Awful Phenomena of Nature.

AN ACCOUNT OF Some of the Moft Remarkable EARTHQUAKE S, VOLCANIC ERUPTIONS, SEA STORMS,

HURRICANES &c.

Which have happened in the known World:

With the Calamitous Effects, which have resulted from those Dreadful Convulsions of the Elements.

IN FOUR PARTS.

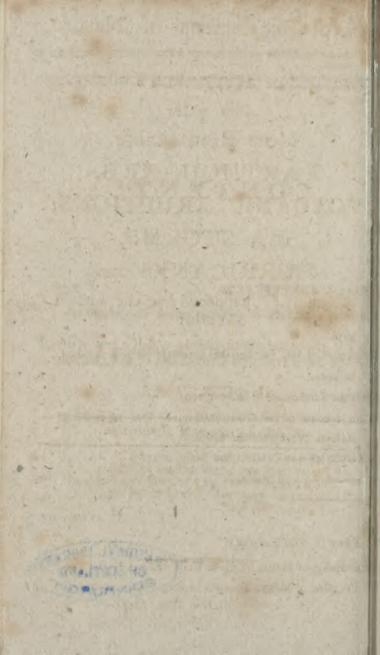
Collected from good Authorities.

" Sweet Innocence ! thou ftranger to offence, " And inward ftorm ! He who yon' fkies involves " In frowns of darknefs, ever fmiles on thee " With kind regard-"

THOMSON.

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Printed in the Year 1799.



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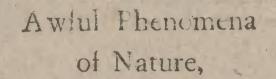
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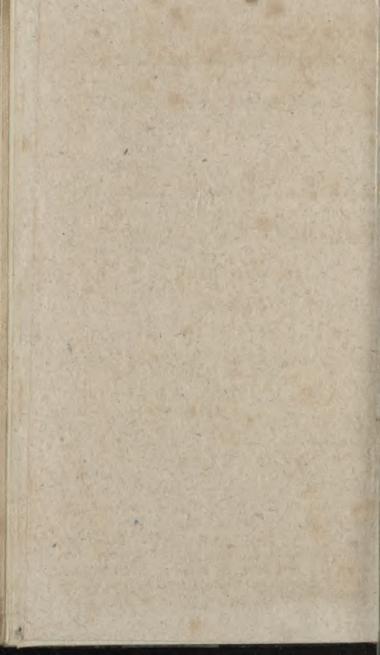
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PART FIRST,





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ACCOUNT OF SEVERAL.

Remarkable Earthquakes, &c.

Kircher's Account of the Earthquake in Calabria,

ALL SALES AND ALL SALES

in 1633.

O N the 24th of March, e lanched (in a fmall boat) from the harbour of Meffina in Sicily, and arrived the fame day at the promoneory of Pelorus. Our defination was for the city of Euphemia in Calabria; but on account of the weather, we were obliged to continue three days at Pelorus At length, wearied with the delay, we refolved to profecute our voyage; and although the fea feamed more than ufually agitated, yet we ventured forward. The gulph of Charybdis, which we approached, feemed whirled round in fuch a manner as to form a vaft hollow, verging to a point in the

centre. Proceeding onward, and turning my eyto Mount Altna, I faw it caft forth large volumes finoke, of mountainous fize, whi h entirely cover ed the ifland, and blotted out even the fhores from my view." This, together with the dreadful noise and the fulphureous flench, which was firongly perceived, filled me with apprehenfions that for more dreadful calamity was impending. The leai felt feemed to wear a very unufual appearance those who have feen a lake in a vielent shower e sain all covered over with bubbles, will have form idea of its agitations. My fulprile was fill increal ed by the calmbels and firenity of the weather; no a breeze, not a cloud, which might be supposed t put all rature thus into metion. I therefore warr ee revenue parion, that an earthquake was approach ing; and, after fome time, making for the from with all peffible diligence, we landed at Tropa-But we had fcarce arrived at the Jefuits college is that city, when our ears were flunned with an her ric found, refembling that of an infinite number of chariots driven fiercely forward, the wheels rattlin and the thongs cracking. Soon after this, a me dreadful earthquake infued; fo that the whol track upon which we flood feemed to vibrate, as we were in the fcale of a balance that continue. waving. This motion, however, foca grew mor violent; and being no longer able to keep my lege I was thrown profirate upon the ground. Afte fonce time, finding that I remained unburt amida the general oncussion, I reloived to venture for fafety; and running as fast as I cou'd, reached th thore. I did not tearch long here, till I fout th boat in which I had landed, and my companion also. Leaving this feat of de olation, we profecut ed our voyage along the coaft; and the next day came to Rochetta, where we landed, although the

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earth still continued in violent agitations. But we were learce arrived at our inn, when we were once more obliged to return to our boat; and ih about haf an hour we faw the greatest part of the town. and the inn at which we had let up, dashed to the ground, and burving all its inhabitants beneath its ruins. Pro eeding onward in our little veffel, we at length laaded at Lopizium, a caffle mid-way between Tropza and Euphemia the city to which we were bound. Here, wherever I turned my eyes, nothing but feenes of rich and horror appeared; towns and caffies levelled to the ground; Stromboli, though at 60 miles diffance, belching forth flames in an unufual manner, and with a noife which I could diffinely hear. But my attention was quickly turned from more remote to contiguous 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 flood now began to shake most dreadfully; fo that, being unable to stand. my companions and I caught hold of whatever thrub grew next us, and fupported ourfelves in that manner. After fome time, the violent paroxyfin cealing, we again stood up, in order to profecute our voyage to Euphemia, which lay within fight. In the mean time, while we were prepa ing for this purpole, I turned my eyes towards the day, but could fee only a frightful dark cloud, that feemed to reft upon the place. This the more surprised us, as the weather was to very ferene. We waited, therefore, till the doud was palled away: then turning to look f r the city, it was totally funk; and nothing but a difmal and putrid lake was to be feen where it fcod.

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Account of the Earthquike that happened in Jamaica, in 1692.

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TN 1692, an Earthquake happened in Jamaica. I In two minutes, it destroyed the town of Port Royal, at that time the capital of the ifland; and funk the houses in a guiph 40 fathoms deep. It was attended with an hollow runbling noife like that of thunder: the fireets rofe like the waves of the fea; first lifting up the houses, and then im nediate. ly throwing them down into deep pits. All the wells difcharged their waters with the most violent agitation. The fea barft over its bounds, and deluged all that flood in its way. The fiffures of the earth were in fome places fu great, that one of the freets appeared twice as broad as formerly. In many places it opened and clofed again; and continued this agitation for fome time. Of these openings, great numbers might be feen at once. In fome of them, the people were fwallowed up at once; in others, the earth caught them by the middle, and crushed them to death; while others, more fortunate, were iwallowed up in one chafm, and thrown out alive by another. Other chains were large enough to fwallow up the whole fireets; and others; fiill more formidable, fposted up immenle quantities of water drowning fuch as the earthquake had spared The whole was attended with fienches and offensive finells, the noise of falling mountains at a diffanle, &c.; and the fxy, in a minute's time, was turned duit and reddiff, like a glowing oven. . Yet, as great a fufferer as Port-Roval was, more houfes were left Itanding therein then on the whole illand befides. Scarce a planting-Loufe, br fugar-houle, was left ftanding in all Jamaica. A great part of them were fwallowed up, houfes; people, trees, and all, in one gap: in lieu of which, efterwards appeared great pools of water, which,

when dried up, left nothing but fand, without any mark that ever tree or plant had grown thereon. The thock was to violent, that it threw people down on their knees or their fales as they were running about for thelter. Several houses were thuffled iome yards out of their places, and yet continued flanding. One Hopkins had his plantation removod half a mile from the pla e where it ftood, without any confiderable alteration. All the wells in the ifl and, as well as those of Port-Royal, from one fathom to fix or feven deep, threw their water out at the top, with great violence. Above 12 miles from the fea, the earth gaped and spouted out, with a prodigious for, e, vast quantities of water into the air: yet the g eate't violences were among the mountains and rocks; and it is a general opinion, that the nearer the mountains, the greater the thook; and the caule thereof lay among them. Most of the rivers were stopped up for 24 hours by the falling of the mountains; till fwelling up, they made themfelves new tracks and channels; tearing up, in their paffage, trees, & . After the great thock, those people who escaped got on board thips in the harbour, where many continued above twomonths; the thocks all that time being fo violent, and coming to thick, tometimes two or three in an abour, accompanied with trightful noiles like a ruhing wind, or a hollow rambling thunder, with primftone blafts, that they durft not come alhore. i de confequence of the earthquake was a general licknefs, from the noifome vapours belched forth, which fwept away above 300. perfons,

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Of the Eurthquake in Sicily, in 1693.

N 1693 an easthquake happened in Sicily, which may juitly beacco inted one of the most terri le of which we have any account. It shook the whole Mand: and not only that, but Naples and Malta I rec² in the flock. It was impossible for any body this country to keep on their legs on the dance earth; may, those that lay on the ground were t led from fide to fide as on a rolling billow: hi walls leaped from their founda ions feveral pac Scc. The mifchief it did is amazing; almost all't buildings in the countries were thrown down." I ty-four cities and towns, beside an incredible nul ber of villages, were either deftroyed or great damaged. We shall only instance the fate of C tania, one of the most famous, ancient, and flo rithing cities in the kingdom; the refidence of 1 veral monarchs, and an univerficy. This once f mous city had the greatest mare in the tragedy. F ther Anthon. Serrovita, being on his way thithe and at the diffance of a few miles, observed a bla cloud like night hovering over the city; and the arole from the mouth of Montgibello great spir of flame, which foread all around. The fea all of fudden began to roar and rife in billows; and the was a blow, as if all the artillery in the world ha been at once discharged. The birds flew about a tonished; the cattle in the fields ran crying, & His and his companions horfes flopped thort, trer bling; fo that they were forced to alight. The were no fooner off, but they were lifted from th ground above two palms, when catting his eyes t wards Catania, he with amazement fair nothing bi a thick cloud of duft in the air. This was th fcene of their calamity, for of the magnificent C. tania, there was not the least footstep to be feer S. Bonajutus offures us, that of 18900 inhabitant 18000 perifhed therein.

This and the two preceding accounts are taken from Encyclopaedia Britannica 3d Edita. vol. 6-EAR. An account of the Great Earthquike, that happened at Lifton, November the first 1755.

HERE never was a finer morning feen than the first of November (1755); the sum shows out in its full lustre; the whole sace of the sky was perfectly lerene and clear, and not the least signal or warning of that approaching event, which has made this once flourithms, opulent, and populous city a scene of the utmon hereor and desolution, except only such as ferred to alarm, but scarcely less a moment's time to sty from the general destruction.

" It was on the morning of this fatal day, between the hours of nine and ten, that I was fat down in my apartment, just finishing a letter, when the papers and table I was writing on began to tremble with a gentle motion, which rather furprized me, as I could not perceive a breath of wind firring; whilf I was reflecting with myfelf what this could be owing to, but without having the least apprehension of the real caufe, the whole house began to fhake from the very foundation. which at first 1 imputed to the raiting of feveral coaches in the mainfireet, which utually paffed that: way; at this time, from Belen to the palaee; but: on hearkening more attentively, I was foon unde-ceived, as I found it was owing to a firance frightfol kind of noise under ground, refeatbling the hollow diffant rumbling of thunder; all this paffed in . less than a minute, and I mult confels I now began . to be alarmed, as it naturally so usred to me, that: this boile might poffibly be the forerunner of an earthquake, as one'l remembered, which had hap-Madeira, commenced in the fame mannir, though it did little or no damage.

"Upon this I threw down my pen, and flarted upon my feet, remaining a moment in fuspence.

whether I should flay in the apartment, or run into the fireet, as the danger in both places feemed equal; and still flattering myself that this tremor might produle no other effects than fuch inconfiderable ones as had been felt at Madeira; but in a moment I was rouled from my dream, being instantly funned with a most horrid crath, as if every edifice in the city lad tumbled down at once. The house I was in shook wich such violence, that the upper ftories immediately fell, and though my apariment (which was the first floor) did not then fnare the fame fate, yet every thing was thrown out of its place in fuch a manner, that it was with no (mail difficulty I kept my feet, and expected nothing leis than to be foon crushed to death, as the walls continued rocking to and fro in the frightfulleft manner, opening in feveral places, large flones failing down on every fide from the cracks, and the ends of most of the ratters starting out from the roof. To add to this territying fcene, the fly in a moment became fo gloomy, that I could no v diffinwhich no particular object; it was an Egyptian darknels indeed, fuch as might be felt; owing, no doubt, to the prodigious clouds of duit and lime, raifed from to violent a concuffion, and as fome reported, to fulphureous exhalations, but this I cannot affirm; however, it is certain I found myfelf almost choaked for near ten minutes.

⁶ As foon as the groom began to difperfe, and the violence of the thock feemed pretty much abated, the first object I perceived in the room was a woman fitting on the floor, with an infant in her arms, all covered with duft, pale and trembling; I asked her how the got hither: but her confiernagion was fo great that the could give me no account of her cleape; I fuppole, that when the tremor first began, the ran out of her own house, and finding herself in fuch imminent danger from the falling of stones, retired into the door of mine, which was almost contiguous to her's, for thelter, and when the flock increased, which filled the door with dust and rubbill, ran up stairs into my apartment, which was then open: be it as it might, this was no time for curiofity. I remember the poor creature afked me, in the utmoft agony, if I did not think that the world was at an end; at the fame time the complained of being choaked, and begged for God's fake I would procure her a little drink; upon this I went to a closet where I kept a large jar with water (which you know is fometimes a pretty fcarce commodity in Lifbon) but finding it broken in pieces, I told her fire much not now think of queaching her thirst, but faving h.t life, as the house was just falling on our heads, and if a fecond flock came, would certainly bury us both; I bade her take hold of my arm, and that I would endervour to bring her into fome place of fecurity.

