### Some observations relative to the climate and diseases of Sierra Leone / by Thomas Masterman Winterbottom.

#### **Contributors**

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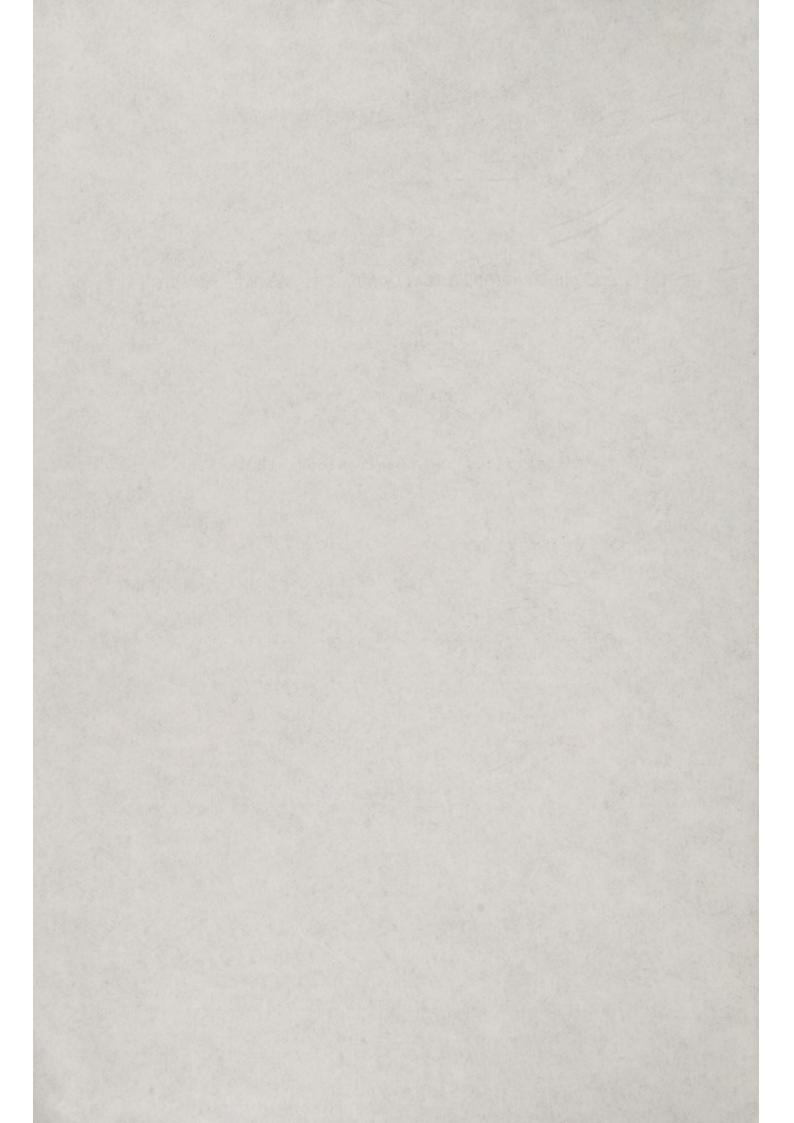


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## SOME OBSERVATIONS RELATIVE TO THE CLIMATE AND DISEASES OF SIERRE LEONE.

T.M.WINTERBOTTOM,

Medical Facts and Observations, 1800, 8.



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V. Some Observations relative to the Climate and Diseases of Sierra Leone. By Thomas Masterman Winterbottom, M. D. of South Shields, Durham; late Physician to the Settlement at Sierra Leone. Communicated in a Letter to Robert Willan, M. D. Physician in London; and by him to Dr. Simmons.

THE Settlement of Free Town, Sierra Leone,\* lies in 8° 30′ lat. N. and in long. 12° W. upon the banks of the large river Sierra Leone, or as it has been called by

\* Sierra Leone has been supposed by some to receive its name from the lions with which it was infested; and by others from the tremendous roaring which the thunder makes in its mountains. Neither of these opinions however appear to be well sounded; it may even admit



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V. Sees Objections relative to the Climate
and Difference of Surra Lease. By Thomas
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a Sierra Leane has been formed by force to receive
its nome from the bone with which it was infelled, and
by others from the tremendors rearing which the thusder maker in its mountains. Hender of their opinions
however appear to be well formded; it may even substi-

by old geographers, the river Tagrin, or Mitomba, about five miles from the mouth of the river. The land about the fettlement, when viewed from the fea, or from the oppofite shore, called Bullom, appears like a number of hills, heaped one upon another, in a very irregular manner. On a nearer approach, the face of the country becomes more beautiful; the hills are covered to their very fummits with lofty trees; and the lower grounds, which are cultivated, preferve, by means of the heavy dews which fall, a lively verdure the whole year round, which forms a ftriking contrast with the darker hues of the more diffant hills. The entrance of the river is formed by two projecting points, one on the N. W. extremity of the Bullom shore, improperly called Leopard's Island, from its refembling an island when viewed at a distance, though it is actually connected with the main

of doubt if a lion was ever seen there, as the natives have no knowledge of the animal. I am rather inclined to think it owes its name either to the discoverer or to some person who resided there, and that it was called Bierra de Leon, or Leon's Mountain. This is rendered the more probable, as we find many parts of this coast still retain the names of the first Portuguese discoverers.

land:

wittomba, about five miles from the month of the river. The land about the fettlement, when viewed from the fend about the fettlement, when viewed from the fea, or from the opposite floore, called Bullom, appears like a number of hills, heaped one upon another, in a wery irregular manner. On a nearer approach, the face of the country becomes more beautiful; the hills are covered to their very funnits with lofty trees; and the lower grounds, which are cultivated, preferve, by redure the whole year round, which forms a firlking contralt with the darker hues of the more diffant hills. The entrance of the river more diffant hills. The entrance of the river fembling an illand when viewed at a diffance, here's called Leopard's Island, from its retheapth it is actually connected with the main fembling an illand when viewed at a diffance, improperly called Leopard's Island, from its retheapth it is actually connected with the main

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land: the other, the S. W. extremity of Sierra Leone, is a low neck of land running out into the fea, called Cape Sierra Leone, and in ancient charts, Cape Ledo, or Cape Tagrin; fometimes also it is called the True Cape, to distinguish it from a head land about fix or feven miles to the S. called the False Cape, from its being frequently mistaken for the other. distance from Leopard's Island to Cape Sierra Leone, is about twelve miles; the river forms on the fouth fide feveral fine bays in its courfe from Cape Sierra Leone, which all open to the N. W.; and on the S. E. fide of one of thefe, called St. George's Bay (or Baie de France, by French Navigators) the fettlement is fituated. The breadth of the river decreafes gradually till it reaches St. George's Bay, from whence to the nearest part of the Bullom thore, it does not exceed fix or feven miles. After paffing the fettlement, the river continues to form on its fouth fide feveral bays; at the bottom of one of which, about two miles up, called Foro Bay, is fituated Granville Town, a fettlement under the jurisdiction of the Sierra Leone Company, formed by the free blacks fent from England in 1787. The river preferves nearly the fame breadth

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breadth as at Free Town, for a confiderable distance higher up, until about twenty miles above the fettlement, beyond which it is navigable only by veffels of a fmall draught of water, it divides into two large branches, called Porto Logo and Bokell rivers, and into a fmaller one, which from running into the Bullom country, is called the Bullom river.\* The high land, from which the True Cape projects, is continued in a chain of hills which runs to the S. as far as Cape Schelling, forming part of the entrance of the great river Sher-From Cape Sierra Leone the hills, bro. which are a continuation of the chain running to the fouth, run nearly in a W. N. W. and E. S. E. direction, becoming gradually higher, to that part of them which bears about fouth from the Island of Gambia, from whence they feem gradually to decrease in height. echo which these hills return when a gun is fired, and the rumbling noise produced among them by thunder is very great, and has been noticed by all voyagers. From hence, they

<sup>\*</sup> The tide of the river Sierra Leone rifes about twelve feet at fpring tides; during the rainy feason it is very rapid, and flows about four or five miles an hour. It is high water at eight o'clock at full and change.

\* The tide of the river Sleggs Leane rifes about trealway feel at figuring tides; during the miny feelon it is very rapid, and flows about four or five miles an hour. It is treal water at eight a clock at full and change.

were called, by the Portuguese, montes claros. The river, from Gambia, takes a northern direction; but it sends out a branch to the E. S. E. called Bunch River, in the mouth of which Gambia Island is situated; this branch, however, does not run any great distance, before it divides, and is lost in small creeks.

