# Awful Phenomena of Nature. 

an ACCOUNT OF
Some of the

## Mof Remarkable

## EARTHQUAKES,

VOLCANIC ERUPTIONS, SEA STORMS, HURRICANES \&c.
Which have happened in the known World:

With the Calamitous Effects, which have resulted from thofe Dreadful Convulfions of the Elements.

IN FOUR PARTS.
Collected from good Authorities.
"Sweet Innccence! thou ftranger to offence,
rf And inward ftorm! He who yon' lkies involves
" In frowns of darknefs, ever imiles on thee
"With kind regard-"?
THOMSON.


Printed in the Year 1799.

Frat.


## CONTENT:

Part I. EARTHVUAKES. . . . Page I
Kircher's account of the Earthquake in Calabria in

$$
\text { r638. } \quad \text { - } \quad-\quad-\quad-3
$$

Account of the Earthquake that happened in Jamaica in"1693. - - - - - - 6
Of the Earfiquake in Sicily in $1693^{\circ}$. . . . . 7
An aecount of the Great Earthquake that happened at
Lifbon, November the firt 1755 . - - - 9
Tarthquakes in Calabria and Sicily, in $\mathbf{x} 783^{\circ}$. . 19

- in Scotland. - - . . . 22
Do. - - - - 24
$\begin{aligned} & \text { Part II. VOLCANOES. } \\ & \text { Eruption of Mount Jetna in Sicily } 1699 .\end{aligned} \quad . \quad 25$

Part III. SEA STORMS.
An account of the Shipwreck of a Pcrtuzuere Snow, on her paffage from Gca to Madaas, in t'e year 1782-
Narrative of the lofs of the Halsewell Ean-Indiaman, on the coaft of Dorfet?hire, January 19.86. -

Part IV. HURRIGANFS, E ${ }^{\circ}$ c.
Hurricane in Jamaica, October 1980.
Another Hurricane in Jamaic?, 178 r .
Tornado in Scotland, July In99.

## Awiul Phenomena

of Nature,

PART FIRST,



## ACCOUNT of SEVERAL

## Remarkable Earthquakes, Exc.

Bircher's Account of the Earthquake in Calabria, - in: 1633.

0N the 24th of March, elanched (in a foal boat: frometle harbour of N, firing in Sicily, and arrived the fame day at the promion wry of Pelorus. Our deffination was for the city of Euplienlia in Cilabia; but on account of the weather, we wire obliged to continue three days at Pelorus At length, wearied with the delay. we :e clove to profecute our voyage; and although the fear feemed more than ufual!y agitated, yet we ventured forward. The gulph of Charybdis, which we aproached, feemed whirled round in foch a manner as to form a vaft hollow, verging to a point in the

## ( 4 )

cerite. Proceciling nnward, and turning my ey so Nicunt Eina, Ifaw it caft forth large volumest imoke, of mountainons fize, whi h entirely cove ed the ifland, and bictted out even the fhores frou siny tiew. This, together with the dreadfu! noif and the fulphurects feerch, which was frongl perceived, filled me with appretienforns t'at fom more óreadful cakmity was impencinc: The tea i felt feemed to kear a very an itual appearance thofe who have feen a lake in a viclent fhower sain all cocered over with bubcles, will have fon idea of its ascitations. My fulptic was ant! increan ediby the caln acts ano t.renit: $r$ the weather; red a brecze, not a chaci, whioh might be fopmefect put all tature thes tio no tion. I therefere warr ic peonepar ion, that an eartiopuak was appreach ing: ame atter fonte ume, making for the fion with all frfíble ciljgence, we larded at Trupa Bers we had icarce antred at the Jefuits college that city, when our ears were flunhed with an hos ritifund, refembling that of an infnite sumbere chatiots diven fiescely forward, the wheels mathire and the thengs ciacking. Soos ater this, a mo dreadfal eartlquate infied; fo that the theit track upon which we ftood feened to vibrate, as we were in the ferle of a balance that contime waving. This mution, lowerer, foca grew mor violent; and being no lerger able to leep my leg: I was thown protrate upon the ground. Afte fonce time, fielung that remained unhurt amils the eneral oncuffion, I reforved to venture fo fafery; and running as fait as 1 cou'd. reached th thore. I did not tearch long here, till I fou'th Loat in which I hat laned, and niy companion alio. Leasing this feat of de olation, we profecut ed cur voyage aling the coaft; and the next da! came to Kochetta, where we landed, although she

## (5)

earth fill continuel in violent agitations. But we were fearce arived at our inn, when we were oace more oblifed to retarn to our boar, and ih about hatan hour we faw the greatelk part of the town. and the inn at which we hall let up, dalhed to the ground, and barving all its inlabitants beneath its rains. Pro ceding onward in our little velfa, we at length laqded at Lopizium, a cafle mid-way between Tropxa and Enphenis the city to which we were bount. Hore, wherever I turned iny eyes, nothing but feenes of $r$ a and horror appeared; towns and cait les leveiled to the ground; Siromboli, thouyh at 60 miles diftance, belcning forth fl mies in an unufual manner, and witis a molfe which I comld diatinctly hear. But my attention was quickly turned from more remote to contirusus danger. The rumbling found of an approaching earthquake, which by this time we were grown acquainted with, alarmed us for the confequences. It every moment feemed to grow louder, and to approach more near. The place on which we fool now began to thake mott dreadfully; fo that, being und ite to ftand, my companions and I caught hold of whatever Thrub grew next us, and furported ourlelves in thas manner. After foine time, the violnt paroxyfa ceafing, we again itood up, in order to profecute nur vogage to Euphemis, which lay wirhin fieht. II she mean time, whie wo were prepa ing for this purpofe, I turned niy ey=s rowards the iv, but could lie only a frimbtul dark choust, titat fermed toreft upon the plăce This the more furprited us, as the weather was to very ferene. We waited, therefore, till the loud was pilfid away: then turning to look fr the city, it was tocally funk; and nothing but a difmal and putrid lake was to be feen where it Rood.

## (G)

Account of the Earthouthe than happened in Gumaica, in 1092 .
N 1692, an Eartingrake happened in Jamaica An two minutes, it deffroyed the to wo of Pure Renal, at that time the capital of the in ind; and funk the homes in a gut a fathoms deep. It was attended wifi an hollow ru nb ing invite ilk e that of thunder: the firsts role like the waves of the fa; fart lifting up the hoofer, and then in ne line. by throwing then down into deep piss. All the wells difcharged theist wite rs wit': the oof violent agitation, The fa burt over its bounds, and de-

- luged all that food in its way. The niff es of the barth were in lome places fa great, that one of the frets appeared twice as broad as formerly. In. many places it opened and cored again; and contiv nutted this agitation for forme time. Of there openinge, great numbers might be fern at once. in rome of them, the people were fixallowed up at once, in otters, the earth caught fem by the middle, and crufted them to death; while others, more fortunate, were fallowed up in one chasm, end thrown out alive by another. Other chazan wire large enough to fallow up the: whole firers; and others; fill l more formidable, fumed up inmonte quantities of vaster drowning fie has the earthquake had f pared the whole was attended with tenches and offenfive finells, the noife of folling mountains at a dintinde \&c.; and the fer, in a minute's time, wax turned devil and fecula, The a glowing oven. Yet, as great a fufirer as bortRoyal was, more houfes were. left. landing therein then on the whole inland betides. Scarce a planting1.oufe, of fugai-houfe, was left ftandiug in ail Jamalca. A great pare of them were fallowed up, boules; people, trees, and all, in one gap: in lieu of which, afterwards appeared great pools of water; which,


## (7)

when dried up, left nothingु but fond, without ang mare inat ever tree or plant itad grown thereon. The hock was ic viocent, tatat it threw prople down on their knees or their fa es as they were runing a out for thelter. Several houfss were fhuffed fiome yards out of theis places, and yet continued flanding. One Hopkinshid his p!antation temov. od half a mile from the pla e where it flood, without any condilerable alteration. All the wells in the if ind, is well as thofe of Port-kuyal, from one fithom to fix or feven deep, thirew their water out fat the tof wing geeat violence. Above 12 ailies iron the fea, ilse eurtir gipid and fpouted out, with a prodigious for, $e$, vift quantilies of water into the air: yet tlie $g$ eate!' vicknces were among the mountims and ro.ks; and is is a general opithion, that the nearer the moumains, the greater the Mouk; and the caufe thereo! lay among them. Moft of the rivers we:e flopped up for 24 hours by the falling of the mountains; till iwelling up, they made themfelves new trieks and chaanels; learing up, in their pifige, trees, \& . After the great thook, thofe peoph: who ef amed got on board thips i. the harbour, wheie many continued above envpiontis; the fhecks ali that time being fo violent, and coming fo thick, fometimes tro or three in an Lour, accompaniel with trightful noiles like a rulh--ु Jianfone-biafts, tisat they durft not come ahore. in a confequence of the earthquake was a general ishnefs, from the nuifome vapours belched forth, whicafwepr away above 300 . perfons.

Of the İrtoquake in Sicily, in 1693.
Y N 1693 2n ea-tlıquake happened in Sicily, whicts may juitly beacio inted one of che molt curri le of Whicil we bave aity accouns. it mook the whole

## (8)

Onand: and not only that, but Naples and Malta I rectin the fhock. It was imporiijle for any body this country to keep on their legs on the danct earth; hay, thofe that lay on the ground were red from fide to fice as on a rolling b:llow: hi walls ieaped from their founda ions reveral pac isc. The mifchisfit did is amazing; alnoit all t buildings in the countries were thrown down I ty-four cities and towns, befide an incredibie nut ber of villapes, were eithpr deltroyed or great damaged. We fha! ony infance the fate of C tania, one of the molt famous, ancient, and fis rithing cities in the kingdom; the refidence of veral monarci:s, and an univerticy. This orice mous city had the greatelt hare in the trägedy. F ther ${ }^{*}$ Aathon. Serrovita, being ois his way thithe and at the diftance of a few miles, obierved a wha cloud like night hovering over the city; and the arofe from the mouth of Montgivelio great fpir offlame, which foread all around. The fea all of fodden began to roar and rife in billows; and the was a blow, as ifall the ariller, in the world la: been at once difcharged. Thie birds flew about a tonifled: the cattie in the field's ran crying, \&o His and his companions horfes fopped hort, trent bling; fo that they were forced to alight. Tho were no fooner off, but they were lifeed from th ground above tivo pa!ms, when calting ti:s eyes t wards Catania, he wich amazement fore nothing bo a thick cloud of duft in the air. This was $f$ : ficene of their calamity, for of the niagnificen: C . tania, there was not $\cdots, l_{\text {leaft fooffep to be feert }}$ S. Bomajutus affures lis, that of 189 co inhabitant rscoo perifh the:e in.

This arid the two frecedeng accounts are tankin frois Encerlapaclin Britann:ca 3 tuikts. val. 6-EAR.

An account of thie Great Earthqu is, thut haptened at Liffon, November the firft 175 S.
or PliERE never was a finer morning feen than the furt of Noven:ber (1755); the fun thone out in its full luftre; the whife tace of the $\mathrm{k} y$ was perfectly lereme.n.s clear, and not rate hatt figmal or warning of that approaching event, waich has made this once flowmhm, ophent, and populoas city a fene of the utmo heryor and di fotation, Ex eept only fuech as fer ed ro atarm, bu fearcely itís a moment's time to fif from the general ceirsuction.

- It was on the morning of this ftal day, between the hours of nine anoitea, thar $l$ was fot down in my aparmerst, juit finibisiug a letter, when the papers and tale 1 was wrimg on begia to tembie with a gentlo motion, which rather furprized me, as l.could not perceive a breath of wind firring; whiff ! was refiecting with myfelf What this coud be owing in, but without raving the leaf appreherfion of the real cauic, the whole houfe dergan. to flatie from the very foundation, which at firit limputed to the aiting of feveral coabches in the hamhtect, whish tuall paff d that way; at this time; from beien io the palace; but on hearkening more atteviveig, I was foon untreccived, as I found it was uning to a franne fripikfol kind of noik under ground, remembing the hol low ditant rumbling of bunder; ali the paffed in
 to be alarned, as it insuraly vo ured to ine, that this hoife might peffisly b. the forerunner of aft earthquake, as one I renk mbitod, which haci happened about fix or fevery years rro, in the fland of Madeira, commenced in the fanf riatiair, though it diú little or no danrage.
- Upon this I threw down niy pon, and darted upon my feet, remaining a moment is fufpence,

Whether I fould Aay in the apartment, or-run into the fireet, as the danger in both places feemed equal, and fini flattering niyfelf that this tremor moght prudue no other tfrects than fuch inconifferabie cues as had been fit at Madeira; but in a moment I was rouled f.om my dream, being initantly ftunned with a moth horrid crath, as if cery edifice in the city lad turntica goun at once. The boule I was in fhowk wich luch violenie, that the upper frories inmediately fell, and though my aparment (which was the firit floor) dut not then fiare the fame fate, yet every thing was thrown out of its place in fuch a manner, that it was with no, fonal diffeuly I Fept my feet, ande expened nothang feis than to be foon cruihed to death, as the walls continued roching to and for in the frightellett manner, opening in feeral places, large ftones failing down on every lide from the cracks, and the eads of holl of the ratters fiarting vat from the sud. Lo add to the territing foene, the fly in a noonent becare fo glomy, that I could no.vditionwhilh no particular objectís it was an egyntim darinels indeed, fuch as might oe fett, owing, no daubt, to the prodigious clonds of dutt ard inite, raifed from to violent a conctifion, and as fome reported, co fulphureous exhalations, but this I cannot affirm; however, it is cortain I found myleif almolt chuaked for near ten minutes.

- As fom as the gioom bewan to difperfe, and the vioinnce of the hook feemed pretty much abated, the tirt object I perceivect in the room was a noman fitting on the floor, with an infant in her arms, all covered with cuft, pale and irenbbing; I anced her low the got hither: but her confternajion was fo great that fle could give me no account of her elcape; 1 fuppole, that when the tre*nor firf began, the ran out of ber $0 ; n$ boufe, and
finding herfelf in fuch imminent danger from the falling of fones, letired into the door of mine, which was almof contiguons to her's, for thelter, and when the fhock increifed, which filled the door with duft and rubbilh, ran up fairs into in apartment, which was then open: beit as it might, tais was 10 time for cumbety. I remember thep pour creature afked me, in the urnoti agony, if I tid not think that the sochlowas an en end; at the farme time fhe complained of being choaked, and begged for God's take I would procure het a litule drimk; upon this I went to a clolet where I kept a lurge jar with water (widid you know is fonctimes a petty farce commodity in Lifbn) but finding it boken in pieces, 1 told ser fise mult not now think of quenching her thirft, but faviag h.: life, as the houre was juft falling on out heacta, amd if a econd fiock came, woula certaidy forry us loth; ! bade laer take hold of my arm, gid that I would eptea. vour to bring irer into fome pitac o! fecuraty.
- I thall atways look upon it as a vartiular provi= dence, that I happened on this accafion to be undrefied, for had 1 dreffed nistelf, as I propofed, when I got ou: of bed, in ordet to bre offat witia a friend, ithouid, in all protasit, have run jhito the freet at the beginning of the fhock, as the reft of the people in the houie did, and conifequently have had my brans dathed Gu', as very one of them had; however, t'e inmin at uatiger : was in did not hinder me from conherine that my prifons drefs, ouly a gown and flippers, would render my getting over the ruins aluott inpracticalate: I had, theretore, fill prefence of mind enougt left to put on a pair of thoes and a coat, the firft that came in my way, which was every thing I laved, and ia this diefs I hurried down flairs, the voman with mas holding by my arm, and made directly to that end
of the freet that opens to the Tagus, but finding the paffage this way entirely blocked up with the fallen bioufes to the height of their feconci ftories, turaed back to the other end which led into the uain freet (the commen thoroughfare to the palace) and having helped the woman over a valt heap of ruins, with no fmall hazard to my ewn life, juit as we were going into the freet, as there was one part I could not well climb over without the anif tance of ray hands, as well as fect, I defired her to let go her hold, which fhe did, remaining two or three foet behind me, at which time there fell a vat fone, from a tottering wall, and cruhed both ber and the child in pieces: fo difmal a fpectacle at any other time would have affected me in the higio ef degree, bure the dread I was in of fharing the fame fate mylelf, and the many infances of the fame kind which prefented themfelves all around, Fers too hoking to make me dwell a moment on this lingle object.
'I had now a long narrow freet to pafs, with the houles on each fide four or five forics high, ail very old, the greater part aiready thrown (io:(w), or continualiy falling, and threatening the poffor gers with inevitable dearli at every itep, numbers of whom lay killed before me, or what I thcught fir more deplorable-fo brnifed and wounded that they could not-fir to help themfelves. For my own part, as deftruction appeared to me unavoidable, I only withed I might be made an end of at once, and not have niy limbs broken, in which cafe I could expect nothing eife but to be left upon the fpot, lingering in mifery, like thefe poor unhappy wretches, without seceiving the leaft fuccour from any, perion.
- As fllf-prefervation, liowever, is the firf law ninature, thelefag thougbts did fo far prevaid, 3:


## 13)

to make me totally defpair. I proceeded on as taf as I couvericntly could, though with tle utnof caution, and having at length got clear of his horrid pitfige, If found myfeir fife and unhurt in ty Iarge open fpace before St. Pani's church, which had been thrown down a few minutes before, alid buried a great part of the congregation, that was generally pretdy numsrous, this being reckoned one of the nicft popuious parifhes in Lifbm. Here I licod fome time, confluering what I inould co, and not thinking my felf fafe in this tuation, I came to the refolution of climuing over the ruins of the weft end "f the church, in order to get to the river fide, that 1 might be removed, as far as potibie, from the tultering houfes, in cale of a fecond thuck.