· I thall always look upon it as a particular providence, that I happened on this occasion to be undreffed, for had I dreffed myfelf, as I proposed, when I got out of bed, in order to bre. haft with a friend, I fhould, in all probability, have run-into. the freet at the beginning of the flock, as the reft of the people in the house did, and confequently have had my brains dathed out, as every one of them had; however, the imminist danger I was in did not hinder me from confidering taat my prefent drefs, only a gown and flippers, would render my getting over the ruins almost impracticable: I had, theretore, still prefence of mind enough left to put on a pair of thoes and a coat, the first that came in my way, which was every thing I faved, and in this drefs I hurried down frairs, the woman with may holding by my arm, and made directly to that end

of the fireet that opens to the Tagus, but finding the paffage this way entirely blocked up with the fallen houses to the height of their second stories, I turned back to the other end which led into the main fireet (the common thoroughfare to the palace) and having helped the woman over a vaft heap of ruins, with no fmall hazard to my own life, just as we were going into the fireet, as there was one part I could not well climb over without the affiltance of my hands, as well as feet, I defired her to let go her hold, which fhe did, remaining two or three feet behind me, at which time there fell a valt from a tottering wall, and crushed both her and the child in pieces: fo difinal a spectacle at any other time would have affected me in the higheft degree, but the dread I was in of tharing the same fate myself, and the many instances of the fame kind which prefented themfelves all around, were too floking to make me dwell a moment on this lingle object.

⁶ I had now a long narrow fireet to pafs, with the houfes on each fide four or five flories high, alvery old, the greater part already thrown down, or continually falling, and threatening the p.ffengers with inevitable death at every flep, numbers of whom lay killed before me, or what I thought far more deplorable—fo brnifed and wounded that they could not flir to help themfelves. For my own part, as defiruction appeared to me unavoidable, I only wifhed I might be made an end of at once, and not have my limbs broken, in which cafe I could expect nothing elfe but to be left upon the fpot, lingering in milery, like thefe poor unhappy wretches, without receiving the leaft fuccour from any. perfon.

As felf-prefervation, liowever, is the first law, Mature, these fad thoughts did fo far prevail, 38:

to make me totally defpair. I proceeded on as fast as I conveniently could, though with the utmost caution, and having at length got clear of this horrid paffage. I found myfeit fafe and unhurt in the large open space before St. Paul's church, which had been thrown down a few minutes before, and buried a great part of the congregation, that was generally preuv numerous, this being reckoned one of the most populous parishes in Lisbon. Here I ficou lome time, confidering what I fould do, and not thinking myfeli fafe in this (tuation, I came to the refolution of climbing over the ruins of the west end of the church, in order to get to the river fide, that 1 might be removed, as far as peffibie, From the tottering houses, in case of a second shock. "This, with tome difficulty, I accomplithed, and where I found a prodigious concourse of people, of both f-xes, and of all ranks and conduions, among when I observed some of the principal canons of he patriarchal church, in their purple robes and stochets, as thefe all go in the habit of bithops; feeral priefts who had run from the altars in their icerdotal vetiments in the midft of their celebrating mass; ladies half dreffed, and loine without empoes; all thefe, whom their mutual dangers had ere affembled as to a place of fafety, were on their mees at prayers, with the terrors of death in their puntenances, every one striking his breast, and ying out inceffantly, Miserecordia meu Dios. · In the midit of our devotions, the fecond great ock came on, little lefs violent than the first, and

mpleted the ruin of those buildings which had en already much shattered. The consternation w became so universal, that the shricks and cries *Miferecorvia* could be distinctly heard from the solid. Catherine's hill at a considerable distance , whither a wast number of people had likewise

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retreated; at the fame time we could hear the fall of the phill church there, whereby many pertone were killed on the fpot, and others mortally wound. ed. You may judge of the force of this thock when I inform you, it was fo violent, that I could scarce keep on my knees, but it was attended with fome circumfrances still more dreadful than the for mer.-Oo a fudden 1 heard a general outery, . The fea is coming in, we shall be all loft."- Upon this turning my eyes towards the river, which in that place is near four miles broad, I could perceive i heaving and fweiling in a molt unaccountable man ner, as no wind was ftiring; in an inftant there ap peared, at fome finall diffance, a large body of wal ter, riting like a mountain; it came on foaming and roaring, and rushed towards the shore with such impetuolity, that we all immediately ran for ou lives as fall as poffible; many were actually frep away, and the reft above their waift in water at good diftance from the banks. For my own part] had the parroweft efcape, and thou'd certainly hav been loft, had I not grafped a large beam that la on the ground, till the water returned to its channe which it did almost at the fame instant, with gquan rapidity. As there now appeared at leaft as muc danger from the fea as the land, and I fearce knew. whether to retire for shelter, I took a sudden refe lution of returning back with my cloaths all dropped ping, to the area of St. Paul's: here I flood form time, and observed the thips tumbling and toffin about, as in a violent ftorm; fome had broken the cables, and were carried to the other fide of the Tagus; others were whirled round with incredib fwiftnefs; feveral large boats were turned keel up h wards; and all this with out any wind, which feen the ed the more aftonishing. It was at the time which which I am now speaking, that the fine new quality

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built of rough marble, an an immenfe expende, was entirely i allowed up, with all the people on it, who had fled thither for fafety, and had reafon to think themfelves out of danger in fuch a place; at the fine time a great number of boats and fmall veffels, anchored near it (all likewife full of people, who had refield thither for the fame purpote) were all wallowed up, as in a whirlpool, and never more appeared.

. This last dreadful incident I did not fee with my own eyes, as it paffed three or four flone throws From the fpot where I then was, but I had the account as here given from feveral mafters of thips, who were anchored within two or three hundred ards of the quay, and faw the whole cataftrophe. One of them in particular informed me, that when the lecond fhock came on, he could perceive the whole city waving backwards and forwards. like the fea when the wind first begins to rife; that the agitation of the earth was to great even under the river, that it threw up his large anchor from the mooring, which twam, as he termed it, on the furface of the water; that immediately upon this exraordinary concussion, the river role at once near wenty feet, and in a moment sublided; at which infant he faw the quay, with the whole concourfe of people upon it, fink down, and at the fame time every one of the boats and veffels that were near it were drawn into the cavity, which he fuppofes infantly closed upon them, inalmuch as not the leaft fign of a wreck was ever feen afterwards. This scrount you may give full credit to, for as to the ofs of the veffels, it is confirmed by every body; and with regard to the quay, I went myfelf a few lays after, to convince myfelf of the truth, and could not find even the ruins of a place, where I had taken fo many agreeable walks, as this was the common rendezvous of the factory in the cool of the evening 1 found it all deep water, and in fome) parts tearcely to be fathomed.

• This is the only place I could learn which was fivallowed up in or about Lifton, though I faw many large cracks and fiftures in different parts, and once odd phenomenon I muft not omit; which was communicated to me by a friend who had a house and wine-cellars on the other fide of the river, viz, that the dwelling-house being first terribly shaken, which made all the family run out, there prefently fells down a vast high rock near it, that upon, this the river tofe and subsided in the manner already mentioned, and immediately a great number of small fishers appeared in feveral contiguous-pieces of ground, whence there spouted out like a jet, deau a large quanticy of fine white fand, to a prodigious height.

'I had not been long in the area of St. Paul's, when I felt the third thock, which though iomewhat lefs violent than the two former, the fea ruthed in again, and retired with the fame rapidity, and I remained up to my knees in water, though I had gotten upon a fmall eminence at fome diffance from the river, with the ruins of feveral intervening houses to break its force. At this time I took notice the waters retired fo impetuoufly, that fome veffeis were left quite dry, which rode in feven fathom water: the river thus continued alternately rushing on and retiring feveral times together in fuch fort, that it was justly dreaded Lifbon would 1 now meet the fame fate, which a few years ago had l. befailen the city of * Lima.

⁶ Perhaps you may think the prefent doleful fubject here concluded; but, alas! the horrors of the first of November, are sufficient to fill a volume.

* This happened in 1764.

As foen as it grew dark, another fcene prefented itfelf little lefs flocking than thole already defcribed—the whole city appeared in a blaze, which was fo bright that I could eafily fee to read by it. It may be faid, without exaggeration, it was on fire at leaft in a hundred different places at once, and thus continued burning for fix days together, without intermiffion, or the leaft attempt being made to ftop its progrefs.

I could never learn, that this terrible fire was owing to any fubterraneous eruption, as fome reported, but to three caules, which all concurring at the fame time, will na drally account for the prodigious havock it mide; the first of November being All Saints Day, a high festival among the Portuguele, every altar in every church and chapel (fome of which have more than twenty) was illuminated with a number of wax tapers and lamps, as cuftomary; thefe fetting fire to the curtains and timber work that fell with the fnock, the conflagration, foon fpread to the neighbouring boufes, and being there joined with the fires in the kitchen chimnics, increased to fuch a degree, that it might easily have destroyed the whole city, though no other caute had concurred, efpecially as it met with no interruption.

• But what would appear incredible to you, were the fast lefs public and notorious, is, that a gang of hardened villains, who had been confined, and got out of prifon when the wall fell, at the first shock, were bufily employed in fetting fire to those buildings, which should fome chance of escaping the general defaration.

The fire, by fome means or other, may be faid to have deftroyed the whole city, at least every thing hat was grand or valuable in it; and the damage on this occasion is not to be estimated. • The whole number of perfons that perifhed, including those who were burnt, or afterwards cruthed to death whilft digging in the ruins, is supposed, an the lowest calculation, to amount to more than fixty thousand; and though the damage in other respects cannot be computed, yet you may form some idea of it, when I affire you, that this extensive and opalent city, is now nothing but a vafil heap of ruins, that the rich and poor are at prefent upon as level, fome thousands of families which but the day before had been eafy in their circumstances, being now feattered about in the fields, wanting every conveniency of life, and finding none able to relieve them.

. A few days after the first consternation was over, I ventured down into the city, by the fafeft ways I could pick out, to fee if there was a polfibility of getting any thing out of my lodgings, but the ruins were now to augmented by the late fire, that I was fo far from being able to diftinguish the individual fpat where the houle frood, that I could not even diffinguith the fireet, amidil the mountains of frone and rubbith which role on every fide. Some days after, I ventured down again with feveral porters, who, having long plied in thefe parts of the town, were weltacquainted with the fitua ion of particular houses; by their affi tance, I at last discovered - the foot; but was foon convinced, that to dig for any thing there, befules the danger of fuch an attempt, would never anfiver the expence.

• On both the times when I attempted to make this fruitlefs fearch, effectially the first, there came fuch an intolerable stench from the dead bodies, that was ready to faint away, and though it did not feem to great this last time, yet it had nearly been more fatal to me, as ' contracted a fever by it, but of which, 'God be praised, then got the betr. However, this made me to cautious for the ture, that I avoided paffing near certain places, here the flench was fo exceflive that people began dread an infection: a gentleman toid me, that ong into the town a few days after the earthtake, he faw feveral bodies lying in the fireets, me horribly mangled, as he fuppofed, by the ogs, others half barnt, fome quite roafied; and at in certain places, particularly near the doors churches, they lay in vaft heaps piled one upon tother.

Extracted from a Volume of Letters, published a few ars ago b; the Revereal Mr. Davy — See Gregory's conomy of Nature vol 2nd. page 396, to 375 inclure, fecond edition.

EARTHQUAKES,

In Calabria and Sicily, in 1783.

The year 1783 was fatally marked by the defola. ors of some of the most fertile, most beautiful, and out celebrated provinces of Europe. The two Caprias, with a part of Sicily, were doomed to be a ene of the most tremendous, and the most fatal rthquakes that ever were known, even in those leanic regions. The first flock happened about on, on the 5th of February, and was fo violent to involve almost the whole of Calabria in ruin. is was but the commencement of a fucceffion of rthquakes, which beginning from the city of nantea, on the coast of the Tyrrhene sea, proeded along the weftern coaft to Cope Spartiveoto, d up the eaftern as Iar as Cape D'Alles, during e whole of which fpace not a town was less undeoved.

During two years repeated flocks continued to

agitate the affrighted minds of the inhabitants a Calabria and Sicily, but the principal milchie profe in the months of February and March in d first year. For leveral months the earth continue in an uncealing tremor, which at certain intervels it creafed to violent flocks, fome of which were beyon description dreadful. These thocks were sometime borizontal, whiching like a vortex; and fometime by pullations or beating from the bottom upward and were at times to violent that the heads of th largest trees almost touched the ground on eithe fide. The rains, during a great part of the time were continual and violent, often accompanied wit lightning, and furious guits of wind. All that parof Calabria, which lay between the 38th and 39th degrees, affinned a new appearance. Houfes, church es, towns, tities, and villages, were buried in on promiscuous ruin. Mountains were detached front their foundations, and carried to a confiderable dif tance. Rivers difappeared from their beds, and again returned and overflowed the adjacent country Streams of water fuddenly gufhed out of the ground and fprang to a confiderable height. Large piece of the furface of the plain, feveral acres in extent were carried five, hundred feet from their forme fituation down into the bed of the river, and lef ftanding at nearly the diftance of a mile, furround ed by large plantations of olives and mulberry trees and corn growing as well upon them as upon th ground from which they were feparated! Amid! these scenes of devaltation, the escapes of some o the unhappy fufferers is extremely wonderfal. Som of the inhabitants of houles which were thrown to a confiderable diffance, were dug out from their ruin unhurt. But thele initances were few, and thofk who were to fortunate as to preferve their lives it fuch fituations, were content to purchase existence

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t the expence of broken limbs and the most dreadal contusions.

During this calamitous fcene, it is impoffible to oncei e the horrors and wretchednfs of the unbapby inhabitants. The jaws of death were opened to wallow them up; ruin had faized all their poff ffions, and those dear connections to which they night have looked for confolzion in their forrows, were for ever baried in the mercifels abyls. All was um and defolation 'Every countenance indicated the extremity of affliction and defpair; and the hele country formed a wide freme or undefcribable forror.

One of the most remarkable towns which was eftroved was Cafal Nuova, where the Princels Geace Grimaldi, with more than four thousand of for fubjects, perifned in the lame inftant. An inhisbitant hippening to be on the fummit of a beighbouring hill at the moment of the flock, and ooking earneftly back to the refidence of his family, culd fee no other remains of it than a white cloud which proceeded from the ruins on the houfes. At Baghara, about three thousand perfons were killed, and not fewer as Redicina and Palma. At Terra Nueva tour thousand sour hundred perished, and rather more at Sen niari. The inhabitants of Scilla theaped from their houses ou the celebrated rock of that name, and with their prince, descended to in little hartour at the foot of the hill; but, in the ourfe of the night, a flupendous wave, which is aid to have been driven three miles over land, on ts return fwept a ay the unfortunate prince, with wo thousand four hundred and feventy-three of nis subjects of it is computed that not less than fory thousand perions perifhed by this earthquake.

