunken trumpeter with'a hyæna. This fpecies never before accurately defcribed. Eats up one of the traces belonging to the author's waggon. Pretended change of its fex accounted for; as likewife the ftories of its imitating the human voice, and enchanting the shepherds, fo that they cannot flir from the fpot where they are. Seldom caught, and hardly ever fhot. Ufe of this creature's long fhaggy coat, p. 171.

#### C H A P. V.

#### JOURNEY FROM THE WARM BATH TO ZWELLENDAM.

The driver has not the least knowledge of the road. Not being able to get a Hottentot any where to lead their oxen, make a virtue of neceffity, and turn ox-leaders themfelves. Procures a Hottentot to drive his waggon, who gets at the brandy the author had taken with him, for the purpose of preferving animals in, and treats his companions with it. The author and his friend in danger of being murdered by these fellows in their liquor. 'The author puts a live ferpent into the liquor. Hottentots used to swallow the poison of ferpents, confidering it as A. prefervative against the bite of these animals. Is cheated in the bargain he made for his oxen. One of them runs home. The farm and foreft at Tiger-hoek described. Description of the persons, clothing, ornaments, and arms of the Hottentots. Befmeared with greafe and foot, which alters their natural complexion. This ill defcribed by authors. The males have no defect in the organs of generation, nor have the females any fuperfluity in those parts : what appears there being not natural but artificial. Hottentots perfume themselves with the powder of a plant called bucku. Do not wear the inteffines of animals, but a number of leathern rings about their arms and legs. Their field shoes. Method of making them particularly described. Their craals or villages and huts. Their manners and difposition. Boshies-men, or wild Hottentots. Their.

Their maxims and weapons. Live in deferts on berries, caterpillars, and other infects. Their amazing voracity. Are finall and flender, but, after being caught, are fattened in the space of a few weeks. The colonifts hunt them like wild beafts; and frequently make parties for the purpose of catching and enflaving them. Very much given to run away, but never carry any thing off with them. Almost always in a starving state, and numbers of them perish for want. Neither they nor the Hottentots have any conception, neither can any be infufed into them, of a God. Confider rain at all times as an evil. Bully the thunder. Have great faith in forcery. The forcerers are their phyficians, and cure them of their difeafes by thrashing them. Instances of various cheats put on them by their forcerers. Though fuperflitious, are not afraid of darknefs : yet feem to have fome notion of fpirits and a future life. Respect, but do not worship infects of the mantis kind. Do not worship the moon. Kolbe's mistakes with respect to this point corrected. Chriftianity taught at Tygerhoek by a Moravian, who was acculed of finister practices. No remains of religion here at prefent. Two Hottentot girls pay them a vifit. Their odd behaviour. The author endeavours in vain to hire a driver for the expedition. At laft a lad agrees to go as far as Zwellendam with them. Sloth and idlenefs of the Hottentots. Hard fate and fenfible reflections of a flave. Register of the weather for August. Hessaquas kloof. A singular diforder among the horfes. The Landroft of Zwellendam offers him a better team of oxen. State of the weather at that place. Zebras and quaggas, both species of the wild horse. The former do not fear the hyzena, but guard the other cattle from its attacks. Both forts eat lefs, and are more hardy than the common horse, and might be used for drawing. Misfortune of a man who harneffed fome quaggas to his carriage, before they were properly tamed. Riet valley. Language of the Hottentots, compared with that of the Snele Hottentots. Their mulical inftruments and tobacco-pipes. Curious acthod of finoking. Their cardplaying, improperly fo called by the colonists, p. 231.

#### C H A P. VI.

#### JOURNEY FROM ZWELLENDAM TO MUSCLE-BAY.

Black-monkies. Groot Vaders-bosch. Stop a bit, a plant growing there-Lose their way at night. Saddle-oxen. Visit a Hottentot craal, and are entersined with milk curdled by being kept in the skins of animals. Vol. 1 Sweet milk unwholefome. The Hottentot Captain Rundganger, Captain an empty title. Captains fpies on their countrymen. Hottentots opprefied by the Dutch, and obliged to fhift their quarters continually more inland. Thorn- or gum-arabic tree. Large dairy-farms. River of butter-milk. Diffinction between the carrow, four, and fweet fields. The first rendered fertile by aqueducts. Cows that gnaw each other's horns. Hottentots continually fhifting their quarters, from fuperstitious motives : a practice which prevents the degeneration both of their lands and cattle. Colonists faulty in this respect. Rhinocerosbush. Overflowing of Gauritz-river. Hoar frost of falt. Description of Muscle-bay. Houtniquas-land. Algoa-bay. Hints for the advancement of trade and the improvement of the colony, p. 260.

### C H A P. VII.

#### JOURNEY THROUGH THE HOUTNIQUAS.

Animals to be found in Houtniquas. Defcription of the bosch-bock.
Hadelde-bird. Register of the weather. Almost a whole province intoxicated with a hogshead of brandy. Description of a Hottentot mistrels.
Bastards not christened. Stratagem of a burgher at Batavia to get his child baptized. Style of building in this province. The author's Hottentots run away on being corrected for drunkenness. State of the weather in September, p. 291.

#### C H P. VIII.

#### JOURNEY THROUGH LANGE DAL.

Departure from Houtniquas. Lofe their way on horfeback. Pafs the night out of doors, exposed to a violent rain. Artaquas-kloof. Infefted with a herb called p— grafs, which kills the cattle with the ftrangury. Obliged to live abroad in the air, the walls and every part of the house being covered by flies. Curious method of killing 'them. Cadna's land. Miffake of Mr. Malon with respect to it in the Philoisphical Transactions. The Canna thrub, a new species of fallola, described. Method of fertilizing the most dry barren country. New method method of dreffing partridges. Immoderately fat fheep, with tails weighing above twelve pounds. The author bleeds a Hottentot lad. An inftance of Dutch compafilion. Hottentot women's lamentation over the dead. The boy comes to life again. African otters and fifh. Taken in by a farmer's wife in a bargain about a pair of oxen. Strange cafe of a prolapfus uteri. Lofe their way again. Unkind behaviour of fome Hottentots. His horfe finks with him into the mire. Princely fhepherds. Miferable condition of Hottentot fugitives. Stone-heaps. Pitfalls for the larger kind of game. Mountain Hottentots. Flight of a Hottentot child. Coal-black lizard. The dafs, an animal of the cavia genus. Daffen-pifs taken for petrolæum. Seems to be the menftrual evacuation of this animal, p. 310.

#### C H A P. IX.

# JOURNEY FROM LANGE DAL TO SITSICAMMA, AND FROM THENCE TO SEA-COW RIVER.

Kromme-rivier. Efchen-bofch. The pneumora, an infect fuppofed to live on the wind. They come to a perfon when called. Boshies-men caroufing on elephants flefh. Defcription and admeasurement of the remains of the carcafe. How this animal was that by two farmers. The best methods of shooting these beasts discussed. One man will attack a whole herd of elephants. Ceafe to fly when wounded. Elephant's way of fwimming. Histories of fome dangerous rencounters with them. De la Caille's strange anecdote a mere imposition. Do not copulate like human creatures. Never feen in the act of copulation, excepting once, by two of the author's acquaintance. Elephant's diet. Expence of keeping them. Hiftory and ufe. Negroes buy and fell the tails at a vaft price from fuperstitious motives. Tails defcribed. Foffil elephant's teeth. Mammouth's bones found in Siberia are nothing but the bones of elephants. The theories of Buffon and others overturned. Lemning-moufe, and other migrating animals, adduced as proofs of the author's affertions. Divers inftances of the fagacity of elephants. Wreck of the Doddington East-Indiaman on this coaft. Survivors robbed by the Hottentors. A Dutch captain font from the Cape to look after the cargo, comes back purpofely withbut doing any thing. Bilious fever prevails among the Hottentots. Strange

#### C 0 N T E N T S.

Strange method of cure used by the author. Hottentot-ball. The bee. Monkey-dance. Polygamy of the Hottentots. Pitiful cafe of an old polygamist. Marriage ceremony performed among the Hottentots by fprinkling the bride and bride-groom with usine. Manner of burying their dead. Bury alive or expose fuch children as have lost their mothers. Starve their old people to death. Extenuation of their crime. Preparations for the expedition through the defert. White ants eaten by the Hottentots. Milchief done by them. Hottentots imagine the fwarms of locufts with which the country is fometimes over-run, to be fent to them for food. Locust foup, Locusts of use in clearing the lands, p. 368.