- This, witi fome difficulty, I accompli hed, and there I found a prodioious concourfe of people, of both foxs, and of all ranks and condutons, among whean I obferved fome of the principal canons of lise patriarchai church, in their purple rouers and oche:s, as the fe all go in the habit of bithops; feeral priffis wato had run fom the afors in their icedotai veliments in the midf of their celebratig mafs; ladies half dreffed, and lone witlout toes; all thef, whom their mutual dangers had ere affembled as to a place of fafety, were on their fites it prayere, with the terrors of death in the ir untemances, every one ftriking, his breaft, and ying out incefantiy, Miferecorlia meu lios.
- In the midit of our devotions, the fecond great ock rame on, littie lefs violent than the firf, and mplered the ruin of thofe beidings which had en .lready much fhattered. The confternation iv bermete fo univerfal, that the floritks and cries Miferecor ia could be diftinctly heard from the Si. Catherine's bill at a confiderable diftance whither a vaft number of people bad likewife
retreated; at the fame time we could hear the fat of the pan church there, whereby many parton? wert jillej on the foot, and others mortally wound. ed. I un may judge of tire force of this huck when 1 inform you, it was fo violent, tat I conic scarce keep on my hoes, but it was attended with fame circumfances fill ni are dreadith than the for mer.-Un a Sudden I heard a geneal outcry, "I ho dea is coming in, we tali be all left.'- Upon this turning my eyes towards the river, whin in that place is near four miles broad, 1 could perceive : leaving and feting in a mot unaccountable rant ser, as no wind was firing: in an infant there ap pared, as rome fruall diftance, a large body of wa ter, rifting like a mountain; it came on forming amt roaring, and ruled towards the shore with fiat imp-tuolity, that we all immediately ran for ow lives as fat as poffinle; many were actually f ep a way, and the reft above their waif in water in good diftance from the banks. For my own part Iliad the varroweft escape, and houldecrtainly have been loft, had $\frac{1}{}$ not grasped a large beam that ia on the ground, till the water returind to its chamme which it dice aloft at the fame instant, with qua rapidity. As there now appeared at leaf as mic danger from the fa as the land, and I farce hone whether to retire for thelier, Itcok a fudden reid lotion of returning back with my cloaths ail drop ping, 10 the area of Si. Paul's: here I flood for time, and oblerved the hips tumbling and toflin about, as in a violent form; forme had broken the cables, and were curried to the other fide of th: Tagus; others were whirled round with incredib fvifmefs; ieveral large boats were turned keel ul wards; and all this wit out any wind, which feer ed the more aftonifhing. It was at the time which I am now freaking, that the fine new gus,
buit of rough mayble, an an simmenfe expenče, was entirely i llowed up, with all the people ous it, who had fled tilither for lafety, and had reafon to think themfelves out of danger in fucis a place; at the fine time a great nunber of boats, and inall Aficls, anchoed near it (all likewife full of poople, Who had reri (d thither for the fame purpote) were I frailowed un, as in a i, hirlool, ant never more papeard.
- This lat dreadtul incijert i did not fee with my own eyes, as it paffed three or four hone harows rone the frot where I then was, but I bade the account as here given from feveral menters of fhips, who were anchored within two or tiree huncred ards of the quay, and law the lihole cataftrophe. Dne of them in particular informed me, that when he fecond fhock came on, he could perceive the i: bole city waving backwards and fornards, like the fea when the wind firft begins to rile; that the agitation of the earth was to great even under the river, that it thres up his latre anchor from the noting, which tivam, as he terned it, on the furface of the water; that inmediately upon this exrao:dinasy concuffion, the river rofe at once near tweniy 'feet, and in a moment fubfided; at which infiant he faw the quay, with the whole concourfe of , reople upon it, link down, and at the fame time Every note of che boats and veffels that were near it were drawn into the cavity, which he fuppoles intantly lofed upon them, inalmeich as not the leaf ion of a breck was ever feen afterwards. This terount you may give full credit to, for as to the ofs of the veffels, it is confirmed by every body; and with reyard to the quay, I went myfeif a few days after, to convince mylelf of the truth, and could not fird even the ruins of a place, where I zad taken fo many agreeable walks, as this was the
enmman rendervous of the factory in the cool of the evenily ! found it all deep water, and in fome pasts tcarctly to be fathomed.
- Fins is the onily place I could learn which was fralluwed up in or abouthilion, though 7 law many large cracks and fiffires in difficent parts, and one oid phenomenon fimut not omit; which was communitaied to the by a frimed who had a houie and wine-cellas on the other fite of the river, viz, that the d.eifing-houfe being lifit terribly farken, which made all the famly run out, there prefentiy tel? do ws, a vait high rock near it, that upon, this the niver rofe and fublided in the manner aiready inentioned, and mmechacly a great number of frat? ffiures appeared in feveral contiguous-pieces of ground, wance there fpouted out like a jet, che ent a jarge quanticy of fine white fand, to a prodigions height.
- I had not been long in the area of St Paul's, when i felt the third fhock, which though owewhat lets violent than the two former, the tea wh h ed in again, and retired with the fame rapidity, and I remained up to my knees in water, though I bad goten upon a fmall eininence at fome diftace from the river, with the ruins of feveralinterieining homles to break its force. At this time ! tool: notice the waters retised fo impetuoully, that forse riftis were left quitedry, which rode in fesen fathon wate: the river thus continued alternately ruithing on and retiring feverai times together in fich fort, that it was jutly dreaded Lifoon wouid now :neét the fame fate, which a few years ago had befailen the city of * Lima.
' Perhaps you may think the prefent doleful fubjeet here concuded; hut, alas! the horsors of the firit of Noyember, are fufficient to fill a volume. -This hapremed in 576 ge.

As foen as it grew dark, another fcene prefented itfelf littie lefs fhocking than thole aiready delcribed - he whole city appeare $\frac{1}{\text { in }}$ ablaz?, which vas fo bright that I could ealily fee to read by it. It may be faid, without exagueration, it was on fire at leaft in a handred different places at once, and thus continued burning for fix days together, without intermifion, or the leaft attempt ben's made to ftop its progrefs.
'I could never dearin, that this terrible fire was owing to ary fubicraneous eruption, as fome rem purted, buc to three caules, whech all concurring at the fame time, wish nxur.ily account for the prodigious havock it inder, the firt of November buing All Saints Day, a high feftival among the Portsguele, every altar in every cinurch and chapel (tome of which have more than twenty) was illuminated with a number of wax tapers and lamps, as cufforizary; thefe fetting fire to the curtains and timber work that fell with the lhock, the confacration, foon fpread to the neighbouring boufes, and bsing there joined with the fires in the kitchen chimates, increafed to fuch a degree, that it migh eally have deftroyed the whole city, though no other caute had concurrad, efpecidily as it met with no interruption.

- But what would appear incredible to you, were the fact lefts pablic and notorious, is, that a gang of hardened vilains, who had ween condined, and got out of mion when the wall fell, at di. firt thock, were bufily employed in fetting fire to thole bui!. lings, which ilood lome chance of efcaping the gुeneral achumtion.
- the tire, by func means or other, marae raid to have dettroyed the whote cty, at latis soery thing int ivas grand $c$ a valuabie in at; and t.ee danaze on ithis occafion is ant to de eitima.ci.

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(18)
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- The whole nunber of perfons that perifaed, in chading thofe who were burnt, or after war is cruthcdto death vitailt digging in the ruins, is fuppoled, an the lowe ft caiculation, to amount to more than fixty thoufind; and though the damaye in other refpeas canmo becumpuied, ye: youmy furm fome ifer of it, when 1 aftite you, that this extemilic and opalniciey, is now nothing but a valt heap of suins, that the rich and poor are at prefent upoo a level, fome thousainds of families which bat the day tiefore had been eaf in thatir circumftances, being now fezetered about in the fields, wanting every coiveriency of hife, and fiading none able to relieve them
- A few dass after the firft confernation was om ver, I ventured duwn into the city, by the fafeet ways I could pick out, to fee if there was a porsbity of gerting a.jy thing out of my lojgings, but the ruins yere now fo atgenented by, the lite fire, that I was fo far from bsing abie to diftinguilh the individual fort where the houle food, that I could not even ditinguilh tae frect, amidit the mountains of forme and rubsilh which rofe on cre:y fide. Some days afier, I ventured down again with feveral poriters, who, hamg long pied in thefe parts of the town, were weil acquained with the fitua ion of particular houfes; by their afii tance, Iat laft difoovered. the foot; but was foolz con inced, that to cig for any thing thete, becite the danger of fuch an attempto would never anfer the expenco.
- On buth the times when I attenpped to make this fruitefes iearch, efpeci?!!y has firit, there came fush an intolurabie ftench from the dead bodies, that was ready to faint away, and though it did not feem to great this lutt cime, for i: had nearly bern more fatal to me, as : coattucted a fevtry by it, but. of white, God be praited, ther got the beto

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i. However, this made me fo cautious for the tire, that I avoided paling bear certain places, here the fRench was fo exccifive that people began dread an infection: a gentleman toil me, that ping into the town a few days after the earthWake, he fay feveral bodies lying in, the frets, me horribly mangled, as he fuppufed, by te gs, others hals burnt, fome quite rafted; and at in certain places, particularly near the doors churches, the: lay in vat heaps piled one upon wilber.'
Eixtraitod from: a Volume of Letters, pultifbed a few irs ago b; the Reversal Mr. Davy - See Gregory's canonry of Nit are vol and. page 396, to 375 inclu$T$, Second edition.

## EARTHQUAKES,

## In Calabria and Sicily, in $17^{83}$.

The year $17^{8} 3$ was fatally marked by the defolatwo f forme ul t ie molt fertile, molt beautiful, and ait celebrated provinces of Europe. The two Caarias, with 2 part of Sicily, were doomed to be a ene of the mont tremendous, and the molt fetal rtioquakes that ever. were known, even in thole lcanic regions, The first flock hap abed about on, on the fth of February, and was fo violent to inulin aloft the whole of Calabria in ruin. his was but that commencement of a 'fucceliion of ritquakes, which beginning from the city of mated, on the coat of the Cymene fed, pro. Led aloin the weitera coat to Cap: Spartirento, d up the extern as lar as Cape D Alice, toeing - whole of which pace not a turn iwo ba vaticoyed.
During twa years related frocks continued to
agitate the affrighted minds of the inhabitanis Calabria and Sicily, but the princips antiate arofe in the months af February and March in firf year. Far leveral mouths the earth continut in an unceafing eremor, which at certain interve if creafed to violent flooks, tome of which were beyon defription dreadiul. I:nefe thocks were fometime borizontal, whirling like a vortex; and fometmat by putations or beating from the bottom up ward and were at times fo violent that the heads of th largeit trees almolt tonched the ground on eiths fide. The rains, during agreat part of the tim were continual and vioient, often accempanied wit Iightning, and furious gruts of wind. All that pan of C.labria, which lay between the 3 Sti and 39: degrees, aflimed a new anpearance. Houfes, chure: es, towns, cities, and vilhages, were buried in on piomifcuous ruin. Mountains were detached fror their founiations, and carried to a conliderable dit tance. Kivers difappeared froin their beds, an again returned and overnowed the adjacent country Sereams of water fuddenly gathed out of the groutso and fprang to a contiderabe height. Large piece of the firface of the piain, feveral acres in extent were cartied ive hurdred teet from their forme fituation Lown into the bed of the river, and lef ftanding at neariv che diftance of a mile, furround ed by large plamations of olives and mulbery trees and cory growing as weli uruan them as uron the ground froan which tiog vicre feparatedt Amid! thefe feenes of devalation, the efeapes of fome ? the unhappy fuferers is exiremely wonderful. Som of the iahabitans of houles which were thrown to a conliderabie ditance, were dugout from their ruin whimet. Bat thele intances nere $f, w$, and thof who sere to fortunte as to preferve fheir lives in fuch tituations, were centint to purchafe exitence
the expence of broker limbsiand the noon dread1) contulions.

During this calamitous fence, it is impofliole to oncti e the horrors and wretchetnfs of the urhapy inhabitants. The jaws of death mere op ne to 10 wallow them up; ruin had hazed all their fofl thins, aud thole dear connections io which they nigh: have looked for correlation in their forro es, are for ever buried ir the merotefo alyfo. All lias un and defolation Thee comstonars indicate d extremity of affliction and cefpars, and the hole county formed a wide !ene or undeforibabie horror.
One of the mott remarkable towns which was efiroyed vas Cabal Nubia, where the Drictif Geace Grimaldi, with more than four thousand of c: fubyects, perifned ir the lame infant. An inahtiant happening to be on the fumpiai of a ejhthouring hill at the nomen of the mooc, and (10) ir rametr!y back to the refidence of his family, could tee 1:0 oiler 1:mairs of it than a white cion rich procecord from the ruins artie Louses. At Bagrara, about three thousand prions were killed, and hot fewer ai Radicina anu Palma. At Terra Nucva four lowland our hundred perifhed, and athernoreat Sen niari. The inhabitants of Scilla feed from, their heufes out the celebrated rock It that name, nd wit their prince, defended to litre harlourat the foot of the bill; but, in the ourfe of the nigh : a fupendous wave, which is ad to lave been driven three miles over land, on is return fwept a day the unfortunate prince, with wo thecuichic four thundered and feventy-three of ais subjects:' It is complect that not left than fory thourad perious perifhed by this earth quake.

Greg Econ. of nature, vol. and. page 375 to $378 . \mathrm{inct}$.

## Enritquakes in Sectianil:

A L.THO this liagdom is happily free fri the dreadful calamities experienced many other parts of the world, from thefe te ible convulfions of nature, yet occafional fhod of earthunates bate been fett in Scolland, with theiz 13 yests, William Crech, Kas in his thit letrex on Sir J. Sinclair, anneyed to the Statyiz Ac: cunt of Eldinhirsh, (vole V!. p. 6́24) amg otnet phofical phenomena, enumerates the folics ing: Upon the 10:h June, ${ }^{1} 786$, a froart Thock an tartit qual. e was felt a: Whithaven, in Cumb: land, which exiended to the fle of Man and $L$ tiin, and was alfo telt in the SW. parts of Scotlaw Dpon the 1 ith of Aug. i 785 , a very alarmi firck of an earthquake was felt about two ocle A. M. in the N. of Fnoland, viz. Norihumberlar Cumberland, and in Scotland, acrofs the ilhar and as far N . as Argylthire; and in all thete plac at the fame infiant of tiree. This dooch extend above 150 miles from S . to N . and 100 from to W:- UIa the $=5^{\text {th }} \mathrm{Jan} .178$, the river 1 viot tricame fuddénly dry, and continued fo for hours, and then flowed with its whal fulnti 'On the 2 oth Jan. 1787, a nart thock of earthquake was felt in the parifhes of Camplie at Sirathbiane, so miles $N$. of Glatgon, and abou: A. M. A rufhing noife was heard to precede t: gook from the $S E$. The night preceding it earthquake, a piece ef ground near Alloa, on whin a mill was tuilt, fuddenly funk a foot and a half", "On Ituriday. 5th Nov. ry89, bet cen. 5 and P. M, a fmart fhock of an earthquake, "as tert Crieff, at Comrie, and for many miles round th diftrict, which is about 55 miles from Edinburgh 8* At Mr. Robertfon's houte of Lawers, a rumblir noife like diftant thunder lad been heard at inte

Wats for two months; and at she time of the thock, arcife like the difctarge of difant artillery was diftinctiy heard. Mr. Dundas and Mr. Bure of Edinourgh, were fanding before the fire in the drawingroom, and they delcribed the mioct, as if a great mallet had fudcenly fituck the foundation of the houle with violence. At the vilage of Comrie, the inbabitants leit their houtes and ran to the open fields."-"On the 11th Nov. A. W. fin the fame place, annther foock was fele, which wos much more violent than that of the 5 th., It wes accominanied with a holiow rumbling noife. The ice on a piece of water near the boufe of havers, vas fhitered to atoms." Ms. Creech, after quoting from the Lominn Chiowte. the acm conat of the eart quak at Berge San Sef ero, on the 3 cth of Sipt. 1750 , adds, "It is V Iy ex raurdinary, that on the fame dar, near 3 P M, two on three diftinat thocks were felt at the houe (f) Prion's Greer, winin a mile of Edinburgh. The tonte is fituated on the . fide of Ariture's seat, which is campoted of an immenfe blut grarite. Several viftors were in the houcc io dine with the family, and the whole compan: ran doun flairs from the drawingroom, and nut the fervants from the kitchen, in the lobby, equally alamed at what had happened. They defcribed the feriaticr, as if the honfe had recejved two or three vioient blows in the foundation, fo that ali the furniture thook."- "Cn the 10 th Nov. $: 792$ three reptatad fhocks of an eartiquake, accompanied with a Shollow rumbling noife, like that of dittant thunder, were felt at Loch Rannoch, in Perih(hire." Mir. Creech concludes his account of thele and ott:er phyfical-phenomena, with an extract of a letter rom "Comrie, in Perthnfre," dated "Nov. 3 oth 1792," from uhich we flall only quote the facts lated. We have of late, been greatly alarmed with
$-(24)$
feretal very ferere fhocks of an earthquake. Th were more fenghle and alarming, than a!!y fa formerls, and the noite attendirg them was $u$ mommonly low and trenulaus [tappeared pr butly more fo, from the fillmely of the atmofphet and the reverberation of the furrounding mow: tins. The thonles wore greatly fraken, and furniture coffed from its place. The weather teen uncommonly rariable, and changed foo Jing segutsiof ind, to a deep calm, a few days h fore the feveref niocks of the earthquake. Tt air was nicin and hazy, and the clouds feeme. charged withet Etricity"

Enciciopacdia Pertborfis, qu!. yth EA.
Twe Sheciss of an Earthquake, (fimilar to thod Which began at the fame piace onne years ago, ha' been lately felt at and near Comric in Perthoir are on the 1, th of January, anc the other on th 24 th of February.