> Greg Econ. of nature, vol. 2nd. page 375 to 378. incl.

Earthquakes in Scotland:

LTHO this kingdom is happily free fr A the dreadful calamities experienced many other parts of the world, from thefe te ible convultions of nature, yet occasional shok of earthquakes have been felt in Scotland, with theie 13 veurs, William Creech, Efg in his thi letter to Sir J. Sinclair, annexed to the Statific Account of Edinburgh, (Vol. VI. p. 624) ame other phyfical phenomena, enumerates the folic ing: Upon the 16th June, 1786, a fmart shock, an earthquake was felt at Whitehaven, in Cumb land, which extended to the life of Man and E blin, and was allo felt in the SW. parts of Scotlar Upon the 11th of Aug. 1786, a very alarmi flock of an earthquake was felt about two o'clo A. M. in the N. of England, viz. Northumberlar Cumberland, and in Scotland, acrofs the iflan and as far N. as Argylithire; and in all there plac at the fame inftant of time. This flock extend, above 150 miles from S. to N. and 100 from to W. Dpen the 25th Jan. 178-, the river I viot bacame fuddenly dry, and continued fo for hours, and then flowed with its usual fulnel " On the 26th Jan. 1787, a mart thock of : earthquake was felt in the parishes of Campfie an Strathblane, 10 miles N. of Glafgow, and about A. M. A rushing noife was heard to precede the shock from the SE. The night preceding the earthquake, a piece of ground near Alloa, on white a mill was built, fuddenly funk a foot and a half ". " On Ituriday. 'sth Nov. 1789, between 5 and P. M, a fmart shock of an earthquake, was fest Crieff, at Comrie, and for many miles round th district, which is about 55 miles from Edinburgh * At Mr. Robertson's house of Lawers, a rumblir noise like diftant thunder had been heard at inte

vals for two months; and at the time of the Thock, a roife like the difcharge of diffant artillery was diftin Aiv heard. Mr. Dundas and Mr. Bruce of Edinburgh, were flanding before the fire in the drawing room, and they-delcribed the flock, as if a great mallet had fuddenly flyuck the foundation of the house with violence. At the village of Comrie, the inhabitants left their houfes and rah to the open fields."-" On the 11th Nov. A. M. in the fame place, another flock was felt, which was much more violent than "that of the 5th," It was accompanied with a hollow rumbling poife. The ice on a piece of water near the house of La-vers, vas shivered to atoms." Mr. Creech, af-ter quoting from the London Chroziele, the account of the earth quake at Borgo San Sep-fero, on the 30th of Sept. 1789, adds, " It is very extraor-dinary, that on the fame day, near 3 P M. two or three diffind flocks were felt at the house of Parion's Green, within a mile of Ediaburgh. The houle is fituated on the M. fide of Arthur's beat, which is composed of an immense blue granite. Several vistors were in the house to dine with the family, and the whole compare ran down flairs from the drawing-room, and met the fervants from the kitchen, in the lobby, equally alarmed at what had happened. They defcribed the feulation, as if the house had received two or three violent blows in the foundation, fo that all the furniture Thook."-" On the 10th Nov. 1792 three repeated fhocks of an earthquake, accompanied with a phollow rumbling noife, like that of diffant thunder, were felt at Loch Rannoch, in Perilihire." Mr. Creech concludes his account of thele and other physical-phenomena, with an extract of a letter vrom " Comrie, in Perthfulre," dated " Nov. 30th 1792," from which we shall only quote the facts lated. We have of late, been greatly alarmed with

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feveral very fevere flocks of an earthquake. The were more featible and alarming, than any for formerly, and the noile attending them was u commonly loud and tremulous. It appeared pribably more fo, from the fillness of the atmospher and the reverberation of the furrounding moutains. The houtes were greatly flaken, and the furniture toffed from its place. The weather have been uncommonly variable, and changed from high guffs of kind, to a deep calm, a few days have fore the fevereff flocks of the carthquake. The air was moift and hazy, and the clouds feeme charged with el chricity "

Enciclopaedia Perthenfis, vol. 7th EA.

Two Shocks of an Earthquake, (fimilar to the which began at the fame place (ome years ago) hav been lately felt at and near Comrie in Ferthfhir one on the 17th of January, and the other on the 24th of February.

The motion of the Earth was from Weft to Eat and lafted about two feconds, but the Subterrancus noife which accompanied, it continued muclonger.

Scots Magazine for March, 179

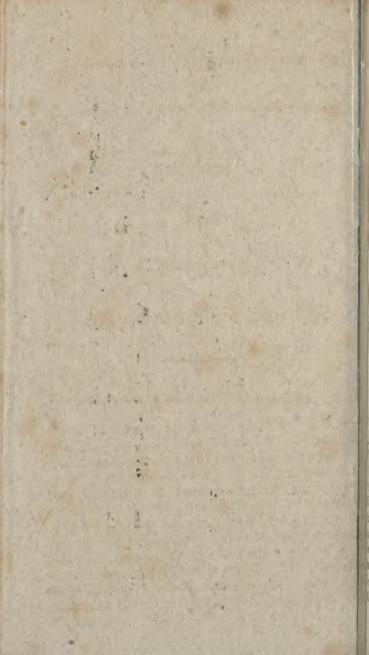
FINIS.

Awful Phenomena of Nature

P.

PART SECOND,







AN ACCOUNT

OF TWO

GREAT AND DREADFUL

Volcanic Eruptions, &c.

Eruption of Mount Etna in Sicily, 1699.

MANY firiking remains of the great cruption in 1669 are fill to be feen, and will long ntinue as memorials of that dreadful event which verwhelmed Catania, and all the adjacent country. remendous earthquakes fhook the ifland, and loud abterraneous bellowings were heard in the mounin. During fome weeks, the fun ceafed to appear, nd the day feemed changed into night. Borelli, who vas a witnefs to thefe terrible phenomena, fays, that t length a rent, twelve miles in length, was opened i the mountain, in fome places of which, when iey threw down ftones, they could not hear them reach the bettom. Burning rocks, fixty palms in length, were thrown to the diffance of a mile, and leffer flores were carried three miles. After the moft violent flruggles, and a fhaking of the whole ifland, an immenie torrent of lava guilbed from the rent, and fprung up into the air to the height of fixty palms, whence it poured down the mountain and overwhelmed every object in its way in one promifeuous ruin.

This deftructive terrent, which burft from the fide of Ætna at a place called Licini, rushed impetuoufly against the beautiful mountain of Montpel lieri, and pierced into the ground to a confiderable depth; then dividing and furrounding the moun tain; it united again on the fouth fide, and pource defolation upon the adjacent country. The progrefs of the torrent was at first at the rate of fever miles a day, but it afterwards took four days 1 travel fixteen; wherever it dirocled its courfe, th whole appearance of nature was changed, feveral hills were formed in places which were formerly valleys, and a large lake was to entirely filled u by the melted mais, as not to leave a veflige remain ing. In its courfe it detcended upon a vineyard, bel longing to a convent of Jefuits, which was ferme upon an ancient and probably a very thin layer c lava, with a number of caverns and crevices unde : it. The liquid mafs entering into thefe excavation foon filled them up; and by degrees bore up the vineyard, which in a fort time, to the great after nishment of the speciators, began to move avays and was carried by the torrent to a confiderabil diftance. In 1770 fome remains of this vineyarwere fill to be feen, but the greater part of it way entirely deftroyed.

In vain did the terrified inhabitants of Catanina recur for protection to the miraculous veil, or estipect defence from the lofty walls of their city. After deftroying feveral convents, churches, and villages, this fiery current directed its courle to Catania, where it poured impetuoufly over the ramparts, which are near fixty feet in height, and covered up five of its baftions, with the intervening curtains. After laying wafte a great part of this beautiful city, and entirely deftroying feveral valuable remains of antiquity, its further progrefs was flopped by the ocean, over whole banks it poured its deftructive current. In its courfe from the rent in the mountain, till its arrival in the fea, it is faid, to have totally deftroyed the property of near thirty thoufand perfone.

Eruption of Mount Voluvius in Italy, 1794.

TilE mountain had been remarkably quiet for feven months before the late eruption, nor die the ufual fmoke iffue from its crater, but attimes it emitted finall clouds of fmoke that floated, in the air in the fhape of little trees. It was remarked by the Father Antonio di Petrizzi, a capuchin friar (who printed an account of the late eruption) from his convent clofe to the unfortunate town of Forre del Greco, that for fome days preceding this eruption, a thick vapour was feen to furround the mountain, about a quarter of a mile beneath its crater, and it was obferved by him and others at the fame time, that both the fun and the moon had often an unufual reddifh caft,

The water of the great fountain at Torre del Greco began to decreafe fome days before the eruption, fo that the wheels of a corn mill, worked by that water, moved very flowly; it was neceffary in all the other wells of the town and its neighbouraood to lengthen the ropes daily, in order to reach the water; and fome of the wells became quite dry Although most of the inhabitants were feasible of this phenomenon, not one of them feems to hav fulpefted the true caufe of it. Eight days alfo be fore the eroption, a man and two boys, being in vineyard above Terre del Greco (and precifely of the fost where one of the new mouths opened whence the principal current of lava that deftrove the town iffied) were much alarmed by a fudded puff of fmoke which iffued from the earth clofe t them, and was attended with a flight explosion.

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Had this circumstance, with that of the fubtch rancous noifes, heard at Refina for two days before the eruption (with the additional one of the decrease of water in the wells) been communicated a the time, it would have required no great forefight to have been certain than an eruption of the volcano was near at hand, and that its force was directed particularly towards that part of the mountair

On the 12th of June 1794, in the morning, ther was a violent fall of rain, and foon after the inhat bitants of Refina, fituated directly over the ancier town of Herculaneum, were fenfible of a rumblin fubterraneous noife, which was not heard at N. ples.

From the month of January to the month c May, the atmosphere had been generally cains, an there was continued dry weather. In the mont of May there was a little rain, but the weather was unufually fultry. For fome days preceding the erup tion, the Duke della Torre, a learned and ingens ous nobleman, who published two-letters upon the fubject of the eruption, observed by his electrometers, that the atmosphere was charged in ex et with the electric fluid, and continued to for feve ral days during the eruption.

About eleven o'clock on the night of the 12th

of June, the inhabitants of Naples were all fensible of a violent flock of an earthquake; the undulatory motion was evidently from east to weft, and appeared to have lasted near half a minute. The sky. 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 Vesuvius, felt this earthquake still more sensibly, and fay, that the thock at first was from the bottom upwards, after which followed the undulation from east to west. This earthquake extended all'over the Campagna Felice; and the royal palace at Caferta, which is Efteen miles from Naples, and one of the most magnificent and folid buildings in Europe (the walls being eighteen feet thick) was fhaken in fuch a manner as to cause great alarm, and all the chamber bells rang. It was likewife much felt at Beneventum, about thirty miles from Naples; and at Ariano in Puglia, which is at a much greater distance; both these towns, indeed, have been often afflicted with earthquakes.

On Sunday the 15th of June, foon after ten o'clock at night, another shock of an earthquake was felt at Naples, but did not appear to be quite fo violent as that of the 12th, nor did it last fo long; at the fame monient a fountain of bright fire. attended with a very black fmoke and a loud report, was feen to iffue, 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 distance lower down; then, as is supposed by the blowing up of a covered channel full of red hot lava, it had the appearance as if the lava had taken its course directly up the fteep cone of of the volcano. Freth fountains fucceeded one another halfily, and all in a direct line tending, for about a mile and a half down, to wards the towns of

Refina and Torre del Greco. Sir William Humi ton could count fifteen of them, but believes they were others obfcured by the finoke. It feens pr. bable, that all these fountains of fire, from the being in fuch an exact line, proceeded from out and the fame long fiffure down the flaks of th mountain, and that the lava and other volcant matter forced its way out of the widelt parts of th crack, and formed there the little mountains and eraters that will be defcribed in their proper plac It is impossible that any description can give an ide of the blazing fcene, or of the horrid noifes the attended this great operation of nature. It was mixture of the loudest thunder, with inceffint ri ports, like those from a numerous heavy artiller accompanied by a continued hollow murmer, like that of the roaring of the o can during a violer ftorm; and, added to thele was another blowing noife, like that of the afcending of a large flight of fky-rockets, or that which is produced by the as tion of the enormous bellows on the furnace of the Carron iron foundery in Scotland. The frequer falling of the huge ftones, and fcoriz, which were thrown up to an incredible height from fome of th new mouths, one of which having been fince mer fured by the Abbe Tata was ten feet high, an thirty-five in circumference, contributed undoubi edly to the concuffion of the earth and air, which kept all the houfes at Naples for feveral hours in constant tremor, every door and window shakin and rattling inceffantly, and the bells ringing This was an awful moment! The fky, from a bright full moon and starlight, began to be obscured; the moon had prefently the appearance of being in a. eclipte, and foon after was totally loft in obfcurity The murmer of the prayers and lamentations of numerous populace forming various processions

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and parading in the fireets, added to the horror As the lava did not appear to have yet a fufficient vent, and it was now evident that the earthquakes already felt had been occafioned by the air and fiery matter confined within the bowels of the mountain, and probably at no fmall depth (confidering the extent of those carthquakes) Sir William recommended so the company that was with him, who began to be much alarmed, rather to go an I view the mountain at fome greater diffance, and in the open air, than to remain in the house, which was on the fea fide, and in the part of Naples that is neareft and most exposed to Vesuvius. They accordingly proceeded to Pofilipo, and viewed the conflagration, now become still more confiderable, from the fea fide under that mountain; but whether from the eruption having increased, or from the loud reports of the volcaule explosions being repeated by the mountain behind them, the noife was much louder, and more alarming than that they had heard in their first position, at least a mile nearer to Veluvius After some time, and which was about two o'clock in the morning of the 16th, having observed that the lavas ran in abundance. freely, and with great velocity, Laving made a confiderable progre's toward Refina, the town which it first threatened, and that the fiery varours which had been confined had now free vent through many parts of a crack of more than a mile and a half in length, as was evident fro a the quantity of inflam-間 ed matter and black moke, which continued to iffue from the new mouths above mentioned, without any interruption, our author concluded that at Naples all danger from earthquakes, which had. been his greatest apprehension, was totally removed, and he returned to his former flation at St. Lucia at Naples.