#### RATA. E R

Page 1, line 1, for A Voyage from Gottenburgh, &c. read Voyage from Gottenburgh to the CAPE.

18, 1. 7, for quase, read quasde.
40, 1. 6 and 7, for figgar, read liggar.
64, 1. 13, before the 'iquire's half brother, read of.
579, 1. 3, for Tigerhoek, read Tygerhoek.
236, 1. 15, for wait, read ftop.
283, 1. 16, fhould be read thus: and was befides as well befmeared with foot and greafe.

#### XXVIII

# A VOYAGE

95.C.2 A Y A G E 0 V TO THE CAPE OF GOOD HOPE.

# CHAP. I.

### A VOYAGE FROM GOTTENBURGH, &c.

N the 10th day of January, in the year 1772, I failed from Gottenburgh in the Caftle of Stockholm; a fhip belonging to the Swedish East-India Company. The wind was favourable, fo that we foon difmission of the delightful pastures of Sweden. We found the weather, as it usually is at this cold feason, fomeling milder in the open fea, than it was upon the, coast. The Swedish East-Indiaman, the Louisa, destined for Cadiz, to take in refreshments there, with money Vol. I. B for 1772. January. for both fhips, kept us company till we paffed the north of Scotland. The ftormy weather however, ufual in thefe parts, and at this time of the year, made us feparate before we intended it. The wind blowing ftill ftronger likewife, carried away our main-top-fail, though it was quite new, and made of a ftrong cloth. The damages were reckoned to amount to feveral hundred rix-dollars.

This ravage and destruction afforded in itself neverthelefs a fine fpectacle, which to me was entirely new. Sudden gufts of rain now combined with the night to fhrowd every thing in darknefs. Let the reader reprefent to himfelf for a moment the foaming billows on all fides furrounding the ship, and swelling up fometimes even to our yard-arms; while the long fhivers of the top-fail got loofe, and being white, were diffinctly difcerned waving to and fro in a most alarming manner, and at length totally vanished through the darkened air. At the fame time the violence of the wind caufed those parts of the fails which yet remained on the maft, together with the ends of the broken cordage, to beat about, and crafh with fuch force as for a time to drown every other) noife.

This fpectacle did not make the lefs impression, when by degrees we could better distinguish the roaring of the fea, the swell of the waves, the blussering of the wind, and the crackling noise made by the mass and the joints of the planks; particularly when to this we add, that the captain was continually roaring out, and was answered in the same strain by the men at the helm, *star-board and port*, as the stem of the ship heaved to right or left; not not to mention the ufual noife and buftle from all quarters of the deck, the failors and tackling being in conftant agitation and motion.

On the 2d day of February in the afternoon, when we had got to 34 deg. 22 min. N. lat. 1 deg. 32 min. eaft of the meridian of Paris, a ship at a distance fired feveral guns, thereby giving us to understand that she was in diffres, and defirous to fpeak with us. We accordingly waited for her coming up, and found her to be a Dutch East-Indiaman, called the Duivenbrock, bound homewards, and commanded by Capt. CONRAD LOUE. They had loft their rudder, and in confequence of the great fwell of the fea, had not been able to lash on another; on which account likewife the ship had got fo far out of her courfe. The crew were emaciated to a great degree, and in want both of water and provisions. Our commander made them a prefent of as much of both as their long-boats were able to carry; but at length, the night coming on, and the wind blowing up fresher, they were deprived of that farther degree of affiftance, that every one of us very much wifhed to Even our common failors not only fhewed give them. great compassion on their parts, but affisted them effectually out of their own flock with tobacco, and other refreshments.

On the 12th day of February, just under the tropic, or 24. 51. N. Lat. we faw a fea animal feven or eight feet long, known to fea-faring men by the name of the *fea* devid It is reported by writers of voyages, to be verydangerous to the people engaged in the pearl-fifhery. 'In 3 voyage to China I formerly made, I happened to fee one

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<sup>1772.</sup> of these commals, and on examining it, concluded it to be  $\sim$  a species of RAY.

On the 21ft day of February at fix in the evening, 3 deg. 24. min. N. of the equator, we observed a beautiful meteor. It was like a red hot cannon-ball, which waved to and fro with a gentle whizzing noise, directly over our vessel, and between the mast-tops; but notwithstanding what the failors prognosticated from it, it did not seem to bring with it any change of weather.

On the 4th day of March we paffed the line, when a number of idle ceremonies were performed according to cuftom.

On the 5th, at about 37 deg. S. lat. and 21 deg. weft of Paris, befide the ufual lights that frequently appear fparkling, as it were, on the furface of the fea, there was feen in the night a ftrong gleam of light, called by the failors *maar/ken*, or fea-fhine. It appeared chiefly in a round form of three feet diameter, and was like a glowing light throughout its whole extent. As the fhape of it was fometimes changed to an oblong, it was conjectured, from this circumftance, to be occafioned by the dafhing of the fea. With luminous bodies of this kind the whole extent of the ocean was now adorned, fometimes at the diftance of feveral times the length of the fhip from each other, and fometimes only a few feet afunder. We were not fortunate enough to examine them nearer.

The wind at times blew fresh, being sometimes ace ompanied with heavy showers of rain. The next day there was nothing uncommon to be observed on the surface of the

the fea, that might be confidered as the caufe of this luminous appearance. A night or two before this, we had already begun to perceive fome of thefe lights. The weather at that time was only overcaft. Some of the most experienced among the failors informed me, that thefe lights were met with particularly in the north feas, as well as in the creeks on the coaft of Mexico; and that from these appearances they used to prognosticate a speedy change in the weather. The lights that are ufually feen in the fea are supposed to proceed partly from the conftituent parts of the fea itfelf, and partly from the fifh and other kinds of infinitely fmall animals which have their abode But with respect to the maarsken, I have not found there. any navigators fpeak of them. Are they not occafioned by fome flimy or gelatinous animals (fuch as the mollusca). which only of nights, at certain places, and in confequence of certain changes of the atmosphere, rife to the furface The fame rifing and finking motion, which of the fea ? I now obferved in thefe animals, I remember to have perceived in the Medula, particularly in the year 1775, in the bays about the Cape of Good Hope, after my return from my voyage round the world. At that time it had been formy the whole preceding night, with a great part of the following morning; when, to my great amazement, after fo long a voyage, I now, for the first time, faw these feaanimals in fuch quantities, as to form a thick mais of feveral fathoms depth, as if they had been preffed down Where they were collected into a thinner matin together. one might difcern that one part of them was blue, another of a flame-colour, and another again of a lighter hue.

1772. March.

1772. March. hue. They were mostly of the form of a necklace (moniliformes,) and at that time were probably driven together in fo great numbers by the ftorm; fo that the great quantities of maar/ken, ferve to give a still greater degree of credit to my conjecture. A small corner only of the fea, viz. Table-bay, at this time afforded nourishment to more animals at once, than perhaps are to be found on the whole face of the earth. This opened to me a door, if I may be allowed the expression, to nature's copious storehouse in the deep; fo that at one hasty view I could get a glimpse of that amazing superfluity, which feeds millions of fishes, and at the fame time lines the infide of the whale, that great Colosfus of the deep, with that oily fatness, with which it abounds.

It may from hence be readily concluded, that it was thefe infects that the fat fea-lions and feals, diving and amphibious fowls, many kinds of albatroffes, (diomedeæ) procellariæ, together with fea-gulls of all forts, were in queft of, when I faw thefe latter fo affiduoufly hunting about near the Cape, and in the South Sea.

On the 12th of April we got fight of the Cape, and came the fame day to anchor in Table-bay.

#### CHAP.

#### CAPE OF GOOD HOPE.

7

### CHAP. II.

RESIDENCE AT 'THE CAPE OF GOOD HOPE TILL THE AUTHOR'S VOYAGE TO THE SOUTH SEA.