The motion of the Farth was from Weft to Fial and lafited at out tiol feconds, but the ?ubtetran cus noife which accompanied, it continsed muct longer.

Scots Magazine for MLarch, 179.

FINIS.

## Awful Phenomena

## of Nature

PART SECOND,

## VOLCANOS.



## AN ACCOUNT

OE Tiro

## GREAT AND DREADFELL

## Volcanic Eruptions, \&c.

Sruftion of Mount Etma in Sicily, 1?99.

MANY friking remains of the great eruption in 1669 are ftill to be feen, and will long ntinue as memorials of that dreadful event which verwihelmed Catania, and all the adjacent country. remendous earthquakes fhook the illand, and loud shterraneous bellowings were heard in the mounain. During fome weeks, the fon ceafed to appear, nd the day feemed changed into night. Borelli, who uas a witnels to thefe terrible phenomena, fays, that t length a rent, twelve miles in lengt $b$, was opened I the mountain, in rome places of which, when ley threw down fones, they could not hear them

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(2 \theta)
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reach the bottom. Burning rocks, fixity palms ir length, wee e thrown to the ditance of a able, and defer fores were carried these miles. Alter the molt violent fruggles, and a shaking of the whole inland, an immente torrent of lava guided from the rent, and faring ep into the air to the height of fixty palms, whence it poured down the mountain and overwhelmed every object in its way in on promifcuous ruin.

This deflective torrent, which burt from $t$ ! fade of Etna at a place called K icini, rufhed impe tuoufly againft the beautiful motinain of Monte lieri, and pierced into the ground to a confiderabl depth; then dividing and juriounding the mourn tain; it united again on the forth ide, and fours defolation upon the adjacent country. The fro greps of the torrent was at find at the rate of fere: miles a day, but it afterwards rock four days it travel fifteen; wherever it dirce.ed its course, the whole appearance of nature was charged, frena hills were formed in places which vire foimert valleys, and a large late u as fo entirely filled $v$ by the melted malls, as not to leave a vefige remain ing. In its courfe it defended upon a vineyard, ted longing to a convent of Jefuits, which was forme upon an ancient and probably a very thin layer $c$ lava, with a nun bet of caverns and crevices unde ir. The liquid mats entering into the fe excavation foo filled them ip; and ky degrees bore up thy yinsyate, which in a fecit time, to the great aft nifmment of the fptontors, began to move allay and was carried by the torrent to a confiderabil diftance. In 1770 forme remains of this vinegar were fill to be len, but the greater fart of it 112 entirely deftroyed.

In vain did the terrified inhabitants of Catania recur for protection to the miraculous veil, or ea,
pect defence from the lofty wa'ls of their city. Af.. ter deftroying feveral convents, churches, and vallages, this fury carrent lirected its courle to Catania, where it pared impetuoulfy over the ramparts, which are near fixty fret in heigar, and co$v=t e$ l un five of iss baftiuns, with the interieniag curtain: Aster laying wate a great part of this beautiful ciry, and eatirely defroying feveral valuable remains of antiquity, its furtber progrefs was fopped by the ocean, over whole b:nks it poured. its deftrustive current. In its cour fe from the rent in the mountain, till its arrival in the foa, it is faid, to have totally deft ofed the sropery of near thirty thoufand perfons.

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\text { Eruption of Mount Vifurius in Iialy, } 17.34 \text { - }
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TII mountain had been remarkably quiet for feven months before the late eruption, nor diw the ufal fnoke ifue from its crater, but attimes it emitted finall clou's of fmoke that finated. in the air in the Mape of-little troes. It was remarred by the Father Antonio di Petrizzi, a capuchin Irid: (who printed an account of the late crup. tion) from his convent clofe to t!se unfortunate pown of Corre del lireco, that for lome days preceding this eruption, a thick vipour was feen to furround the mountan, about a quarter of a mile beneath its crater, and it was obferved by him and athers at the fame time, that both the fun and the moon had often an unufual reddifin caft,

The water of the great fountain at Corre del Gicco began to decreafe fome days before the eruption, fo that the wheels of a corn mill, worked by chat water, moved very 0 bwly; it was necefiary in all the other wells of the cown and its neighbourrosd to lengthen the sopes dhaty, in order to reach
the water; and fome of the weils bocame sulite dry Aithough moft of the inhativats were fenible of this phenomerion, not one of them feems to hav fufpected the thir caufe of it. fiyht days allo be fore the exprion, a istan and wo boys, being in vireyard above Torre del Grecu, (aud precifely of the fput where one of the new mouths opened whence the principal eurrent of lava that deftrore the lown iffied) were mach alarmed by a ludde: puff of fmoke which iffied from the earth clofe : them, and was attended with a flight explofion.

Had this circumatance, with that of the fubte? rancous noifes, heard at Refina for two days befor the eruption (with the additional one of the dt creafe of water in the wells) been communicated a the time, it would have required no great forefigh to have been certain than an eruption of the volka no was near at hand, and that its force was dire: sed particularly towards that part of the mountair:

On the 12 th of June 1794 , in the worning, ther was a viokent fall of rain, and foon afer the intit bitants of Refins, fituated directly over the ancier. town of Herculaneum, here fenfible of a rumblin fubterraneous noife, which was not heard at N. ples.

From the monih of Janusry to the month May, the apmofphere had been generaily cain,s ans there was com!inued dry weather, Ia the mont of Nay there was a lictie rain, butthe weather w. unufually fultry. For fome days preceding the erus sion, the Duke deila. Torre, a learned and ingen? ous nubleman, who publihed $t$ wo lerters uponth fubject of the eruption, obferved by his electrome ters, that the atmofphere was hanged in ex e: with the elecuric Ruil, and contirued fo for leve ral days during the eruption.

About eleves g'ciork on the night of the i2t
of June, the intabitants of Naples were all tenfible of a violent fhock of an earthquake; the undulatory motion was evidently from eat to weft, and appeared to have la!ted near half a minute. The $\mathrm{k} y$, which had been quite clear, was foon after covered with black clouds. The inhabitants of the towns and villages, which are very numerous at the foot of Vefuvius, felt this earthquake ftill moze fenfibly, and fay, that the flock at firf was from the bottom upwards, after which followed the undulation from eaft to weft. This earthquake extended allover the Campagna Felice; and the royal palace at Caferta, which is fifteen miles from Naples, and one of the mof magnificent and folid buildings in Europe (the walls being eighteen feet thick) was Maken in fuch a manner as to caufe great alarm, and all the chamber bells ranc. It was likewife much felt at Beneventum, about thirty miles from Nidples; and at Ariano in Puglia, which is at a much greater diftance; both thete towns, indeed, have been of ten aflicted with earthquakes.

On. Sunday the $1 g^{\text {th }}$ of June, foon after ten o'clock at night, another thock of an earthquake was felt at Naples, but did not appear to be quite fo violent as that of the 12 th , nor did it laf fo long; at the fame mon. attended with a very black fmoke and a loud rew port, was feen to ifiue, and rife to a great height, from about the middle of the cone of Veluvius; foon after another of the fame kind broke out at fome little ditance lower down; then, as is fuppofed by the blowing up of a covered channel full of red hot lava, it had the appearance as if the lava had taken its courfe directly up the fteep cone of of the volcano. Frelh fountains fucceeded one another haftily, and all in a diref line tending, for about a mile and a half down, to wards the towns of

ReGina and Pore del Greco. Sir William ETon: ton could count Alteern of then, but between the were others obfcured by the indie. It lems pry table, that all there fountains of fire, from the being in fuss an exact line, proceeded from of and the fame long fiffure down the flasks of it mountain, and that the lava and other volcas! matter forced its way out of the widen parts of t crack, and formed there the little mountains at craters that will be defcrilsed in their, proper place It is impolible that any defcription can give all ide of the blazing feene, or of the horrid noifes it attended this great operation of nature. It was mixture of the londeft thunder, with incefint ri ports, like thole from a numerous heavy artiller accompanied by a continued hollow murmer, like that of the roaring of the o can during a violet form; arid, added to thele wis another blowim noife, like that oi the afceading of a large flight: of fky-rockets, or that which is produced by the at tin of the enormous bellows on the furnace of th Carton iron founders in Scotland. The feequer falling of the huge ftoneswand fcorix, which west thrown up to an incredible height from forme of $4 x$ new mouths, one of which having been fince me: fred by the Abbe Tat. was ten feet high, all thirty -five in circumference, contributed undoub: edly to the concuffon of the earth and air, whin kept all the houfes at Naples for feveral hours in constant tremor, every door and window thakin and rattling inctfantly, and the bells ringing This was an awful moment! The fizzy, from a bright full moon and ftarlight, began to be olffured; th moon had preferably the appearance of being in a. eclipie, and foin after was totally loft in obscurity The maimer of the prayers and lamentations of B.thenerus populace ichang various prozacs
and parading in the freets, added to the horror As the lava did not appear in have yet a fufficient vent, and it was nove evident that the eathquakes already felt had been occafioned by the air and fiery matter confind within the bowels of the mourtain, and probably at no fmall deprh (confidering the extent of thofe earthcual,es) sir Wifliam recommendell so the company that was with him. Who besm to be much alarmed, rather to go an I view the mountair at fome greater diftance, and in the open air, than to remain in the houfe, which was on the fea fide, and in the yori of Naples that is nearelt and moft expofed to Vefuvius. They accordingly proccededie Puflipo, and vieved the conflagration, now become fill nore confiderable, from the fea fide under that mountain; but whether from the eruption having increafed, or from the loud reports of the volcanic explohons being repedted by the mountain brhind them, the noife was much louder, and more alarming than tbat tbey kad heard in their firf poftion, at leat a mile nearer to Vefuvius After fometime, and wbich wes about two ociock in the morning of she $16: h$, having oberved that the lavas ran in abundanc:freely, and with.great velocity, laviag made a confiderable progre's toward: R.ana, the to w which it firt threatened, and that the fiery arours which fad been confined had now tree vent through many parts of a crack of ruote than a nitle and a half in lencth, as was evident fro a the guanity of inflam= ed marter and slack moke, which continued to iffue from the selv mouths above mentioned, withont any interruption, our author conclucied that at Naples all danger from earthquakes, which had. been his greateft appretienfion, was totally removed, and he returned to his former ftation at St. Lucis at Naples.

## (34)

All this time there was not the fmalleft appear
fire or fnol:e from the crater on the fummi Vefivius; bre the black fmake and aflies iffe cortinually from fo many new months, or crat formed an enormous and denfe body of clouds "c the whole mountain, and which began to give fil of being replete with the elatric fluid, by exhi ing flafes cif that fort of zior zag. lightring, wh in the volcapic language of the country is cal ficill, and which is the conftant attendant on moft violent eruptions.

Sir William Hamilton proceeds to remark, $t$ durng thirty gears that be had refided at Nap and ine which fpace of time he had been witnefs many eruptions of Vefuvius, of one fort or oth he never faw the cloud of fmoke replete with t electric fire, except in the two great eruptions 1767 , that of 1779 , and during this move form dable one. The eleetric fire, in the year 17 : that played confantly within the enormeus bia cloud over the rater of Vefuvius, and Feldom qu ted it, was exactly fmilar to that whit $\mathbf{h}$ is proct ed, on a very fmall feale, by the conductor of slectrical mashine communicating with an infult plate of glafs, thinly foread over with metallic $t$ ings, \&c. when the electric matter continues to pl over it in zig zag lines without quitting it. He r. not fenfle of any noife atiending that operatio in 1779; whereas the difcharge of the elestric matter from the volcanic clouds during this erups on, and particularly the lecond and third day saufed explofions. like thofe of the loudeft thunde and indeed the ftorms raifed evidently by the fo. power of the volcanc, refembled in every refper all other thunder-forms; the iighening falling ar. deftroging every thing in its courfe. The houl of the Marquis of Berio as S : Jozio, fituated at th
foct of Vefuvius, during one of thefe volcanic forms was fruck with lightning, which having fhattered many dorss and windows, and damaged the furniture, left for fome time a frong fmell of fulphur in the rooms it paffed through. Ou: of thefe gigantic and volcanic clou is, befilies the lightning, both during this eruption and that of 1799 , the author adds, be had, with many others, feen balls of fire iffue, and fome of $\cdot$ conflerable magnitude, which burfing in the air, produced nearly the fame eftect as that from the ajr-balorins in fire-works, the elec. tric fire that , (ame out having the appearance of the ferpents with which thofe fire-work baloons are of. ten filled. The day on which Naples was in the greatef danger from the voicanic clouds, two franll balls of fire, joined sogether i.y a mall link like a chain-fhot, fefl clotent his Cafino at Potilipo; they feparated, and one $f \cdot 11$ in the vineyard above the houle, and the other in the fea, fo clof: to it that he heard the folath in the 剔aver. The Abbe Tata, in his printed account of this eruption, men. tions an enormous ball of this kind which'flem out of the crater of Vefuvius while he was ftanding on the edge of it, and which burt in the air at tome difiance form the mountain, foor after which be heard a noife like the full if ftones, or of a heary fhower of hail. Dusing the eruption of the 1 gtin at night, few of the inhabitants of Naples, from the dreall of earthquakes; ventured to go to their beds. The common people were either empoyed in devout proceffions in the Areets, or were neeping on the quays and open places; the nobility and gentry, having caufed theix horfes to be taken from their carriages, flept in them in the fquares sund open places, or on the high roads juit bust of the town. Fur feveral days, while the vacante thonass of thunder and lightning luten, bus bubbicans it

## $\left(3^{6}\right)$

pipe fuer of the volcano, both on the fea fide and $t$ Somma fide, were cferfenfible of a tremor int earth, as well as of the concuffions in the air, $t$ at Naples only the eartiquakes of the 12 th a I $5^{\text {th }}$ of June were ditinetly and univerfally $f t$ this fair city cou'd not certainly have reffed, it not thafe earthouakes been fortunately of a 1 ll c duration. Thoughut this eruption, which won nued in force about tin dia; $s$, the fever of ti mountain, as has been remarked in former erup: ons, "howed iffelf to be in fome meafure periodica and generaliy was moft violent at the break of da at noon, aut at midnight.