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All this time there was not the imalleft appears of fire or finolie from the crater on the fummin Vesuvius; but the black smoke and ashes iffi continually from fo many new months, or crat. formed an enormous and denfe body of clouds e the whole mountain, and which began to give fi of being replete with the electric fluid, by exhi ing flashes of that fort of zig-zag- lightning, wh in the volcanic language of the country is cal ferilli, and which is the conftant attendant on most violent cruptions.

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Sir William Hamilton proceeds to remark, the during thirty years that he had refided at Nap and in which space of time he had been witness many eruptions of Vesuvius, of one fort or oth he never saw the cloud of smoke replete with t electric fire, except in the two great eruptions 1767, that of 1779, and during this more form dable one. The electric fire, in the year 17 that played confantly within the enormous bla cloud over the crater of Vefuvius, and feldom qu ted it, was exactly fimilar to that which is produl ed, on a very small scale, by the conductor of electrical machine communicating with an infult plate of glass, thinly fpread over with metallic t ings, &c. when the electric matter continues to pl over it in zig zag lines without quitting it. He w not fenfible of any noife attending that operation in 1779; whereas the discharge of the electric matter from the volcanic clouds during this crupt on, and particularly the second and third day. caufed explosions like those of the loudest thunde and indeed the florms raifed evidently by the fol power of the volcano, refembled in every refper all other thunder-florms; the lightning falling an destroying every thing in its course. The houl of the Marquis of Berio at St. Jorio, fituated at th

foct of Veluvius, during one of thefe volcanic florms was flruck with lightning, which having fhattered many doors and windows, and damaged the furniture, left tor some time a strong smell of fulphur in, the rooms it paffed through. Out of these gigantic and volcanic clou is, befides the lightning, both during this cruption and that of 1779, the author adds, he had, with many others, feen balls of fire iffue, and fome of \cdot confiderable magnitude, which butfling in the air, produced nearly the fame effect as that from the air-baloons in fire-works, the electrie fire that, came out having the appearance of the ferpents with which those fire-work baloons are often filled. The day on which Naples was in the greateft danger from the volcanic clouds, two imail balls of fire, joined together i.y a fmall link like a chain-fhot, feil close to his Calino' at Polilipo; they feparated, and one f-ll in the vineyard above the house, and the other in the sea, To close to it that he heard the splash in the furater. The Abbe 'Lata, in his printed account of this eruption, mentions an enormous ball of this kind which flew out of the crater of Veluvius while he was standing on the edge of it, and which burft in the air at fome distance form the mountain, scon after which he heard a noife like the fall of ftones, or of a heavy shower of hail. During the eruption of the 15th at night, few of the inhabitants of Naples, from the dread of earthquakes, ventured to go to their beds. The common people were either employed in devout processions in the freets, or were fleeping on the quays and open places; the nobility and gentry, having caufed their horfes to be taken from their carriages, flept in them in the fquares and open places, or on the high roads just out of the town. For feveral days, while the volcanic forms of thunder and lightning latted, the inhabitants at

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the foot of the volcano, both on the fea fide and the Somma fide, were often fenfible of a tremor in plearth, as well as of the concuffions in the air, that Naples only the earthquakes of the 12th a 15th of June were diffinely, and univerfally feathers fair city could not certainly have refifted, he not those earthquakes been fortunately of a the duration. Thoughout this eruption, which comnued in force about ten days, the fever of the mountain, as has been remarked in former erupt ons, fhowed itfelf to be in fome measure periodica and generally was most violent at the break of day at noon, and at midnight.

About four o'clock in the morning of the 16th the crater of. Veluvius began to fhew figns of bein open, by fome black imoke iffuing out of it; an at day-break another fmoke, tinged with red, iffi ing from an opening near the crater, but on the other fide of the mountain, and facing the tow of Ottaiano, shewed that a new mouth had opened there from which a confiderable fiream of lava iffu ed, and ran with great velocity through a woud which it burnt; and having run about three mile in a few hours it ftopped before it had arrived at the vineyards and cultivated lands. The crater, and al the conical part of Vefuvius, was foon involved in clouds and darknefs, and fo it remained for fevera! days; but above these clouds, although of a great height, fresh columns of imoke were feen from the crater, rifing furioufly flill higher, until the whole mass remained in the usual torm of a pine-tree; and in that gigantic mais of heavy clouds the ferilli, or volcanic lightning, was frequently visible, evenin the day time. About five o'clock in the morning of the 16th, the lava which had first broken out from the feveral new mouths on the fouth fide of the mountain, had reached the fea, and was

running into it, having overwhelmed, burnt, and deftroyed the greatest part of Torredel Greco, the principal fiream of lava having taken its coarfe through the very center of the town. They observed 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 pale flame, and very different from the deep red of the lava; this was occasioned by the burning of the trees that fup-ported the vines.. Soon after the beginning of this eruption, ashes fell thick at the foot of the mountain, all the way from Portici to the Torre del Greco; and what is remarkable, although there were not at that time any clouds in the air, except those of fnioke from the mountain, the affies were wet, and accompanied with large drops of water, which were to the taffe very falt; the road, which is paved, was as vet as if there had been a heavy flower of rain. Those ashes were black and coarfe, like the fand of the fea-fhore, whereas those that fell there, and at Naples some days after, were of a bight-grey colour, and as fine as Spanish snuff, or powder bark. They contained many faline particles; no hofe alles that lay on the ground, expoled to the drarning fun, had a coat of the whiteft powder on their d urface, which to the tafte was extremely falt and moungent. In the printed account of the cruption y Emanuel Scotti, doctor of physic and professor f philosophy in the university of Naples; he supofes (which appears to be highly probable) that whe water which accompanied the fall of the affres t the beginning of the eruption, was produced by whe mixture of the inflammable and dephlogisticatand d air ..

By the time that the lava had reached the fea, tween five and fix o'clock in the morning of the fibit, Vefuvius was for completely involved in

darknefs, that the violent operation of pature thru was going on there could no longer be diferred and fo it remained for feveral days; but the dread ful noife, and the red tinge on the clouds over the top of the mountain, were evident figns of the act vity of the fire underneith The lava ran ba flowly at Torre del Greco after it had reached th fea; and on the 17th of June in the morning, i courfe was fopped, excepting that at times a litt rivulet of liquid fire iffed from under the fmokin fcorite into the fea, and caufed a hiffing noife, ar a white imoke; at other times, a quantity of large febriae were pushed off the furface of the body the lava into the fea, difcovering that it was redb. under that furface; and even to the latter end August the center of the thickest part of the lat that covered the town retained its red heat. Th breadth of the lava that ran into the fea, ar formed a new promontory there, after having d ftroyed the greateft part of the town of Torre d Greco, having been exactly measured by the dui della Torre, is of English feet 1 204. Its height abo the fea is twelve feet, and as many feet under w ter; fo that its whole height is twenty-four feet; extends into the fea 626 feet. The fea water w boiling as in a cauldron, where it washed the fe of this new formed promontory: and although c author was at least a hundred yards. from it, obfer ing that the lea fmoaked near his boat; he put I hand into the water, which was literally fealde and by this time his boatmen observed that i pitch from the bottom of the boat was melting fa and floating on the furface of the fea, and that 1 boat began to leak; he therefore retired haff from this fpot, and landed at fome diftance from t hot lava. The town of Torre del Greco contain about 18,000 inhabitants, all of whom (except

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bout 15; the from either age or infirmity could not be moved, and were overwhelmed by the lava in their houses) escaped either to Callel-a-mare, which was the ancient Stabiae, or to Naples; but the rapid progress of the lava was such, after it had Atered its course from Refina; which town it first threatened, and had joined a fresh lava that iffued from one of the new mouths in a vineyard, about a mile from the town, that it ran like a torrent over the town of Torre del Greco, allowing the unfortunate inhabitants fcarcely time to fave their lives; their goods and effects were totally abandoned, and indeed several of the inhabitants, whose houses had been surounded with lava while they remained in them, efcaped from them, and faved their lives the following day, by coming out of the tops of their houses, and walking over the scoriae on the surface of the redhot lava. Five or fix old nuns were taken out of a convent in this manner, on the 16th of June, and carried over the hot lava; their flupidity was fuch, as not to have been the least alarmed; or sensible of their danger: one of upwards of ninety years of age was found actually warming herfelfial 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 still very unwilling to leave the convent, in which the had been thut up almost from their infancy, their ideas being as limited as the space they inhabited. Having been defired to pack up whatever they had that was most valuable. they all loaded themfelves with bifcuits and fwceimeats, and it was but by accident it was discovered that they had left a fum of money behind them, which was recovered for them.

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The lava paffed over the center and best part of the town; no part of the cathedral remained above

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(4°), it, except the upper part of a fquare brick tower, it in which were the bells; and it is a curious circumftance, that those bells, although they were neither cracked nor melted, were deprived of their tone as much as if they had been cracked. When the lava first entered the fea it threw up the water to a prodigious height; and particularly when two points of lava met and inclosed a pool of water, that water was thrown up with great violence, and a loud report: at this time, as well as the day after also, a great many boiled fish were feen floating on the furface of the fea.

The lava over the cathedral, and in other parts of the town, is faid to be upwards of forty feet in thickness; the general height of the lava during its whole courfe was about twelve feet, and in femeparts not lefs than a mile in breadth.

When Sir William Hamilton visited it on the 17th of June, the tops of the houses were just vin-ble here and there in some parts, and the timbers within ftill burning caufed a bright flame to iflue out of the furface; in other parts, the 'fulphur and falts exhaled in a white fmoke from the lava, forming a white or yellow cruft on the foorice round the fpots where 'it iffued with the greatelt force. Hel often heard little explosions, and faw that they in blew up like little mines, fragments of the fcoriae and affes into the air; there he supposes to have been occasioned either by rarefied air in confined cellars, or, perhaps, by fmall portions of guopow-le der taking fire, as few in that country are without a gun and some little portion of gunpowder in their boufes. As the church feafts there are ufually attended with fireworks and crackers, a fireworkmaker of the town had a very great quantity of fireworks ready made for an approaching feaft, and is fome gunpowder, all of which had been thut up ir it

his house by the lava, a part of which, had even enrered one of the 100ms; yet he actually faved all his Breworks and gunpowder fome days after, by carrying them fafely over the fcoriae of the lava, while it was red hot underneath. The heat in the freets of the town, at this time, was to great as to rife the thermometer to very near one hundred degrees, and close to the hot lava it role much higher. Sir William remarked in his way home, that there was a much greater quantity of the petroleum floating on the surface of the ka, and diffuting a very strong and offenfive smell, than was usual; for at all times in calms, patches of this bituminous oil are to be feen floating on the furface of the fea between Portici and Naples, and particularly opposite a village. colled Pietra Bianca. The minute afhes continued falling at Naples; and the mountain, totally obfcured by them, continued to alarm the inhabitants with repeated loud explosions.

On Wednesday June 18, the wind having for a fhort space of time cleared away the thick cloud from the top of Vefuvius, 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'clock in the morning of that day, as a violent flock of an earthquake was felt at that moment at Refina, and other parts fituated at the foot of the volcano. The clouds of fmoke, mixed with the afhes, were of fuch a denfity as to appear to have the greatest difficulty.in forcing their paffage out of the now widly extended mouth of Vesuvius, which, fince the top fell in, is described as not much fhort of two miles in circum-, ference. One cloud heaped on another, and fucceeding one another inceffantly; formed in a few hours fuch a gigantic and elevated column of the darkest hue over the mountain, as feemed to threaten Naples with immediate deAruction, havi at one time been bent over the city, and appearing to be much too mafive and ponderous to remain long fulpended in the air; it was, befides, replet with the ferilli, or volcanic lightning, which we ftronger than common lightning.

Vefuvius was at this time completely covered, were all the old black lavas, with a thick coat those fine light grey ashes already fallen, which ga it a cold and horrid appearance; and in comparifelit of the abovementioned enormous mais of cloud which certainly, however it may contradict our ide of the extension of our atmosphere, rose many mile above the mountain, it appeared like a molehil although the perpendicular height of Vefuviu from the level of the fea, is more than three though fand fix hundered feet. The abbe Braccini, as ap pears in his printed account of the cruption a Mount Vesuvius in 1631, measured with a quadrar the elevation of a mais of clouds of the fame nature which, was formed.over. Vefuvius during that great eruption, and found it to exceed thirty miles i height. Dr. Scotti, in his printed account of this eruption, fays, that the height of this threat the ning cloud of fmoke and alhes, measured front. Naples, was found to be of an elevation of thirt degrees.

The forms of thunder and lightning, attende at times with heavy falls of rain and allnes, caufing the most destructive torrents of water and glutinou mud, mixed with huge flones, and trees torn up by the roots, continued more or lefs to afflict the inhabitants on both fides of the volcano until the 7th o July, when the last torrent deftroyed many hundred acres of cultivated land, between the towns of Torre del Greco and Forre dell' Annunziata. Some of these torrents, both on the fea fide and the Som the ma fide of the mountain, came down with a horrid ruthing noife; and fome of them, after having forced their way through the narrow gullies of the mountain, rofe to the height of more than twenty defect, and were near half a mile in extent. The mud, of which the torrents were composed, being a kind of natural mortar, completely cafed up and ruined fome thousand acres of rich vineyards; for it foon becomes fo hard, that nothing lefs than a pickaxe can break it up.