Gambia was formerly a flave factory occupied by the French, but now deferted; it is an island of considerable extent, situated about feven or eight miles above Free Town. The land is pretty high, but the shore is covered with mangroves and ooze; its fituation also in a kind of bay, half furrounded by very high hills, renders it extremely hot, and it has always proved very unhealthy, having on all fides of it woods and fwamps. From Gambia, porthwards, the river Sierra Leona becomes interfected with a number of islands, most of which are fmall, and many entirely overgrown with mangroves, and overflown by the tide; fome, however, are of confiderable extent, as the island of Robanna, upon which there is a fmall town of the natives, besides a few straggling houses, built to guard their rice grounds; the land is low, fwampy, and very much infested with musquitoes. The islands of Tasso and Masabump, are the next

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in point of fize, and upon the latter are three or four towns belonging to the natives. foil of Taffo is rich, and the appearance of the: whole island extremely picturesque, but the land is low, and the fliore is nearly furrounded with impenetrable mangroves; it has befides, feveral fwamps in it of confiderable extent, which render it very fickly; at prefent it is almost uninhabited and uncultivated. To the northward of Taffo is Bance Island, about eighteen miles from Free Town, upon which the Mesfirs. Andersons, of London, have established a flave factory; this is only a finall and barren island, confiderably elevated, and of a dry gravelly foil; from its fituation, however, it is rendered extremely unhealthy: For being placed as it were in the midft of an archipelago of low marshy islands, the breeze, from whatever quarter they receive it, is impregnated with moisture, and marsh effluvia, from the fwamps which it passes over. These causes render the air not only less falubrious, butlikewife hotter; and the thermometer generally fiands four or five degrees higher there than at Free Town. The inhabitants are supplied with water from a well upon the island, but the water is fo bad, that during the rainy feafon, they

they prefer drinking the river water, taken when the tide is low. In the dry feafon, the river is falt feveral miles above Bance Island.

The Bullom shore, so called from a word in the language fignifying low land, runs in a S. E. direction from Leopard's Island to its eafternmost point, called Tagrin point, from whence it runs almost north. The land, though low when compared to the high land of Sierra Leone, is pretty high when compared with the height of the coast in general, particularly from the river Sherbro' fouthward as far as Cape Palmas; Cape Mount, and Cape Monferado excepted, both which are high lands. The aspect of the country of Bullom is extremely beautiful; the land being finely shaded by a variety of lofty spreading trees, and, in general, open and free from underwood: the foil is very fertile, free from fwamps; and the shore is bordered by a fine fandy beach.

The shore of Sierra Leone, from the Cape to within a mile or two of Gambia, is very rugged, being chiefly composed of rocks which abound in iron, and which lie upon a fandy bottom. Excepting in some of the small creeks, which proceed from the bottoms of one or two of the

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Excepting in fome of the finall creeks, which preced from the bottoms of one or two of the doubt

bays near the Cape, the shore is quite free from mangroves and ooze.

Free Town is seated upon a piece of ground which rises very abruptly from the water's edge, above which it is elevated at least fifty feet; from thence it rises in a gradual and almost imperceptible manner, till it reaches the foot of the hills which run behind the town, leaving a space of about three quarters of a mile from the bottom of the hills to the water's edge. The hills at this part are supposed to be elevated about fix hundred feet above the surface of the water.\*

The town is bounded on the N. W. by St. George's Bay, on the E. by another small bay, and on the S. by the chain of hills abovementioned. The soil is of an argillaceous

water, which is supposed to be superior to any upon the coast, and on that account has always been much resorted to by ships. Free Town is well supplied from several small springs which issue from crevices of the rocks. On each side of the town, the water runs in a considerable stream, and discharges itself into the bottom of two small bays, which in the rainy season are so much increased, as to form small cascades. The water when viewed in a glass is perfectly transparent, sparkling, and void of smell or taste.

bays near the Cape, the floore is quite free

Free Town is feated upon a piece of ground which rifes very abruptly from the water's edge, above which it is slevated at leaft fifty feet; from thence it rifes in a gradual and simoli imperceptible manner, till it reaches the foot of the hills which run behind the town, leaving a space of about three quarters of a mile from the bottom of the hills at this part are supposed to be elevated about fix hundred feet above the further of the water's edge. The hills at this part are supposed to be elevated about fix hundred feet above the further of the water.

The town is bounded on the M. W. by Sr. George's Bay, on the E. by another finall bay, and on the S. by the chain of hills above mentioned. The foil is of an argillaceous

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nature, mixed with fand, and here and there interspersed with rocks; in some parts it is of a very deep red colour. The fituation is very dry, incommoded by no fwamps in its neighbourhood, and is fcarcely troubled with mufquitoes. The town extends 2300 feet in front, and nearly the fame in depth, though this is increasing; it is laid out in regular streets, of which nine run in a straight line from the shore, and at right angles with it, towards the hills; these are intersected at right angles by four other ftreets, running parallel to the shore. Each street is 80 feet in breadth, except the ftreet next the water, which is double the breadth of the others. Every house in the street stands separate, 48 feet of ground by 76 being allotted for each family to build upon. The houses are comfortable thatched buildings, confifting of a fingle flory, the walls of which are about 8 or 10 feet high, composed of wattles, unplastered, but commonly lined on the infide with mats, which renders them cool and pleafant, and preferves a free ventilation. The floors are chiefly composed of clay, mixed with lime and fand, and beat very hard upon a bottom of dry gravel or rubbish; which preferves them tolerably dry.

Many of the inhabitants have already built themselves wooden houses, with boarded floors, entirely composed of country wood, which is very well adapted for fuch purposes; these houses are raised two or three feet from the ground, and as they are becoming more and more common, it is probable, after another rainy feafon, that this practice will generally The fire, for culinary purposes, is prevail. made, during the dry feafon, generally without doors, but in the rainy feafon it is made within on the midft of the floor, the smoke finding a passage through the doors and windows. The fmall fettlement of Granville Town contains about an hundred inhabitants; the town is laid out upon the same plan as that of Free Town, and the houses are built in the same manner: its fituation is dry, free from the neighbouring fwamps, and is rather more elevated than the scite of Free Town. This place is much infested during the rainy season with musquitoes, and as the inhabitants of Granville Town have fcarcely fuffered any thing from difeafe for two years past, it shews that those infects are not, according to Dr. Lind's opinion, to be confidered as certain figns of an unhealthy country. Further, it may be remarked, that the fettlement Vol. VIII.

of Port Jackson in New South Wales, which is said to be one of the healthiest climates in the world, is very much infested with these troublesome infects

The inhabitants of Free Town amount to about twelve hundred; in general they are very industrious, without being addicted to spirituous liquors, and live much after the European manner.

Stock of all kinds thrives well in the colony, particularly fowls, ducks, pigs and goats. Among the wild animals met with in in the woods, the flintombo, a species of antelope, is most common; the flesh is very good and well tasted: wild hogs are also pretty common, and have been killed; their slesh is excellent, and preferred by many to that of the domestic kind: buffaloes also have been killed, but they are not often met with; and except when they are young, the slesh is tough and not well tasted.

The river abounds with a variety of excellent fish, which form a considerable part of the diet of the inhabitants; oysters are picked from the rocks and from the stems of the mangrove trees in great numbers. Turtle are likewise of Fort jackion in New South Wales, which is faid to be one of the healthieft climates in the world, is very much infelled with thefe trouble-force infelle.

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very common, the hawksbill turtle is the most fo, but the green turtle is also frequently met with.

Rice, which is the chief vegetable production of this country, forms a large proportion of the food of the natives and of our fettlers; it is almost peculiar to this rice to grow upon dry grounds, and even upon the fides of hills; it is of a red -dish colour when cleaned, and is esteemed very wholesome and nutritious. Jatropha Janipha, or fweet cassada, is another vegetable which grows herein great abundance; the root, when ground into flour, is often made into thin cakes by the fettlers, which are light and palatable; like the fweet cassada of the West Indies,\* it is perfectly harmless, and requires no previous preparation, except boiling or roafting, to render it fit to eat, though it is often eaten raw and taftes much like a chefnut: yams fucceed very well also, though they were not found here in any quantity till introduced by our fettlers. Maize or Indian corn, eddoes, plantains, fweet

<sup>\*</sup> There are two kinds of cassade in the West Indies, one called the bitter, which is noxious, and the other called the sweet, in every respect resembling that found at Sierra Leone.

[ 19 ]

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potatoes, other, ground nuts, and various kinds of pulse, are produced here in great abundance.

Among the fruits, pine apples, oranges, limes, papayas, bananas, and a species of yellow plumb, with a grateful subacid taste, are very plentiful. The guayaver and acajou, or cashew, grow here, but are not plentiful; water melons have been introduced and succeed very well; the wild vines, though extremely luxuriant, have an unpleasant acerb taste.

In a former paper \* I gave a short account of the weather at Sierra Leone, during the seafon in which intermittents are most prevalent; I shall now, from a meteorological Journal, which I kept at Sierra Leone during the whole of the year 1793, give a general view of the weather in each month. But before I do this, it may be proper to notice, though in a cursory manner, the most usual course of the seasons. The year, as in other tropical climates, may be divided with propriety into the dry and rainy seasons. The division into healthy and sickly seasons, which

potatoes, other, ground nuts, and various kinds of pulle, are produced here in great abundance. Among the fruits, pine apples, oranges, himes, papayas, bananus, and a species of yellow plumb, with a grateful subscied taste, are yellow plentiful. The guayaver and acajou, or easinew, grow here, but are not plentiful; water melons have been introduced and succeed wery well; the wild vines, though extremely the well the wild vines, though extremely

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" See Val. VI. page a.

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holds in many tropical countries, as well as in many parts of Africa, cannot be observed here, as sickness does not appear confined to any particular time of the year. The rainy season may be considered as beginning in May, and terminating about the middle of September. The approach of the rains is usually gradual, being ushered in by tornadoes; they likewise decline gradually, and are carried off by tornadoes. It may be observed that the tornadoes, which precede the rains, are, in general, less regular and also less frequent than those which carry them off.