About four o'clock in the morning of the ikth. the crater of Vefuvius began to fhew figns of bein npen, by fonae black frocke ifining out of it; an at day-break arother fmoke, tinged with red, iff ing from an opening near the crater, but on th. other ficle of the mountain, and tacing the tow of Ottaiano, fhewed that a new mouth hat opene. there from which a confiderable l'ream of lava ifful ed, and ran with great velocity through a wout which it burnt; ard having run about three mile in a few hours it ftopped before it had arrived at the vineyards and celtivared lards. The crater, and at the conical uart of $V$ efur ius, was foon invoived ir elou's and darknefs, and fo it remained fre fevera: days; but above thefe clouds, alihough of a great beight, frefh columns of imoke licre feen from the arater, rifing furioully nill higher, until the whole rofs remained in the ufual torm of a pine-tree; and in that gigantic mats of heavy clouds the ferilli, or volcanic lightnigg, was frequently. vifible, evenin the day time. Ahout five o'clook in the morring of the 16 th, the lava which had firft broken out from the feveral new mouths on the fouth fode of the roountain, hud reached she fea, and was
remning into it, havirg overwhelmed, burnt, and deftroyed the greatelt part of Torredel Greco, the principal fream of lava having taken its coarfe throngh the very center of the town. They offerved from Naples, that when the lava was in the vineyards in its way to the town, there iffued often, and in different parts of it, a bright pole flame, and very different from the deep red of the lava; this was occafinned by the burning of the trees that fuppurted the vines. Soon after the beginning of this eruption, afhes fell thick at the foot of the monn. tain, all the way from Portici to the Jorre del GreCO ; and what is remarlable, although there ne notat thit time any clonds in the sir, except thofe of faoke from the mountain, the afmes were wet, and accompanied with large drops of water, which vere to the tafle very falt; the soad, which is paved, was as vet as it there had been a heavy fhowar of rain. Thofe aflies were black and coarfe, like the fand of the fea-more, wherens thofe that fell there, and at Naples fome days after, were of a light-grey colour, and as fine as Spanifh fnoff; or on wder bark. They sontained many laline particles; hofe allies that lay on the grocind, expoled to the arning fun, had a coat of the white ft powder on their urfuce, which to the tafte was extremely falt and ungent. In the printul a count of the cruption y limanuel Scotti, doctor of phyfic anci profefion f philofophy in the univerfity of Naples; he turofes (which appears to be bighly probable) that the water which accompanied the fall of the alhes the beginning of the eruption, was procuced by ne mixture of the inflimmable and dephlogifticat. dair.
By the time that the lava had reached the fea, tween five and fix o'clock in the morning of the Sthy Yefuvius vas for completely iniolved in
darknefs, that the violent operation or eature the wis going an tliere could no longer be difcernes and fo it remained for feveral days; but the dreac ful noife, and the red tinge on the clouds over it inip of the mountain, were evident figns of the act vity of the fire undernesth The lava ran th fowly at Insre del Greco after it had reached th fea; and on the 1 th of June in the morning, i courfe was-ftopped, excepting that at times a litt rivulet of ligaid fire itted from under the fmokir fcorive into the rea, and caufed a hiffing noife, ar a white fmoke; at other times, a quantity of larel f. $\cdot$ riae were panhed off the furface of the body the lava into the Cea, difcovering that it was redh, under that furface; and even to the lat'er end Auguft the center of the thickeft part of the lat that covered the town retained its red heat. Tl breadth of the lava that ran into the rea, ar formed a new promentory there, after having d froyed the greateft part of the town of Toriee e Greco, having been exactly meafured by the dui della Torre, is of Englih feet 1204 . Its heigh: abo the fea is twelve feet, and as many feet under ut ter; fo that its whole height is $t$ venty-four feet; extends into the fea $6_{2} 6$ feet. The fea water w bailing is io a cauldron, where it wathed the fof of this nev formed promontory: and although c author was at leaft a hundred yards. from it, obfez ing that the fea fmoaked near his boat; he put l hand into the water, which was literally falde and by this time his boatmen obferved that pitch from the thottom of the boat was melting fo and lloating on the furface of the-fea, and that boat began to leak; he therefore retired haff from this pot, and landed at fome diftance from hot lava. The town of Torfe del Greco contais about. 18,000 inhabiants, all of whom (exespt

Bout 15 ; tho from either age or infirmity could not be moved, and were overorbelmed by the lava in their houfes) efcapod eitker to Caflel-a-mare, which was the ancient Stabiae, or to Naples; but the rapid progrefs of the lava was fuch, after it had attred its courfe from Refina; which town it firft threatened, and had joined a.frc.fh lava that iffued from one of the new moutles in a vinegard, about 2 mile from the town, that it ram like a torrent orct the town of Tor: e del Greco, allowing the unfortunate inhabitants farcely time to fave their li:es; their goods and effects were cotally abandoned, and indeed feveral of the inhabitants, whofe houfes had been furounded with lava while they senained in thenm, efcaped from them, and faved their lives the e Eolowing day, by coming out of the tops of their houfes, and walking over the fcoriae on the furface of the redhot lava. Five or fix old nuns were ta. ken cut of a convent in this manncr, on the 16 th of June, and carried over the hot lava; their flupidity !las furh, as not to liave been the leaft alarmed, or fenfible of their danger: one of upwards of ninety gears of arre was found actually warming herfelfai a point of redhot lava, which touched the window of her cell, and which the faid was very comfortable; and though now apprized of their danger, they were ftill very unwiling to leave the conpent, in which the had been fhut up almoft from their infancy, their ideas being as limited as the fpace they inhabited. Having bien defired to pack up whatever they had that was mont valuable, they all loaded thensfelves with bifcuits and fwee: meats, and it lias but by accident it was difrovered tlat they had left a furn of money behind them, which vias recovered for them.

The lava paffed over the center and beft part of the town; no part of the sati.edral semained above
it, except the upper part of a fquare brick tower, in which were the bells; and it is a curious circuanftance; that thofe bells, althourh they were neither cracked nor melted, were deprived of their tone as much as if thep had been cracked. When tise lava fitf entered the fea it threw up the waterto a frodigicus freignt; a ad particularly when two points of lava mat and inclofed a pool of wattr, that water was thrown up with great violence, and a lout repoat: at this time, as well as the day after alfo. a great many boild fith were feen floating on the furface of the fea.

The liva over the cathedral, and in other partg of the lown, is faid to be upwards of forty feet in thicknets; the general height of the lava during its whole courfe ras about twelve feet, and in fome parts not lefs than a mile in breadth.

When Sir William Hamiton siffeed it on the 17 :h of June, the tops of: the houfes were juit vinible here and there in fome parts, and the timoers whthinftll burning caufed a bright flame 10 ifthe out of the farface; in other parts, the fulphur and fatrg extaled in a white fmoke from the lava, form. ing a white or gellow craft on the fi orice reusid the foots where it iffued vith the greateit force. He often heard little explofions, and faw that they blew up like little mines, fragments of the feoriae and afles into the air; thele he fuppotes to have been cocafioned either by rarcfied air in confned cellars, or, perhaps, by fmall portic:is of guopow-- der taking fire, as few in that country are without a gun and fome little portion of gunpowder in their broufes. As the church feafts there are ufually at. tended with fireworks and crackers, a.firework. maker of the town had a very great quantiry of fireworks ready made for an approaching feaft, anc fome gunpowder, all of which had been hut up ir

his boufe be the lava a part of which had even antered one of the 100 ms ; yet he actually faved all inis Arewor's and gunpowder fome days after, by carrying them lafely over the foriae of the lavi, while it was red hot underneath. The heat in the ftrects of the town, at this time, was fo great as to rife the themometer to very near one hundred degrees, and clole to the hot lava it rofe much higher. Sir Williain remarked in his way home, that there was a much greater quantity of the petroleum floating on the furface of the fa, and diffuling a very ftrong and offenfive fmell, than was ufual; for at all times in calme, patches of this bituminous oil are to be feen floating on the furface of the fea between Portici and Naples, and particularly oppofite a viliage calted Pietra Bianca. The minute aftes continued falling at Naples; and the mountain, totally oblcured by them, contiaued to alarm the inhabisants with repeated loud explofions.

On Wedneflay June 18, the wind having for a Short fpace of time cleared away the thick cloud from the top of $\nabla$ efuvius, it was now difcovered that a great part of its crater, particularly on the weft fide oppofite Naples, had fallen in, which it probably did about four o'cloek in the morning of that day, as a violent fhock of an eartinquake was felt at that moment at Refina, and oiher parts fitu ated at the foot of the volcano. The clouds of fmoke, mixed with the athes, were of fuch a denfity as to appear to have the greate? difficulty.in forcing their paffage out of the now widly extended mouth of Vefuvius, which, fince the top: fell in, is defribed as not much hort of two miles in circumference. One cloud heaped on another, and fucceeciag one another incelfuntly; formed in a few hours fuch a gigantic and elevated coimm of the darkeft hue orer ithe mountain, as feemed to threa-
ten Naples with immediate defruction, havi at one time been bent over the city, and appearit to be much too mative and ponderous to rema long fufpended in the air; it was, befides, reple with the ferilli, or voleanic lightning, which ftronger than cominon lizhtning.

Vefuvius was at this time completely covered, were all the old black lavas, with a thick coat thofe fine light. grey afhes already fallen, which ga it a cold and horrid appearance; and in comparitc of the abovementioned enormous mats of cloud which certainly, however it may contradict our ide of the extenfion of our atmofphere, role many mild above the mountain, it appeared like a molehil although the perpendicular height of V.efuviu from the level of the fea, is more than three thot fand f:x hundered feet. The abbe Braccini, as af pears in his printed account of the eruption = MIunt Vefuvius in $1 \sigma_{3}$ r, meafured with a quadrar the elevation of a mafs of clouds of the fame nature which, was formed. over Vefiswus during, that grea eruption, and found it to excced thirty miles : heighr. Dr. Scotti, in his printed account of thi eruption, fays, that the height of this threat ning cloud of froke and alhes, meafured fron Naples, was found to be of an elevation, of thirt. degrees.

The fiorms of thunder and lightning, attence, at tin?:s with heavy falls of rain and alhes, caufing the molt deltructive tortents of water and gluatinou mud, mixed with huge fones, and trees torn up b, the roats, continued inore or lefs to afflich the inla bitants on both fides of the volcano until the ptho fuiy, when the lait torrent deftroyed many hun. died acris of cultivate. l land, between the towns a 'Tarre del Grico and Corre dell' Annuaziata. Som: of thele torreats, bethon the fea lide and the Som
ma fiele of the mountain, came derwn with a horrial rulhing noife; and fome of thein, after baving forced their way through the narrow gullies of the mountain, rofe to the height of more then twayty Feet, ond were near half a mile in extent. Thas mial, of whic! the torrents were compoted, being a kisd of natural mortar, completely cafed up and ruined forme thoufand acres of rich vineyards; for it foon becomes fo bard, that nothing lef's than a pickaxe can break it up.

The laudable curiofity of our author induced him to go upon Mount Vefuvins, as foon as it was confintent with any degree of prudence, which was not until the 3 oth of Juare, and even then it was attended with fome rik. The crater of Vefuvius, except at fhort intervals, bad been continually ob. fcured by the volcanic clouds from the roti, and was fo on that day, with frequent flathes of lightning piaying in thofe clouds, and attended as ulual uith a noile like thunder; and the fine alhes were Atill falting on Vefevius, but litll more on the mountain of Somma. Sir Willian went up the utual way by Relina, and obferved, in his way through that village, that many of the ftones of the pavenent had been loolared, and were deranged by the earthquakes, particularly by that of. the 1.8th, which attended the falling in of the crater of the volcano, and whichilad been fo violent as to throw many people down, and obliged all the inhabitants of Relina to quit their houles hafily, to which they did not dare return for two days. The beaves of all the vines were burnt by the alhes that had fallen on then; and many of the vines themfilves were buried under the athes, and great brancizes of the trees that fupported them had been thara o.l by. their weight. in fhort, nothing but sain and defolation. Was to je feen Liae ailes at

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the foot of the mountain were absinth te or tue iuchesthick on the furnace of the earth, but proportion as he afeended, their thicionefs indre est io feveral feet, no lets than nine or zen in for parts; to that the furnace of the old rugged lav that bafue was almond impranticabie, was now $b$ come a perfect plain. over whin he walked wit the cुerlet? eats The ales were of a light $g$ t colour, and exceedingly fine, fo that by the fou flops being marked on them as on frow, be lear that three finall parties had been up before him. H fay like wife the track of a fox, which appeared : have been quite bewildered, to judge from the m ny turns he hat inade. Even the traces of lizard and other little animals, and of infects, were vifibt on the le fie abbes. Sir Williams and his compar on afcended to the foot whence the lava of the 15 t. fins allied, and followed the courfe of it, which wa Sill very hot (athongis corned wish foch a thick coat of aches) quite down to the fa at Torte dst Greco, which is mote than live miles. It was no poffible to gct up to the great cater of Vefuyius nor had any one pet attempted ie. The horrid charms that exited from the foot were the late eruption firttook place, in a ftrait line for near wo miles towards the ea, cannot be imagined They ferment: vallies more than two hundred fie deep, and from half a mile to a mile wide; and where the fountains of fiery matter exited during the eruption, were little mountains wi h deep craters. Ten thoulund men, in as many years, could not make fuck an alteration on the face of Vefuvius. Except the exhalations of futphurousi and vitriolic vapours, which broke out from differeat finds of the line abovementioned, and tinged the forface of theathes and formae in thole parts with either a deep or pale-yello m , with a.reduh
chre colour, or a bright winter and in fome parts ith a deep green and azure biut fo rhat the whole gether lad the effect of an iris) a! !lad the a! * earance of a fandy defert. Our adienturers then ent on the top of feien of the moff conliderable of the new formed mountaine, and locked into their raters, which on tome of them appeare:; to be litCe fort of half 2 mile in circunference; and alaoegh the exterior perpendicular heigh of any. f them did not exceed two hundred feet, the epth of their inverted rone within was three times 5 greai. it would not have been pafilible to have realled on thefenew mourtains near their crate:s, If they lad not taken the precaution of tying a louble handkerchief over their mouths and nofrile; ind even with that precaution they could not refot lerg, the fumes of the vitriolic acid were fo excecingly pentirating: 1 of fuch a fufocating quality. Iley found in one a double crater, like wo tumels joined topetier; and in all there was ome little frooke and tepofitions of fats ard tulturs, of the rarious colcurs abovemeritioned, juft as is cormorily fecn adhering to the innor walls of he prisicipa! crater of Veiuvius.
Two or three days after they had been there, one of the new nocuths, irto which they had locked, ledderly made a great exploficn of ftores, fmoke, ard afies, which wculd ceitainly have proved tatal o any cne who might unforturately have been there at the time of the exploficn. We read of a Himilar ascident having proved fatal to more than twenty peeple $u$ tio tad the curicfity to look into the crater of the Monte Nucvo, near Puzzuoli, a lew days alter its formation, in the year 1538. The ${ }^{1} 5^{\text {th }}$ of Auguft, Sir William. faw a fudden explefron of in ohe and aflats thrown to an extreme beight sut of the great crater of Vefurius, that muft have
deftroyal any nme lithm half a mike of it: and y on the 19:h of July a party not only had vilited th crater, bur had defcended 170 fect within it. Whi they were on the mountain, two whirlwinds, ef attly like thofe that form water-fpouts at yea, mat their appearance; and one of them, which was ve near, made a firange rufhing noife, and having t ken up a great guantity of the fine thes, forme them into an elevated firal column, which, with whirling motion and great rapidity, was carrie towards the mountain of Somma, where it brok and was difperied. Ore of our author's fervant erployed in collecting of fulphur, or fal ammon ac, which cryftalizies near the fumaroli, as they ar called tand which are the fots whence the hot va pour jffues out of the frefh lava) found to his grea furprize, an exceeding celd wind iffue from a fifur very near the hot fumaroli upon his leg. In a vine yard not in the fame line with the new-former mountains juft defcribed, tut in a right line from them, at the diftance of little more than a mil from Torre del Greco, they found three or four more of thefe new-formed mountains with craters cut of which the lava flowed, and by uniting wits the freams that came from the higher mouths, anc adding to their heat and fluidity, enabled the whold current to make fo rapid a progrefs over the unfortunate town, as farcely to allow its inhabitants fufficient time to efcape with their lives. The rick vinevards belonging to the Torre del Greco, and which produced the wine called Lacrima Chrifti, that were buried and totally deftroyed by this lavas confifted of more than three thoufand acres; but the deftruction of the vineyards by the torrents of mud and water, at the foot of the mountain of Somma, was much more extenfive.

In that Iart of the country, the firf figns of a
reat that our author met with, was near the sit e of the Madenna dell' Arco, and be paffed feveral hers betreen that and the town of Ottai no; one ar Trochia, and two near the town of homma, re the moft confiderable, and not lefs thar a arter of a mile in breadth; and, according to the timony of eye witneffes; wher they poured down om from the mountain of Somma, they were from enty to thisty feet high; the matter of thefe torits was a liquid glatinous mud, compofed of fcoe, allies, flones (fome of an enormous fize) mix-
with trees that had been torn up by the roots. ch corrents, as it may well be imagined, were irtiftable, and carried off every thing before them; ufes, walls, trees, and not lefs than four thoum nd theep and other cattle. At Somma, a team eight oxen, which were drawing a large timber se were at once carried off, and never were heard more.
The appearance of thefe torrents was like that all other torrents in mountainous countries, expt that what had been mud was become a perfect ment, owhich nothing lefs than a pickaxe could ake any imprefion. The sineyards and cultivated nds were here much more ruined; and the limbs the trees much more torn by the weight of the hes, then thofe which have been already defcribon the fea fide of the volcano.
The abbe Tata, in his printed account of this uption, has given a good idea of the abundance, e great weight, and glutincus quality of thefe aft when he fays, that having taken a branch from fig-tree fill fanding near the town of Somma, on tich were only fix leaves, and two little umripe figs, id having weighed it with the alhes attached to it, found it to be thirigone ounces; when baving
 the es

In the town of Somma, war author found fo churches and about leventy houfes withou! roofs, a: full of anter. The great damage on that live of th molutain, by the dill of the alhes and the torrent happend on the 1 sifh, 19 'hith, and 20 th of Jun and on the 12 th of July. The $10^{t h}$, the afhes fo fo thick at Somma, that unlers a pution keprinmo tion, be was foon fixed to she ground by thent This fall of ahos was accompanied alln with lut reports, and frecuent flathes of the volcanic light ning, fo that, mrounded hy to many homors, it we imporibe for the inhabiranes to remain in the town and they all fled; the darknefs was fuch, alihough was mid-day, that even wi:h the heip of torches was farcely poffible to kecp in the ligh road. O the stih of July, fignor Guifeppe Sacco went up i the crater, and, according 10 bis accuunt, which he been printed at Naples, the crater is of an irregule oval form, and as he fupores (not having leen ab! to meafure it) of about a mile and a half in circun ference; the infide, as untal, in the fhape of an in verted cone, the inner walls of witch en the cafter fide are perpondicular; but on the weteenn fide e the water, which is much lower, the defcent was prat ticable, and Sacco with fone of his companions ao mally went down ore hundred and feventy-fix palion from whici fict, having lowered a cord with a fter: tied to it, they fornd the whole depth of the crate to be about five hundred palms. Bur fuch obferva tions on the crater of Vefuvius are of little coufo quence, as both is form and apparent depth ar fubject to great alterations from day 10 day.