#### SECT. I.

### Residence at Cape Town.

THE Cape is usually mentioned in too high terms by fea-faring men; particularly by fuch as have been there only for a fhort time. The reafon probably is, that people, who are weary of a long and tedious voyage of feveral months duration, are usually enchanted with the first fpot of earth they fet foot upon, of which they afterwards make their reports according to the impression it first made upon them. This is fo much more likely to happen with respect to the Cape, as fea-faring men are feldom used to ftay there long enough to be weary of it. On the contrary, however, it is not unufual for failors to pinand grow unhappy even here, after being fome months on thore, and to long to go to fea again. I have been informed by

#### A VOYAGE TO THE

1772. March. by Captain COOK, that he, as well as Sir JOSEPH BANKS and Dr. SOLANDER, prejudiced by the relations of others, confidered the Cape, the first time they faw it, as the most delightful and fertile place in the world. 50 that even the barren heaths to the north of the town, were at the fame time very innocently mistaken for fine fields of corn.

For my part, not to lead my readers into any error concerning this point, the account I here give of the Cape has not been written without fome confideration. I muft, notwithstanding, previously remind them, that a view of the map inferted at the end of the book, will give the best and clearest idea of the position of the harbours and creeks of this part of the world, as well as of the names and fituation of the different mountains. By this means the following description will be the more cafily understood.

The town itfelf is the only one in the whole colony, and is properly called the *Cape*, though this name is often injudicioufly given to the whole fettlement. The abovementioned town is fituated between the fhore and the north fide of the mountain, which, in confideration of its apparent equality of furface, has obtained the name of the *Table*. According to the meafurement of the Abbé de la Cailles, the fhore of this bay is 550 toifes above the furface of the fea, and 1344 toifes in length, when taken from Eaft to Weft; the middlemost part of it being fituated Southeast of the town, and 2000 toifes from it.

Duyvel's-Kop, (the Devil's-Head,) called by the Inglifth Charles Mountain, is in a great measure connected with the Table Mountain, but is full 31 toifes lower, and and at the fame time is peaked and bare. Leeuwen-Kop, <sup>17</sup> called by the English the Lion's-Head, and likewise the Sugar-Loaf, is a hill more separated, but less elevated, than the former : the same may be said of its neighbour, the Leeuwen-Staurt, called by the English the Lion's-Rump, and likewise the Lion's-Tail.

From one of these fignals are given, by the firing of guns for every vessel that comes that way, and appears bound for the harbour. When they approach still nearer, a flag is house on this mountain, which ferves for a fignal to the captains of the Dutch ships; but nobody but they and the governor of the Cape know, how the colour of the flag is to be varied for each respective month. The intention of this regulation is, that a Dutchman who is coming into the harbour, may immediately know, if the harbour is fallen into the hands of the enemy, and accordingly take care not to run into it.

The above-mentioned hills are in a great meafure bare, and that part of Table Mountain that looks towards the town is pretty fleep. The bushes and trees (if they may be fo called) which here and there grow wild, are flunted partly by their own nature, and partly by the South-eaft and North-weft winds. Hence they, most of them, look dried up, with pale blighted leaves, and, upon the whole, have a miferable appearance. Some of them, fheltered by the cliffs, and at the fame time watered by the rills that run down the fides of the mountain, may perhaps be fomewhat more healthy and vigorous; but they are univerfall deficient in that lively verdure which adorns the oaks, vines, myrtles, laurels, lemon-trees, &c. planted at the VOL. I. C bottom

1772. March. 1772. March.

bottom near the town. Still farther on, the dry heathy  $\sim$  lands and fandy plains on the ftrand, contribute to give the country an arid and barren look. It must be owned; indeed, that a confiderable quantity of the most beautiful African flowers are fcattered up and down in different parts during the fine feafon; but they cannot fhew their fplendid colours to any great advantage among the various kinds of grafs here, which are mostly perennial and of a pallid hue, among the dry bufhes, and in the fields, which, at least near the Cape, are almost continually grazed off. These plains, therefore, cannot captivate the eye, nearly fo much as the European Flora, with her green meadows replete with annual grafs. I am ready to allow, indeed, that the verdant plantations, together with a few acres of arable land round about the town, make a beautiful appearance, opposed to the African wilds and deferts with which they are furrounded, and which ferve to fet them off to a greater advantage; but then clipped and trimmed trees, with regular plantations of groves reared up by art, cannot fo long keep their ground in our tafte, as that lively verdure of nature which a European, at least after having refided for fome time at the Cape, I think cannot help miffing.

The town is fmall, about 2000 paces in length and breadth, including the gardens and orchards, by which one fide of it is terminated. The ftreets are broad, but not paved; a great many of them are planted with oaks. The houfes are handfome, two ftories high at the most ; the greatest part of them are stuccoed and white-walled on the outfide, but fome of them are painted green : this latter

latter colour, which is never feen upon our houfes in April. Sweden, being the favourite colour with the Dutch for Their clothes, boats, and fhips.

A great part of their houfes as well as churches are covered with a ibrt of dark-coloured reed (Reftio tectorum) which grows in dry and fandy places. It is fomewhat more firm than ftraw, but rather finer and more brittle.

How this thatching is performed, certainly deferves the confideration of our country gentlemen and men of landed property; and a defeription of it will be given by Captain Ekeberg on fome other occasion. The reft of the houfes in the Cape are covered with what is called Italian tiling, which refembles the flat tiles we use for floors.

The company's gardens, fo differently fpoken of by KOLBE, BYRON, and BOUGAINVILLE, are the largest in the town, being 400 paces broad and 1000 long, and confifting of various quarters planted with cale, and other kinds of garden ftuff, for the governor's own table, as well as for the use of the Dutch ships and of the hospital. Fruittrees are planted in fome of the quarters, which, in order to shelter them from the violence of the South-east wind, are furrounded with hedges of mystle and elm. Befides this, the greater walks are ornamented with oaks thirty feet high, which by their fhade produce an agreeable coolnefs, and are much reforted to by the ftrangers that vifit the port, and chufe to walk in the heat of the day.

The four quarters that lie nearest to the governor's refidence, which is fituated in the pleafure-garden towards" the north, have indeed fome beds of flowers in them; but this pleafure-garden is very far from deferving the commendations

C 2

1772. April.

mendations beftowed upon it by KOLBE, who cries it up as having no equal, and being flored with the most coffly plants from all parts of the world. At the end of the pleafure-garden and to the eaft of it, is the menagerie, palifaded and railed off, in which are flewn oftriches, cafuaries, scbras, and fometimes different forts of antilopes, and other finaller quadrupeds, almost all of them natives of the country. In another partition are kept various foreign and domeftic fowls.

The fortifications lie fome hundred paces north of the town, being feparated from it by a verdant mead, which is cut through with canals and roads. On both fides of the town towards the ftrand, batteries are placed; and to the fouth, where the land is higher, are feen the burial grounds of the Chinefe and free Malays that live at the Cape; as well as one belonging to the Dutch, which has a wall But what difgraces the town is a gallows, with round it. racks and other horrid inftruments of torture, which the governor has lately ordered to be erected in the place of honour, if I may fo call it, or opposite to the fortification in the above-mentioned meadow. Befides this, the wellknown hardness of heart of the Dutch settled in the Indies, has fhewn itfelf here by two other gibbets erected within fight of the town, viz. one on each fide of it.

On the 30th of April, being the morning after we came to anchor, I for the first time fet foot upon African The first thing I did was to wait upon the goground. wernor, Baron JOACHIM VON PLETTENBERG, to whom I pail my refpects, and intimated my wifh to live under his protection. As foon as he was informed of the nature of my

#### CAPE OF GOOD HOPE.

my appointment, he granted my request without the least difficulty; and foon offered me the privilege of practifing prayfic, as I had given him to understand, that it had been my principal fludy, Upon the whole, I received great civilities from many members of the regency, particularly from the commander of the troops, Baron van PREHM, who was an African born; but, what is very rare with his countrymen, and to his honour must be mentioned, he had vifited Europe, and was a lover of fcience. Neither must it be paffed over in filence, that he had ferved in the capacity of a Pruffian aide de camp in the last German war ; and, as a proof of his having been in the wars, bore about him the fcars of feveral wounds. As it may give pleafure to fuch as are fond of hearing that merit meets with its reward, I will add, that he returned invefted with the place he now enjoys, and about the fame time made his fortune, by marrying the fineft woman in the whole colony.

13

1772. April.

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## SECT.