From November to May may be called the dry feason, though showers of rain do sometimes occur during these months independently of what falls in tornadoes. Tornadoes are sudden, and violent squalls of wind, which almost always come from the east; a sew instances, however, have occurred of tornadoes from another quarter, but these are very rare. The squall seldom lasts above half an hour, and is generally attended with, or sollowed by smart rain, accompanied with thunder and lightning: exceptions to this do occur, though rarely; a tornado sometimes not being accompanied with rain, and at other times

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with little or no thunder. The approach of a tornado is always indicated by dense black clouds, gathering in the east, which gradually increase until a considerable part of the sky is darkened; at the same time, faint lightnings slash in the horizon, and rumbling thunder is heard at longer or shorter intervals. It is either calm a considerable time before the tornado comes on, or if there be a breeze, as the tornado comes on, it instantly slies round to the E.

According to a vulgar opinion, tornadoes can occur only at high or low water; a little attention, however, would foon have shewn the error of it; they come on at all times of tide, but are most frequent during the night, or early in the morning.

The atmosphere at Sierra Leone is generally so obscured by clouds or haze, or both, that it is very rare to see even part of a day attended with a clear sky; insomuch so, that it is an observation made by many who have, been long upon the coast, though it more particularly applies to the coast to leeward of Cape Palmas, that it is a rare thing to see the sun rise in Africa. This thickness of the atmosphere

with little or no thunder. The approach of a tornado is always indicated by denie black clouds, gathering in the east, which gradually increase until a considerable part of the sky is darkened; at the sum time, thint lightnings shash in the foreign, and rumbling thunder is heard at longer or morter intervals. It is either calm a considerable time before the tornado comes on, or if there he a breeze, as the tornado comes on, it infantly slies round to the E.

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atmosphere serves as a veil to temper the scorching rays of the sun. The hottest part of the day is generally about half past two, or three in the asternoon; and the coolest part of the day is between five and six in the morning.

In the following Table is prefented at one view, the highest, lowest, and medium States of the Thermometer, Hygrometer, and Barometer, during each Month, and during the whole Year. The Number of rainy Days which occurred during each Month, and in the whole Year, is likewise noted, with the Quantity of Rain which fell in each Month, and the Number of Tornadoes. The Rain attending Tornadoes is not included among the Number of rainy Days; but the whole Quantity is noted.

Month	Thermemeter			Hygrometer				Baromet	F	Tern		
	hig.	low.	med	hig.	low.	med.	higheft	lowest	medium	Days	Quant.	adoes
Jan.	89	741	811				30,066	29,810	29,938	1	0,73	
Feb.	88	75	812	591	512	55\$	30,018	29,831	29,924	3	0,30	1
March	95	74	842	55½	48 1	52	29,976	21,888	29,932	2	1,12	1
April	95	74	841	562	50	53%	30,016	29,813	29,914	3	1,61	
May	92	71	811	61	461	53%				11	6,90	1:
June	88	71	791	551	55	60%			T.	25	10,16	2
July	85	73	79	691	59½	644				30	10,32	,
August	86	72	79	661	58	62%				29	23,14	c
Sept.	85	71	78	66	58	62	30,068	29,934	30,001	26	19,90	4
O&.	89	711	801	623	521	578	30,090	29,980	30,035	17	9,08	15
Nov.	914	723	82	57 ½	51	542	30,052	29,852	29,952	. 4	1,85	5
Dec.	90	72 4	81 1	574	464	52	37,060	29,842	29,951	3	1,17	1
Whole Year.	95	7 T	83	691	461	57%	30,090	29,810	29,950	154	86,28	53

atmosphere ferves as a well to temper the feorching rays of the fun. The hottest part of the day is generally about half past two, or three in the afternoon; and the coolest part of the day is between five and fix in the morning.

In the following Tanue is prefeated at one view, the highed lowest, and medium States of the Thermometer, Hygrometer, and Barometer, during bach Month, and during the whole Year. The the whole Year, is likewise noted, with the Quantity of Rain which fell in each Month, and she which fell in each Month, and she Namber of Tomadora. The Rain attending Turasdora is not included among the Namber of rainy Days, but the whole County is noted.

January.—The weather during this month, was in general close and fultry, especially during the evenings and mornings; but this was abated during the middle of the day, by the sea breeze, which commonly blew pretty fresh. The atmosphere was usually much obscured by haze and clouds.

The N. and E. were the most prevailing winds. A tornado occurred on the 3d, and much heavy rain fell on the morning of the 4th. There was much thunder and lightning on the 8th.

The 8th, 11th, 12th, 16th, 28th, 29th, 30th, and 31ft days were remarkably foggy.

February.—The temperature of the air, though little different in absolute heat from that of the preceding month, was rendered more agreeable to the feelings, by the fresh breezes which prevailed during the greatest part of this month.

The 1st, 13th, 14th, 21st, 22d, and 28th, were very foggy days. On the 13th, 22d, and 23d, there were slight showers. A smart tornado occurred in the night of the 21st. The most prevailing winds during this month were from the N. and W.

Yearney.—The weather during this month, was in general close and failty, especially during the evenings and mornings; but this was abated during the middle of the day, by the first breeze, which commonly blew pretty fresh. The atmosphere was usually much obscured by have and clouds.

The K and E were the most prevailing winds. A toroado occurred on the 3d, and much heavy rain fell on the morning of the 4th. There was much thunder and highling

The Stir, 11th, 12th, 16th, 28th, 29th,

February.—The temperature of the elr, though little different in ablolute heat from that of the preceding month, was rendered more agreeable to the feelings, by the fresh breezes which prevailed during the greatest

The 1ft, 13th, 14th, 21ft, 22d, and 25th, were very foggy days. On the 13th, 22d, and 25th, 22d, and 23d, there were flight flowers. A finant termed occurred in the night of the 21ft. The most prevailing winds during this month were from the N. 2nd W.

Marrah

March.—Notwithstanding the thermometer for the most part ranged pretty high in this month, the temperature of the air was not unpleasant. The sea and land breezes most commonly blew pretty fresh, and succeeded each other with great regularity. In the mornings, however, during the interval between the blowing of the land and sea breezes, it was often close and sultry, though the breeze seldom set in later than half past eight or nine.

On the 7th a flight shower sell. On the 8th there sell smart rain during the night. On the 13th, 26th, 27th, and 31st, there were tornadoes. There was thunder and lightning on the 7th, 8th, 9th, 10th, 13th, 26th, and 29th.

The 13th, 14th, 20th, 29th, 30th, and 31ft days were remarkably foggy: the only entire days in which the heat felt unpleasant, were the 18th and 19th.

April.—Though the range of the thermometer was pretty high this month, the heat was in general temperate and agreeable, the mornings being usually the only part of the day which felt fultry, though this was of short continuance, as the sea breeze generally sprung up about nine A. M. The breeze, towards evening,

Alerth Sawithdanding the thermometer for the month, the temperature of the air was not unpleadent. The fea and land breezes most compleadent. The fea and land breezes most compleadent, the fea and land breezes most complete with great regularity. In the mornings, solver with great regularity. In the mornings, however, during the interval between the blowing of the land and fea breezes, it was often close and fultry, though the breeze felton of in later than half pass eight or nine, done fet in later than half pass eight or nine. On the this there fell smart rain during the night. On the sib there fell smart rain during the night. On the madoes. There was thunder and lightning on the 15th, 5th, 9th, 10th, 10th, 20th, and 31st, there were torcadoes. There was thunder and lightning on the 15th, 5th, 9th, 10th, 20th, and 31st days were remarkably foggy: the only entire days in which the heat fell unpleadent, were days in which the heat fell unpleadent, were the state and to the last the unpleadent, were

April.—Though the range of the thermometer was pretty high this month, the beat
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mornings being ufually the only part of the
day which felt fultry, though this was of fhort
confiquence, as the ira breeze generally forung
up about sape A. M. The breeze, towards
up about sape A. M. The breeze, towards

evening, fometimes became less, or settled in a calm, which made the air seel close and rather unpleasant. The atmosphere was generally hazy, and frequently obscured with heavy clouds, as if threatening rain.

On the 4th, 20th, and 24th, a flight shower occurred each day. A tornado occurred on the 16th, and 18th, but without being sollowed by thunder, lightning or rain. A smart tornado occurred on the 23d, with thunder, lightning, and heavy rain. On the 6th, 7th, 8th, 29th, and 30th days, there was thunder and lightning.

May.—This month was more sultry and close than the preceding one, though the thermometer did not rise so high in the present. The most prevailing winds were from the W. and E. but they seldom blew fresh for any length of time. The 7th, 24th, and 29th were attended with heavy rain. On the 9th, 10th, 11th, 19th, 23d, and 25th, slight showers fell. Smart showers occurred on the 16th and 21st.

Tornadoes appeared on the 8th, 12th, 13th, 14th, 15th, 16th, 17th, 19th, 21st, 25th, and 26th. There were two tornadoes on the 13th; the tornado on the 19th was from the sea.

Thunder

evening, fometimes became left, or fettled in a calm, which made the air feel close and rather unpleafant. The atmosphere was generally hary, and frequently obscured with heavy clouds, as if threatening rain.

On the 4th, 20th, and 24th, a flight shower occurred cach day. A tomsdo occurred on the 26th, and 18th, but without being followed by thunder, lightning or rain, A finant tornado occurred on the 23d, with thunder, lightning, and heavy rain. On the 6th, 7th, 8th, 20th, 20th, and 30th days, there was thunder and lightning.