> Greg. Econ. of Nature, Vol. 2nd page $33^{1 .}-33$ $335-35$

## Awful Phenomena

## of Nature,

PART THIRD,

## SEA STORMS.



## MELANCHOLY CONSEQUENCES

## Sea Storms, \&ec

2account of the Ship ureck of a Portuguefe Surww. on her paffage from Goa to Madras -in the year 1782 , rciated by one of the Sufficers.

T was, now the eightenth of May when we failed from cioa. The hemifpiere had been fome days overcaft with couds: fone light ,wers of rain had fallen; and it certain!y did not d to raife my fpirits, and free me from my omios apprehenlions, to hear that thofe circumftances licated an approaching gale of uind. I oblerved', reover, that the veffel was much too deef in the ter, being greatly overloaced-that Ree was in ny refpects defective, and, as the feamen fay, illnd, and in fhort very unfit to encounter a gale wind of any violence. Ifcorsed, however, to

## ( 52 )

rich to tho fe unite impactions, and determine to proceed:
"On the nineteenth, the fay was alfoured immenfe fleeces of colds, surcharged with info mable matter; and i.: the evening, the rain in torrents, the Firmament darkened apace, fude wight caine on, and the horrors of extreme dark were rendered fill more horrible be the peals thunder: which rent the air, th the frequent flat es of lightring, which fervid only to thew horror of our fixation, and leave us in increate darknets: mean time the wind became mote vice blowing on the hort; and a heavy fa, r. iced its force, united with it to man: our fate more midatle.
"By day light on the morning of the twerti the gale had increased to a fundus tempest; ard lea, keeping pace with it, ran mountain high; $\therefore$ it kept invariably to the fame point, the cap and officers becania ferioufly alarmed, and alt persuaded that the' fouth-iveit monsoon had fat which, if it were fo, would reader it ablolu impoffibie for us to weather the coal. All day, However, we heft as clofe as the violence the weather llou!d allow us to the wind: but sea canted fer head 10 in leeward, that the re more lee than head-liay; and the rigging wa. trained with the work, that we lad little hop ld weeping off the frore, valets the wind charged s which there was not now lie fmalleft probab Wiring the night there was no intetmition of ff? ilorm: many of the fails blew into ribbonds; 1 of the rigging was carried away, and foch of tons were made, that, before morning, every that could polfibly be ftruck was down upon 5 keck.
$\therefore$ About fever o'clock on the morning o:

## (53)

cento. firn, I was alarmed by an unuival maine pan the deck, and running lop, perceived that pry remaining fail in. the veii, the fore fail one excepted, was totali, carried array. The fight as horrible, and the whole vefiel prefented a rectacle as dreadful to the feelings as mortifying to oman pride. Fear hal produces, not only all the ipleffuefs of defpondencr, but a! the mischievous asks of infinity. In one place food the tiptain, wing, tamping; and tearing his hair in handfuls om his head--here, forme of the crew were caff on their knee:., cla!pisg their hands, and provis: with all the extravagance of horror painted in heir taces-there, others were flogging their impes with all their might, calling upon them to allay re form. One of our naffengers, who was purfer fan Engin Elf Indianian, he got hold of a catebottle of ram, and with a's air of diffraction and sep difair imptintet in his face, was talking aot h in his flirt. I perceived him to be on the Dint of Curving it about, in large tumblers, to the w undismayed people; and well convinced, thai, far from alleviating, it would sharpen the horrors if their mind; I went forward, and with much dicult prevented him
"Having ascom lifted this point, I applied myif to the captain, and endeavoured to bring him 3. $k$ (if peffibie) to his recuile?tion, and to a feme f what re olved to his duty as a commander, and , his dignity as a mas: Lexhor:-d him to encouage the tailors by his example; and trove to rail? is fpirits, by faring that the form did not appear one by any means fo terrible as forme I had before spervenced.
"While I was thus employed, we hipped a ion n the firrbaral file, which 1 really thought would ave font us down. The tefl teemed to fink be-
neath its weight, finivered, and pemaimed mutic lefs-it was a momert of critical suipenfe: fari? made me think I feit her graduaily defcen ing-i gave myfelf ip as gone, and fammened my fortitude to beat approaching death with coming márihool.
"Jult at this crifis, the water, which runt with incredibie force though all parts of the veft brought out doating, and neariy fuffocated, ar ther Englith paffenger, who lias endeavouring take a litile repofs ina fasell catin boarded oft fro the deck: he was a very fout young nann, and of true foirit. Finding that che veffel was not, at had thought, going immediately down, he join me in exhorting the exptain to his duiy: we t" fuaded bim to throw the guns overboard, as weli a number of trunk satd packaģes with inutia : seffel was much encumbered; and with iome lit exirion, we got the pumps tet a going."

The name of the Eauith pafenger juit mentic ed' was Holl. He was a young inan of a moft an able difpofition, and with it poffeffed all that mat fpirit that gives prefence of inind in exigences danger. He, and Capt. Campbell hasing, wi great difficuity, got forre liandes to fick to t pumps, llood at the whee, at once to anile t men, and provint them from quitting it: and though hopetefs, cetermined that no eflort prét cable on their parts hould be wanting to the pi fervation of the veffel. The water, however, ga: ed upon the pumps, not withitanding every efro: and it evidentiy appeard that they could rot ke her lorg atooe twater.

Altan obece the wind feemed to increale, arnonated io a dowatighthursicane: ihe lky w forentirely ubfured wita black clouds, and the ra fell fo thick, that objects were not difcomat
rom the wheel to the Mip's head. Soon the pumpre vere choaked, and could no longer be worked: hen difnay feized on all-nothing but unutterable lefpair, filent anguih, and horror, wrought up to renzy, was to be feen; not a fingle foul was capaple of an effort to be ufeful-all feemed more deirous to extinguifh their calamities by embracing leath, than willing, by a painful exertion, to svoid it.
At about eleven o'clock they could plainly dif= inyuifin a dreaiful roaring noife, refembling that f waves rolling againtt rocks; but the darknefs of he day, and the accompanying rains, prevented hem from reeing any ditance; and it it were a oock, they might be actually dained to pieces on it befere they could perceive it. At twelve o'clock, however, the weatler cleared up a little, and both the wind and the fea feemed to have abated: the very expanfion of the profpect round the fhip was exhilarating; and as the weather grew better, and the fea lefs furious, the fenfes of the people returned, and the geacral itupefaction began to de. creare.

The weather continuing to cleay up, they in fome time difiovered breakers and larye rocks without fide of them: fo that it appeared they muft have paffed quite clofe to them, and were now fairly hemmed in beteeen them and the land.
"In this very critical juncture," fays our travel. ler, "the captain, entirely contrary to my opinion, adonted the dancerous refolution of letting go a! anchor, to bring her up with her hedil to the fa: but, though no feaman, oy common fenfe thld me that he could never ride it out, but muft directly go down. Гie event nearly juftified my judgment; for the had farcely been at an: nor be. tore an enormous fea rulizg over her, overwhelm-
ed and thed her with witer, andevery one on bex conctused that fire was certainly finking. On ? inftant, a Lafcar, with a prefence of miud wort an old Englifh mariner, took an axe, ran forwar and cut the cable."

Ois finting herfelffere, the veffel again floate and made an effort to right herfelf; but fhe was mort completely water-logged, and heeled to le board fo much, that the gunnel lay under wat They then endeavoured to fteer as fait as they coy for the land, waich they knew could not be at at great diftance, thougt they were unable no difeov it through the hazy weather: the fore-fall was loc ened; by great effurts in bailing, the riginted little, her gumnel was got above watar, 2nid tho fudded as well as they could beforc the win which ftill blew hard or fhore; asil about tiv o'clock the land appeared at a finail diftance head.

The love of life countervails all other confider: tions in the mind of man. The uncertainty the were under with regard to the fhore before therd which they had reaton to believe was part of Hycle Alli's dominions, where they fhould meet with th moft rigorous treament, if not ultimate death, wa forgotten in the joyful hope of faving life, and the fcudded towards the thore in all the exulting tran: ports of a peopie juft foatched from the jaus c death.

This gleam of happinels, however, continue not long: a tremendous fea rolling after thenr broke over their ferm, tore every thing betore it flove in the ftecrige, carried awav the rudder, hii rered tie wher to pieces, and tore up the ver? ring-bolts of the deck-convegeat thé men inhofowe at tha whet formar!, and frept them nemboar-l Captain C.mpbel: was haodimat a: the time, neal
le wheel, and fortimately inad liolat of the taffarel, hich enabled hian to refit in port the weight of he wave. be wis, however, fwept off his feer, Id dafhed againft the main-maft. The jerk from e taffirel, which he heki very renaciouily, feen:1 as if it would have diflocated his aras: it breke, owever the impetus of his motion, and in all proability faved him foom being dafied to pieces aainft the maft.
"I floundered about," fays be, "in the water : the foot of the maf, till at lergeh I got on my er, and fezzed a rope, which Lield in a flate of reat embarctiment, cubious what I fhould do to xtricati myfelf. At this inflant I perceived that fr. Hall batl got upon the caplicrn, and was wawno his hand to me to follow his rxample: this I viflee: to do, though it was an enterprife of fome ifk and difficulty; for, if I !oft the hold I had, a ingle motion of the veffel, or a fail wave, would ertainly carry me overboard. I made a bold puns, onever, and fortunately accomplịed it. Havng attained this fation, 1 could the betier furvey he wreck, and faw that the water was nearly breatiji h on the quarter deck for the veffel was deepwained); and I perceived the unfortumate Englig ourfer ftandiag, where the water was noft hallow, is if watching with paient expectation its rifing, ind awaiting death: I called to him to come to us, out lie fhook his bead in difpair, and raid, in a la. mentable tose, "t is all o.e: with us! God have mercy upon us!"- then ferted himfelf with feemfing compofure on a chair whi h bappened to be rolling about in the wreck of the deck, and in a few minutes aiterwards was wafhed ivto the fea along with it; where he was fpeedily releafed from a. fate ten thoufand times werfe than ceath.
"During this univerfal wreck ofthings, the Ler.

## ( $5^{8}$ )

ror I was in could not prevent wie from oblervi? a very curious circumftance, which at any ot tine would have expited laughter, "though now produced no other emotion tban furprife. Wer pened to be in part liden with mangoes, of wh the ifland of Goa is known to rroduce the fineft the sorld, fome of them lay in bafkers on the no a lit"le black bny, in the monent of greatcit da ger, hau got feated by them, devouring them vo cioully, and crying all the time mof. bitterly at t horrors of his fituation!
"The veffel now got completeig water-loggy and Mr. Hal and I were employed in formiag ce jectural calulations how many minutes the cot keep above water, and confoling ore aneiber on $r$ unformate circumftarices ynder which we nett lamenting that fate had thus brought us acquaint only to make us witneffes of each other's miles and then to fee one another ne more.
"As the larboard fide of the velfel was gradua gning down, the deck, and of courle the caplter became too nearly perpendicular for us to contin on it: we therefore forfaw the niceffy y dettin it, and got upon the farbuard ficle, holding faft the gunnel, and allorving aur bodies and legs vield to the fea as it broke over us. Thus we co finued for fome time: at length the feverity of tl labour foentirely exhaufted our ferength and firis that our befthope feemed to be a fpeedy conclufie to our painful death; and we began to have ferio intentions of leting go our hold, and yielding ou

- feives up at once-to the fury of the waves.
"The veliel, which all this time drifted "ith tr fea and ivind, gradualiy approximated the fhor and at length ftruck the ground, which for an ir ftant revived our almof departed hopes; but w foon found that it did not in the fmallef degre


## ( 59 ).

better our fituation. Ausin I begran to yied to utter defpair-again I thungit of letring go my huld, aid finhing at once: it is inpoifiole, ibought $I$, even to efe ppewhy, ther, prolong, for a few wh nutes, a painitu exitance that muit at jait be given up? Yet, yet, the ail-fubsuing love of life fuguetied, that many things apparenty impolibie had come to $p+f ;$ and I iaid to mbleif, It.ife is to be loft, why liot lofe it in a glorious atruggle? Siould I furvive ir by accitent, hife will be rendered doubly fweet to me, and I Itill more worthy of it by perfeve-ing fortiluje.
"White I was empleged in this train of reflectiun, I perceived fonse of the peopie coliegting together, talkint, and bo dum a confultation: it immediarely occured to me, that they were devifing tome plan for ef aping frows the wee $k$, and setting on lliore: and, to nataral is it for man to cting to his'felow creature for fupport in diflicult or dangerous exigences, that I propuled to a r. Hall to jois them, and take a fanare in che exre ation of the pian -oblerving to him at the fame time, that I was determined at ail events to gnit the refirl, and trult to the procection and guigance of a fuperintending Providence for the relt.
"As prodigality of life is, in fome cafes, the ça cefs of virtue and courage-lo there are others in which it is vice, meanneis and cowardice. Irue sourage is, according to the ircumitances under which it is to operate, as rigidyly tenarious and virilant of life in one cafe, as it is inditerent and regardlefs in another; and I think it is a very flrange contradidtion in the human heurt falthough it often lappens), that a. man who has the moit unbounded courage, feeking death even in the canun's mouth, fhall yet want the neceflary refolution to make : exertions to tave his life in cales of ordinary

## (60)

dan er. The unfortunate Englifit purfer could in collcei courage fufficient to make an effert to fa himfelt; and yet I think it probable that he wot have faced a batiery of artillery, or expofed hi felf to a piftol thot, if occation required, as foon anv oiher mat. Thus it appears at fift viev: biay not this feeming insonoruity be explained faying, that perfonai co: age and fortitude are d ferent quaities of the ryind and body, and depet upon the exercife of entively differenr functions?
'Be that as it may, [argued with minfêf, in t1 beight of my calanitous fituation, upon tie fubic of furtitude and dejection, courdge and cowardic aind, now ithtanding the ferious afpect of affir found myfelf lifitning to the fug elitions of prid what a palery thing to yield, while ftrength is ie to ftruggle! Vanity herfilf had her hint, and whi pered, "Slucuid I efcape by an effort of thy ows what a giorious theme of exultation!" There werd I confets, tranfitory inages in my mind, whit co operating with the natural attachment to felf pre iervation, nade me perfevere, and refoive to do fat while one veffig: of tope was left for the thind: dwell on:
"Obierving as I laid before, the people confuit ing together, and refolving to join them, I made as effors to get to the lee hironds, where they wet, ftanding, or rutier clinging; but before I coult ac complith it, I loft nay hoid, fe!! down the hatchawa! the gratings having been carried away with the long boat), and was for fome minutes enranglea there among a heap of packages, which the violent fluctuations of the water had colliected on the les: fide. As the veffel moved with the fea, and the water flowed in, the packages and I were rolled together $\rightarrow$ fometimes one, formetimes another upo purmoft; fo that 1 begas to be appreluenfive I
fould not be able to extricate myfelf: by the mereft accident, however, i yrafped lowething that hay i: my way, made a vigorous fpring, and ganed the lee fhrouis. Mr. Hall who followed me, in lize ing the hiroued, was driven againft me with fuch violence, that 1 could farcely retajn miy hoid of the rigging.
"Cump lled by the perilous fituation in vih, h I food, I ralled out to him for God's fake to keep off, for that I was rendered quite brcathefs and woincut: he generouly efideavoured to make way for nee, and, in to coing, unfortunately int his loid, and wint down under the fhip's fide. Never, never ihulil iorget my fenfations, at this melancho-. iy incident - I would bave given millions of worlds that con'd ave recalled the words which made him move; ny unind was wound up to the laft pitch of arguili: ! may tru'y fay, that this was the moft bitior of all the bitior moments of my life, compar$\overline{e d}$ with which the otiser circumitaces of the itip. wreck feemed iffened- for 1 had infemfily acquitred an unfual efteem and warmattachment for him, and was divubiful whether, after being even the inrocent a, caliun of his falling, I' ought to take further pains to preferve my own life. All dofe fenfations were paffing with the rapidity of lightring through'my thoughts, when, as much to my aftunifhment as to mi; joy, I fave him borne by a returning wave, and thrown among the very packion ges from which 1 had but juft before, with fuch las. bour and difficulty, extricated myfelf. In the end he proved equally foriunate, but, after a much longer and haruer firuggle, and after futtaining mucti more injury.
"I once more changed my fation, and made my way to the poop, where I found mylelf ratber more fheltered-\} earneftly wifhed Mr. Hall to be