The laudable curiofity of our author induced him to go upon Mount Veluvins, as foon as it was confiftent with any degree of prudence, which was not until the 30th of June, and even then it was attended with some rick. The crater of Vesuvius, mexcept at fhort intervals, had been continually obfoured by the volcanic clouds from the roti, and was fo on that day, with frequent flashes of lightin ning playing in those clouds, and attended as ulual with a noile like thunder; and the fine aftes were fill falling on Vefavius, but still more on the mountain of Somma. Sir William went up the utual way by Retina, and observed, in his way through that village, that many of the ftones of the pavement had been loofened, and were deranged by the earthquakes, particularly by that of the 18th, which attended the falling in of the crater of the volcano, and which had been to violent as to throw many people down, and obliged all the inhabitants of Refina to quit their houses hastily, to which they did not dare return for two days. The k leaves of all the vines were burnt by the athes that had fallen on them; and many of the vines them-H I I felves were buried under the ashes, and great branches of the trees that fupported them had been 51 torn of by their weight. In fort, nothing but 13 sain and defolation was to be feen. Lue aires at

the foot of the mountain were about ter or twel inches thick on the furface of the earth, but proportion as he afcended, their thicknefs increas ed to feveral feet, no lefs than nine or ten in foil parts; to that the furface of the old rug red lave that before was almost impracticable, was now b come a perfect plain, over which he walked will the greately este. The affres were of a light gr colour, and exceedingly fine, fo that by the for fteps being marked on them as on fnow, he learn that three finall parties had been up before him. H faw likewife the track of a fox, which appeared t have been quite bewildered, to judge from the m ny turns he had made. Even the traces of lizard and other little anim de, and of infects, were vifible on these fine ashes. Sir William and his compan on afcended to the foot whence the lava of the 1 still first isfued, and followed the courfe of it, which wa fill very hot (although covered with fach a thick coat of alhes) quite down to the fea at Torre del Greco, which is more than five miles. It was no poffible to get up to the great crater of Vefuvius nor had any one yet attempted it. The horrie chafms that exifted from the foot were the late eruption first took place, in a strait line for near two miles towards the fea, cannot be imagined They formed vallies more than two hundred fiel deep, and from half a mile to a mile wide; and where the fountains of fiery matter existed during the eruption, were little mountains wi h deep craters. Ten thouland men, in as many years, could not make fuch an alteration on the fice of Vefuvius. Except the exhalations of fulphurous and vitriolic vapours, which broke out from different firsts of the line abovementioned, and tinged the furface of the affect and feoriae in those parts with either a deep or pale-yellow, with a reddi.h

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chre colour, or a bright white," and in fome parts hith a deep green and azure blue (fo that the whole bgether had the effect of an iris) all had the and learance of a fandy defert. Our ad-enturers then ent on the top of feien of the moft-confiderable of he new formed mountains, and looked into their raters, which on fome of them appeared to be lit. "e fhort of half 2 mile in circun.ference; and alhough the exterior perpendicular heigh of any f them did not exceed two hundred feet, the repth of their inverted cone within was three times s great. It would not have been possible to have reathed on these new mountains near their craters, If they had not taken the precaution of tying a "touble handkerchief over their mouths and noffrils; and even with that precaution they could not re-"ift long, the fumes of the vitriolic acid were fo exreedingly penetrating, d of fuch a fuffocating quality. They found in one a double crater, like wo fuinels joined together; and in all there was ome little fmoke and lepositions of falts and fulaphurs, of the various colcurs abovementioned, just is is commonly feen adhering to the inner walls of the principal crater of Veiuvius.

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Two or three days after they had been there, one of the new mouths, into which they had locked, inderly made a great explosion of ficnes, incke, and aftes, which would certainly have proved fatal to any one who might unfortunately have been there at the time of the explosion. We read of a fimilar accident having proved fatal to more than twenty people who had the curicfity to look into the crater of the Monte Nuovo, near Puzzuoli, a few days after its formation, in the year 1538. The 15th of August, Sir William faw a fudden explosion of fnicke and afters thrown to an extreme height out of the great crater of Vefuvius, that must have

deftroyed any one within half a mile of it; and w on the 10th of July a party not only had vilited th crater, but had descended 170 feet within it. While they were on the mountain, two whirlwinds, e oftly like those that form water-spouts at fea, mat their appearance; and one of them, which was yes near, made a firange rushing noife, and having t ken up a great quantity of the fine thes, forme them into an elevated fpiral column, which, with whirling motion and great rapidity, was carrie towards the mountain of Somma, where it brok and was difperfed. One of our author's fervant employed in collecting of fulphur, or fal ammon ac, which crystalizies near the fumaroli, as they ar called (and which are the fpots whence the hot va pour iffues out of the fresh lava) found to his grea furprize, an exceeding cold wind iffue from a fiffur very near the hot fumaroli upon his leg. In a vine yard not in the fame line with the new-former mountains just described, but in a right line fron them, at the diftance of little more than a mil from Torre del Greco, they found three or fou more of these new-formed mountains with craters out of which the lava flowed, and by uniting with the fireams that came from the higher mouths, and adding to their heat and fluidity, enabled the whole current to make fo rapid a progrefs over the unfortunate town, as scarcely to allow its inhabitant fufficient time to escape with their lives. The rich vineyards belonging to the Torre del Greco, and which produced the wine called Lacrima Christin that were buried and totally deftroyed by this lava, confifted of more than three thousand acres; but the destruction of the vineyards by the torrents of mud and water, at the foot of the mountain of Somma, was much more extensive.

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In that part of the country, the first figns of a

rent that our author met with, was near the vile of the Madonna dell' Arco, and he paffed feveral hers between that and the town of Ottai no; one ar Trochia, and two near the town of Somma, re the most confiderable, and not lefs than a arter of a mile in breadth; and, according to the timony of eye witneffes; when they poured down om from the mountain of Somma, they were from enty to thirty feet high; the matter of these torits was a liquid glutinous mud, composed of fcoe, alles, flones (some of an enormous fize) mixwith trees that had been torn up by the roots. ch torrents, as it may well be imagined, were irlistable, and carried off every thing before them; ules, walls, trees, and not lefs than four thound sheep and other cattle. At Somma, a team eight oxen, which were drawing a large timber ee were at once carried off. and never were heard more.

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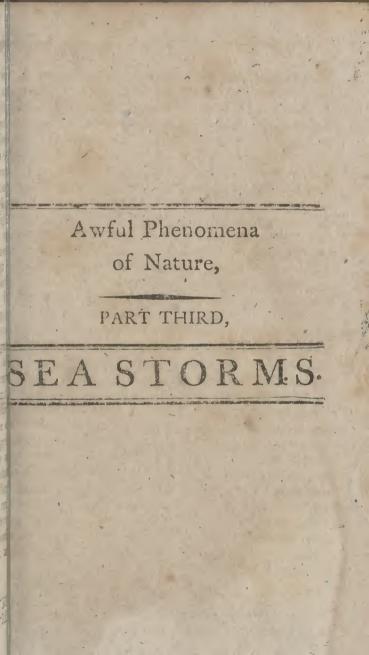
The appearance of these torrents was like that all other torrents in mountainous countries, expt that what had been mud was become a perfect ment, on which nothing less than a pickaxe could ake any impression. The vineyards and cultivated nds were here much more ruined; and the limbs the trees much more torn by the weight of the hes, then those which have been already describon the sea 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 glutinous quality of these affi-, when he fays, that having taken a branch from fig-tree fill flanding near the town of Somma, on hich were only fix leaves, and two little unripe figs, id having weighed it with the affres attached to it, found it to be thirty-one ounces; when having wesheil off the volcanic matter, it foarcely weight three.

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In the town of Somma, our author found for churches and about feventy houses without roofs, at full of aftres. The great damage on that fide of the mountain, by the fail of the affres and the torrent happened on the 18th, 19thill, and 20th of Jun. and on the 12th of July. The 10th, the afhes fe to thick at Somma, that unless a perion kept in me tion, he was foon fixed to the ground by them This fall of alles was accompanied allo with Join reports, and frequent flashes of the volcanic light ning, fo that, irrounded by io many horrors, it wa impossible for the inhabitants to remain in the town and they all fled; the darkness was such, although was mid-day, that even with the help of torches was fcarcely poffible to keep in the high road. O the 16th of July, fignor Guifeppe Sacco went up a the crater, and, according to his account, which he been printed at Naples, the crater is of an irregula oval form, and as the fuppofes (not having been abl to measure it) of about a mile and a half in circum ference; the infide, as usual, in the fbape of an in verted cone, the inner walls of which on the eafter fide are perpendicular; but on the weltern fide c the crater, which is much lower, the defcent was praticable, and Sacco with fome of his companions as tually went down one hundred and feventy-fix palm from which fpot, having lowered a cord with a fton tied, to it, they found the whole depth of the crate to be about five hundred palms. But fuch obferva tions on the crater of Vefuvius are of little coufe quence, as both its form and apparent depth ar fubject to great alterations from day 10 day.

Greg. Econ. of Nature, Vol. 2nd page 331.-332 335.-352







MELANCHOLY CONSEQUENCES

OF I WO

Sea Storms, &c.

account of the Shipwreck of a Portuguele Snow. on her paffage from Goa to Madras—in the year 1782, related by one of the Sufferers.

T was now the eightenth of May when we failed from Goa. The hemifphere had been fome days overcaft with clouds: fome light owers of rain had fallen; and it certainly did not d to raife my fpirits, and free me from my omios apprehentions, to hear that those circumstances licated an approaching gale of wind. I observed, reover, that the veffel was much too deep in the ter, being greatly overloaded—that she was in ny respects defective, and, as the seamen fay, illnd, and in short very unfit to encounter a gale wind of any violence. I scorned, however, to vield to those united impressions, and determine to proceed?

"On the ninetcenth, the fky was obleared immenfe fleeces of clouds, furcharged with infla mable matter; and is the evening, the rain in torrents, the firmament darkened apace, fude night came on, and the horrors of extreme darkuwere rendered fill more horrible be the peals thunder which rent the air, and the frequent fla es of lightning, which ferved only to thew horror of our fituation, and leave us in increadarknefst mean time the wind became more viole blowing on the fhore; and a heavy fea, r. ited its force, united with it to make our flate more f midable.

" By day light on the morning of the twentil the gale had increased to a furious tempeft; and J. fea, keeping pace with it, ran mountain high; 12 it kept invariably to the fame point, the cap and officers became ferioufly alarmed, and alt perfuaded that the' fouth-weft monfoon had fet which, if it were fo, would render it abfolute impoffible for us to weather the coaft. All day, however, we kept as clofe as the violencing the weather would allow us to the wind; but as sea canted her head to to leeward, that the n more lee than head-way; and the rigging was the firained with the work, that we had little horion keeping off the fhore, unlets the wind changees which there was not now the imalleft probable During the night there was no intermiffion off itorm: many of the fails blew into ribbonds; 1 of the rigging was carried away, and fuch e tions were made, that, before morning, every that could poffibly be firuck was down upor 5 deck.

"About feven o'clock on the morning of

venty fir ?, I was alarmed by an unufual notic pon the deck, and running up, perceived that very remaining fail in the vefici, the fore fail one excepted, was totally carried away. The fight as horrible, and the whole vefiel prefented a rectacle as dreadful to the feelings as mortifying to uman pride. Fear had produced, not only all the sipleffaels of despondency, but all the mischievous eaks of infanity. In one place flood the Captain, ving, flamping; and tearing his hair in handfuls om his head-here, fome of the crew were caft von their knets, clasping their hands, and prayig, with all the extravagance of horror painted in heir faces-there, others were flogging their imaes with all their might, calling upon them to allay re ftorm. One of our passengers, who was purser f an Egglifh East Indiaman, had got hold of a cafeottle of rum, and with an air of distraction and cep dispair imprinted in his face, was stalking aout in his fairt. I perceived him to be on the bint of ferving it about, in large tumblers, to the w undifmayed people; and well convinced, that, far from alleviating, it would thatpen the horrors If their mind; I went forward, and with much diculty prevented him?

"Having accomplified this point, I applied myif to the ceptain, and endeavoured to bring him a k (if pefficie) to his recoilection, and to a fenfe f what be owed to his duty as a commander, and b his dignity as a maze: I exhorted him to enconage the failors by his example; and throve to raite is fpirits, by faying that the florm did not appear b me by any means fo terrible as fome I had before experienced.

"While I was thus employed, we shipped a fea n the flarboard fide, which I really thought would ave fent us down. The vessel feemed to fink beneath its weight, inivered, and remained motic lefs—it was a moment of critical suspenses fan made me think I felt her gradually defeen ing—I gave myfelf up as gone, and summened my fortitude to bear approaching death with t coming manhood.

"Juit at this crifis, the water, which ruftwith incredible force though all parts of the veffbrought out floating, and nearly fuffocated, ar ther English paffenger, who was endeavouring take a little repose in a finall cabin boarded off frethe deck: he was a very flout young man, and i of true fpirit. Finding that the veffel was not, a had thought, going immediately down, he join me in exhorting the captain to bis duty: we pfuaded him to throw the guns overboard, as well a number of trunks and packages with which t veffel was much encumbered; and with fome lit exertion, we got the pumps fet a going."

The name of the Englith paffenger juit mentic ed was Hall. He was a young man of a moft an able difpofition, and with it poffeffed all that mar fpirit that gives prefence of mind in exigences danger. He and Capt. Campbell having; wi great difficulty, got fome hands to flick to t pumps, flood at the wheel, at once to affift't men, and prevent them from quitting it: and though hopelefs, determined that no effort praccable on their parts flould be wanting to the pifervation of the veffel. The water, however, galed upon the pumps, not althfunding every effoand it evidently appeared that they could not ke her long above water.

At ten o'clock the wind feemed to increase, a: amounted to a downright hurricane: the fky w fo entirely obfeured with black clouds, and the ra fell fo thick, that objects were not differrable rom the wheel to the fhip's head. Soon the pumpe vere choaked, and could no longer be worked: hen difmay feized on all—nothing but unutterable lefpair, filent anguith, 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 extinguish their calamities by embracing leath, than willing, by a painful exertion, to woid it.

At about eleven o'clock they could plainly difinguish a dreadful roaring noife, refembling that of waves rolling against rocks; but the darkness of the day, and the accompanying rains, prevented hem from seeing any distance; and it it were a rock, they might be actually dashed to pieces on it before they could perceive it. At twelve o'clock, however, the weather cleared up a little, and both the wind and the sea feemed to have abated: the very expansion of the prospect round the ship was exhibiting; and as the weather grew better, and the fea less furious, the fenses of the people returned, and the general stupefaction began to decrease.

The weather continuing to clear up, they in fome time difference breakers and large rocks without fide of them: fo that it appeared they must have paffed quite clofe to them, and were now fairly hemmed in between them and the land.

"In this very critical juncture," fays our traveller, "the captain, entirely contrary to my opinion, adopted the dangerous refolution of letting go an anchor, to bring her up with her head to the fea: but, though no feaman, my common fenfe told me that the could never ride it out, but muft directly go down. File event nearly juffified my judgment; for the had fearcely been at an nor betore an enormous fearoling over her, overwhelmed and filled her with water, and every one on beaconcluded that the was certainly finking. On t inftant, a Lafcar, with a prefence of mind worth an old English mariner, took an axe, ran forwar and cut the cable."