May.—This month was more faltry and velofe than the preceding one, though the there momentar did not rife to high in the prefent.

The most prevailing winds were from the W. and E. but they feldom blew fresh for any length of time. The 7th, 24th, and 25th were attended with heavy rain. On the 9th, 25th, 15th, 15th, 15th, 15th, 25d, and 25th, flight showers occurred on the 16th and 25th.

Tornadoes appeared on the Sile, 12th, 13th, 14th, 15th, 15th, 15th, 15th, 15th, 15th, 21th, 21th, 25th, 25th, 25th, There were two tornadoes on the 13th; the tornado on the 15th was from the fea.

Thunder

Thunder and lightning occurred during some part of the 6th, 7th, 8th, 9th, 18th, 22d, 25th, 28th, 29th and 31st days. The atmosphere was in general very cloudy, hazy and overcast.

June .- The temperature of the air during this month, was in general fultry, feeling often close and stifling, particularly, when the fun made its appearance after a shower of rain had fallen, and at the fame time there had fallen little wind; though the heat indicated by the thermometer, was not fo great as in the preceding months. In the last month, which might be confidered as the forerunner of the rainy feafon, there were only eleven days of rain; in the present month there were twenty-five, of which the 2d, 6th, 10th, 12th, 13th, 14th, 16th, and 17th days were attended with only flight showers. On the 4th, 5th, 7th, 11th, 18th, 19th, 23d, 26th, 27th, 28th, and 20th days there fell fmart showers. On the 8th, 15th, 20th, 21st, 24th, and 30th days heavy rain fell. Thunder and lightning occurred during some part of the 1st, 2d, 3d, 6th, 7th, 10th, 11th, 12th, 13th, 14th, 18th, 21st, 24th, 26th, and 27th. A tornado occurred on the 4th, A. M. and on the 7th, P. M. The

Thunder and lightning occurred during fome part of the 6th, 7th, 8th, 9th, 18th, 22d, 25th, 28th, 25th, 25th, 25th, 25th, 25th, 25th and 31ft days. The 2tmoft phere was in general very cloudy, hizy and overcast.

The most prevailing winds were from the S. and W. quarters; the breeze being in general pretty fresh, during the middle of the day, but frequently becoming calm in the mornings and evenings.

July .- During the whole of this month, the atmosphere was thick and hazy, and frequently overcast with dense clouds. The temperature of the air, for the most part, was cool, but often feeling cold with a degree of rawnels; during the intervals of the flowers, however, when calm; or with only a light breeze, the air fometimes felt fultry and close. The most prevailing winds were from the S. and W. and generally with a pretty fresh breeze; there were thirty days of rain in the present month, the 27th being the only day in which no rain fell. The 1st, 4th, 7th, 8th, 10th, 11th, 12th, 15th, 17th, 18th, 19th, 20th, 24th, 26th, 29th, 30th, and 31st, were attended with smart showers of rain. On the 2d, 13th, 21ft, 22d, and 23d, only flight showers fell. On the 3d, 5th, 6th, 9th, 14th, 16th, 25th and 28th, there was heavy rain .- On the 3d, 6th, 8th, 10th, and 27th, thunder and lightning occurred

August.—The temperature of the air during the present month, was, for the most part cool, for times

The most prevailing winds were from the S. and W. quarters; the breeze being in general pretty fresh, during the middle of the day, but frequently becoming calm in the mornings and evenings.

fometimes chilly and raw. The atmosphere was usually obscured by clouds and haze. The S. was the most prevalent wind this month, and in general it blew pretty fresh. The number of rainy days in this month was twenty-nine, of which the 8th, 14th, 22d, 23d, and 31ft, were attended with only flight showers. On the 1st, 3d, 9th, 13th, 17th, 20th, and 25th, there were smart flowers of rain. The 2d, 4th, 5th, 6th, 7th, 10th, 11th, 12th, 15th, 16th, 18th, 19th, 26th, 27th, 28th, 29th, and 30th, were days in which heavy rain fell. The 21st and 24th were the only days in this month free from rain, and the 21st was the only day which could be faid to be pretty clear. There were no tornadoes, nor did any thunder or lightning occur in the present month. of the wines with a ried days off

September.—The temperature of the air during the prefent month, was rather agreeable than remarkable for either heat or chilliness. The atmosphere was frequently obscured with clouds and haze, and the tops of the hills behind the town, were covered with fog. There were twenty-fix rainy days in this month, of which the 3d, 4th, 8th, 9th, 11th, 13th, 14th, 16th, 17th, 20th, 26th, and 28th had smart showers. The 1st, 2d, 5th, 6th,

sementimes chility and raw. The atmosphere was ulically oblived by clouds and here. The S. was the most prevalent wind this month, and in general it blew pretty from. The number of rainy days in this month was twenty-nine, of which the Sth, rath, and, and 31h, were with only flight thowers. On the 1th, 3d, attended with only flight thowers. On the 1th, 3d, 4th, rath, rath, acth, and 2th, there were fined acth, rath, rath, as and 2th, there were fined acth, rath, rath, as and golls, were days in which heavy rain fell. The ask and eath were the coly days in this month tree from rain, and only days in this month tree from rain, and to be pretty clear. There were no tornadors, nor did any thunder or lightning occur in the greekent month.

September - The temperature of the air during the prefent month, was rather, agree-able than remarkable for either heat or chillingle. The atmosphere was frequently oblemed with clouds and haze, and the tops of the hills with clouds and haze, and the tops of the hills behind the town, were covered with fog. There were twenty-fix rainy days in this month, of which the 3d, 4th, 8th, 9th, 11th, and 38th and finant fluorers. The 1ft, 2d, 5th, cad 38th had finant fluorers. The 1ft, 2d, 5th, 6th, had finant fluorers. The 1ft, 2d, 5th, 6th, and 38th

7th, 10th, 12th, 15th, 21st, 22d, 24th, 25th, 29th, and 30th, were attended with heavy rain. There occurred tornadoes on the 23d, 28th, and 30th. On the 1st, 11th, 12th, 15th, 16th, 20th, 21st, 22d, 26th, 27th, and 28th there was thunder and lightning, during some part of the day.

October .- The rains, which during the three preceding months, had been very fevere. began to diminish considerably during the prefent one. The number of rainy days which occurred were only feventeen, of which the 3d, 4th, 5th, 13th, 14th, 16th, and 28th were attended only with flight showers. On the 18th, 23d, 24th, 30th, and 31ft, fmart flowers of rain fell. On the 2d, 6th, 10th, and 11th heavy rain fell. Tornadoes occurred on the 3d, 4th, 7th, 8th, 9th, 14th, 17th, 18th, 19th, 22d, 23d, 25th, 26th, and 31ft. On the 7th there were two tornadoes. On the 2d, 11th, 12th, 13th, 15th, 16th, 20th, 21ft, 29th, and 30th, there was thunder and lightning, during fome part of the day. The air was, in general, rendered cool and pleafant, by a moderate breeze; but those days on which the land breeze continued till near noon, it was often close and fultry during part of the afternoon, until

pile, roth, rath, rath, and, and, agin, agih, agth, and goth, were allended with heavy min. There occurred tornadoes on the agd, akih, and goth. On the rft, rath, rath, rath, agih, aoth, arft, agd, abih, agih, and each there was thunder and lightning, during fome part of the day.

preceding months, bad been very fevere, began to diminish considerably during the prefent one. The number of rainy days which fent one. The number of rainy days which fent one, the presenteen, of which the occurred were only feventeen, of which the 3d, 4th, 5th, 173th, 14th, 16th, 16th, and 28th were attended only with flight showers. On the 18th, 23d, 24th, 20th, and 31st, smart showers of sain fell. On the 2d, 6th, 12th, 20th, 2nd 11th, 2d, 4th, 7th, 8th, 9th, 14th, 17th, 18th, 19th, 18th, 2d, 4th, 16th, 2d, 15th, 2d, 16th, 2d, 15th, 2d, 16th, 2d, 15th, 2d, 16th, 2d, 15th, 2d, 16th, 2d,

until the fea breeze fet in, as the interval between the fea and land breezes is commonly greater at those times. The atmosphere was less gloomy than in the preceding months, though still hazy and often obscured by clouds.

November .- The range of the thermometer was higher in the present than in the five last months. The degree of moisture of the atmosphere alfo, as flewn by the hygrometer, was less than in the fame months. The most prevailing winds were from the N. and E. quarters. The heat, during the whole month, was fometimes not unpleasant, though fultry about noon. when the fea breeze fet in late. The number of rainy days in this month were only four. On the 1st and 30th flight showers fell. A fmart shower fell on the 2d, and on the 25th there was heavy rain. Thunder and lightning occurred on the 1st, 2d, 3d, 4th, 8th, 10th, 20th, 22d, 25th, and 29th. Tornadoes occurred on the 3d, 6th, 7th, 10th, 11th, 12th, 14th, tome pair printed .... 18th and 19th.

December.—This month, like all the preceding, was accompanied with great haziness of the atmosphere, and often with low heavy clouds. The 23d was remarkably foggy; the until the fea breeze fet in, as the interval the tween the fea and land breezes is community greater at those times. The atmosphere was left gloomy than this the preceding months, though fall bary, and isten observed

haze covering the Bullom shore, and extending near two thirds over the river. The 8th was very close and sultry; the thermometer, at eight A. M. rising to 85°. There were three rainy days in this month, the 2d, 27th, and 28th. A tornado occurred on the 1st, and faint lightnings were seen on the 26th and 27th.