## ( 62 )

with me, whateyer might be niy ciltinate fate ant heckmed him to come near sae; but he on an erat by tiaking his head, in a feeble, defpon? ing mancie-taring at the fame time wildiy abo him: even his Ipirit was fublued; and delpair. perceivet, had begun to take poffeffion of his min:
"Bein; a litile nore at eafe in my new ftatic than ! had been before, I liad more time to delio rate. and more poiver to judge. 1 recollected, the according to the courfe of time, the day was'f gove ant the night quickly approaching; I reided ed, that for anventeryize whitever day was mue preferabie to night; and above all I conflutered, the the velitel could not hold long toge:ber - therefo thought, that the beff ciode I could adopt woit be, to take to the water with the firit buayant ethit 1 could fee; and, as the wind and water both feemo to run to the fhose, to take niy chance in that w: of réaching it. In purfuance of chis refolution, tore off my fhirt, having before that thrown of is other parts of iny drefs-I looked at my fleeve but tone, in which was fet the bair of my departed ch dren-and, by an involuntary acti of the janging tion, athed myfe.f the queftion, "Shall' 1 be hapg enough to meer them where I ath now about go?'-Shall thofe dear latt remaiss, too, become prey to the devouring deep?"- In that infant, re don, fufpended by the horrors of thie fcene,' gat way to initinet. and I rolled aiv fhirt up, and ve carefully thruft it into a hole between decks, wit the wild hopes that the fleeve buttons migity efcape untouched. Warching my opportuaity, faw a $\log$ of wood floating near the veffer, an waving my hand to Mr. Hall as a laft adieu, jum ed after it. Here, again, I was toomed to aggr vated hardhips-I had farcely touched the 11 when a great fea fnatched if from my bold: fill
it came near me, I grafpect at it ineer- ifnally, till at latt it was completciy carried ayay, but not before it had cut and batiered and bruifed me in teveral places, and in a manner that at any other time [ foould have thoughe direadful.
" Death feened inevitable; and ali that occurred to me now to do, was to accelerate it, and get out af its tanes as fuectily as pofitele: for, though 1 knew hoin whim; the iremendous furf rendered fwimmind ufeles, and all hope from it would have been ridiculous. I therefore began to fwallow as inuch water as poffibie; yet, fitil rifing by the buonant primcifle of the waves to the furface, my former theughis began to recur; and whether it was that, or natural inftinet, which furvived the temporesy imprefidras of detpuir, 1 kno not; but 1 encieavcured 10 fwim , whitii 1 had not done lung, when I aydir sifcovered the lng of woul I had iof Hoeting near me, and with fome difficulty caueht it: hardly had it been an infiant in my hancs, when, un the fame unlucky an ans I loft it again. I had ofien heard. it faid in Scctland, that if a man wiit throw hinfelf flat on his back "in the water, lit quire ftraight and fiff, and iuffer himfelf to link till the water gets into his ears, he will continue to float fo for ever: this oicurred to me now; and I determined to try the experiment; fo 1 ll rew myfelf on my back in the manner I have defcribed, and lefimyfelf to the difpofal of Providenct; nor was it long before I fuind the truth of the faying-for I floated with hardiy an effort, and began for the firft time to conceive fomething like hopes of prefervation,
"After lying in this manner, committed to the difcretion of the tides, I foon faw the veffel-faw that it was at a confiderable diftance behind me. Livetieft hope began to play about my heart, and joy fluttered with a thoulanci gay fancies in my mind: I hegan to form the favourable conclufiong:
that the tide : as carrying me rapilly to land fiof tion vifl, and that I favuid foon once more tead ternajirna.
"This expectation was a cordial that revived m exhaulted fpisis: i took courage, and left myfel ftill to the fame all-ditcting Power that had h therto prefe: veime, fcarcely doubting that I fiout foon reach the land. Nor was 1 miftakin;-5.r, a Mort time more, without effort or exertion, an witiout once turning from of my back, Ifoun myretf frike aguint the fandy beach. Optrjoye to the higheft piech of tranfport at my providenti at delicrance, I niade a convulfive foring, and ran up a little difance on the fhore; but was fo weat and worn do $n$ sy fatigue, and lo usable to clea my fomach of the fait water with which it wa loaded, that I fudden:y grew deadiy fik, and ap preherded that I had only exchangenore death if another; and in a minute or two fainted a way."

> Cimplel's overlaid Journey th I:aiza, Page $15,-175$.

Nairativ: of the Lofs of the Halfowel Eaft Itdiaman: on the coryt of Dorfetfloire, Junuary 1786.

THE Mallewell Eatt-indiamen, of 758 tons burthen, commanded by Richara Pierce Efit failed throggh the Downs on bunday the ift of January, 1786 , and the nex: morning being a breat of Dunnofe, it fell calm.

Monday the 2 d of January, at' three in the after noon, a breeze fprung up frem the South, when they ran In fhore to land the pilot, but very thich weather coming on in the evering, and the winc bafling, at aine in the evening they were obligec to anchor in eighteen fathom water, furied their topfails, but could not furl their courfes, the finow falling thick, and freezing as is fell.

Tutcday the 3 d , at four in the morning, a trong gale came on from Eaft-Nore-Eaft, aní! the hip drving, they were obliged to cut their cailes, ind run off to fea. At noor, they fpoke with a big bound to Dublin, and having put their piot on board her, bore down Channel immediacel;. A? fight in the evening, the aind frefhening and comng to the Southward, they reefed futh fails as were ladged receffarg. At ten at right it blew a violent ale of wind at South, and they wate obliged to arry a prefs of fail to ketp the Mip off thore, in loing which the hawte plugs, which acecoding to a new improvement were put inhle, were urathed in, and the hawfe bags wa?hed away, in confequence of Whith they Mipped a large quantity of water on the gun dect

On founding the well, and finding the ihip ilat rprung a leak, and bad fiee feet water in her held, they clued the main top fail up, bauled up the maine [a:1, and immediately endeavoured to furl hoth, but could not cffect it-All the pumps were fet to work on difcovering the leak.

Wednefday the ath, at two in the morning, they errdeavoured to wear the fhip, but without tuecefs, and judging it necerfary to cut away the mizenm mant it was imbediately done, and a fecond atempt made to wear the Mip, which fucceeded no bettice than the former; and the thip having now fevea feet water in ber hold, and gaining faft on the pumps, it was thought expruient. for the prefervation of the hip, to cut away the mainmalt, the fip appearing to be in immediate cianger of foun. dering.

At ten in the morning the wind abated confiderably, and the hip labouring extiem:ly, rolled the fore top-mant over on the larboard lide, in the fall, the wreck nent through the fore-fail, and tore it to
pieces. At cleven in the forenoon, the wind cal to the Weft-ward, and the weather clearing up, Berry-head was diftinguiflable bearing North a by Eaff, diftant four or five leagues; they ? immediately bent arother fore fail, erected a ju main-maft, and fet a top-gallant fail for a mat fail, under which fail they bore up for Portmout and employed the remainder of the day in getti up a jury mizen-man.

About two in the morning on Friday the 6 the thip fill driving, and approaching very fait the Chore, Mr. Henry Vieriton, wert into the cu: dy, where the Cartain then was, and a co verfation took place, Captain Pierce exprefing e treme anxiety for the prefervation of his below daughters, and cameitis afling the afices if could devife any means of faving them, and on t anfwerint with great concern that be feared it wout be impofible, but that their only chance would to wait for the morning, the Captain Iifted up 1 hands in filent and difrefsful ejaculation.

At this dreadful moment the fhip ftruck wit fuch siolence as to dafle the bads of thole wh were ftanding iow the cuddy, againft the deck abor them, and the fatal blow was accompanied by flariek of lorror, which bu:f at one inftant from very guarter of the lhip.

Dir. Neriton, the officer, whom we have alreat mentioned, at this crifis of haror, offired to th defponting crew, the beftadvice which could pot foly be given to them; he recommended ther com ing all to that fide of the finip which lay loweft af the rock=, and lingly to alse the opportmities whic misht than witier of eforimg to the thore. An hating thus arovided to the umoit of his powen for their farety, he returned to the round houf where by this time all the parfingers, and mort
he ofrees were aftembled, the latter employed in fering confolation to the unfortunate ladies, and with unparaleled magnanianit,, fuffering their comafion tor the fair and amiable companions of their mifforrunes, to get the better of the fente of their in danrer, and the dread of almoft inevitable anhihiliation. at this moment, what muit be the feelnes of a Eaiher-of fuch a Faiher as Captain Perce!

The ihip feruck on the rocks at or near Seacombe, n the ifland of Purbeck, between Pevercl. Moint, nd Si: Albans head, at a part of the thore where ine clifi is of a vait height, and ilifes almoft perpenlicular frem its bale.

But at this particular fot the clif is excavated at he foot, and preients a cavern of ren or twelve 7 aids in depth, and of breadth equal to the length of a large flap, the ides of the cavern fo nearly !!pright as to be extremely difficult of accefs, the roof formed of the \&upendous cliff, and the bitiom of it Arewed with harr? and uneven rocks, which feem to have beea rent from above by fome convaifion of Nature.

It was at the mouth of this cavern that the unfortunate wrext: iny hrethed almo? from fide to fide of. it, and cficricis her broadide to the horrid chafor.

But at the time the fip fruck it was too dark to difeover the exient of their danger, and the extreme iorfor of their fituation; even Mir. Ne ion himfelf conceved a bope ciat the might keep together till day ligit, and endeavoured to chear ins drooping frienis, and in particular the unhappy 1 adies, with tinis compuravie expectation, as an anfrer to the Captan's enquiries, haw they went o:3, or what he thooght of their filuation.

In addition ios the company already in the round-
houre，they had ajnitted three black women，a two foldiers wives，who with the huroand of one them had been permitted to come in，shough feamen who had tumultuoufy demanded entraa to get the lighte，had been oppofed，and kept 0 by Mr．Rogers，the third Mate，and Mir．Brimer t fifth，fo that the numbers there were now increaf to ncor fifty；Captain fier e ütting on a chair，ay orfome othermoveable，with adauthter on eacher of him，each of whom hea＇teinately preffed to his ？ fextisuatc bofon；the reft oftise melancholy znemt were fealed on the drek，which was frewed wi muficil inffruments，and the wreck of furnitut tunks，Boxes and pakzeres．

And here alío Mr．Mciton，having previout cut feverns $\begin{gathered}\text { an } \\ \text { andies into pieces，and nuck the }\end{gathered}$ up in various warts of the roundi．houfe，and lieftet wall the giafs iantioms he cound find，took in reat，in ending to wait the happy dawn，that mig？ prefert to tire the means of effectiar his own cape，and afford him an opporiuntity of piving ${ }^{2}$ finarce to the patthers of his danger；but obfervin that the pore ladies appeared parched and exnauf ed，he fetched a bafiet of orancres from fonie pat of the round houfe，en！prowitel on fome of the to refrefo themferies by ficking a little of the juic At this thene they pere all to lerably compoled，er cept intis ritanfel，who was in hyteric jits on the finor dek of the roundhoufe．

But on his return to the company，he perepive a confiderahle alleration in the appearance of sha thip，the frites reere vilitly frivig way，the dect feemed wo liftine，and hecifiovered orher from rymptars that fhe conld not hold to rether mue lon⿻丷木，be thersine attemptet to mo forward ： look ent，but imonefatiy law that the fhip was f： paratcd in the midue，andilat ihe fore part ha
lianged its potion, ant lay rather farther cut toards tice fea; and in this emergency, when the axt moment might be charged with his atie, ite letermined to leize the prefent, and follow theexmite of the crete, and the foldiers, who were now fuiting the thip in mombers, und making their way to a lhore, of which they lnew not yet the iorrors.
ivir. Meriton difoovered a fpar, which appeared o be faid trom the fhin's fide to the rocks, and on this far he determined to athenapt his elcape.

He acordingly bid him Gown on it, and thruft. Limefelfornard, but he foon found the ? par had no communication wita therock, he reached the end of it, and then flipped off, receiving a very volent bruife in his fall, and betore he could recover hils legs, he was wanied of by the furec, in whit he fipported hin:felf by fwimming, till the returning wave dafhed him againft the back part of the caverr, where he toic hoid of a mall projscting piece of the rock, but was fo benumbed, that he was on d e point of quiting, $i$, when a feeman who had alteady gaired a tootime, extended his hand, and afliked lim till be could fecure himidf on a little fleelf of the rock, from which be clambered fill ligher, till he was out of the reach of the furf.

Mr. Rogers the third mate, remained with the Captain, and the infortunate ladies, and their companions, near 20 minutes after Mr. Meriton had yuited the fhijo.

At this time ti.e fea was breaking in at the fore pat of the thip, and reached as far as the mainnaft, and Captain Pierce gave Mr Rogers a nod, and they tock a lamp, and went together into the flern gallery, and after viewing the rocks for tome sime, Caprain Picrce afked Mr. Rogers, if he itrought there was any pombility of faving the girls,
to which he replied, he fearcd there was not, $f$ they cotad only difcover the biacia face of the ne pendicular rock, and not the cavern which afiod ed fheler to tiofe 1 hio efcaped; they then returt ed to the round-honfe, and Mir. Kogers hung, $u$ the lamp, and Capmin Prerce, wi:h his great soa on, iat cown betwem his two daughters, and fres gicd to fupprefs the pareutal tear which then burt into bis eye.

The fea continuing to break in very faft, Metl Nowarus, a midnipman, and Mr. Schutz, apafien ger, afked Mr. Nogers what they could do to efcape who replied, "follow me." and they then all wer into the fiern gallet, and from thence by the wea ther upper quarter gallery upon the poop, ane whilf they were there a very heary fea fell on board and the round houfe gave way and he heard the ladies hiriek at intervale, as if the trater liad reach. ed them, the noife of the fea at other times drowning their voices.

Mir. Brinier had followed Mr. Regers to the poon, where they had remained logether about five minutes, when on the coming en of the laft mentioned fea, they jointly feized a hen-comp, and the farje wave which he apprehended proved fatal to fome of thofe who remained below, happily carried hima and his companion to the rock, on which they were dafted with fuch violence as to be miferably bruifed and hurt.

Mr. Rogers and Mr. Brimer both however reacined the cavern, and fcrambled up thic rocl; on nar. row floclves of which they fixed themfelves, M.r. Roo gers got fo near to his friend Mir. Meriton as to cxchange congratulations with him, but he was prevented from joining him by at leaf 20 men who were between them, neither of whom could move it wibout immediate peril of his life.

They now found that a very conederable number the crew, feamen, foldiers, and fome petty ofers were in the fance fituation with themfeives, ough many whohad reached the rocks below, had rifhed, in atcempting to alcend; what that fituaon was they were fill to learn; at prefent they had caped immediate deuth, but they were yet 10 enunter cold, nakednefs, wind, rain, dnd the pertual beating of the fpray of the fea, for a difficult, ecarious, and doubtfit chance of efcape.
In a vers few minutes after Mir. Rog rs had gainthe rock, an univerfal thriek, which Riil vibrates their ears, and, in which, the roice of female lirels was lamentably diftinguithable, announced e cireadful cataftrophe; in a few momerts all was afied, excipt the warring winds, and beating waves; ie wreck was buried in the remorfelefs deep, and ot $2 n$ atom of her was ever after difcoverable.
Thus peribued the Haifewell.
What an aggraration of woe was this dreadful, is tremendous blow, to the yet trembling, and arcely hait faved wretches, who were hanging aput the fides of the horrid cavern.
After the bittereft three hours which mifery ever ngthened into ages, the day broke on them; they ow found that had the country been alarned by E guns of diftrefs which they had continued to re for many hours before the hip ftruck, but hich from the violence of the ftorm were unheard, sey could neither be obferved by the people from oove, "as they were completely ingulphed in the caern, and over-bung by the cliff, nor did any part if the wreck remain to point out their probable place frefuge; below, no boat could live to fearch them ut, and had it been poffible to have acquainted tofe who would wift to aflift them, with their exact :uation, no ropes could be conveged into the cavi; to facilitate their efcape.

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The only profpeet which offered, was to creep long the ind of the cavern, to its outward extent ty, and on a ledge fear ely as broad as a man's han to turn the corner, and endeavour to clamber the almond perpendicular precipice, whole fums was near two hundred feet from the bate.

And in this defperate effort did forme fuccee whilft others, trembling with terror, and that frength exhaufted by niental and bodily fatigu loft thess: precarious footing, and perifned in the tempt.

The firn mess who gained the fummit of the clit were the Cook, and James Thomffon, a Quarter matier, by their own exertions they made their w to the land, and the moment they reached it, ha toned to the nearest house, and made known the tuition of their fellow fefferers

The house at which they firm arrived was rafting. ton the present habitation of Mr. Garland, few or a gent to the proprietors of the Purbeck Quart: who immediately got together the wermenco ind his diredion, and with the mon zealous and animas. humanity, exerted every effort for tie prefervatio of the furvivin crew of this unfortunate find; ref were procured with all poffible dilpatch, and eve precaution taken that alliftance fliould be fpeedi and effectually given.