#### SECT. II.

# Refidence at Bay Falfo.

LTHOUGH I had already been fome days at the - Cape, I had not yet had an opportunity to fee the refident, (now sub-governor) whose children I was to inftruct. The reason was, that he was gone to Bay Falfo, about eighteen miles from the Cape, in order to receive and make provision for the ships which had just before run into the Bay. I therefore fet out to pay him a vifit there; but flaid over night at a refpectable yeoman's, to whom I was addreffed, in order that he might be my guide. Here I for the first time found, what inconveniences a man is exposed to, who does not understand the language of the people among which he lives. I had made a shift to pick up a little German in my voyage from Gottenburgh to the Cape; but this was but of very little fervice, either towards my making myfelf underftood in this place, or towards my understanding a Dutchman in The neceffity, however, that I was under his language. of communicating my thoughts, contrary to what I had fupposed, increased my power of comprehending others, as well as that of expreffing my own meaning. My hoft, who was very inquisitive with regard to affairs

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in Europe, as well as defirous to get fome information on medical fubjects, was inceffantly propounding his queftions to me, as well as he could, in the German tongue. I, on my fide, repeated my anfwers again and again, expreffing them, in I myfelf did not know what language. It fhould feem, that the German, Swedish, and Dutch languages have a great analogy to, and much in common with each other; but the great difference in the pronunciation of them, as well as in their dialects, feldom allows one to perceive the fimilitude. My phlegmatic hoftefs, who ftood by with open mouth to overhear our conversation, without understanding one fingle word of it, relying upon my ignorance of the language, afked her hufband, whether any thing elfe than abfolute want of the neceffaries of life in Europe could poffibly induce me, and many other ftrangers, to come to refide in Africa? This remark flewed, that fhe had conceived very indifferent notions of ftrangers; and was the more difficult for me to digeft, as they had given me a very moderate fupper, confifting of flewed red cabbage, meat preferved with pepper, and gritty bread. I mention this, however, only as a proof, that the Africans, ignorant of every thing beyond the limits of their own habitation, univerfally entertain most advantageous and flattering ideas with respect to their own country.

The next morning I arrived at Bay Fallo. The refident there promifed to perform his engagement with Captain EKEBERG, and likewife conferred upon me immediately the post of interpreter between him and the French, who came to that harbour. The politeness of this nation in conjecturing what one is going to fay, and at

1772. April.

at the fame time correcting one in the most infinuating  $\sim$  manner when one makes use of an improper expression in their language, was at this juncture extremely agreeable to me; and the more fo, as I had not the leaft knowledge of the dialect and terms in use among them in India. In this kind of civility, which proceeds from a good difpofition as well as a good education, many of the inhabitants of the Cape, the fair fex in particular, were most lamentably deficient. On this account, the Europeans are apt to conceive rather unfavourable ideas of the politenefs of the African colonists. However this be, these latter learn very little of any foreign language, though they are. otherwife indefatigable in their application to trade, and every thing that tends to their emolument; and although the income of the whole colony, as well as the particular intereft of most of the inhabitants, depends entirely on their trade with foreigners.

The next day I went back again to the Cape, to fetch my baggage from on board of fhip, and takeleave of my friends. I could not help being tenderly affected at parting from them, and indeed this was the last time that I faw many of them. It was not till I had loft fight of the Swedish colours, that I felt myfelf an abfolute ftranger on the African coaft.

During the few days, however; that I yet had to ftay in town, I enjoyed the greatest felicity in the company of an old Up/al chum, Dr. THUNBERG, now demonstrator in that university, whose taste for botany had induced him to Indertake a voyage to this remotest point of Africa. He travelled at the expence of fome gentlemen in Hollend, and had come hither with a Dutch ship a few days after me.

10.00

16

me. Nothing could have happened more unexpected to him, than to fee in perfon at the Cape, a man whom, agreeshe to the lateft advices, he now fuppofed to be at Upfal, engaged in courfes of academical lectures; and nothing could be more pleafing to him, than to receive the letters which I brought him from his friends and relations.

I was foon however obliged to return to Falle-bay, by which means I loft the company of my countryman, who alone could make the Cape for me a little Sweden; and render our favourite study, which we both applied to in common, still more easy and delightful. In the meanwhile, perhaps none but a lover of natural history can imagine, what pleafure we enjoyed together among the herbs and At first almost every day was a rich harvest of flowers. the rareft and most beautiful plants; and I had almost faid, that at every ftep we made one or more new difco-And as I had many Swedish friends, and partiveries. cularly the great LINNÆUS, always prefent in my memory, every duplicate or triplicate of the plants that I gathered, gave me a fenfible pleafure; though my covetoufnefs for myfelf and my friends, frequently induced me to gather more than I was able to attend to, and dry in a proper manner. This, doubtlefs, happens more or lefs to every botanist who travels into foreign parts : but besides this circumstance. I was not a little taken off, by my bufinefs with the relident, from the more agreeable application to my beloved fcience.

By this means I was often deprived of opportunities of inveftigating fome of those plants that I had collected: I therefore neglected no opportunity of fending to Sir CHARLES Vol. I. D LINNEUS 17

1772. April.

LINNÆUS duplicates of every thing I found, together with my remarks upon them. Unfortunately this great man's illnefs, declining years, and intervening death, have prevented us long from feeing them in print, in a Mantiffa tertia.

I was now to refide in Falle-bay till the end of the winter, which is called the bad feafon (in Dutch, quaae moullon,) and is reckoned from the 14th of May till the 14th of August. It is not diffinguished by any particular degree of cold; for we had frequently at this time the finest fummer days. Once or twice there fell fome hail, but I never faw any fnow. We had fometimes the most violent flowers of rain, and that moftly for feveral days in continuation, by which means the air was very fenfibly cooled. We were not unfrequently troubled with the north-weft wind, and this is principally the reafon why the Dutch ships, at the time of year before-mentioned, have been ordered to run into Table-bay, ever fince the year 1722; when out of ten fhips belonging to that nation lying there, eight were caft on fhore and loft. This likewife has induced the Dutch company to have ready at hand every neceffary for their fhips, under the infpection of the Refident at Falle-bay. They have erected here an extenfive magazine, which at the fame time includes forges and baking-houfes, with houfe-room for the workmen, who do the whole duty of the guard, and are commanded by a ferjeant and two corporals. The flaughter-houfe makes a diftinct building by itfelf, as do likewife the Refident's house and the hospital. About the time of my departure from Africa, they were building another large and handfome house for the accommodation of the Governor, when he

he chufes to retire thither for his pleafure. Good frefh water is conveyed from the neighbouring hill to a quay, where it is very convenient for use. A tradefman or two have got leave to build an inn here, in which, however, there is not always room and conveniencies fufficient to receive all fuch as, after a long fea-voyage, are defirous of refreshing themfelves on fhore; the fhips that land here being chiefly fuch as contain rot much above twenty paffengers. Board and lodging are paid for here as at the Cape, from one rixdollar to one and a half a day; a tolerable good table is likewife ufually kept here, and the attendance is none of the A perfon that wifnes to go post from Falle-bay to worft. the Cape, a diftance of about fixteen miles, will find it comparatively dear enough. Three or four rix-dollars must be paid for a faddle-horfe, and from twelve to fixteen for a waggon; which is, for the most part, inconvenient, and ufually drawn by three or four pair of horfes, or elfe by the fame number of oxen.

Excepting in the winter, Falle-bay is feldom or ever visited by any ships, as the fouth-east wind, which prevails at every other time of the year, makes this Bay in many respects inconvenient; blowing with such violence, as to cover two hills there with a thick layer of drift fand, all along from the strand up to their very tops. This ridge of fand is seen from afar from the mouth of the harbour, and serves as a beacon for ships; for Simon's-bay, which is the place where they are to anchor, lies directly from the east, or something more to the south. The breadth of Falle-bay is not fo great, but that in clear fine weather, one may see from Simon's-bay the lands laying opposite in 1772. April.

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the eaft, or the Schaapen-Bergen (Sheep-Mountains) in Hot tentots Holland; and with a perspective glass, one may even diffinguish the houses in the last mentioned place.