The temperature of the air was, in general, cool and pleafant. The winds were rather variable this month; the east was most common in the mornings, and often continued till noon, or later. It continued to blow almost the whole of the 19th, 20th, and 21st days. About noon it usually came from the north quarter, and towards evening veered round to west. The breeze was, in general, moderate and pleafant.

Respecting the journal itself, from which these observations are extracted, it is divided into eleven columns; in which are noted, the day and hour, the height of the thermometer and barometer, the state of the hygrometer, the moon's age, the prevailing winds, the appearance of the sun, and the quantity of rain. The relative temperature of the air also, with respect to the feelings, is noticed. The observations

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Respecting the journal subst, from which these observations are extracted, it is divided into eleven columns; in which are noted, the day and hour, the height of the thermometer and harometer, the height of the bygroupeter, the moon's age, the prevailing winds, the appearance of the fun, and the quantity of rain ance of the feelings, and the air also, with respect to the feelings, is noticed. The observation

vations were made regularly four times a day, and as nearly as was convenient, at the fame hours. The greatest and least heights, also, of the thermometer, during the day, if differing much from the hour observed, is commonly noted.

The thermometer, constructed according to Fahrenheit's scale, was always exposed to the free air, in a large open passage, perfectly shaded from the rays of the sun. It was suspended about six feet from the ground, and preserved from the contact of surrounding bodies.

The height of the barometer is marked in inches and 1000 parts. This inftrument was kept in a large airy room, elevated about fixty feet above the furface of the water; the doors and windows of the room were generally kept open, but the heat of it was fometimes increased by the presence of numbers of people.

The hygrometer made use of was the whalebone one invented by Mons. de Luc, a plate of which instrument, with an accurate description, is given in the Philosophical Transactions, vol. lxxxi. page 420. The scale of this delicate instrument is divided into 100 equal parts, o being the point of extreme dryness, and 100 that of extreme wations were made regularly four times a day, and as nearly as was convenient, at the finne hours. The greatest and least heights, also, of the thermometer, during the day, if differing much from the hour observed, is commonly noted.

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extreme moisture. There were two of these instruments alternately used. One being kept close while the other was in use, they were compared from time to time, and after upwards of a year and half's use were not found to vary This instrument was contained in a box pierced with a number of fmall holes, and fuspended about ten feet from the ground, in a room fixty feet above the furface of the water, and in which the doors and windows were kept conftantly open during the day. It was placed out of a current of air, and though the box which contained it was pierced with holes, yet for greater certainty, the lid was kept open about two minutes before each observation.

The rain gage was placed in an open piece of ground, at a confiderable distance from trees, houses, &c. upon a stand about four feet high. The quantity of rain which fell between any two observations was in general noted, except when the shower was very slight, when it was left until more had fallen.\*

G 2 The

The figures in the column for the quantity, of rain denote that the quantity of rain fallen is equal to fo many of the divisions of the scale of the rain gage in depth. The division

extreme molfiure. There were two of these inframents alternately used. One being kept close while the other was in use, they were compared from time to time, and after upwards of a year and half's use were not found to vary of a year and half's use were not found to vary pierced with a number of finall holes, and fulpended about ten feet from the ground, in sufficiently feet above the fluitace of the water, and in which the doors and windows were kept confiantly open during the day, were kept confiantly open during the day, the hid though the box which contained it was pierced with holes, yet for greater certainty, the hid was kept open about two minutes before each was kept open about two minutes before each observation.

The rain gage was placed in an open piece of ground, at a confiderable diffance from trees, houses, fact upon a fiand about four feet high. The quantity of rain which fell between any two observations was in general noted, except when the shower was very slight, when it was left until more had fallen.

T at

The figures in the column for the quantity, of min denote that we quantity of rain fallen is equal to so many afthe divisions of the scale of the rain gage in depth. The division

by Mr. Adams, of Fleet Street, London; except the barometer, which was made by Mr. Ramsden.

On a general view of the most prevailing diseases at Sierra Leone, it appears, that remittent and intermittent fevers conflitute the bulk of the complaints; and that the rest are chiefly diforders arifing from a morbid increase of irritability of the constitution, or of particular parts; which, from a flight refemblance, have been usually termed febrile, though they neither arise from contagion, nor from other miasmata. The latter I shall therefore denominate diseases of erethism, in contradistinction to the truly febrile. Fevers occur indifcriminately at all times of the year, especially in persons not accustomed to the climate: They are, however, most frequent during the rainy feason, and for a month or two afterwards.

division of the scale was into parts rather less than an inch; but, which, if divided by 14, gives very exactly the perpendicular height of rain upon the earth's surface.

Their

The infiruments made use of were all made by Mr. Adams, of Fleet Street, London; except the barometer, which was made by Mr. Ramiden.

On a general view of the most prevailing diffeafes at Sierra Leone, it appears, that remittent and intermittent fevers constitute the bolk of the complaints; and that the rest are chiefly diffeafers arising from a morbid increase of irritability of the constitution, or of particular parts; which, from a slight resemblance, have been usually termed febrile, though they meither arise from contagion, nor from their miasmats. The latter I shall therefore denominate difeases of creshism, in contradicting mominate difeases of creshism, in contradicting minately at all times of the year, especially in persons not accuriomed to the climate: They mere not accuriomed to the climate: They are, however, most frequent during the rainy steel however, and for a month or two afterwards.

dividue of the feele was into parterather lefs than un inch ; but, which, if welded by 14, gives very excitly the perpositive height of rein upon the earth's farface.

Their phenomena are nearly the same at all times; except in the remissions being more or less persect; and that catarrhal symptoms are occasionally superadded to them.

. January .- Intermittent fevers were the most prevalent diseases during this month; a few quotidians occurred; but the tertian type was most generally observed, and there was not an instance of a quartan. These diseases were, for the most part mild, and readily yielded to a proper exhibition of bark. Convalescents from fevers of the preceding months. continued to recover their strength, though flowly, and were ftill liable to relapses from errors of diet, or from the least fatigue; and in many inftances, from fimple exposure to a hot fun. Very few remittent fevers appeared in this month, and those were of the mildest form. Many of the convalescents, and those who were much debilitated, though they had not been lately fick, were liable to frequent attacks of what they termed night fevers. As this is chiefly characterized by increafed irritability, it may be properly ranked as one of the diseases of erethism. The patient, though weak and uncomfortable, feldon complains much during the day, but towards evening becomes G 3

Their phenomena are nearly the fame at all times; except in the remiffions being more or left perfect; and that catarrhal lymptoms

becomes uneafy and reftless; the skin feels dry, and is rather hotter than usual, but does not impart that burning heat usually felt in the hot stage of an intermittent: the principal complaint is of internal heat, or, as is usually termed, inward fever. The pulse is quick, and rather more frequent than natural, though fometimes it is not affected while the patient is at rest. The head is affected with pain, either on the crown or back part. The patient feldom complains of much thirst, but rather of a clamminess of the mouth. Slight chills running down the back, fometimes usher in a paroxysm; but these are rare, and are never of any long continuance when they do occur. The other fymptoms continue the whole night, gradually becoming milder towards morning, when a partial fweat fometimes breaks out upon the head and breaft. In the morning, nothing is felt but a confiderable degree of languor and debility. These symptoms harass the patient often for weeks and months, without appearing much to increase the debility. They sometimes suddenly disappear for a few days, a week, or a month, and return again. An emetic is of use when the ftomach is much loaded; but in general, a courfe

a course of tonics is sufficient. Many complained of pains in the bowels, chiefly from errors in diet, lattended with flight diarrhoea, and fometimes with vomiting. Slight pains fhooting through the breaft, increased upon infpiration, were complained of by some. Blisters were feldom employed, as the fymptoms generally yielded to opiates, and gentle fudorifics. Ulcers, which had been very frequent for three months past, were still numerous; they were, in general, extensive and foul, with a copious thin discharge: most of them had supervened to fevers, or arisen from musquitoe bites, or other trifling causes, in habits rendered extremely irritable. A liberal use of bark was generally necessary, and the Hydrarg. nitr. rub. applied to the fores in fuch proportion as to keep up a proper degree of filmulus, was one of the best dressings.

February.—Though intermittents formed the bulk of the diseases of this month, they were not only less frequent than in the last, but were in general slight, being often brought on by frregularities, and disappearing of themselves in a few days. Those of a more obstinate nature chiefly occurred in persons who had suffered a frequent recurrence of the disease, and neglected

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one of the best drallings.