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On finding herfelf free, the veffel again floater and made an effort to right herfelf; but the was most completely water-logged, and heeled to la board for much, that the gunnel lay under water They then endeavoured to theer as fast as they coufor the last, which they knew could not be at an great diffance, though they were unable to diffeovit through the hazy weather: the fore-fail was locened; by great efforts in bailing, the righted little, her gunnel was got above water, and the foudded as well as they could before the winwhich ftill blew hard on fhore; and about two o'clock the land appeared at a final diffance 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 then which they had reaion to believe was part of Hyde Alli's dominions, where they fhould meet with th most rigorous treatment, if not ultimate death, was forgotten in the joyful hope of faving life, and the foudded towards the fhore in all the exulting tranports of a people just fratched from the jaws c death.

This gleam of happinels, however, continuenot long: a tremendous fea rolling after them broke over their fiern, tore every thing before it flove in the fteerage, carried away the rudder, fhi vered the wheel to pieces, and tore up the very ring-bolts of the deck—conveyed the men who flood at the wheel forward, and fwept them overboard Captain C.mpbell was flanding, at the time, near te wheel, and fortunately had hold of the taffarel, hich enabled him to refift in part the weight of he wave. he was, however, fwept off his feet, id dafhed against the main-mast. The jerk from he taffarel, which he held very tenaciously, feenl as if it would have deflocated his arms: it broke, owever the impetus of his motion, and in all proability faved him from being dashed to pieces amainst the mast.

"I floundered about," fays he, "in the water the foot of the maß, till at length I got on my et, and feized a rope, which I field in a flate-of reat enbarefiment, dubious what I should do to xtricate myself. At this inflant I perceived that Ir, Hall had got upon the capitern, and was wayng his hand to me to follow his example: this I vifhed to do, though it was an enterprife of fome ifk and difficulty; for, if I loft the hold I had, a lagle motion of the veffel, or a fail wave, would ertainly carry me overboard. I made a bold pufh, nowever, and foitunately accomplified it. Have-ng attained this flation, 1 could the better furvey he wreck, and faw that the water was nearly breakhigh on the quarter deck (for the veffel was deepwaisted); and I perceived the unfortunate English : burfer ftanding where the water was most shallow. is if watching with patient expectation its rifing, ind awaiting death: I called to him to come to us, out he shook his head in dispair, and laid, in a lamentable tone, "It is all over with us! God have mercy upon us!"-then fezted himfelf with feeming composure on a chair which happened to be rolling about in the wreck of the deck, and in a few minutes afterwards was walked into the fea along with it, where he was speedily released from a flate ten thousand times worse than death.

" During this univerfal wreck of things, the hor-

rer l was in could not prevent me from obfervit a very curious cincumfrance, which at any other time would have excited laughter, though now produced no other emotion than inspire. We have pened to be in part laden with mangoes, of which the ifland of Goa is known to produce the finef. the world, fome of them lay in baskets on the post a little black boy, in the moment of greates the ger, had got feated by them, devouring them vociously, and crying all the time most bitterly at the horrors of his fituation!

"The veffel now got completely water-logg and Mr. Hall and I were employed in forming cojectural calculations how many minutes the coukeep above water, and confoling one another on r unfortunate circumfrances under which we neet lamenting that fate had thus brought us acquaint only to make us withefies of each other's miler and then to fee one another no more.

"As the larboard fide of the veffel was gradua going down, the deck, and of couries the capiter became too nearly perpendicular for us to contin on it: we therefore forfaw the neceffity of quittin it, and got upon the ftarboard fide, holding faft if the gunnel, and allowing our bodies and legs yield to the fea as it broke over us. Thus we cotinued for fome time: at length the feverity of the labour for entirely exhausted our ftrength and fpirit that our best hope feemed to be a speedy conclusive to our painful death; and we began to have ferior intentions of leting go our hold, and yielding ou felves up at once to the fury of the waves.

"The vertel, which all this time drifted with the fea and wind, gradually approximated the fhor c and at length firuck the ground, which for an in frant revived our almost departed hopes; but w foon found that it did not in the finalleft degree better our fituation. Again I began to yield to utter defpair-again I thought of letting go my hold, and finking at once: it is impossible, thought I, even to effere-why, then, prolong, for a few unnutes, a painful-excitance that muit at last be given

up? Yet, yet, the all-fubduing love of life fuggetied, that many things apparently impossible had come to pass; and I faid to invite if, It-life is to be loft, why not lofe it in a glorious struggle? Spould I furvive it by accident, life will be rendered doubly fweet to me, and I ftill more worthy of it by perfeve-ing fortitude.

"While I was employed in this train of reflection, I perceived fome of the people collecting together, talking, and ho ding a confultation: it immediately occurred to me, that they were deviling fome plan for eff aping from the wreak, and getting on there: and, to natural is it for man to cling to his fellow creature for fupport in difficult or dangerous exigences, that I propoled to a r. Hall to join them, and take a fhare in the execution of the plan —obferving to him at the fame time, that I was determined at all events to quit the velicit, and truft to the protection and guidance of a fuperintending; Providence for the reft.

"As prodigality of life is, in fome cafes, the excefs of virtue and courage-ito there are others in which it is vice, meannels and cowardice. Frue courage is, according to the circumfrances under which it is to operate, as rigidly tenacious and virilant of life in one cafe, as it is indifferent and regardlefs in another; and I think it is a very ftrange contradiction in the human heart (although it often happens), that a man who has the moit unbounded courage, feeking death even in the canon's mouth, (hall yet want the neceffary refolution to make exertions to fave his life in cafes of ordinary) danger. The unfortunate Englift purfer could a collect courage fufficient to make an effort to fa himfelt; and yet I think it probable that he wou have faced a battery of artillery, or "exposed hi felf to a piftol fhot, if occasion required, as foon any other man. Thus it appears at first view: he may not this feeming incongruity be explained faying, that perfonal contage and fortitude are d ferent qualities of the mind and body, and depenupon the exercise of entirely different functions?

"Be that as it may, I argued with myfelf, in the height of my calamitous fituation, upon the fubje of forthude and dejection, courage and cowardic and, not vithit and ing the ferious affect of affair found myfelf liftening to the fugoellions of prid what a paltry thing to yield, while thrength is le to ftruggle! Vanity herfait had her hint, and whi pered, "Should I efcape by an effort of my own what a giorious theme of exultation!" There were I confefs, transitory images in my mind, which co operating with the natural attachment to felf pretervation, made me perfevere, and refolve to do for while one veftige of hope was left for the mind to dwell on:

"Observing as I said before, the people confulting together, and refolving to join them, I made an effort to get to the lee throads, where they were flanding, or rather clinging; but before I could ac complith it, I loft my hold, fell down the hatchway (the gratings having been carried away with the long boat), and was for fome minutes entangled there among a heap of packages, which the violent fluctuations of the water had collected on the lees fide. As the veffel moved with the fea, and the water flowed in, the packages and I were rolled together—fometimes one, fometimes another uppermoft; fo that I began to be apprehenfive I famild not be able to extricate myfelf: by the mereft accident, however, 1 grafped fomething that hay in my way, made a vigorous fpring, and gained the lee fhrouds. Mr. Hall who followed me, in leizing the fhrouds, was driven against me with fuch violence, that 1 could fearcely retain my hold of the rigging.

" Compelled by the perilous fituation in which I flood, I called out to him for God's fake to keep off, for that I was rendered quite breathiels and worn out: he generously endeavoured to make way for me, and, in so doing, unfortunately loft his hold, and went down under the thip's fide. Never, never (hall | forget my fenfations, at this melancho-. iy incident-I would have given millions of worlds that could have recalled the words which made him move; ny mind was wound up to the last pitch of manguilh: I may truly fay, that this was the most bitter of all the bitter moments of my life, compared with which the other circumftances of the fhipwreck feemed leffened-for I had infenfibly acquir. ed an unfual effeem and warm attachment for him, and was doubtful whether, after being even the innocent of calion of his falling, I ought to take further pains to preferve my own life. All those fenfations were paffing with the rapidity of lightning through iny thoughts, when, as much to my aftonishment as to my joy, I faw him borne by a returning wave, and thrown among the very packa-ges from which I had but just before, with fuch las bour and difficulty; extricated myfelf. In the end he proved equally fortunate, but, after a much longer and harder firuggle, and after futtaining much more injury.

"I once more changed my flation, and made my way to the poop, where I found mylelf rather more fheltered—I carnefily wifhed Mr. Hall to be with me, whatever might be my ultimate fateant beckoned him to come near me; but he on ant beckoned him to come near me; but he on an ered by (haking his head, in a feeble, defponing manner—itaring at the fame time wildly abo him: even his fpirit was fubdued; and defpair, perceived, had begun to take poffelfion of his min

" Being a little more at eafe in my new ftatic than I had been before, I had more time to delib rate, and more power to judge. I recollected, the according to the courfe of time, the day was 'f gove and the night quickly approaching; I reflect ed, that for any enterprize whatever day was muc preferable to night; and above all I confidered, th the yeffel could not hold long together-' therefor thought, that the best mode I could adopt would be, to take to the water with the first buoyant this I could fee; and, as the wind and water both feems to run to the fhore, to take my chance in that w: of reaching it. In purfuance of this refolution, tore off my fhirt, having before that thrown of il other parts of my drefs-I looked at my fleeve bul tons, in which was fet the bair of my departed ch dren-and, by an involuntary act of the imagin tion, alked myfe.f the queftion, " Shall'I be happ enough to meet them where I am now about go?-Shall those dear last remains, too, become prey to the devouring deep?"-In that inftant, re ion, suspended by the horrors of the fcene, gain way to inftinct. and I rolled any fhirt up, and ver carefully thrust it into a hole between decks, will the wild hopes that the fleeve buttons might y escape untouched. Watching my opportunity, faw a log of wood floating near the veffel, and waving my hand to Mr. Hall as a last adieu, jum te. ed after it. Here, again, 1 was idoomed to aggree vated hardships_I had fearcely touched the le when a great fea fnatched it from my hold: ftill it came near me. I grafped at it ine f-stually, till at laft it was completely carried away, but not before it had cut and battered and bruifed me in leveral places, and in a manner that at any other time I fhould have thought dreadful.

" Death feened inevitable; and all that occurred to me now to do, was to accelerate it, and get out of its pangs as speedily as possible; for, though I knew how to fwim; the tremendous furf rendered fwimming ufclefs, and all hope from it would have been ridiculous. I therefore began to fwallow as much water as poffible; yet, ftill rifing by the buo, ant principle of the waves to the furface, my former thoughts began to recur; and whether it was that, or natural inftince, which furvived the temporary impressions of despair, I know not; but Lendeavoured to fwim, which I had not done long, when I again difcovered the log of wood I had loft floating near me, and with fome difficulty caught it: hardly had it been an inftant in my hands, when, by the fame unlucky attans I loft it again. I had often heard it faid in Scotland, that if a man will throw himfelf flat on his back in the water, lie quite ftraight and ftiff, and fuffer himfelf to link till the water gets into his ears, he will continue to float fo for ever: this occurred to me now; and I determined to try the experiment; to I threw myfelf on my back in the manner I have defcribed, and left myfelf to the disposal of Providence; nor was it long before I found the truth of the faying-for I floated with hardig an effort, and began for the first time to conceive fomething like hopes of prefervation,

"After lying in this manner, committed to the difference of the tides, I foon faw the veffel-faw that it was at a confiderable diffance behind me. Livelieft hope began to play about my heart, and joy fluttered with a thousand gay fancies in my mind; I began to form the favourable conclusion. that the tide was carrying me rapidly to fand from the v fel, and that I fhould foon once more tonch terna firma.

" This expectation was a cordial that revived m exhaufted lpitits: I took courage, and left myfel fill to the fame all-directing Power that had h therto preferved me, fcarcely doubting that I thoulfoon reach the land. Nor was I miftakin; f.r., i. a fhort time more, without effort or exertion, and without once turning from off my back, I found myself firike against the fandy beach. Overjoyer to the highest pitch of transport at my providential deliverance, I made a convultive fpring, and ran up a little distance on the shore; but was so weat and worn down by fatigue, and to unable to clea my flomach of the fait water with which it wa loaded, that I fuddenly grew deadly fick, and ap prehended that I had only exchanged one death for another; and in a minute or two fainted away."

Campbell's overland Journey to India, Page 15-175.

Narrative of the Loss of the Halfowel' East Indiaman. on the coult of Dorfeftsbire, January 1786.

HE Halfewell Eaft-indiamen, of 758 tons burthen, commanded by Richard Pierce Efer failed through the Downs on Sunday the ift of January, 1786, and the next morning being a break of Dunnofe, it fell calm.

Monday the '2d of January. at three in the afternoon, a breeze forung up from the South, when they ran In fhore to land the pilot, but very thick weather coming on in the evening, and the wind baffling, at mine in the evening they were obliged to anchor in eighteen fathom water, furled their topfails, but could not furl their courfes, the fnow falling thick, and freezing as it fell.

Tuelday the 3d, at four in the morning, a lrong gale came on from Eaft-Nore-Eaft, and the hip driving, they were obliged to cut their cables, nd run off to fea. At noon, they fpoke with a brig bound to Dublin, and having put their pilot on board her, bore down Channel immediately. At ight in the evening, the wind freshening and comng to the Southward, they reefed fuch fails as were udged neceffary. At ten at night it blew a violent ale of wind at South, and they were obliged to arry a prefs of fail to keep the thip off thore, in loing which the hawfe plugs, which according to a new improvement were put infide, were walhed in, and the hawfe bags washed away, in confequence of which they shipped a large quantity of water on the gun deck

On founding the well, and finding the fhip had fprung a leak, and had five feet water in her hold, they clued the main top fail up, hauled up the mainfail, and immediately endeavoured to furl both, but could not effect it—All the pumps were fet to work on difcovering the leak.

Wednefday the sth, at two in the morning, they endeavonred to wear the fhip, but without inceefs, and judging it neceffary to cut away the mizeamaft it was immediately done, and a fecond attempt made to wear the fhip, which faceceded no better than the former; and the fhip having now feven feet water in her hold, and gaining fast on the pumps, it was thought expedient. for the prefervation of the fhip, to cut away the mainmast, the fhip appearing to be in immediate danger of foundering.