As the day advanced, more affiffance was obta: ed; and as the life preferring efforts of the furvivel wouldadmit, they crawled to the extremities of $t$ cavern, and prefented themfelves to their prefer ers above, who food prepared with the means whit the ficuation would permit them to exercise, to he them to the fummit.
Circumftantial-Narrative of the logs of the Halfowell, $\varepsilon$ $+$ Compiled from the communications of the $t$ chief Officers, who efraped, Page 10~ 47

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A wful Phenomena
of Nature,

PART FOURTH,

## HURRICANES;




Cis


- an account

0 FA

## Dreadful Hurricane, \&ig.

## Hurricane in Jamaica, Ontober, 1780.

Amore reneral defruction in the extent of a civen prop rion oflan!, hath rarely happered; and the hur:icane of 1780 , will be ever acknowledged as a vilitation that defcends but once in a century, and that ferves as a foourge to correct the vasity, to. hu uble the pyide, and to chaftife the imprudence and arrogan e of men.

The following defcription, which immedixtely and naturally arofe from the melancholy fu' ject when the facts were frefh, and the ruins, as it were ${ }_{2}$ befo-e my eyes, will not, I truft, be deemed ioreign to the general tendency of "thefe remarlis; and I Shall be, I hope, excufed, if I endeavour to awaken the recolledticn of calamities paft, particularly as in thofe calamities the poor negroes had likewife the portion of difapoointment and affliction.

This deftructive hurricane began by oentle 2 nd almont unperceptible degrees, between seelve and one o'clock, on the morn of the 3 d of Ochobir, and in the year 1780 . There fell, at firf. a trifine rain, which sonticued, wikhout increate, whil! ten,

## $(4)$

sivlock; about which time the wind arne, and thin tea began to roar in a mont tremencous and uncom mon manner. As yet, we had not any pre.knti mont of the difuefs and danger which it was foo afterwards our unhappy fortune, to encounter: ant although between we and three coclock in the as turnon, we fay the fubordinat buildings begin to fitter and fall around us; yet we did not think neceliary to provide, at that tine, for our prefers or future fatty. We row celcriged, with for s motion and concert, a p or pireea endeavour with fruitlef's firuegle, to regain its reft: it fut red long in the air; and was fo weakened at lat that it was drivinumay by the wire, and in alma! a moment was carried entirely out of fight.

As great events are fometin:es the confequence of feal beginnings, and as simple o.curences an often as friking as great concerns, I could not hel dwelling with commiferation upon what I had len sand of anticipating, in fume meafure, the lows and inconvenience, though not the real diffraction, o what foot afterwards ensued.

A poor discouraged ewe, intimirned by the tor oars of the night, had found its way into, the dit cant quarter of the house, which, at the time o her retreat, molt have been wholly neglected; bu to which it lias afterwards, as cur left refort, on unfortunate deffiny to repair. She lay with paten cold, and fearful trembling, an inf the joints, no: could nt be diflaced by the importunity of kick and cuffs that were inceficistly dealt around her She became a pathetic futierer in the fucceeding ca amity; and he mun have been a brute, indeed: and more cicferving of the appellation line bare, who could have persevered in forcing her from tuch seeming protection, or could have been envious o that finite, lith; from her unwilingnefs to it

## ( 5 )

nove, it was natural to think that fos at that sime mjoyed. I mut confefs, that I tried to difpofitis ier, but I tried in vain; and I have ince reflected, hat her prefervation was as dear to her as anine was to me: and ffel a real comfort in teporan: hofe exquifitely humane and tender lines of Ovid. which are fo feelingly deferiptive of the fate of this mof uftful and patient animar.

Every thing ciains a kodred in misfortane; it evels like death; but death, alas! to fome comes 00 late; and to oilsers it comes too carl. in a hort thate, prhape, it was the fate of the poese aeck creature bove dicribel, to feel its itroise. I in ght have caued, uaknowingly, its fxecutiors, and mightiave feated upon its feih. The veryide. chills my blood, and brings to my mind the remiembrance of the dreadful fituation of Pierie Fiaud.

An th of dire necefinty may be certainly ex culed, but to dellrey (for the gratilication of an appetir. which we have in common with brutes) that whics lias been ufed to live ia a comentic and in a cherifi?. ed itate around us, wou'S argue an infenfibity, from which every feelino mitai mul haturally voit: and I fhonld bope, that there are but 5 people who could eat of tiat : id, which they hat feen lick the Gutcher's iatal at the vey moment that the krife was about to leprive its innocence i. exiftence; and whea it, fopplicated, wish an blmo e hunan cry, its preiervation of life, and with a blandihnent fo particulanly expreilive of tendernefs and pity.

From the morning until four o'clock in the af. ternoon, the . wind continued to blow wibls increaling violence from the north and eall but from that time, having collected all its powers of devaltation, it ruhthed with irrefitable violence from the
fouth; and is abou: an kour and tuif after that pe-f rioh, to gererd and prevering were i:s accunuldeed efíesis, thás it feasely lef: a pantaiis eree, rane, or builingo unimitred in the parith. At about four r'ciock, we found it, i" petfible is fecure whe bouteaganit ihe increafing impotuotity of the wind, which bena to difplace the-finingles, uphit the roor, to force the windows, and $10^{\circ} \mathrm{gain}$ an entrance on crety fise and its haty defruction but pon foly provech how irnm, and bow haiderfally, it farcedre! We were now driven from the appariancnts above, 10 take flecter in the rooms below: but there we wre followe by freth da: gers, and frepfed by freth startns. The demon of defrucr. n was waficu in the vibus, and but a cefreter could efcape its maticrabit devafation. Whate we were lookjag with appehertion and terror around us, the runf, raticro, plates, and walls of lix apart1 bits sell in, and immediately above cur heads: and the horid cra?hes of ghefes, furniture, and flsors, occafoned a noife and eproar, thas nay be wore eafily frlt, than the wedkuefs of my pen can pofitiv defertbe.

I vill nor attempt (indecd moy whilits and lanruage are unectal to the tatk) to awaken the fene fibiliey of others, by dwelling upon private misfor.
 prow regard: bht cooifat say be tuely m!ooan in a narraive ufthis kind, vietagencral conpatiions mith in fome meature defribe indivilual fuf\$. rimg, ance whese what crie his feit, has bern the I $t$ cf autobers: and where a perfon has indentical. I. feen, ance bentinvolred in the fane dehruction, it is wfectite ketp clear a ceprefions thet do not inmeciatcly pply 10 , and fricak the language of, fit!
the thation o! the undappy aigeos who pour.

## (7)

din upon us fo foon as their houfes were deftrosd, and whofe terrors feemed to have depricel hem of fenfi and motion, not only very particu. arly sugmented the confufion of the time, but very onlide!ably ajded, by their whifpers and difrefs, o the fcene of general fulpenfe, and the fictuatipas of hope and alarm. Soanelanented by anticiation, the lo's of their wives and children, of which their fears had deprived them; while others egretted the dowafdl of their houles, of whit h hey tiad $f$. lately bexa the unfortunate foectato:s.
It wil! be difficult to conceive a fituation more. errible than what my houle afforded from four 'clock in the rifernonn until lix o'clock the enfu$n_{5}$ morning. Driven, as we were, from room to oom, while the roufs, the floors, and thewalls, were umbling over head, or falling around us; the wird lowing with a noife and violence that cameut even how be reflected upon without alarm; the rain ouring co e: in torrents; and the night which cemed to fall, as it were in a moment, uncommonly dark, an I the gloon of which we hid not a ingle ray to enliven, and the length of which we hid not either fpirits or refolution, by converfation, to chea! The neg:o hus, as I before oblerved, were at this time deftroyed; and the miferable fufferers rufhed into the honfe, and begary fuch complains and lamentations, as added very contiderably to the dicomforts, and uruch increafed the almoft before anfpeakable dittrelfes, of the f.ene. Une poor woman in partirular (if real philantaronhy would not difd.in to make a difcrimination of colour, was, in a very particular ar: fenfibie marner; entitled to pioy. Ilfer child and that a favourite, was nearly buritd ir the ruins of her houe that fell around her: fiee fiatched it, with all che incont:perate impatience of nateral fondreff, from the
expectation of a fudden fate: He fraises it to $h$ arms in dimple love and unafined protection, an flow to deport bartender burden in the retreat difant fafciy: the few in vain: the tempe? reaches ter and'fivept the child, unconfcious of dirge from her folding arms, and dallied lies hopes an comforts to the ground. She recovered, and to he boron reftored the pleating charge: the endeavor u ed to froth it with her voice; but it was filter flo felt it, and the found it cold: foe creamed, fix lamented, and the curled: riot could cut fympath condole her farrows, our remontrances refrain ho violence, nor our authority fupprefs her execrat. ons. She felt like another, although an apathy! might fay the did no feel like a Coition. Whim a cold and illiberal difinction! Give a Negro vel: sion, and efablith tim in either the principles o obecience, or the knowledge of endurance, and h. will not difgrace that tenet which angl be recon mended by practice. Her lamentation's were natu. rat, and of conference affecting; and give addition al defpondency to a night that was already to miferable to bear an augmentation of forme.

The darkness of the night, the howling of the winds. the growling of the thutn!er, and the par. dial Hales of the lightning that darted through the murky loud, which fometimes burt forth with a plenitude of Bight, and at others hardly give fuficlient rumination to brighten the terrified afpectio: the negroes; that, with cold and fear, were item:!ing around'; the cries of the children who were expoled to the weather, and who (poor innocents!) Fad oof their mothers in the ciarinelis amd confution. of the night; and the groat nacertain'y of general an's private fituation combined; could not fail to Alike the foul with as creep as it was atm unaccuf. coned horror. In the milit of danger, in the aw-
ut moments offufpence, and when almoft funk by Helpair, we praged for more frequent lightning to fiid the-walls, for more heavy thunder to out-roar he biaf, in the philofophic confolation that they night purge the atmofphere, and difperfe the form: but alas! they were but feldom feen, or cebiy lieard, as if afraid of combining the influence f light with the defruction of found, and of railng upon the ground of cerror, the fuperfructure f defpair!

When the night was pit, and our minds liung iifpended between the dianger we had efraped, and he anticipation of what we migbe expect to enfuts; When the dawn appeared as fifnoilling to difclofe he devaftation that thenight had caufed; when the un beams peepel above the hills, and illwminated ise fcene around-juft God! what a contraft was inere exhibited betweon that morning and the day pefore! a day which feemied to fmile upon Nature, and to take delight in the profpects of plenty that vaved around, and which produced, wherever the ye could gaze, the charms of cultivation, and the ron:ife of alundance; but which fallacious apbearances, alas! were to be at once annihilated by hat extenfive and melancholy view of deforation ard defair, in which the expectations of the mom ferate, and the wifnes of the fanguine, were to be o foon ingulphed. The horrurs of the day were nuch augnented by the melancholy exciamation of every voice, and the energetic expreftion of every anal: fome of which irere uplifted in acts of execriom ion; fome wiped the tears that were flowing fom he eye: while fome, conficering from whence the ifitation came, were feer to frike their breafls, as f to chide the croans which it was impofible to :cRraing An uncommon flence reigned around: at was the paufe of confernation: it was a dumb ora.
tory, that faid more, nucis more, than any tong could utter. The firt founds proceeded from t mouths of the moft patient of Natue's creatures from the melanchoig cow that had loft its ealf, a with frequent lowings invited its return; from $t$ mother ewes, that with frequent bleerings recall their lambs, which were friking out of fisht, conicious of danger and unmindful of food: a which folemn and pathetic invitations, after fuct night, the contemplation of fuch a feene, and ti difpofition of the mind to receive pathetic impret ons, came home with full effect to thofe who h: fuffered, but who wifhed not to complain! If til difreffes of the "feathered trike be taken into th: defcription, their natural timidity, their unce: aif ty of fook, of fiselter, and domeftic prorection, culy. confederedy trifting as the fe vobervations mo appear, they certainly help to fwell the catalogy of difirefs, to awalen the figh of ferifibility, and temech us that their exiftence and their end are the hands of the fame Creator.

The morning of the $4^{\text {th }}$ of October prefented 2 with à profpect, dreary beyend defeription, and a mor' melancholy beyond example; and deforme with fuch blafted figns of nakedrets and ruin, calamity, in its moft awful and defiructive mo ments, has feldom offered to the cefponding oblem rations of mankind. The face of tle country feem ed to be entirely changed: the vallies and the plain the mountains and the foretts, that ere only thy day before moll beautifully athed with cucry ver Hire, were now defpoiled of tuery charm; and t an expected abundance and fupeifluity of gain, $;$ a few hours fucceeded iteriity and wal; t; and ever profject, as far as the esje could freich, was vi's bly fricken blank with defolation and with horror The powess of vegetation appeared tu be ad onc
fufp nded; axidinftead of Nature and her waiks, the mind was petrified by the feemirg preath of fate and chaos. The country looked as it it had been lately vifterd by fire and the fword; as if the Tornado had riffed Africa of its lands, to depoft their contents upon the denuded berom of the hillis; as if huna had fcorched the mountains, ard a volcano had taken noffeffon of every height. The trees ware up rooted, the dwellings difitroyed; and in fome plaees, not a ftone was left to indicate the ufe to which it was snce applied. Thofe w o had houfes, conld hardly difingtint their ruins and the prorietor knew not where to fix the fituation of his former pofiefions. The very beafts of aif delitiptione, were confcions of the calamity: the birds, particuialy the doneftic pigeons, were mofr of them deftroyed; and the fifh were driven from thole rivers, and thofe eas, of which they had bafre oeen the penceful inlabitants. New ftreams arofe, and extenfive lakes were foread, where rills were fearcely feen to trickle before; and ferry-boats ware obiged to ply, where carricges were ufed ton travel with faftey and convenience. The roads were for a lons time impafible among the monntains. the low lands were overllawed, aud numbere of cattle were carried away by the depth and impretuefity of the terrents; while the houndries of the different plantations werefunk bebeath the accuminated prefure of the innundition.

To give you at ance a.mure general idea of this tromendous hurricare, I hall obferte, that not a fingle h ure was left undamaged in the parith; mot a fingle fet of works, trath-hcure, or other fubordinat buidding, thas was not greatly injured, ir entirely deftrovec. Not a fingle wharf, fore houle, whed, for the depofit of gonds, was lefic fatoding they sere all fregt away a once by the biliows
of the fea; and hardly left behind. the traces their foundaitons. The negro houfes vere, an laic pe srithcut a lingle exception, univerfally bio down: and this refi ftion opens 2 large field for 1 philanthropif, whofe feelings will pity, at lea thofe miferics which he would have been happy suve had the power to relieve. . Hardly a tree Strub, a vegetabie, or a blade of gexts an inch lot was to be feen farcing up and uninjured, the et fuing, mornir.j. nay, the very bark was whipt fic the lanood-hediges, as they lay upon the groun and the whole profpect had the appereance of a $s$ firt, over which the burning winds of Africa h Intel part

At Savanna-la Mar, there was not even a rent of a town the pirts only of two or three houf lavirg in re rial ruin remaine!, as if to indica the fituation and extent of the calamity): the ves materials of winch it had been compofed, had bee corrind amay by the reffitefs fury of the wave which frally completed what the wind began. very great propurion of the poor inhahitants wet crufhed to death, or drowned, and in one hout alnine, it was computed that forly, out of one an Ioriy fouls, whappily and frematurely ferifhec The fea drove with progrcflive vivitnce for mor rimen a mile into the country; and carmed terron as it left defruction, wherever it panded. Twit laree thips and a fchooner were at anchor $\vdots$ th bay, but bese driven a confide:able diftaṇce froul the fiope, and totally wrecked amung the mango. trep upan land.
inere I to dwell upon the numberlefs fingularitice of accicents that this dreadfol form ouchioned barin among the mountains and on the plains ovet wothich is pafted; were 1 to mention its particulari. ties and caprices, and the variety of contingencies

## $(13)$

 fhich feemed impolfible to happen, which inagipation might trifle with, but which reaton would icarcely believe; in Mort; were I to mention, what myfelf faw, and what numbers could witnefs; I Monld be afraid to offer them to the ferious resard of my readers, in the dread that I might be thought to infalt their underfardings, and to advance as fotion, what it would be very difincult, indeed, to credit"as truth.The difireffes of the miferabie inhabieants of Sa-vana-la-Mar, during the period, and for a long time after the crffation; of the form, muft have sxceeded the moft nervous, as they would have furpaffed the 1.10 ft melancholy powers of defcription They were fuch as ought to have affected (if whlic icfies and private fufferiogs can ever affect the nony bofoms of the rapacious, and the icy botwels of the interefted), they were fuch, I fay, as mould almoft have melted the unfeeling, and have Nioftend the obiurate: but, alas! they could not, in Ron many infances, divert the rigid purpofe, and Whthsold the rigorous hand of the man of bulinefs. Thofe who she day before were peffilied, not on! févery doniefic comfort, but of every reafonable Auxary oflife, were row chinged to feek for fhelter Inin a hoard; and were expuled, in ficknefs and afficlion, unfleinered and unprovided, to the noify Tintruiters of the uind and the cuid, and the frezuent viftations of the fhower.
 frone of general devaftation and defpzir, I fhould require the pithetic pen of that accomplithed writer who has given a chatm io grief, and a di. critej to fuffering, in the tonder payes of lemma Corbet; and who could fo well liave exprefied of correfonding fentiment, by fowing language, and glowing iruth, thote minity forrows which the

## $(\mathrm{r} 4)$

father endured for the death of a fon, which wife futtained for the lofs of her hufband, and all thofe minor ties of confancuinity and friendif which were, at this unhappy and awful period, generally ditolved.