February — Though intermittents formed the bulk of the difeases of this month, they were not only less frequent than in the laft, but were in general dight, being often brought on by frequentities, and dilappearing of themselves in a few days. Those of a more obthinate nature chiefly occurred in perious who had furfered a frequent recurrence of the dilease, and fered a frequent recurrence of the dilease, and

neglected the proper remedies. Difeases of erethism still continued: tumefaction of the abdomen, with obscure fluctuation in some infrances, was very common, especially among children, attended with flight erethismatic affections, refembling the train of fymptoms which takes place in what is called worm fever. The irritability in these cases was such, that mercury speedily affected the mouth, when given in the smallest doses; neither was its use attended with any fensible good effect. A falivation, which continued a week, was produced in two children, by Calom. gr. iij, given in doses of gr. i. Saline Purgatives, with the Decoct. Cort. Peruy. vel Angustur. were tous fwellings of the lower extremities were the usual confequences of long continued intermittents; but, though in many inftances, attended with evident enlargement of the spleen, they yielded to gentle purgatives, and a courfe of corroborant remedies, used alternately. Two cases of epilepsy occurred this month, both in females; in one of these, a girl of fixteen, who had a flight flow of the menses, the return of the fits was stopped by the Cupr. Ammon. In the other, a woman who had borne children,

children, the fits recurred every evening with as much regularity as the paroxysm of an intermittent. The Cupr. Ammon. with her was tried ineffectually. The mineral folution (of Arfenic) was then exhibited for ten days, in doses of ten drops three times a day, which put a ftop to the fits for near three weeks, though the often felt fome uneafiness at the usual period of their attack. After this time, the fits returned, though not more frequently than two or three times a week, and at uncertain times of the day. As the was how in an early flate of pregnancy, and had experienced the fame complaints in former pregnancies, no more medicines were exhibited; and after the fourth month the fits entirely disappeared. An eclipse of the moon happened on the 25th of this month, and the same night five persons were affected with agues; this circumstance, however, is by no means to be referred to any lunar influence, as it was an occurrence which frequently happened, and as upwards of ten times that number of convalescents from fevers, who were fill in a weak state of health, did not feel the least ill effects from it.

March.—In the present month, which was very healthy, scarcely any disease could be said

Admid. In the prefent month, which was very healthy, fearcely any difeate could be faid

to be more prevalent than another. Convalescents recovered their strength and health very rapidly, and were not fo fubject to relapfes, as in the two preceding months. Intermittents had now become rare, and were almost all of a very mild kind. Several children were, in the course of this month, affected with vomiting, and fometimes with purging. The abdomen was painful when preffed by the hand, the pulfe was generally quick, the fkin hot and dry, especially over the forehead, and the eyes were bright. As vomiting relieved the fymptoms, it was encouraged by a few grains of Ipecacuanha; and the bowels, if costive, were unloaded by a dofe of Calomel. A few drops of Tinet. Opii. and Spt. Nitr. generally brought out a gentle perspiration, and carried off the complaint. A few cases of dysentery appeared this month, attended with fevere tormina and tenesmus; the stools were bloody; the pulse was, in general, quick and fmall. There was great general debility and evening exacerbations. Excepting one inftance, where a man and his wife were affected with this difease at the fame time, there was not an example of two in a family being feized with it. A man, aged forty-five, rather corpulent, and much addicted

three days, experienced great head-ach, giddinels, heat and rednels of the eyes, with sparks of light flying before them, was seized with hæmorrhage from the nose, and lost about two pounds of blood, which relieved the symptoms of congestion in the head. A woman, about fifty, who had for several months laboured under phthisical complaints, with effusion into the cavity of the thorax, died this month.

April.—Difeases from erethism were very -frequent during the present month; as they generally arose in consequence of fatigue in a hot fun, and in persons of a weakly frame of body, they were speedily removed by an infusion of some bitter, assisted by a few days rest. Many complained of head-ach, which appeared to depend upon an affection of the stomach, and was relieved by emetics. Colic. pains, attended with flight diarrhoeas, were also frequent; for the most part, they were produced by acrid ingesta lodging in the primæ viæ, and required the use of evacuants. Convulfions, from dentition, occurred in feveral children this month, and in one initance, proved fatal. Purges of calomel, opiates, and

to drinking of spirits, after having, for two or three days, experienced great head-ach, giddinels, heat and reducis of the eyes, with sparks of light siying before them, was seized with humorriage from the nois, and lost about two pounds of blood, which relieved the symptoms of congestion in the head. A woman, about sifty, who shad for several mostins laboured under phthissest complaints, with effection into the cavity of the thorax, died this fusion into the cavity of the thorax, died this

frequent during the prefent month; as they generally arole in confequence of fatigue in a that tim, and in perfore of a weakly frame of holy, they were speedily removed by an infulion of somplained of head ach, which rest. Many complained of head ach, which appeared to depend upon an effection of the speeds, and was relieved by emetics. Colic pains, attended with flight diarrhoess, were also frequent; for the most part, they were produced by acrid ingelfs lodging in the primary will, and required the life of evacuants. Conducted this month, and in one inflance, proved fatal. Purges of calomel, opiates, and in one inflance, proved fatal. Purges of calomel, opiates, and in one inflance, proved fatal. Purges of calomel, opiates, and in one inflance, proved fatal. Purges of calomel, opiates, and in one inflance, proved fatal. Purges of calomel, opiates, and in one inflance, and proved fatal. Purges of calomel, opiates, and in

in particular the warm bath, were attended with the most beneficial effects. A case of fever, which made its appearance in a very insidious manner, and was accompanied in its course with bilious vomiting, spasms and great debility, ended fatally on the fifth day. Two cases of epistaxis occurred; the one, in a person who had marked symptoms of phthiss; the other, arising merely from temporary congestion.

May.-The complaints of this month were few in number, and flight, and may be confidered, rather as the fequelæ of diseases of former months. Four cases of anasarca, suc--ceeding long continued intermittents, were cured by a course of mercury and squill, together with the use of corroborant remedies. It may be observed, that these patients bore the use of mercury well, a falivation not being fpeedily produced. In one inflance, the Infus. Nicotian, acted as a very powerful diuretic; but though given in fmall dofes, it was discontinued, on account of the vertigo and temporary lofs of vision which it produced. A few flight cases of ophthalmia occurred, which were presently removed by cold faturnine lotions. Some cases of dysentery appeared this month,

in particular the warm bath, were attended with the most beneficial effects. A case of fever, which made its appearance in a very foldious manner, and was accompanied in its course with bilious vomiting, spalms and great debility, ended intally on the fish day. Two cases of spiliaxis occurred; the one, in a perfon who had marked symptoms of phiblile; the other, ariting merely from temporary congestion.

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Son's cases of dysentery appeared this month, in cases of dysentery appeared this month, in

in general flight; but in some, attended with fymptoms of great weakness and irritability.

Several perfons complained of fevere head ach, with much throbbing and pulfation of the temples, occasioned by long exposure to a hot fun. The sense of fulness of the head soon disappeared after rest, in the shade, leaving behind a head-ach, which yielded to gentle purgatives. In no instance did it resemble a coup de soleil, a disease, which has not occurred here once in the space of two years; but the symptoms came on gradually, in proportion to the exposure.

Two cases of marasmus, in women who had been delivered of children during the last month, terminated fatally in the present one. A case of apoplexy terminated fatally on the fourth day, in a woman aged fixty, of a very corpulent habit.

June.—Intermittents, which began to make their appearance towards the conclusion of last month, became prevalent during the course of the present one. Several cases of the remittent sever likewise occurred; the symptoms were in general mild; and, in many instances, the exhibition of an emetic produced complete intermissions. Catarrhal complaints were very rife.

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Several perions complained of fevere head ach, with much throbblog and pullation of the temples, occalloned by long expoline to a hot fam. The feeds of talacts of the head foon disappeared after rest, in the finde, leaving being a head set, which yielded to gentle purgatives. In no inflance did it refemble a bore once in the space of two years; but the force once in the space of two years; but the force once in the space of two years; but the force once in the space of two years; but the footbe expolure.

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rife, and frequently appeared as fymptoms of fever. In one case of fever, the catarrhal Tymptoms were fevere, and appeared to conftitute the primary disease; the debility, however, which occurred on the 2d day, together with very flight evening exacerbations, and a flight, but fixed pain remaining over the eyes, rendering the case suspicious, the bark was liberally exhibited; and the patient recovered, though he continued weak for some time. Slight coughs, and foreness of throat were frequent. The cynanche parotidea occurred in a few children; the fwelling of the face was confiderable and painful; there was great reftlefsness, increafed heat of body, quick pulse and some thirst. The tumefaction of the face disappeared gradually, without being followed by fwelling of the testicles or breasts: laxative medicines, and gentle fudorifics, were employed with advantage. Rheumatic pains became rather frequent towards the conclusion of the month, particularly in the hips and loins. Three children were feized with fevere vomiting, purging, and frequent convultive twitches in the face and limbs, owing to their having eaten, as was faid, a quantity of raw caffada; it is, however, probable they had taken fome other

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other root by mistake, as no such instance of its bad effects had been observed before, although it constitutes a considerable part of the diet of the inhabitants: one of the children died not withstanding the exhibition of an emetic, with plentiful dilution, the use of demulcent anadoyne medicines, and of the warm bath; the other two recovered by this mode of treatment.