From the point of land, called the Cape of Good Hope, ftraight on to the town itfelf, there is extended a chain of hills, which, following the courfe of the ftrand in Simon'sbay, is continued to the northernmost part or bottom of Falle-bay; and afterwards, firking off to the weftward to Constantia, goes on to the north of it, to join Table-Mountain. This range of mountains, however, reckoning from Simon's-bay, is intercepted in two places, viz. first, by means of a dale near Constantia, through which the road goes to Hout-bay; and next, by a fandy vale a little to the north of Simon's-bay. Through this vale there is a fhort way between the western and eastern coasts; and in all probability it was formerly a fmall ftraight or found, which has been gradually filled up by the winds and furge of the fea. The whole of the low lands, confifting of fandy plains and tracks of heathy country to the eaft of the town, was in all likelihood formed in the fame manner; and the Cape of Good Hope was in the beginning an ifland, which was not connected with the Tiger-Mountain and shore of Hottentots Holland, but by degrees, and in the courfe of time. It is, in my opinion, particularly with fand, fea-fhells, trunks of trees, and fuch like rubbifh, that the fea has thus encroached upon the land, and fet itself narrower limits. To this the violence of the fouth-east wind contributes not a little, as it fometimes tears up hedges, trees, and vegetables of all kinds by the roots,

roots, at the fame time cafting up high ridges of fand, as I mentioned before.

Even Table-bay is by degrees grown shallower; for that the house that is built by the fea-shore is now farther from it, and time after time they have been obliged to lengthen the quay that has been made in the harbour. Farther. in respect to this circumstance, I can refer to the shells of different fizes that I found in the fandy parts of a meadow a little below Tiger-Mountain. A well-behaved and fenfible yeoman, CORNELIUS VERVEY by name, who conducted me to this place, fituated at the diftance of about twoleagues from the fea-fhore, was of opinion, that the feafhells were left in that place, after the fea had retired from it, but were by no means brought thither by the Hottentots, as they could not poffibly live there on account of the want of water.

The road between the *Cape* and *Falfe-bay* is very heavy, and even fometimes dangerous. At this latter place, at the time that the fouth-eaft wind prevails, there is wont to be fo high a tide, that the fea, even at its loweft ebb, at fome places rifes up to the foot of the mountains, which partly encompass this extensive harbour; fo that one is obliged to travel for a long way (as it were) below the fhore, though the furf or furge of the fea often rifes above the nave of the wheels, and even into the body of the waggon; nay, it fometimes feems as it would carry out to fea waggon, horse, and all. For which reafon they have in general extremely ftrong and fubftantial waggons, and fleady horse, that are accustomed to this kind of work, together with fober and fkilful drivers, fo that an accident

1772-April-

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1772. April. accident of this kind cannot eafily happen: relying upon thefe, people fometimes even drive a little below the feafhore, as the fands are there preffed down and even; whereas higher up they are loofe, deep, and heavy. In a large plain, that clofes up the north fide of *Falfe-bay*, there is a confiderable field of fand, through which the road is carried. This the violent rains, that fall in the winter feafon, joined to a higher tide than ufual, are wont fometimes to lay entirely under water; fo that travellers are in danger of getting up to the middle in holes and pits. Some accidents of this kind happened the winter I was there.

Ships of various nations, English, French, and particularly the Dutch East-Indiamen, anchored this feafon in Simon's-bay. The principal officers and paffengers of this nation lodged chiefly with the refident; fo that at mealtimes, various European dialects, together with the languages used in commerce with the Indians, viz. the Malay, and a very bad kind of Portuguese, were spoken all at one time; fo that the confusion was almost equal to that of the Tower of Babel. The diffimilitude likewife in manners and behaviour was fometimes equally great. circumstance that occurred on this occasion, and that appeared to me rather fingular, deferves to be mentioned. When the ftrangers of other nations began their defert, two Dutch captains put on their hats and lighted their pipes. Upon this I afked fome Dutchmen that fat by me, whether this was not looked upon as unufual and impolite? I was answered, that tobacco was a more delicious defert, and had more charms for an old failor, than cakes and 6 fweetfweet-meats; and that this cuftom is ftill more practifed in other places in the East-Indies. Indeed I observed at the Cape, that the Dutch commonly wore their hats in the house, and that even in company, without its being looked upon as the least breach of politeness. At least the custom, which is constantly practifed in Europe, of carrying one's hat under one's arm, is still more unnatural. This most undeniably absurd practice I never observed in the East-Indies.

We often enjoyed the company of English ladies, fome of whom even staid out our elegant defert of pipes and Some of these ladies came from the East-Indies, tobacco. on their return from Europe, and fome from England. The married ones, to fee their hufbands either at Bombay, Madras, or Bengal; the unmarried ones, to get hufbands. Some of the former had not feen their hufbands for feveral years, these not having being able to fend for them before, for want of having acquired money enough to keep houfe in the expensive manner requisite in this part The latter feldom make the voyage in vain, of the world. being extremely welcome to fuch of the fingle men, as have had time to get a tolerable fhare of the treafures of India, but could not perfuade themfelves to wed the dark Indian beauties, (as many however are accustomed to do) and have not had leifure to go to Europe merely for the purpose of chusing themselves wives. It was therefore fuppofed, that fome of these beautiful travellers were actualty; in a manner, fent for by commission, though not inferted in the invoice.

1772. April.

Be

Be that, however, as it may; they all in the mean while feemed highly deferving of rich and good hufbands. as well for their courage and refolution in venturing upon the ocean, as for many other fine qualities they were poffeffed of. As they were always in the company and under the care of fome refpectable married lady, nobody feemed to harbour the leaft doubt of their good conduct. On this occasion, the following anecdote deferves to be mentioned.

One of the ladies, who had fome time before paffed by the Cape, had been fent for to be married to a certain He, as foon as the arrived, was for performgovernor. ing his engagements immediately; but the lady politively refused, and finally gave as a reason for her conduct, that fhe did not chufe to deceive him; for during her voyage, fhe had betrothed herfelf to the captain of the fhip, who however was bafe enough to retract his promife, although the feared that their connection had been productive of certain difagreeable confequences. The governor repaid her franknefs by the most generous conduct; and was not at all furprized that fhe fhould rather give her hand to a young fellow, who had befides had the advantage of being on the fpot, than wait in uncertainty for an elderly man, who was an abfolute ftranger to her, and was moreover at a diftance from her. He therefore married her himfelf without hefitation, after having in vain endeavoured to perfuade her false lover to take this step.

The little island of *Malagas* in *Falle-bay*, is particularly reforted to by *penguins* and feals; and although *Robien* (or Scal Island) otherwise called *Penguin* Island in *Table-bay*, bears the name of these latter animals, yet they are feldom found

24

found there now, fince the ifland has been inhabited. But on Daffen Island they are found in much greater quantities, infomuch that fometimes a general flooting party is made with advantage to deftroy the feals there, for the fake of their blubber. Their fkins, though very good in their kind, are to be had very cheap; and are, as far as I know, in requeft only among the boors for tobacco-pouches, for which they are extremely well calculated, as they keep the tobacco from growing dry. I brought home with me the ftuffed foetus of a phoca from the Cape. It is of the fame fpecies with those that I investigated together with Meffrs. FORSTER, and eat at New Zeeland, Terra Del Fuego, and the Southern Thule: When the train-oil was feparated, the flefh was really good and eatable, efpecially as in those places we could get nothing better : we imagined indeed, that it tafted like beef, but it must be owned that it had a difagreable black hue.

I have opened the inteffines of divers phoce, and always found them empty, excepting a little fand and fmall feashells, together with a few stones from the fize of a nut to that of an egg. The reason of this emptiness of the bowels may have been, either that these creatures have very ftrong digestive powers, To as fpeedily to diffolve the fea animals on which they probably live, or elfe, that during their dwelling and copulating on fhore, they abstain for a long time from all food whatever.

, Various forts of fea-fi/b are taken at the Cape and Fallebay. At the latter place they had just caught the electric ray-filb, (raia torpedo) but unluckily I chanced to be absent, while it was yet alive, and experiments were made VOL. I. with E

### A VOYAGE TO THE

1772. April, with it. Out of feveral that touched it, every one had felt (as it were) a flong electric flock, the refident only excepted; who could handle this fifh without the leaft inconvenience. Whether he was in like manner infenfible to ordinary electricity, he had never tried; but it was very likely that this was the cafe, particularly as we find an inftance in MUSSCHEN-BROEK'S Introduct. to Nat. Phil. §. 832, No. 3, of three perfons, who were found to be exempt from the operation of electricity, though the experiment was made on them more than once. I am befides acquainted with a certain man, who feems to poffefs a great antielectric power. From the refult of many experiments made with the torpedo, and related in the Philosophical Transactions for the years 1773, 74, 75, and 76, there appears to exift an incontrovertible analogy between electricity and the abovementioned fifh.