At ten in the morning the wind abated confiderably, and the thip labouring extremely, rolled the fore top-maft over on the larboard fide, in the fall, the wreck went through the fore-fail, and tore it to pieces. At eleven in the forenoon, the wind call to the Weft-ward, and the weather clearing up, the Berry-head was diffinguithable bearing North a by Eaft, diffant four or five leagues; they no immediately bent another fore fail, erected a jumain-maft, and fet a top-gallant fail for a maffa fail, under which fail they bore up for Portfmouteand employed the remainder of the day in gettillup a jury mizen-maft.

About two in the morning on Friday the of the thip ftill driving, and approaching very fait, the fhore, Mr. Henry Meriton, went into the cudy, where the Captain then was, and a coverfation took place, Captain Pierce exprefing etreme anxiety for the prefervation of his below daughters, and carneftly afking the officer if 1 could devife any means of faving them, and on h anfwering with great concern that he feared it woube impoffible, but that their only chapter would to wait for the morning, the Captain Efted up th hands in filent and diffrefsful ejaculation.

At this dreadful moment the fhip ftruck with fuch violence as to daft the beads of these with were ftanding in the cuddy, against the deck above them, and the fatal blow was accompanied by fhrick of horror, which burst at one inftant from very quarter of the fhip.

Mr. Meriton, the officer, whom we have alread mentioned, at this crifis of horror, offered to the defpending crew, the beft advice which could pofibly be given to them; he recommended their coning all to that fide of the fhip which lay loweft a the rocks, and fingly to take the opportunities which might then offer of efcaping to the (hore. An having thus provided to the utmoit of his power for their fafety, he returned to the round-houf where by this time all the paffingers, and most c

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he officers were affembled, the latter employed in ffering confolation to the unfortunate ladies, and with unparalleled magnanimity, fuffering their compation for the fair and amiable companions of their misfortunes, to get the better of the fenfe of their byn danger, and the dread of almost inevitable anbihiliation. at this moment, what must be the feelngs of a Father—of fuch a Father as Captain Piercel

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The thip firuck on the rocks at or near Seacombe, on the illand of Purbeck, between Peverel-Point, and St. Alban's head, at a part of the thore where the cluff is of a vait height, and rifes almost perpendicular from its base.

But at this particular (pot the cliff is excavated at the foot, and prefents a cavera of ten or twelve varids in depth, and of breadth equal to the length of a large fhip, the fides of the cavera fo nearly upright as to be extremely difficult of accefs, the roof formed of the flupendous cliff, and the bottom of it frewed with fluep and uneven rocks, which feem to have been rent from above by fome convultion of Nature.

It was at the mouth of this cavern that the unfortunate wreck by Bretched almost from fide to fide of it, and efforting her broadfide to the horrid chafm.

But at the time the fhip Arack it was too dark to diffeover the extent of their danger, and the extreme horror of their fituation; even Mr. Meston himfelf conceived a hope that the might keep together till day light, and endeavoured to chear his drooping friends, and in particular the unhappy ladies, with this comfortable expectation, as an anfiver to the Captain's enquiries, how they went on, or what he thought of their fituation.

In addition to the company already in the round-

houfe, they had admitted three black women, a two foldiers wives, who with the hufband of one them had been permitted to come in, though the feamen who had tumultuoufly demanded entrance to get the lights, had been oppofed, and kept of by Mr. Rogers, the third Mate, and Mr. Brimer to fifth, fo that the numbers there were now increase to near fifty; Captain Pier e litting on a chair, co or fome other moveable, with adaughter on each of him, each of whom he alternately preffed to his fectionate bofom; the reft of the melancholy affeming were feated on the dock, which was firewed with mufical infiruments, and the wreck of furnitual trunks, boxes and pakages.

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And here also Mr. Meriton, having previous ent feveral wax candles into pieces, and fluck the up in various parts of the round house, and lighte up all the glass lanthorns he could find, took he feat, intending to wait the happy dawn, that migh prefect to him the means of effecting his own e cape, and afford him an oppertunity of giving a finance to the partners of his danger; but observing that the poor ladies appeared parched and exhaut ed, he fetched a basket of oranges from fome par of the round house, and preveited on fome of ther to refresh themselves by fucking a little of the jujic At this time they were all telerably composed, except Wills Manfel, who was in hysteric fits on the floor deck of the round-house.

But on his return to the company, he perceive a confiderable alteration in the appearance of the thip, the fides were vilibly giving way, the dec feemed to be lifting, and be differend other firon fymptones that the could not hold together muslonger, he therefore attempted to go forward to look out, but immediately inwithat the fhip was for parated in the middle, and that the fore part ha hanged its polition, and lay rather farther out tosards the fea; and in this emergency, when the hext moment might be charged with his fate, he letermined to teize the prefent, and follow the exmple of the crew, and the foldiers, who were now quitting the fhip in numbers, and making their way to a fhore, of which they knew not yet the formers.

Mr. Meriton difcovered a fpar, which appeared to be laid from the fhip's fide to the rocks, and on this fpar he determined to attempt his elcape.

He accordingly kid him down on it, and thruft. Limfelf forward, but he foon found the Tpar had no communication with the rock, he reached the end of it, and then flipped off, receiving a very violent bruife in his fall, and before he could recover his legs, he was wafted off by the furge, in which he imported himfelf by fwimming, till the returning wave dafted him againft the back part of the cavern, where he hold of a imall projecting piece of the rock, but was fo benumbed, that he was on the point of quitting it, when a feaman who had already gained a footing, extended his hand, and affiked him till he could fecure himfelf on a little fielf of the rock, from which he clambered fill higher, till he was out of the reach of the furf.

Mr. Rogers the third mate, remained with the Captain, and the unfortunate ladies, and their companions, near 20 minutes after Mr. Meriton had quitted the fhip.

At this time the fea was breaking in at the fore part of the ship, and reached as far as the mainmass, and Captain Pierce gave Mr Rogers a nod, and they took a samp, and went together into the shern gallery, and after viewing the rocks for some time, Captain Pierce asked Mr. Rogers, if he thought there was any possibility of faving the girls, to which he replied, he feared there was not, fithey could only different the black face of the perpendicular rock, and not the cavern which afford ed fhelter to thefe who efcaped; they then return ed to the round-houfe, and Mr. Rogers hung u the lamp, and Captain Pierce, with his great coaon, iai down between his two daughters, and firuggled to fupprefs the parental tear which then bury into his eye.

The fea continuing to break in very faft, Mr. N"Manus, a midfhipman, and Mr. Schutz, a paffen ger, afked Mr. Rogers what they could do to efcape who replied, "follow me." and they then all weninto the ftern gallery, and from thence by the weather upper quarter gallery upon the poop, and whilf they were there a very heavy fea fell on board and the round-houfe gave way, and he heard the ladies fhriek at intervals, as if the water had reached them, the noife of the fea at other times drowning their voices.

Mr. Brimer had followed Mr. Rogers to the poop, where they had remained together about five minutes, when on the coming on of the last mentioned fea, they jointly feized a hen-coop, and the fame wave which he apprehended proved fatal to fome of those who remained below, happily carried him and his companion to the rock, on which they were dashed with fuch violence as to be miserably bruised and hurt.

Mr. Rogers and Mr. Brimer both however reached the cavern, and fcrambled up the rock; on nar, row fhelves of which they fixed themfelves, Mr. Rogers got fo near to his friend Mr. Meriton as to cx-change congratulations with him, but he was prevented from joining him by at leaft 20 men who were between them, neither of whom could move without immediate peril of his life,

They now found that a very confiderable number the crew, feamen, foldiers, and fome petty ofbers were in the fame fituation with themfelves, ough many who had reached the rocks below, had wifhed, in attempting to afcend; what that fituaon was they were ftill to learn; at prefent they had caped immediate death, but they were yet to enunter cold, nakednefs, wind, rain, and the pertual beating of the fpray of the fea, for a difficult, tecarious, and doubtful chance of efcape.

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In a very few minutes after Mir. Rogers had gainl the rock, an univerfal fhriek, which ftill vibrates their ears, and, in which, the voice of female firefs was lamentably diffinguithable, announced te creadful cataftrophe; in a few moments all was affhed, except the warring winds, and beating waves; te wreck was buried in the remorfelefs deep, and ot an atom of her was ever after difcoverable. Thus perified the Halfewell.

What an aggravation of woe was this dreadful, his tremendous blow, to the yet trembling, and arcely half faved wretches, who were hanging aout 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 alarmed by se guns of diffrefs which they had continued to re for many hours before the fhip firuck, but hich from the violence of the florm were unbeard, ney could neither be obferved by the people from bove, as they were completely ingulphed in the carern, and over hung by the cliff, nor did any part f the wreck remain to point out their probable place f refuge; below, no boat could live to fearch them ut, and had it been poffible to have acquainted nofe who would wifh to affift them, with their exact uation, no ropes could be conveyed into the cavi-; to facilitate their efcape. The only prospect which offered, was to creep long the fide of the cavern, to its outward extrem ty, and on a ledge fearcely as broad as a man's han to turn the corner, and endeavour to clamber the almost perpendicular precipice, whole fumn was near two hundred fast from the bafe.

And in this defperate effort did fome fuccee whilft others, trembling with terror, and the firength exhaufted by mental and bodily fatiguloft their precarious footing, and perifned in the a tempt.

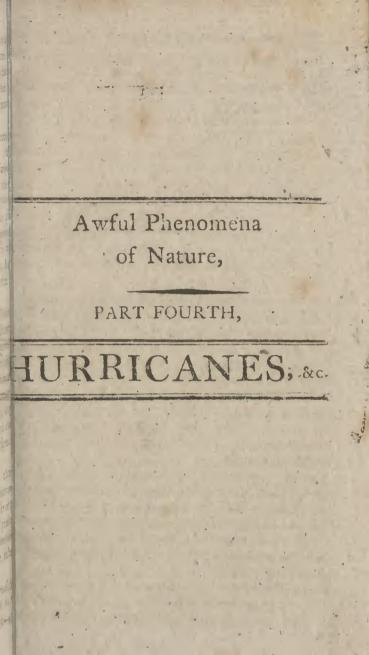
The first men who gained the fummit of the cliwere the Cook, and James Thompson, a Quarter master, by their own exertions they made their we to the land, and the moment they reached it, he tened to the nearest house, and made known the tuation of their fellow fufferers

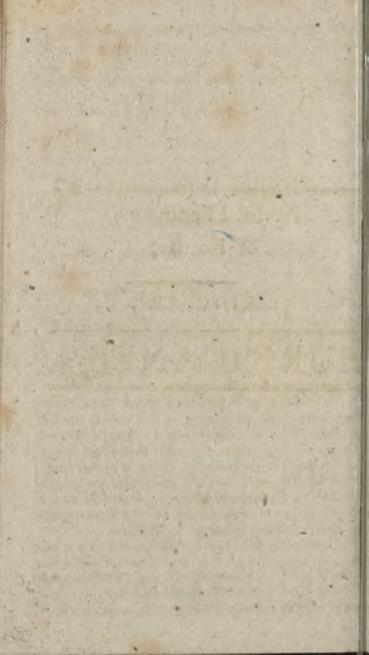
The houfe at which they first arrived was Eastin ton the prefent habitation of Mr. Garland, stewa or agent to the proprietors of the Purbeck Quarriwho immediately got together the workmen und his direction, and with the most zealous and animate humanity, exerted every effort for the prefervation of the furviving crew of this unfortunate ship; ropwere produced with all possible dispatch, and ever predevition taken that assistance should be speed and effectually given.

As the day advanced, more affifance was obtained; and as the life-preferving efforts of the furviver would admit; they crawled to the extremities of t cavern, and prefented themfelves to their prefer ers above, who flood prepared with the means whi the fituation would permit them to exercise, to here them to the fummit.

Circumstantial Narrative of the loss of the Hallewell, &

Compiled from the communications of the t chief Officers, who escaped, Page 19-47







AN ACCOUNT

OFA

Dreadful Hurricane, &c.

Hurricane in Jamaica, October, 1780.

A more general defruction in the extent of a given prop. rtion of land, hath rarely happened; and the hurricane of 1780, will be ever acknowledged as a vifitation that defcends but once in a century, and that ferves as a fcourge to correct the varity, to humble the pride, and to chaftife the imprudence and arrogan e of men.

The following defcription, which immediately and naturally arole from the melancholy fulject; when the facts were fresh, and the ruins, as it were, before my eyes, will not, I trust, be deemed foreign to the general tendency of these remarks; and I shall be, I hope, excused, if I endeavour to awaken the recollection of calamities past, particularly as in those calamities the poor negroes had likewise their portion of disappointment and affliction.

This deftructive hurricane began by gentle and almost unperceptible degrees, between rwelve and one o'clock, on the morn of the 3d of Octobir, and in the year 1780. There fell, at first, a trifling rain, which continued, without increase, watsil ten c'lock; about which time the wind arofe, and the fea began to roar in a most tremendous and uncommon manner. As yet, we had not any pre-fentiment of the diffiels and danger which it was foor afterwards our unhappy fortune to encounter: and although between two and three o'clock in the afternoon, we faw the fubordinat buildings begin to totter and fall around us; yet we did not think i meceffary to provide, at that time, for our prefenor future fafety. We now oblerved, with foma motion and concern, a 1 wor, pigeon endeavour with fruitles firuggle, to regain its neft: it flut tered long in the air; and was fo weakened at laft that it was driven away by the wind, and in almost a moment was carried entirely out of fight.

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As great events are sometimes the confequence of small beginnings, and as simple occurences are often as striking as great concerns, I could not help dwelling with commiferation upon what I had seen and of anticipating, in some measure, the loss and inconvenience, though not the real destruction, o what soon afterwards ensued.

A poor difcouraged ewe, intimic and by the terrors of the night, had found its way into the diftant quarter of the houfe, which, at the time of her retreat, muft have been wholly neglected; buto which it was afterwards, as cur left refort, on unfortunate definy to repair. She lay with patien cold, and fearful trembling, an left the joifts, nocould five be dil laced by the importunity of kick and cuffs that were inceffently dealt around her She became a pathetic inferer in the fucceeding cal'amity; and he muft have been a brute, indeed and more deferving of the appellation fhe bare, who could have perfevered in forcing her from fuch teening protection, or could have been envious o that inferty, which; from her unwillingnefs to renove, it was natural to think that fire at that time injoyed. I must confess, that I tried to dispetifies her, but I tried in vain; and I have fince reflected, hat her prefervation was as dear to her as mine vas to me: and I feel a real comfort in repeating hose exquisitely humane and tender lines of Ovid, which are to feelingly descriptive of the fate of this most ufeful and patient animal.