July.—Remittent fevers became more and more prevalent during the course of this month. The onfet of the difease, was, in general, fudden and very fevere, few patients drooping, for any length of time, before they were confined to bed. There was great heat, naufea, and confiderable debility; the remiffions were also less evident than in the foregoing month; and the diffreffing fymptoms, as head-ach, reftleffnefs, and oppreffion of spirits, were more obstinate. Rheumatic pains became less frequent during this month. Several cases of colic occurred, which were, in general, flight. Many perfons employed in the woods in cutting timber, &c. especially fuch as went early in the morning, were affected with bilious vomiting, fometimes attended with purging; but these symptoms soon difappeared

other root by militake, as no fuch inflance of its bad effects had been observed before, although it constitutes a considerable part of the died of the inhabitants; one of the children died notwithstanding the exhibition of an emetic, with plentiful dilution, the use of demulcent anadoyne medicines, and of the warm bath; the other two recovered by this mode of treatment.

yel,—Remiltent fevers became more and more prevalent during the courfe of this month. The onfet of the difeafe, was, in general, findeen and very fevere, few patients decoping, for any length of time, before they were confined to bed. There was great heat, maufes, and confiderable debility; the remiliant were also left evident than in the foregoing month; and the diffreshing fymptoms, as benead-ach, refilesheds, and apprelion of spirits, were more obtained. Rheumetic pains became left frequent during this month. Several cates of colic occurred, which were, in general, light. Many persons employed in the woods in cutting timber, &c. especially duch as went early in the morning, were thended with purging; but these symptoms from disappeared disappeared

disappeared, after the use of gentle evacuants and opiates. Dysenteries were frequent this month, but did not appear to spread by contagion; the griping and tenesmus were severe, the stools frequent, small, and chiefly composed of blood and mucus; great debility soon occurred, and all the symptoms were aggravated towards evening. After evacuating the bowels, by saline purgatives, calomel, with opium, was of great use in removing the gripes and tenesmus. The disease proved fatal in one case only, the patient being seized with it, after he had suffered greatly from sever, and had his strength much wasted.

A middle aged man, corpulent, and much addicted to drinking, was affected with fingultus, without any other complaint preceding or attending it. The spasms were frequent, but not attended with pain, except a slight foreness in the region of the stomach; the hiccup was so loud as to be heard near fifty yards from the house he lived in. The pulse, during the continuance of the spasm, was raised to an hundred strokes in a minute, and was full and soft. Musk, camphor, and ol. succini, were employed, and a large blister applied in the direction of the diaphragm, without effect.

It yielded at length, after a continuance of four days, to large doses of laudanum, given at every return of the complaint.

A woman, pretty far advanced in pregnancy, died fuddenly; she complained, a few hours before death, of a pain in her heart, (as she expressed it,) but which was not so severe as to draw the attention of the family, and as she lived at a distance in the country, no application could be made for assistance.

August .- Remittents continued to be the prevailing difeases of the month. In the early part, the difease appeared to become less frequent, and the fymptoms were more mild; but the frequency of it increased again towards the conclusion. The evening exacerbations were very fevere, and were followed by extreme debility. In addition to thefe complaints, feveral were affected with flight catarrhs, and few escaped more or less of coryza; the skin became hot and dry towards evening, with a degree of liftleffnefs and inactivity. These symptoms seldom lasted more than a few days, and required only mild fudorifics and opiates. A few patients complained this month of cephalalgia: the head ach generally increased in severity towards evening, VOL. VIII.

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The Vot. VIII.

and was particularly felt across the forehead, and on the side of the head; the eyes were often red, slushed, and unable to bear the light. The skin was hot and dry, and the tongue white and parched. Emetics appeared to be of use; but, in general, small doses of camphor, with opium, were most effectual in relieving the severity of the pain, and in bringing the paroxysm to a termination by profuse perspiration; the return of the complaint was effectually put a stop to by exhibiting the bark. Blisters seldom afforded effectual or even temporary relief. A case of cholera morbus occurred this month, which terminated favourably.

A child, about ten years of age, died of fever, on the feventeenth day of the difease; her indisposition, at first, was so trisling as not to be particularly noticed for some days; though of the remittent species it very much resembled the typhus of cold countries; the eyes had the same glassy appearance, the tongue and teeth were covered with a thick black fur, and subsultus tendinum occurred; which symptoms rarely appear in the fevers of this country, except the disease has been long protracted, and approaches

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proaches to a fatal termination. In this cafe, bark and cordials were employed.

September.—This month was more unhealthy than any of the preceding, and was felt by those living on board the veffels at a diffance from the shore, as much, or rather more than by those on the land. Among the black people, (who indeed, are at all times much less severely affected with the fever than the whites,) the degree of fickness, during the present month, wa's comparatively triffing, and chiefly confifted in intermittents of the tertian type. The whities who lived on shore, upwards of twenty is1 number, fuffered much from fickness, scarcely one of them escaping a severe attack of sever; many also had relapses. The symptoms of the fever were very diftrefling; in particular the anxiety and reftleffnefs, which continued a long time after the fever had ceased. An intermission scarcely ever occurred from the first attack; the remissions were obscure, and only perceptible foon after the commencement of the difeafe. An emetic was generally exhibited immediately on the commencement of the complaint; and as foon as the ftomach could bear it, the bark, with opium occasionally, was exhibited in large doses .-

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proaches to a faral termination. In this cufe,

Three patients died this month of the fever, on the 9th and 10th days of the difeafe. Instances occurred of fevere vomiting; gripes, and purging, from eating caffada which had ftood in a brafs veffel, in a woman, and a child about feven years old. The woman was immediately affected with fevere vomiting and purging, which, though distressing for a time, carried off the irritating cause; the child having vomited only once or twice, was more ferverely affected. The pulle was fmall and quick, the extremities were cold, the eyes much difficited; and the patient appeared to be in much pain. By means of an emetic, which operated both upwards and downwards, thefe fymptoms disappeared, except flight convulsive twitches of the face and limbs, and frarting during fleep, which continued for a day or two, and then went off. Two cases of cholera morbus appeared; in one man it was attended with very fevere spasms of the legs, and feemed to have originated from exposure to a current of cold air when he was much heated by having worked in a hot fun. In the other case, the vomiting was chiefly severe, and happened after working all day in the woods, and spending the night there. Both the

the patients recoverd by fmall doses of opium, fomentations, &c. A case of gastrodynia which occurred was cured by opium and the spir. æther. nitr.

Ostober .- From the commencement of the present month the remittent sever gradually · became less frequent, and towards the conclusion, intermittents were very general. Cases of ophthalmia were also frequent: they appeared to arife from cold, and were always attended with confiderable effusion of tears. and inability to bear the light. In one infrance the pain was fo fevere as to require large doses of opium to moderate it, and a firict use of the antiphlogistic regimen, except bleeding. Cold faturnine lotions with opium, applied externally, were very useful in abating pain, and relieved the turgid ftate of the vef-Towards the end of the month, pains of the bowels, refembling colic pains, became frequent; and in feveral inftances the conftipation was fo obstinate, as to require repeated doses of calomel, ol. ricini, and sal. cathart. Fomentations to the abdomen afforded speedy but only temporary relief.

A woman, after having been employed all day in washing while exposed to a hot sun, was H 2 seized the patients recoverd by finall deles of opinin, force A cafe of gathrodynia which occurred was cured by opium and the fpiration of the country of the count

prefent month the remittent faver gradually became lets frequent, and towards the conclusion, intermittents were very general appeared to arile from cold, and were always appeared to arile from cold, and were always attended with confiderable effution of tears, and inability to bear the light. In one infinite use of the pala was to fevere as to require first use of the antiphlogistic regimen, except applied externally, were very useful in abatting bleeding. Cold faturation folions with opium, and relieved the targid linte of the vertex very useful in abatting pain, and relieved the targid linte of the vertex of the month, pains of the bowels, refembling colic pains, because frequent; and in several inflances the conting doles of calomet, of ricini, and fall cathert, that each the cathert, as to require repeated that only temporary relicit, and fall cathert, being doles of calomet, of ricini, and fall cathert, that only temporary relicit, and fall cathert, that only temporary relicit, and fall cathert, that only temporary relicit, and fall cathert, that only temporary relicit.

A woman, after having been employed all day in walning while exploied to a hot fun, was

feized, late in the night, with very fevere vomiting and purging, acute fixed pain in the bowels, and frequent cramps of her legs; by the use of mild diluents, somentations to the abdomen, and small doses of tinct. opii, given at short intervals, the symptoms abated; but they returned the next night about the same time, with equal violence. The same plan of treatment was pursued with advantage, and a few doses of bark were given; after which there was no return of the symptoms.

November.—The complaint of the bowels, which made its appearance towards the end of last month, became so frequent during the present one as to resemble an epidemic. natives, in different parts of the river, did not escape it, and so frequent was it among them, that according to their cuftom, they attributed it to the effects of witchcraft. The pain was, in general, confined to the left fide, between the umbilious and spinous process of the ilium; but shooting pains were sometimes felt in the epigastrium, with a sense of tightness: the abdomen, when preffed, was usually fore. The pain was not constant, but generally abated for a few minutes, and returned with greater violence. Sometimes there was a fuspension

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fulpension of pain for a few hours, but an exacerbation conftantly happened about evening. The pulse was always foft, and, except during the feverity of the pain, when it increased in quickness, was not much affected. The tongue was white and furred, and much thirst attended. In many inftances, where the pain was on one fide, a confiderable degree of pulfation could be felt from the mesenteric arteries. constipation was as obstinate, and the other fymptoms were more fevere, in this than the last month. Sudorifics and warm cordial medicines produced no good effect. Large doses of opium afforded only temporary suspension of the pain. The frequent application of fomentations to the abdomen, not only mitigated the pain, but often procured a little fleep. The most certain relief was produced by an injection of turpentine. In one case, where the patient had been ill three days, after a drachm of camphor, and two drachms of tinct, opii, had been taken during the night, with little more effect than that of rendering the pain more obtuse; an enema of turpentine was followed by immediate eafe, and produced feveral ftools, which large dofes of ol. ricini had failed in procuring. another inftance, where the patient had for four H 4

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four days scarcely obtained any relief from pain, though every means had been used except injections, calomel, united with opium, was given in small doses, night and morning. A salivation was produced after eight grains of calomel had been taken, which continued copious for ten days, and then gradually ceased. The patient selt no remains of pain from the time his mouth was affected, and soon after the salivation abated, recovered his health and strength. A few cases of intermittents occurred this month, which were in general slight.