The cancer norvegicus, a kind of lobster, is often eaten in the Bay. A fort of fnail or cockle, klipkaus (Haliotis, LINN.) from half a foot to a foot and a half diameter, is ufually flewed, but in the is in my opinion a very unfavoury difh. The fame may be faid of the Jepia loligo, and the fepia octopodia, which are made into loup, and are known to our failors by the name of black-fi/b, and fea-cats, and to the English by the name of cuttle-fifth. A small kind of oyfter is likewife found in a particular spot in the Bay, and is kept by the governor for his own table. As to mufcles I faw but few of them; but in Table-bay, below the Lion-Mountain, they are found in areat abundance, and have a delicious taffe. The myxine glutinofa, was not eafy to be difcovered among the vermes; it is like an eel or a fnake I.

fnake with a flat tail. Its mouth was formed by an oblong opening under its nofe, not transverse, but longitudinal in the direction of its body, with double and moveable jaws well furnished with teeth. The bite of it is reported to occasion a disagreeable tumour, but not to be mortal.

Among the vegetables that I found in Bay-Falfo, the cunonia capenfis was almost the largest tree there, though barely twice or three times the height of a man. It grows near the water, and contains in its peculiar Aipal. bivalv. *fagittat.* a cream-like matter to appearance, but in fact a vifcid or gummy fubstance. Various fophore bloomed here towards the foring, and required a good foil: but on the sophora capensis, there was found in particular a new fort of vi/cum in great abundance. The antholysa athiopica grew from three to fix feet in height, with beautiful red flowers, being always found at no great diffance from the fhore, and chiefly in the fhade of other plants. I met with it afterwards in the woods near the Cape, particularly The antholyza maura \*, remarkable in the Houtniquas. for its flowers, half white and half black, I found on one fpot only of the mountain near one of the rivulets, that trickle down just before the flaughter-house. A very fmall triandrous plant (Aaminibus monadelphis) with comparatively large but beautiful yellow flowers, in the fine part of the day adorned a large plat of ground with its men blofforns, which however at other times were fo entirely closed, as almost to disappear. The calla æthiopica

\* This composes now a new genus, and is called by Dr. Thunberg the wittenia

delighted

delighted chiefly in moift places near the fea-fhore, and was in flower the whole winter. Proteas, ericas, cornuses, gnaphaliums, gnidias, cchias, phyllicas, brunias, and periplocas, two varieties of the myrica ccrifera, together with eliffortias, thefias, polygalas, bermannias and afters, were frewed promifcuoufly over the dry places on the declivity of the mountain. Among these fome restions feemed quartered on the bare fand, together with divers mc/embryanthemums. The byobanche fanguinea, a parafitic plant, towards fpring, began to throw out its blood-red tufts of flowers in the naked fand; an ofteo/permum or two, as well of the arboreous as herbaceous kind, were now and then likewife found in the bare fand. Arctotides, calendulas, and othonnas, throve chiefly in fandy places. On the mountain befides proteas, brunias, diofmas, ericas, and the stilbe, we found indigoforas, erinuses, selagos, manulias, chironias of different kinds, together with many gynan-We likewife found greens and kitchendrous plants. garden plants in great plenty at this inaufpicious time of the year. Towards fpring, divers forts of ixias, gladiolufes, moreas, oxalifes, mesembryanthemums, antirrhinums, and even various beautiful fmall irifes, feveral inches high, with the corolla partly white and partly blue, began to push out of the ground.

Of the partly known and partly quite new plants which we met with at this fpot, forme were rather uncommon, others again was not to be found again in the other <u>place</u>. I vifited in Africa. Every diffrict has always formething peculiar to itfelf: no wonder then, if Dr. THUNBERG and I fhould have paffed over various fpecimens of the vegetable

table tribe unnoticed, and the common faying, Semper aliquid novi ex Africa, fhould ftill hold good for many years to come. Botanifts, therefore, must not expect in this place a more accurate catalogue of plants, which would be too tedious a business; but content themselves with acquiring, en passant, as it were, and at a distance, by means of the preceding list, fome idea of the country, just as it is, covered with the herbs and trees most commonly found in it on different spots, and at different times of the year.

## SECT.

29

# SECT. III.

# Residence at Alphen near Constantia, till the Author's Trip to Paarl.



WHEN the winter was past, and the ships now preferred anchoring in Table-bay, I went with the refident to an eftate of his called Alphen, fituate in the neighbourhood of Conflantia, about three miles from it, and nearly half way between Table and Simon's-bay. Before we could get over the mountainous part of this road, we observed a troop of baboons very nimbly clambering up the fteep rocks, and fcouring away as fast as they could to fave themfelves from our hounds, which fet after them in full cry. On the plain before us we faw a large flock of flammingos (phanicopt. ruber) a fpecies of bird of the erane kind (grallæ) feeking their food in pools and puddles that were beginning to dry up. As they were larger than our cranes, and of a fnow-white colour, with their wings of a flaming rofy hue, it is eafy to imagine, what an agreeable appearance they made on the green field, clad in fo beautiful a livery. After this our road was over a fandy plain, a place that, during part of the winter, one is obliged to wade over, as it then lies under water. We then

then came to a field overgrown with a great many different forts of heath and other fhrubs and bufhes, with fome fmall trees of the protea kind. Part of the flowers and herbs that were fcattered among these shrubs, I found later than in Falle-bay; probably by reafon, that in this latter place they were brought forward partly by the vapours arifing from the fea, and partly by the fun-beams reflected upon the mountains. On the other hand, divers ixias, gladioluses, moreas, byacinths, cyphias, melanthias, albucas, oxalifes, asperugos, geraniums, monsonias, arctotises, calendulas, wachendorfias, and the arctopus-fome of them never, fome of them rarely feen in the Bay, were now found every where by the road-fide in their greatest beauty. The pleafure enjoyed by a botanist, who finds all at once fo rich a collection of unknown, rare, and beautiful vernal flowers, in fo unfrequented a part of the world, is eafier to be conceived than defcribed. I was now quite impatient to get to the end of my journey, however agreeable it was otherwife. At length we arrived at the refident's countryfeat, and I did not delay a moment to procure myfelf a ftill more delightful recreation, viz. that of walking out to reconnoitre fuch plants as were yet unknown to me.

The premises are very well built, and contiguous to them is a pretty extensive garden, and a confiderable vineyard, which increases yearly in fize. But there is hardly an acre of arable land to be found in the whole neighbourhood; nor did the owners of the vineyards here think it worth their while to trouble themfelves about the culture of it, but were then, viz. towards the end of the month of August, bufied in digging about their vineftocks,

32 1772. April.

flocks, and planting new. They never deftroy their vineplants; that is, they do not let them run up to any height, but cut them down low, and generally furround their vineyards and fruit-trees with hedges, in order to fhelter them the better from the wind. A fmall fpecies of *curculio* in particular, did infinite damage to the vine-buds, and the tender leaves. They were therefore very bufy in plucking this infect from the plant as foon as ever it appeared, and as foon as they could poffibly get at it; the only means yet known of preventing the ravages of this creature.