When we confider how very foon the gay fuits and flattering appearances of life are deftr ed; how uncertain are our poiffeflions, and ! fubject to hopes, and how embittered by dif pointments, are our purfuits; it is fomewlat ext ordinary, that we flould be fo much attached the worid, fhould entruft the fun-ftine of eur da and without fufocicion of a change, to every clo fhould commit our prefent happinefs to the infta lity of climate, to the vieiffitudes of coid aud he to the telpors of the tempen, or the peltilen cangers of the calm:-it is aftonifhise, I ag in peat, that we hould repafe all our comforts, a all our exp:ctations, upen a workd fo full of mort cation, diappointment, and afflition; when muff be conifcious that we muft fo foon leave word and all its empty delufions behind. Wa we look arnund, and fee people who thought tee feives above the reach of want, and rectining, at a long apprenticefhip of patient in, ultry and pli fevering ioit, upon the lup, of late-carned indepts densy and honeff repore; when we fee them the fruits of ex.rtions thus $\mathrm{m} \cdot \mathrm{de}$, and of comfo thas njoyed, in one fataland deftructive! our, w w an awful lefion does this.reficertion awaken in c nuinds! and t:ow math does it not warn us agai: b.ilding upon a foundation to very, precarious 1.eff, and at the $t$. fteceitfu!! But then in them reduced to this fite rion, and fyuggling wif infirmities, without the vigour of jouth, or it exertions of manhood-withour heiter from : weather, protection froin power, or risat a
drink to confort the cills of declining wature, or intereft enongh to refcue tliem from the impending horrors of a gaol;-the accumulation of fuch misfortunes, is more than fufficient to excite compifficn, but not always fufficient, as we find by meiancholy example, to obtain relief.

So fudden an alieration, is enough to thake a philofophy that has not before been tried; and fuch a change is fufficient to excite thofe complaints which are caufed by dirapointment, but which may be born with patience, and finaly, overcome by calmnefs and refignation. If $\dot{\sim} \cdot$ 'meet with affiction, are zue alone unfortunate? If ze lole our all, are we the only beggars? How many are teduced to pensiry who cannot work! what numbers. perifh withcut help, or are entonised alite without pity! and yet how niany emerge from difirefs and want, by a nisn!y fortitude, and fieady perfeverence of conduci! The hand of power may opprefs; but imocent has its peculiar trien?ph, as mifery cannot :-ach the grave; for that is the retreat of Vir. tue, her confummation, and he gerd,

1 can harely preval upon my felf to believe. that the urited viclente of all the winds that rulh from the heevens, blownthreugh one tub, and direcied to one fipot, cond have occafoned luch deftruction, and in fo fhert a pace of time, as that of which I was an unfortunate witnefs, and of which I am now beciqne the fecbl: recorder. If we even conilude it prifle that the ruins of our buidines conld have been cecafionted by the concentration of its fury, how" are we to account for fame planomena of which we were the fuffering and atonilhed-fpétatirs? Liow account for the fudden irruption of rivers, the leples of earth, rife difunion of roclss, the fifiures of mountains, and for other objects of the fublime and terible. which lave changed and
disfigured the face of the country? How accout for the bollow soarings of the fea, and for the flability of the climate for many moaths betor and for the dreadful paufics that were obferved take place, before the buildings were entirely ove turned? It can hardly be doubted but that heave and earth were combined in compleating our d firuction. One element-alone has been hardly ev known to eccafion fo extenfive a devaftation; ary the fuedden rwelling and raging of the fea, we mit reafanably attribute to the heavings of the eart quake; to which likewife the general ruin of oi houres may be in fome meafure attributed.

I have feen the ruins of Liflbon; and if it wout not almof amount to folly to compare, in th place, great things .with fmall 5 I flould fay, th: the deftruction there, great and melancioly as was, could only have been, by comparifon of buily i:: $\%$ : and extent of population, more dreadful the that calamitr which 1 have now the prefunption t defcribe. The earthquake at Lifo on happened i the morning; and although it alnoof univerfalif affected its buildings, yet the productions of thu earif received, in confequence, tut litule damage whereas the hurricane in Janaica cont inued through out the night, which has its particular terrors, in dependently of water, and of wind; and not onl blew dewn every thing within its fweep, but fprea defolation througin the country rofrid, and I an apt to believe, that the peculiar diffreties of th untappy fufterees of Savaina la-Mar, muft hav equalled every thing (i fitll mean by comparifon that is to be met with in the moft melancholy an nals of buman misfortunes.

To this calamity, another unfortunately fuicced ed; and the confequences of which were fill noor fatal to the lives of tinge who had furvived th

## (17)

0.: The Rench that arof from the putrefacon of the dead boties, which remained for many eds without interment (and to numbers of which ie rites of burial could not be ailminiftererd), occaoned a kind of peftilence, that fwept away a cat proportion of thofe who had providentially caped the firt defrtiction. Alinctit every perfon the rown and neighbourhood was affected; and e faculty were rendered incapsble, through, knefs, to aftend their patients, many of whom rithenl from the inclemency of the weather, from ant of artendance, or fupply of foo.s: and to add the general apprehenfinn, the riegroes poured own in troops to the fcene of devaltation (and, I a forry to oblerve, that many witite people were etectes, opon the fpot, of promifcnous plunder); ad having made !ree with the rum that was floatg in the inundations, began to grow inlolent and aruly; and, by their threats and conduct, occafion1 an alarm winich it was found neceling, by exeron and caution, at once to fupprefs: and what the onlequencer, at fuch a time of general confufion nd dread, might have been, hud not the puncheins been immediately flaved, can hardly, even at his diftance of time, be reflected spon without orrour:
That the wnenlightensi negroes hould be led to junder, when they could do it with fafety, a: : who : the curbs of morakity and religion to rerain them, is a circumfance not to be wondered ; as it is confiftent with the common depravity of uman nazure; but that thofe who ougint to $\therefore$ a beck upon that licentioufnets which they theinlves perhaps have tanght, thould fand for ward to ivett mifry of its laft fupport, and even plunder enury ifeif of :'s urmoft farthing, is a redection pon thofe who can diftinguifh black from white

## ( 13 )

in the colour of the human fin, but who canr difcrinisate what is black from white in the integ coruluct of man to man. To take advantage misfortune, in the time of public calanity and $p$ : vate affiction, and tor raife a fuperftructure, hom ver fimall, upon the ruins of others; is what, al: has been too often practifed, witcout chaftifemer and enjoyed wihout thanc: and if thofe who at in authority over negroes, and to whon they a taught to look up for the theors as well the pradi of integrity, Ahall fet cn example of worldy inim" tice, of rapacity and phender-the negro who it lo is this infamous exinlple, unconfcious of tron is neither a princepal, nor an acceflary, altho 1 may pofilibly be convicted of both; while the re delinquent, who grows rich from infamy, is fufie ed to efcape-without tria!, and confequenty wit out a punimment. I muit therefore from fać concluce, that a seformation in pradical namnes muft begin with the white people in the colonit before ary bunane inftitutions $f(x$ the relief of th flaves can either be carried into foll, or even int partial effect; and this preliminary 1 thall hesea ter endeavour to fupport by coroliaries chairn for fatt and experience.

The congratulations of the siorning that fut ceeded the dreadful vitituion which has been th fubject of thele pages, were fuch as feeined ti: pontancous effects of what the bofom felt faom th relief of fupereminent danerers: the fal occaljoif feemod to create new ideas in the mind, and to giv paners to feeling, of which the heant was before wo conficus. Many peeple thourit that the day a tinal judement was comé; and fele it as it it wa then too late 10 reflect tipon danger: for diger which implies uncertainty, wa'd then have been a picafing idea, inatmuch as chance is it contraft :
ind defair. It is the natural province of man to icr; it is an appendarge of his coadition: but it fuises a fomething more so learri to fubmit, and satient futrnillion, without complaint, io bear. it is natural to fuppofe that the form a sove defhed, muft have given rife to many diltrefling patheti fienes; muft upon fome occafons have wwedrip the foul, and upon others, have ined a tendernels and pity. Hurbinds and wives,
paren!s and childen, were in many places arated by the terrois of the night and reated, as before obferved, to meet no more: but n' thefe dreadful fenes lothali not attempt to tell, as their remembraince will furvive the deption of my pen, in the me! ancholy perpetuity doin in: affiotions arto which nusberlefs fa. ies, more or licis, to the deftrution of their bes, and the difcomfort of their lives, whil longy, y long, have caufe to lament.
Mall never forget the derolate appearance my le made immediately after this cataftrophe, nor many circumances of ditrefs and commifera. 1 that alternaily thocked and foftened the mind. te a poor infant was feen extracted from the as, thd its lifelets body confined to the care and. entations of its defporidiner parents; there fat a pup of negrees bewailing with heavinefs of texart, tall the filent eloquence of freanaing eges; and ched-out hands, the total deffruction of their efortunes, in the wrecks of their houles, the ${ }^{1}$, $\%$ their effects, and the demolition of their unds; while others ran confufedly bere and re, without ktowing upon what errand they - berrt, or where to begin, or how to fet about reforaion of the lofles, or by what philofoto confola their minds.
linere were many who withed to be cmploged iendering our fituations more comertiable, but
who, from want of rethot, and from that hurs which is its confant atendant, were always in the way, and coniequently dit more haren than good. Some, indeed fucceeded in their exertions; and 1 .fhould little deferve thofe comforts I fo foon found, in comparifon to miny others, did I not bear witnefs to the wiling indutity aud unremit: ing application of the tradefmen and wher negroes who were employed in the reparation of the offices, and in making tight the fe parts of our temporary duel. lings which were deftined to the accommodation of ourfites and friends.

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\text { Arother Ifurricum in Fanaica; } 175 \mathrm{I} \text {. }
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IIV addion to the forementioned calamity, thes inhabitants of the iflin! of Jamaica, were an gain vifted by tiis dreadful fourge of Humanity, within lefs than a twelvemorth after it happened as appeurs from the following extract.

Kingfon, Aug. 4, 1781:
About eight o'clock on Wednelday evenith, the If inf. a hard gale of winl came on from the fouthward, but foon after veered to different pinits of: the compars; before nine it increated to a perfeit hurricane, and contiaucel to rage till near eloven, greateif part of lie time bleting from the foutheatt, accompanied by a heavy and incelfint raing, nor did the ftom altogether fublide till about two in the morning: 73 fail of vefiets, induding floops, fchoones and thalups were on fhore between Rugel's hulks and the whart of John Vernon, c! q; and Cis, and qeveral others to the weftward of tha town, but being moftly liste veffels, the greatef part of them either bave beon, of with be got offs.
cough not without confiderable damage. The ter in the harbour is fuppofed is ha e rifon becen four and five feet perpendicular, the plank\% of the wharfs in general being torn up, and any heavy articles that were ripon them entirely tried away; of Meffis. Law and Hargreaves's barf, farce the veftiges remain - The great eft It of the returned flee being at Pot Royal, the counts from thence are fill more deplorable, two jaded Mips being either funk or coverlet, and 24 in on Shore between Salt Ponds and Mufquito int.
Many homies and piazzas in this town were blown on, and two negroes found drowned in the rets, in which torrents of water for feveral hours n down with great rapidity.
Ills Majefly's flip Pelican was drove upon. Moinlier, and fuppolid to be totally loft; the Ship's mpany, excepting four; were providentially laved. Three wilts were drove affine in the harbour Marty a Brae; the hip Role k, of New -York, eflocp leaver, and a flop belonging to Kingon; the firft is totally left, the other tho sill be it off.
The Ship Orange Bor, rich went afore nears e Twelve Apoftles, contrary to all expectation, is been got eff. f confiderable part of the carnoes of Several other veils, that were drove on ore near that place, has been laved.
His Majesty's Ship Southampton, after having had engagement with a French frigate of Cape Frank is, was by the late form difmafied and driven so, reck 1 Riff, to the leewerd of Port Royal, where e now remains; the Vaughan and feveral uther $\mathrm{ffi}^{1}$ Is are gone to her aflifance.
I' he fiorin very unfortunately. proves to have been neral throughout the inand, ik..ugh not equally

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(22)
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violent: in Weltmoreland, St. Ann's, and St. Ma the canes have received confderable damage, the plantain valks, together with the ripening es have been tetally deftroyec'; the other pa: ? particularly thofe to windward, have fuffered much tefs degree.

Montego P I
The florm on Wedneflay the ift of Augut done much damage to our fhipping; it has of athore two hips, the Chriftima and Juno, a fill vefiel of Niel's, and a brig belonging to Cap:. A Hamilton, is totally loft, and himfelf and ny drowned: M'Kay's what is carried away: Dis Pi ney and Ruecaitle, MtTfrs. Blake and Ingles's ? houfes and fores are thrown down; all the pri fion and fine crops of corn are deftroyed; the ca are all laid fat, and there is hardly an cftat, Weftmoreland but has fuifered in buildings. Ulyffes. which come here from Kingitin w 20,cool. a part of the parliamentary grant to fufferers by the ftorm in October lalt, has b drove to fea, together with a brig ont of Bluefie and, through the whole parith of St. Elifaioth, provifions in general are deftroyed, and the ca greatly damaged."

The accounts from Hanover are equaly unfav rable.

St. Mary's, St. Ann's, and Trelawny, bave, fuffered very confiderably in their provifions: canes.

On Sunday laft the flip Ulyfes, Efq; commander, went into Lucea harbour un jury mafts, with the lofs of her bowfprit, being. the damage we underftand the has fußtained.

Letters received from ${ }^{2}$ St. Elizabeth mentil that the farcity of pyovifions for the negr is so great, in conferuence of the laft form, t
any of the ithatiterits are obliged to purchafe rn at the exhorbitant price of a bit for fix ears, kerly to keep their flaves from perifhing until her provilions cans be procured.
It is yet impoflible to fay what number of lives ve been lolt in this cireadful calamity; but they faft be numerous; in one plantain bent only, he perfons perified; as did the crew of the tuby's at, at Pors Revat, in endeavouring to aflift a vef. in diftrefs ! $00-$ - iter the form came on. İdinburgh Advertifer, Nov. 6, 1731. Tornatio in Scctlazid, fuly, 1799.
-Ornado. "The following interefting account of this awful $p$ ' xomenon, which took place at hitela: , in the parifh of Ednam, Berwi kfhire, the 3 d curt. we copy from the Kelfo Mail.
"The weatber through the day had been calm, th foft howers. At leven o'clock. in the eventhere was obferved by many perple, a little to fouth-welt of Mr. Tod's houle at Whitelaw, denfe light coloured cloud of a very uncommon pearance. It refembled an inveried cone, reachfrom the ground to a confiderable height in the zofphere. Its motion towards the houfe was flow 1 majeflic. a perfon of no great agility on teejng epproach could eafily have efcaped. from it. it ran at length to whirl round whe great rapidity. ompanied with a lend, rattling noife. The effect its amazing poncr was firft exhibited upon a large k of flraw in the barn.yard, which it raifed in : mafs to a confiderable heigett in the air. A m ' of timber, lying flat on the ground, was hur!from its place feveral feet; and it will be thoughs of to exceed credibility when it is mentioned, t this beam was thirty-three feet long! Sma!! les were heaped together in mounds as if by rod. The farm-ofices were materially injured;
fone of them, indqed, were alroont entirely frifo therr tiies.
"Human firength was mere weaknefs when pofed to this wat of elements. A fout young luw; who had witnefled the fcene in the barn-ya from an apprehenfion that the houfe muft necet rily be tumbled down, run out for fafety. The fitllets enemy, however, lifted him over a wall $f$ feet high, and carried him forwards for thirty forty yards! -Several of the ferwants were forci driven about, fome in one dircetion and fome in rother, according to the eddy." Tire horfes a cattle upon the farm cxhibited the livelieft' fym toms of alarm and agitation.
'! The dwelling houte at Whitelaw, in which farnily refided at the time, frook with fith violen as to threaten its deftuction and theirs. Provid. tially, however, amidft all the devaltation, no p fon was materially hurt; and, what renders this more remarkabie is, that the tiles whi h weret from the furrounding offices fell from an imme height, in vaf numbers, among the people expo to the form.
"Before the cloud reached the farm houfe it : fortunately divided, and thetwo partstaking differ cirections; only one of them flruck the buildir Had the whole collected force difsharged itfelf once, fcw, it is probable, would have furvived relate the particulars.
"There was little rain at Whitelaw either i mediately before or after the whirlwind; but in adjacent country, to the north and eat, owing, i fiuppoled, to the vident conculfion of the clow there was a torrent of rain, and in fome places hi for a few minutes, as bad not been obferved in memory of man. - Edinburgh. Wrekly Journal, No.