A young man, without having any previous indisposition, was, while sitting in a chair, seized with profuse hæmorrhage from the nose, by which near two pounds of blood were lost, and fainting at length put a stop to the hæmorrhage; the debility induced was very great, but was removed by bark joined with acids. A case of remittent sever terminated satally this month, on the sourch day of the disease, being towards its conclusion attended with severe vomiting, and spasms all over the body.

December.—This month was extremely healthy, more fo than any of the preceding. A fingle case of remittent sever occurred this month, four days fearcely obtained any relief from pain, though every means had been used except injections, coloniel, united with opium, was given in finall doses, night and morning. A fallyation was produced after eight grains of galome had been taken, which continued copious for ten days, and then gradually ceased. The patient felt no remains of pain from the time his mouth was affected, and food after the fallyation abated, recovered his health and firength. A few cases of intermittents occurred this month, which were in general distinct

A young man, without having any previous indisposition, was, while sitting in a chair, seized with profide hemorrhage from the nose, by which near two pounds of blood were lost, and fainting at length put a stop to the hemorrhage; the debility induced was very great, but was removed by bark joined with acids. A case of remittent sever terminated stally this month, on the south day of the disease, being towards its conclusion attended with severe vomitting, and spalms all over the body. This month was extremely healthy, more to than any of the preceding. A single case of remittent sever occurred this month, more to than any of the preceding. A month, more to than any of the preceding. A month, month, month, month, month,

month, in a woman, who had been delivered about ten days, after an eafy labour. It was not accompanied by any affection of the bowels, but terminated fatally on the fixth day after the attack, owing in great measure to her obstinacy, in refusing medicines till it was too late. Except the case of fever, and one of peripheumony in a woman, nearly at the term of parturition, no acute difease of any confequence occurred in the prefent month. The peripneumony began in the former month, but was not regarded by the patient until attended with confiderable dyfpnæa, hectic flushings, and night fweats; the pain was very acute under the left breaft, and there was a confiderable expectoration of a puriform matter, which had been preceded by frequent flight chills; the pulfe was fmall, but hard and quick; a blifter had been applied to the pained part, but without effect. An opiate was exhibited every night, and an emetic composed of antim, tart, and vitriol, cupr. aa gr. ii. was given every fecond morning, and during the intermediate days, the pilula feillæ Pharmac. Lond. was used. By the use of these remedies the fymptoms gradually abated, and at the end of this month no other complaint remained but a flight degree of hoarfenefs. Early

in January she was delivered of a healthy but small child, at the full period, which she has suckled for two months past without inconvenience.

A person, who had long laboured under assistantic complaints in America, but during a residence of near two years in Sierra Leone had never experienced any severe attack, had, during the present month, three several attacks of dyspnæa approaching to orthopnæa, but which was each time speedily relieved by full vomiting. There occurred two cases of a periodic nervous head-ach, attended with great irritability, which were cured by a course of tonic remedies.

I have thus given a concise view of the diseases that prevailed at Sierra Leone, in the course of one year; and I shall conclude it with observing that while other countries have been gradually improving in cultivation, and thereby changing even the nature of the climate from unhealthy to healthy; Africa, depressed by the trade in its inhabitants, remains in the same rude, uncultivated state, in which it was centuries ago. It has proved the grave of many Europeans, but, a great or perhaps, the

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in January like was delivered of a healthy but finall child, at the full period, which she has suckled for two months past without inconve-

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it was centuries ago. It has proved the grave
of many Europeans, but, a great or perhaps,
of many Europeans, but, a great or perhaps,
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the chief part of this mortality may be attributed to causes independent of the general infalubrity of climate. Of the Europeans who have died in Africa, the greater part are either feamen or traders. The former, are in every country remarkable for imprudence and .careleffness of their health; and it has been observed, even in temperate climates, that they are generally short lived. But in Africa they labour under difadvantages unknown elfewhere, and which, of themselves might fully account for the extraordinary mortality. On board of Guinea ships, there is often no regular allowance of liquor, and as the feamen employed in the African trade, are commonly dissolute, they eagerly seize every opportunity, while laying on the coaft, of procuring spirits, even felling their wearing apparel and their beds, if, as generally happens, the captain refuses them any other means of purchasing them. In this way, few are pollefled of clothes to flift themselves, when drenched with the heavy rains which fall in the wet feafon, or of any other bed than the bare deck. or a cable, whereon to fleep at night. the day, they are often exposed to row in boats, under a fcorching fun, and when fatigued

tigued with this laborious employment, frequently fall afleep in the boat, exposed to its ardent rays; this extreme of heat is commonly followed by exposure to the heavy chilling dews, which begin to fall after sun-set, and which affect their bodies the more readily, as they have been heated by the labours of the day; this is a very frequent cause of the obstinate rheumatic pains with which many in these situations are affected.

These causes of disease, it may be said, the African has in common with the West Indian trade; this must be partly granted, but the following evils are peculiar to the former. The station of vessels trading to the coast is often fuch, that it may be confidered as the focus of difeafe. Veffels frequently remain for many months on the coast, perhaps in rivers, near an oozy shore, covered with lofty mangroves, which exclude the cool fea breeze, permitting them only to receive, during the night and part of the morning, a peftiferous breeze from the land, impregnated with moisture, and theexhalations of marshes. During their stay here, the men are perhaps fent up creeks in open boots, in which they continue for feveral fuccessive days, exposed to all the vicislitudes

## FYROS

tigued with this laborious employment, frequently fall afterp in the bont, expoled to its ardent rays; this extreme of heat is common-ly followed by expolure to the heavy chilling dews, which begin to fall after fun-fet, and which affect their badies the more readily, as they have been heated by the labours of the day; this is a very frequent cause of the ob-finate rheumatic pains with which many in these fituations are affected.

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of heat and cold. The unbounded licence of a flave ship, exposes the men likewise to all those evils which arise from excess of venery; while the influence of this trade on the minds of their superior officers, often exposes them to the still more fatal effects of scanty diet, and of surious and ungovernable passions.

The conduct of those Europeans who form little factories upon the coast for trade, is feldom much better than that of the unthinking failor; the most part of these traders have been originally common failors, who from long residence upon the coast, have become acquainted with the trade. Their mode of life is generally extravagant, and licentious; they adopt readily all the customs of the natives, fo that it has become a proverb among them, "that a white man foon turns black." The miserable houses, or rather hovels, they inhabit, often built of mud, without any flooring but the damp earth, and much inferior to those of the natives, show how little they avail themselves of European arts.

Their places of residence are chosen without any regard to health, but according as they may be advantageously situated for trade; for which reason, they are generally on the banks of heat and cold, 'The unbounded licence of a flave fhip, expeles the men likewife to all ihofe evils which arife from excels of venery; while the influence of this trade on the minds of their fuperior officers, often expeles them to the fall more fatal effects of fearty diet,

The conduct of those Europeans who form little factories upon the coast for trade, is feldom much better than that of the unthinking fallow; the most part of these traders have been originally common falors, who from long residence upon the coast, have become no quainfed with the trade. Their mode of life is generally extravegant, and licentions I they is generally all the customs of the natives. In that it has become a proverb among them, it that a while man from turns black." The misterable houses, or rather hovels, they inhading of the damp earth, and much inferior to the damp earth, and much inferior to them the damp earth, and much inferior to them for the natives, show how little they avail themselves of the natives, show how little they avail

I near places of refidence are choice without any regard to health, but according as they may be advantageoully fituated for trade; for whilch realon, they are generally on the banks

of fome river, or up fome fmall winding creek. The towns of the natives are usually furrounded by trees, &c. flut up from receiving the cooling breeze; a fituation preferred by them, on account of the fecurity it gives from fudden attacks, although its baneful effects are felt by themselves, and proved, by the fickness, which every rainy feason prevails among them, and by the feeble emaciated bodies of their old men. That health may be retained in Africa, as well as in other parts of the world, when attention is paid to fituation, &c. appears proved by the inftance of Free Town. The scite of this town is such as to avoid the inconveniencies above mentioned, and the falutary confequences of this, have Thewn themselves by the very trifling degree in which the ill effects of the last rainy season have been felt by the inhabitants.

oft

of four rivers or up four family winding creeks. The towns of the natives are usually furrounded by trees, see, faut up from receiving the cooling brease; a fauntion preferred by them, on account of the feetility in gives from fielden attacks, although its base, tid effects are felt by themfelves, and proved, by the fieldes are felt by themfelves, and proved, by the fields county feeting the field of them attacks as well as in other parts of the world, when attention is paid to fauntion, the world, when attention is paid to fauntion. The field of the fauntion, and the fact that health may be recailed to the fauntion, and the fauntion of the world, when attention is paid to fauntion, from the faithest of this town is field as to fauntion of the fauntion of