As fummer was now approaching, the exacum and the \* gentiana exacoides began to cover the ground with yellow patches; and many forts of fhrubs of the extensive genus of afpalathus, came out by degrees with their yellow blof-But the protea argentea, or the filver-tree, as it is foms. called, exhibited the whole year throughout its gloffy white, or filver gray leaves. This tree has at first a very uncommon, and indeed beautiful appearance. I am of opinion, however, that we fhould not chufe to change for it our delightful afpen-groves. The filver-tree fcarcely ever grows higher than twenty feet; and if I remember right, I have been informed, that they arrive at this height in twelve to fifteen years. But in a rich foil this tree grows twice as quick, and is the largest of all the protea kind. One or two of them are found planted near fome of the farms; but we feldom meet with any that have grown wild of them-. felves in these parts, though a little grove of them is feen

\* Now the febrea exacoides.

near

near Conflantia. For this reafon it has been fuppofed, that the filver-tree was transplanted hither from the beginning; yet no one has been able to inform me from what place it first came: probably it was brought from the borders of Anamagua; for I now travelled over the whole north-caft fide of Hottentots Holland, without finding it either in its wild ftate or planted. In the mean while, as it is the largeft of all the proteas, and indeed almost of all the trees indiginous at the Cape, it is remarkable, that together with fome others it has not attracted the attention of government to the planting of it, efpecially as they cannot be ignorant that the confumption of wood ftores, as well for the ule of the fhips as that of the town, daily increases faster than they can be fupplied by their refources. It is chiefly from the level ground near the fhore, that the company at prefent fetches its wood, which confifts chiefly of two finall and crooked forts of protea. That wood is dear at the Cape, may be concluded, from the circumftance of private perfons rather finding their account in getting it from the mountains by means of flaves; though it takes up one of these a whole day to get a moderate load of fhrubs and dry branches of trees, the value of which is generally the fourth part of a rixdollar. And indeed it is fo far fortunate for the Dutch in a place to bare of wood, that a fire is not wanted in this country, excepting for dreffing of victuals, lighting their pipes, and the women's ftoves.

Alphen, or the farm where I paffed this fummer, was on the fouthern fide of Table-Mountain, about a mile and a half from the foot of it. This mountain feems here, as well as at Table-Bay, level at the top, though there it

VOL. I.

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has confiderable inequalities. In the rainy feafon large pools of water are found upon it, but by no means any. lake, as fome pretend. When a cloud covers this range of mountains, and the north-weft wind blows, it fhould feem that this fame wind muft inevitably drive the cloud over the neighbouring plains on the other or fouth fide of thefe mountains, at the fame time caufing it to rain there; but on the contrary, the fact is, that it never does rain there; a circumftance that, without doubt, like all other natural phænomena, has its real and certain foundations The most probable folution that occurs to me in nature. is this, that the vapours, which are driven up from the fea by the north-weft wind, gather round the mountain in confequence of their being attracted by it, and there remain as long as they preferve any degree of rarefaction; but when at length they become more and more denfe and preffed together, fo as neceffarily rather to yield to the greater force of the wind than to the attractive power of the mountain, they are carried away too quick to fall in rain directly at the foot of the mountain; a circumftance that does not happen before they reach the other tide of Zout Rivier.

Having feveral times in my walks been, without any reafon, apprehenfive of being wetted through by the above-mentioned cloud, at length I refolved to afcend the mountain, in order to fee how things were fituated. The weather was at that time fine at the bottom of the mountain, and the wind pretty ftill; but at the upper edge of the mountain I met with feveral gufts of wind, which precipitated, as it were, down upon me, moift and cold, and with

with a fenfible violence. The temperature of the air, with which I was furrounded for about three quarters of an hour, varied according as the weather changed from fine to hazy, and from that to drizzling or downright rain. The barennefs of the mountain and the coldnefs of its air. together with the fmall number of plants upon it, and those flunted by the climate; nay, the rainy weather itfelf, all combined to form around me a backward autumn. From this fpot, however, I had an agreeable fummer prospect towards the bottom of the mountain, viz. the verdant plains lying round about it, enlightened and warmed by the genial rays of the fun. At the bottom of this range of hills there feemed to fhoot out many roundifh oblong ridges, pretty nearly of the fame form, and parallel to each other, and feparated by a like number of dales, at the bottom of feveral of which ran the water previoufly collected by the mountain, and deftined, as it were, to wa-A number of green trees and fhrubs, ter the plains. which had planted themfelves along the fides of thefe rills, formed a beautiful girdle on the declivity of the mountain, and on the hillocks projecting at the foot of Several neat compact farms fcattered up and down, it. the houfes belonging to which were white with black roofs, at the fame time that the grounds were laid out in a regular and judicious manner with verdant orchards and vinevards, lay diffinctly open to the eye in all their refpective ground-plots, forming a most natural as well as beautiful picture. Next to thefe, a little further on, were feen pale and bleak tracts of heath, among which were ftrewed, as it were, various plots of fand, together with fandy F 2

1772. April.

36

fandy roads winding about in a ferpentine form, and waggons and timber-tugs creeping along them with a fluggifh Thefe extensive plains were bounded by Tygermotion. mountain and the flores of Hottentots Holland. Next to thefe. but farther on, were feen other mountains, which, according to the diffance at which they were placed, grew more and more indiffinct, till they entirely difappeared in the clouds. From hence too, befides feveral pools of rainwater, a great part of the creek which forms Falle-bay, This, from its calmnefs and diffance, appeared was feen. at that juncture as fmooth as a looking-glafs; at the fame time that it was terminated by the ocean, or rather, according to the appearance it made in my eyes, by the horizon itfelf.

From the mift, or fog, which furrounded me on the mountain, I perceived at times fpecks of clouds fnatched off by the north-weft wind, and driving along with violence through the air both above and below the fpot I then flood upon, and directly followed by their fladows formed upon the fame plains. In a word, this extenfive and delightful fpectacle was as enchanting as it was Being not used to run any great rifks, I fingular. did not venture fo far out as I would have wifhed, in order to examine the top of Table-mountain on this fide: for, as it grew towards dark, I might have eafily loft my way, and fall a prey to leopards and hyænas, which frequent these parts in great numbers, and at night are very bold and daring. A little while before they had committed ravages in a farm yard just below the mountain: I likewife heard their howlings the fame evening about dufk.

dufk, from the very place where, two hours before, I had been botanizing. That very day, a broad day-light, I narrowly efcaped being plundered by a troop of flaves, that had fome time before run away from their mafters, and who were fufpected at that time to have their haunts about A fire that I found there newly extin-Table-mountain. guifhed, was probably fome of their reliques. Still, however, the beautiful profpect that I have just been defcribing, would perhaps have kept me longer on the mountain, if I had not begun to feel a kind of ftiffnefs and rheumatic pains in my limbs, owing to my having got into a cold air at the top of the mountain all in a fweat and too lightly clad. This probably would have had ferious confequences, if I had not accidentally wrought myfelf into a moft violent fweat; the fact was, that in my defcent, withing to examine fome of the clofest thickets on the fides of the rills, that trickle down the mountain, I went out of the right path, and got into a very thick over-grown coppice, fo that I could not without the greatest difficulty extricate myfelf from it.

Some time before this, or in the beginning of September, I rode to town to take leave of Dr. THUNBERG, who was going to take a long journey up the country, at the expence of the Dutch East-India company. I staid at his house rather late in the evening, which occasioned me in my way home to be caught in the dark and to mifs my way. I therefore rode up to a farm-houfe to enquire for the road, and from the information I got, thought to find my way home; but, it beginning to rain, and the darkness increasing, I took a byc-road, which led me

me to an elegant house, the property of a private gentle-After I had good out the attacks of a number of man. dogs, there came out a heap of flaves, from fixteen to These fellows were so malicious as not to answer twenty. me, though certainly fome of them understood me extremely well, and though, after having promifed them fomething to drink, I asked them the way in tolerable good Dutch; on the contrary, they conferred with each other in broken Portuguese or Malay, in fuch a manner, as to make me fufpect, that they had no better will towards me, than they have to others of a different nation from themfelves, who are accustomed to fell them here, after having partly by robbery and open violence, and partly in the way of bargain or purchase, got them from their native country, and thus eventually brought them to the grievous evils they then fuftained. Had the mafter of the house been at this time at home, of which however I much doubt, it would have made very little difference to me, as even in that cafeI could not have fpoken with him: for every body in this country is obliged to bolt the door of his chamber at night, and keep loaded fire-arms by him, for fear of the revengeful difpolition of his flaves. This being the cafe, it was fill eafier for them to murder me, and afterwards conceal the deed by burying my body, or drag it into a thicket to be devoured by wild beafts; I therefore took again to the road, in fearch of a better fate. To this end I gave my horse the bridle, in hopes that he would hit upon the right road better than myfelf. In confequence of this he made fuch use of his liberty, as to quit all the beaten tracks, perhaps with a view to find the fhorteft way home:

38

home: fo that I foon found myfelf in a heavy marfhy ground, overgrown with bufhes, and full of brooks and rivulets, till at length he made a fudden leap, on which we both tumbled head over heels into a pit, and parted. My horfe's fudden flight gave me reafon to fear, that fome wild beaft being near us was the occasion of it; for which reafon, not thinking myfelf over and above fecure, I immediately prepared to defend myfelf with a large knife, which I generally carried about me for the purpofe of digging up the roots of plants. The best step I could now take, was, like many more foot-paffengers, to make up to fome farm-yard, and run the rifk of being torn to pieces by great dogs, which are let loofe at night for the purpofe of keeping off thieves. To pass the night in the open air, at a time when the weather feemed fet in for rain, was as difagreeable as dangerous. In the mean time I took to walking about, to keep myfelf warm. In the fpace of a few minutes, after I had gone over a little hill, I found myfelf near a farm-houfe. It being dark, I was obliged to confider fome time before I could know it again to be my own house. I found my horse already at the stable-door, standing quite still and quiet, and was lucky enough into the bargain, to be able to conceal the whole adventure from the family, as the particular footing on which I was at that time required.

Constantia is a district confisting of two farms, which produce the well-known wine fo much prized in Europe, and known by the name of Cape, or Constantia-wine. This place is fituated at the diftance of a mile and a half from Alphen, in a bending formed by, and nearly under the ridge 2

#### VOYAGE A TO THE

ridge of hills, which comes from Meuisen-mountain, and iuft where it ftrikes off towards Hout-bay. One of these farms is called Little Conftantia. Here the white Conftan-The other produces the red. Accordtia wine is made. ing to M. DE LA CAIL's account, not more than fixty *hegars* of red, and ninety of the white Constantia wine are made, each figgar being reckoned at fix hundred French pints, or about one hundred and fifty Swedifh cans; fo that the whole produce amounts to twenty-two thousand five hundred cans. As the company are used to keep one third of this for themfelves, the remainder is always befpoke by the Europeans long before it is made. At the Cape this wine is feldom feen at table, partly becaufe it is dear, and partly becaufe it is the produce of the country. The red Conftantia wine fells for about fixty rixdollars the half awin; but the white is ufually to be purchased at a more reafonable rate: otherwife the price of the common white wine at the Cape is from ten to feventy rixdollars the figgar, according to the year's growth and the demand that is for it. They make befides, in the environs of the Cape, Burgundy, Madeira, Moselle, Muscadel wines, to called from fome analogy they bear to the European wines of the fame name, as well as from the respective places in Europe whence the vine-flocks were first brought. These wines are at a proportionably higher price than the ordinary white. As the Cape wines, in confequence of the great demand from the fhips, have all a quick fale, they are feldom to be found of any age; otherwife by longer keeping, together with better care, and a lefs liberal use of fulphur, they would doubtlefs be equally good with the best European wines.

40

The genuine Conftantia wine is undeniably a very wines. racy and delicate defert wine, and has fomething peculiarly agreeable in the flavour of it. That its fuperiority is not owing to any thing peculiar in the manner of preparing it, I am fully convinced; for then, without doubt. a great deal more of it would be made. But the fact is. that the genuine wine can only be produced by certain particular foils. The diffricts that lie next to thefe yield merely the common Cape wine, notwithstanding that they have been planted with vine-flocks taken from this, as well as with fome brought from the banks of the Rhine, whence it is fuppofed that the true Conftantia fort originally comes; nay, even though all the vinevards about Conftantia feem to have the fame foil. We have inftances at the Cape, as well as in Europe, that good grapes fometimes produce a bad wine; while, on the other hand, bad grapes will yield a good fort of wine: therefore, towards making wine of a certain quality, befides finer materials, there must be certain conditions and circumstances, which, by a diligent and rational inveftigation, might probably be explored to the great benefit of mankind.

Such as are apprized in what quantities Conftantia wine is confumed in Europe, have perhaps already remarked, that my calculation of the produce of the above-mentioned wine is too limited. This, however, is by no means the cafe; the overplus being the produce of avarice, which, goaded on by the defire of gain, will always hit. upon fome method of fatisfying the demands of luxury and fenfuality. The votaries of thefe, accustomed to be put off with empty founds, do not feldom drink with the

VOL. I.

G

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higheft relifh, an imaginary Conflantia, with which, however, this liquor has nothing in common befides the mere It is therefore adviseable, even at the Cape itfelf, name. to take care, that whilft one has a genuine fample given one to taste, one is not made to pay for a made-up red Conftantia, which otherwife is in general fold for half the When a wine of this kind has been (as it ufually price. is) meliorated by a voyage, and at the fame time chriftened with the pompous name of genuine Constantia, of which it has indeed in fome measure the flavour, it eafily fells for fuch in Europe.

This fummer likewife I visited Hout-bay. The direct road to it goes through a narrow vale, from which the harbour is fupplied with fresh water, by means of a little river or stream covered with palmites, a kind of acorus with a thick ftem and broad leaves; which grow out from the top, as they do in the palm-tree, a circumstance from which the plant takes its name. These palmites are found in great abundance in most rivers and streams, which they block up more or lefs by means of their ftems and roots intertwining with each other. On the other hand, this fame Hout-bay has very little title to the name it bears; as, in direct contradiction to the fignification of it, there is and feems ever to have been, a great deficiency of timber and brufhwood in that place. Confidered as a harbour, this bay feemed to me to be extremely narrow, and at the fame time too open to the fouth wind. The anchorage, however, was good ; at leaft, I was fo informed by two fifthermen I met with there. A heap of fand is driven up by the fea to the farthest part of the bay, and there

1772. April.

3

there appeared to form a fhoal of a confiderable extent, by which means the river above-mentioned is not a little blocked up. This fand was at that time very loofe at many places, fo that one could not walk upon it without danger of being drowned in the water that lay under it. In time, perhaps, the apertures will be entirely filled up, fo as to become folid. A nook in a mountain on the weft fide of the bottom of the bay is entirely covered with fand, which probably has been carried up from the ftrand by the violence of the wind from the fea. The east fide is compofed of a steep mountain, which reaches to the brink of the water, while the western shore is very much covered with large loofe granites. There are, neverthelefs, very good landing-places here for boats. In other respects the harbour is inconvenient, as well in respect to the gufts of wind that come from the mountains, as from the want of a convenient watering-place, and a wind to carry the thips out to fea.

A farm with plantations of vines lay a few ftones throw higher up in the vale. The owner, a European, was the only one in Africa who had fenfe enough to make use of affes; being of opinion, that as they were more ferviceable in hilly countries as beafts of burden, and at the fame time their food, confishing of thrubs and the coarfer kinds of grafs, was cafter to be procured, they were better adapted to that part of the world than horfes. I had here a hafty glimpse of a little black quadruped, in shape approaching nearest to the otter, which ran and hid itself in a heap of ftones.

The

1772. April.

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The game here, and in the country about Conftantia, confifts chiefly of fmall antilopes, as in Falje-bay, viz. of Acenbocks, the antilope grimmia of PALLAS, and of Klipspringers, which, however, I have not had an opportunity of examining near; likewife of diving goats, fo called from a peculiar manner they have of leaping and diving, as it were, under the bushes. The method of hunting thefe fmall antilopes is to drive them from their cover among the bufhes, which is beft done by hounds; at which time the fportfman must take care to be ready with his gun. They are likewife caught with fnares placed at the entrance into vineyards and kitchen-gardens. Thefe fnares are fastened to the top of an elastic branch or bough of a tree, one end of which is made quite fast in the earth, and the other being bent downwards, is attached very flightly to a board, which is laid on the ground, and covered a little with earth." It is farther fo contrived, that when the animal treads on the board, this gives a little fwing, upon which the elaftic bough flies loofe, and draws the fnare over one or two of the animal's legs, at the fame time lifting the creature up along with it into the air, fo that it remains hanging there. Among other animals I faw here icbneumons (viverra icbneumon) and civet cats (viverra genetta) caught in traps near farm-houfes. They were fomething bigger than a common cat, and have a bad name with housewifes for making great havock among the poultry and eggs; though, on the other hand, they do a great deal of fervice by deftroying the larger kind of rats. In the more general occonomy of nature, these animals are ftill more ferviceable; more fo indeed than the people at the

44