Every thing claims a kindred in misfortune; it evels like death; but death, alas! to fome comes oo late; and to others it comes, too early. In a hort time, perhaps, it was the fate of the poorneek creature boye difcribed, to feel its firoke. I might have cauled, unknowingly, its execution; and might have feafted upon its fleih. The very idea chills my blood, and brings to my mind the remembrance of the dreadful fituation of Pierce Viaud.

An act of dire neceffity may be certainly exculed; but to definey (for the gratification of an appetite which we have in common with brutes) that which has been used to live in a domestic and in a cheristied thate around us, would argue an infentibility, from which every feeling mind much naturally sevolt: and 1 should hope, that there are but first people who could eat of that thid, which they had ieen lick the butcher's hand at the very moment that the knife was about to deprive its innocence of existence; and when it supplicated, with an almost human, cry, its preservation of life, and with a blandishment for particularly expressive of tendernefs and pity.

From the morning until four o'clock in the afternoon, the wind continued to blow with increafing violence from the north and east: but from that time, having collected all its powers of devaftation, it rulhed with irrestitable violence from the

fouth; and in about an hour and half after that period, to general and partievering were its accumu-Bated effects, that it fearcely left a plantain tree, a cane, or building, uninjured in the parith. At about four c'clock, we found it, in possible to fecure Ane house against the increasing impetuolity of the wind, which began to displace the flingles, uplift the roof, to force the windows, and to gain an entrance on every lide: and its hafty deftruction but too fully proved how teon, and how univertally, it facceeded! We were now driven from the appartments above, to take fliciter in the rooms below: but there we were followed by fresh daugers, and fulplified by fresh glarms. The demon of definerin was wafred in the winds, and not a corner could escape its mationant devastation. While we were looking with apprehention and terror around us, the roof, ratters, plates, and walls of fix apartr outs tell in, and immediately above our heads: and the herrid crashes of glass, furniture, and floors, occasioned a noife and aproar, that may be more eafily felt, than the weaknefs of my pen can poffiply deferibe.

(6)

I will not attempt (indeed my abilities and language are uniqual to the taik) to awaken the fenfibility of others, by dwelling upon private misfortunes, when the loffs of many are entitled to fuperior regard: but egotifm may be furely allowed in a narrative of this kind, where general comparitions mult in fome measure deteribe individual fufforings, and where what one has felt, has been the lit of *numbers*: and where a perion has indenticalliffeen, and been involved in the fame definution, it is cufficult to keep clear of expressions that do not inamediately apply to, and fpeak the language of, felt.

The fluation of the unhappy negroes who pour-

d in upon us fo foon as their houses were deftioyd, and whole terrors feemed to have deprived hem of fenfe and motion, not only very particu. arly augmented the confusion of the time, but very onfiderably added, by their whispers and diffres, o the scene of general sulpense, and the sluctuations of hope and alarm. Some lamented by anticihation, the lo's of their wives and children, of which their fears had deprived them; while others egretted the downfall of their houfes, of which hey had folately been the unfortunate spectators. It will be difficult to conceive a fituation more errible than what my house afforded from four a; morning. Driven, as we were, from room to oom, while the roofs, the floors, and the walls, were umbling over head, or falling around us; the wind blowing with a noife and violence that cannot even how be reflected upon without alarm; the rain spouring do • 1 in torrents; and the night which eemed to fall, as it were in a moment, uncommonly dark, and the gloom of which we had not a fingle ray to enliven, and the length of which we band not either fpirits or refolution, by conversation. sto cheer! The negro huis, as I before observed, were at this time deftroyed; and the miferable fufferers rushed into the house, and began fuch complaints and lamentations, as added very confiderably to the dicomforts, and much increased the almost before unspeakable distresses, of the frene. One poor woman in particular (if real philanthrophy would not difd in to make a diferimination of colour, was, in a very particular and fensible manner, entitled to pity. Her child and that a favourite, was nearly buried in the ruips of her hou'e that feil around her: file fnatched it, with all the inconfi-cerate impatience of naternal fondnefs, from the

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expectation of a fudden fate: the ftrained it to have arms in fimple love and unaffitted protection, and flew to deposit her tender burden in the retreat diftant fafety:' fhe flew in vain: the tempest reache her and fivept the child, unconfcious of dange from her folding arms, and dashed her hopes and comforts to the ground. She recovered, and to hear bolom reftored the pleafing charge: the endeavour ed to footh it with her voice; but it was filer the felt it, and the found it cold: the fereamed, finconfole ber forrows, our remonstrances restrain hel violence, nor our authority suppress her execrat. ons. She felt like a mother, although an apathil might fay the did not feel like a Chriftian. What a cold and illiberal diffinction! Give a Negro reli gion, and eftablifh him in either the principles of obedience, or the knowledge of endurance, and he will not difgrace that tenet which inall be recom. mended by practice. Her lamentation's were nature ral, and of confequence affecting; and give addition al defpondency to a night that was already tock miferable to bear an augmentation of forrow.

The darkness of the night, the howling of the winds, the growling of the thunder, and the partial flashes of the lightning that darted through the murky cloud, which fometimes burk forth with a plenitude of light, and at others hardly gave fufficient lumination to brighten the terrified afpect of the negroes; that, with cold and fear, were trembling aroun.'; the cries of the children who were exposed to the weather, and who (poor innorents!) had loft their mothers in the darkness and confution of the night; and the great uncertainty of generals and private fituation combined; could not fail to firike the foul with as ceep as it was an unaccuftomed horror. In the midit of danger, in the awul moments of fuspence, and when almost funk by delpair, we prayed for more frequent lightning to sild the walls, for more heavy thunder to out-roar he blast, in the philosophic consolation that they night purge the atmosphere, and disperse the torm: but alast they were but feldom seen, or cebly heard, as if afraid of combining the influence of light with the destruction of found, and of railng upon the ground of terror, the superstructure if despair!

When the night was past, and our minds hung isspended between the danger we had eleaped, and he anticipation of what we might expect to enfue; when the dawn appeared as if unwilling to difclose he devastation that the night had caused; when the un beams peeped above the hills, and illuminated he fcene around-just God! what a contrast was here exhibited between that morning and the day pefore! a day which feenied to fmile upon Nature, and to take delight in the prospects of plenty that waved around, and which produced, wherever the ye could gaze, the charms of cultivation, and the prenile, of abundance; but which fallacious apbearances, alas! were to be at once annihilated by bat extensive and melancholy view of defoiation and defpair, in which the expectations of the molerate, and the wifnes of the fanguine, were to be o foon ingulphed. The horrers of the day were nuch augmented by the melancholy exciamation of every voice, and the energetic expression of every nand: fome of which were uplifted in acts of exerciaion; fome wiped the tears that were flowing from he eye: while fome, confidering from whence the visitation came, were seen to strike their breasts, as f to chide the groans which it was impossible to re-Arain. An uncommon filence reigned around: at. was the paufe of confiernation: it was a dumb ora-

tory, that faid more, much more, than any tong could utter. The first founds proceeded from the mouths of the most patient of Nature's creatures from the melancholy cow that had loft its calf, a with frequent lowings invited its return; from t mother ewes, that with frequent bleetings recalling their lambs, which were frifking out of fight, u confeious of danger and unmindful of food: a which folemn and pathetic invitations, after fuch night, the contemplation of fuch a fcene, and th disposition of the mind to receive pathetic impref. ons, came home with full effect to those who ha fuffered, but who withed not to complain! If the difireffes of the feathered tribe be taken into the defeription, their natural timidity, their uncertain ty of food, of melter, and domeftic protection, I - d'uly confideredy trifling as thefe observations m: appear, they certainly help to fwell the catalogy of diffress, to awaken the figh of fenfibility, and I steach us that their existence and their end are the hands of the fame Creator.

The morning of the 4th of October prefented u with a profpect, dreary beyond defcription, and a moft' melancholy beyond example; and deforme with fuch blafted figns of nakedness and ruin, a calamity, in its most awful and destructive mo ments, has feldom offered to the defponding oblem vations of mankind. The face of the country feen ed to be entirely changed: the vallies and the plain: the mountains and the forefls, that were only the day before most beautifully clothed with every ver line, were now despoiled of every charm; and t an expected abundance and superfluity of gain, i' a few hours fucceeded fterility and want; and ever proffect, as far as the eye could ftreich, was vill bly fricken blank with defolation and with horror The powers of vegetation appeared to be an one

fulp nded; and instead of Nature and her works, the mind was petrified by the feeming sppreich of fate and chaos. The country looked as if it had been lately vifierd by fire and the Iword; as if the Tornado had rifled Africa of its lands, to deposit their contents upon the denuded befom of the hills; as if Atna had foorched the mountains, and a volcano had taken poffeffion of every height. The trees were up rooted, the dwellings deftroyed; and in some places, not a stone was left to indicate the use to which it was once applied. Those w o had houses, could hardly diffinguish their ruins; and the progrietor knew not where to fix the fituation of his former posieffions. The very beafts of all defcriptions, were confeious of the calamity: the birds, particularly the domeftic pigeons, were moft of them deftroyed; and the fifh were driven from those rivers, and those feas, of which they had before been the peaceful inhabitants. New ftreams. arole, and extensive lakes were foread, where rills were fearcely feen to trickle before; and ferry boats were obliged to ply, where carrieges were used to travel with fafety and convenience. The roads were for a long time impafible among the mountains? the low lands were overflowed, and numbers of cattle were carried away, by the depth and impetuofity of the torrents; while the boundries of the different plantations were funk beneath the accumulated preffure of the innundition.

To give you at once a more general idea of this tremendous hurricane, I thall observe, that not a fingle heuse was left undamaged in the parific; not a fingle fet of works, trath-heuse, or other subordinat building, that was not greatly injured, or entirely destroyed. Not a fingle wharf, store house, or shed, for the deposit of goods, was left stunding: they were all swept away at once by the billows of the fea; and hardly left behind, the traces their foundations. The negro houfes were, an i clieve without a lingle exception, univerfally blo down and this refliction opens a large field for philanthropift, whofe feelings will pity, at lea thofe miferies which he would have been happy have had the power to relieve. Hardly a tree thrub, a vegetable, or a blade of grafs an inch lo was to be feen flanding up and uninjured, the e fuing morning: nay, the very bark was whipt fro the hogwood-hedges, as they, lay upon the groun and the whole profpect had the appearance of a c fort, over which the burning winds of Africa h latel, paft

At Savanna-la Mar, there was not even a veftiof a town (the parts only of two or three hout having in partial ruin remained, as if to indica the fituation and extent of the calamity): the vermaterials of which it had been composed, had been catried away by the refiftles furly of the wave which finally completed what the wind began.

very great proportion of the poor inhahitants wer cruthed to death, or drowned, and in one hour alone, it was computed that forty, out of one an forty fouls, unhappily and prematurely perifhec. The fea drove with progreflive violence, for mor than a mile into the country; and carried terror as it left definuction, wherever it paffed. Two large thips and a febooner were at anchor in the bay, but here driven a confiderable diffance from the fhore, and totally wrecked among the mangotrees upon land.

Were I to dwell upon the numberlefs fingularities of accidents that this dreadful florm occasioned, both among the mountains and on the plains over which is passed; were I to mention its particularitics and caprices, and the variety of contingencies which feemed impossible to happen, which imagination might triffe with, but which reason would fearcely believe; in fhort, were I to mention what I myself faw, and what numbers could witnes; I should be afraid to offer them to the ferious regard of my readers, in the dread that I might be thought to infult their understandings, and to advance as fiction, what it would be very difficult, indeed, to credit as truth.

The diffreffes of the miferable inhabitants of Savanna-la-Mar, during the period, and for a long time after the cofficien; of the florm, must have exceeded the most nervous, as they would have furpaffed the most melancholy powers of defcription They were fuch as ought to have affected (if public losses and private sufferings can ever affect the flony bosoms of the rapacious, and the icy powels of the interested), they were such, I say, as would almost have melted the unfeeling, and have Coftend the obdurate: but, alas! they could not, in too many inflances, divert the rigid purpofe, and withhold the rigorous hand of the man of bulinefs. Those who the day before were peffetiled, not only sof every domeffic comfort, but of every reasonable Muxury of life, were now obliged to feek for fhelter supen a board; and were exposed, in fickness and. coffiction, unshehered and unprovided, to the noify mintrufions of the wind and the coid, and the frequent vifitations of the flower.

Were I to enumerate private afflictions in this officene of general devaltation and defpzir, I flould require the pathetic pen of that accomplithed owriter who has given a charm to grief, and a dignity to fuffering, in the tender pages of huma Corbet: and who could fo well have expressed by corresponding fentiment, by flowing language, and glowing truth, those mighty forrows which the father endured for the death of a fon, which wife fuftained for the loss of her husband, and all those minor ties of confanguinity and friends which were, at this unhappy and awful period, generally disolved.

When we confider how very foon the gay n fuits and flattering appearances of life are deftr ed; how uncertain are our possessions, and h fubject to hopes, and how embittered by diff pointments, are our pursuits; it is somewhat ext ordinary, that we should be fo much attached the world, fhould entrust the fun-fhine of our da and without fuspicion of a change, to every closs fhould commit our prefent happiness to the infta lity of climate, to the viciffitudes of cold aud he to the terrors of the tempell, or the peffilen dangers of the calm:-it is aftonishing. I again peat, that we foould repose all our comforts, a all our expectations, upon a world fo full of mort cation, difappointment, and affliction; when must be confcious that we must so foon leave ... world and all its empty delufions behind, Wh we look around, and fee people who thought tree felves above the reach of want, and reclining," af a long apprenticefhip of patient in ultry and p fevering toil, upon the lup of late-earned indepel dency and honeft repofe; when we fee them 1 the fruits of exertions thus made, and of comfo "thus enjoyed, in one fatal and deftructive! our,- will an awful leffon does this reflection awaken in c ninds! and how much does it not warn us again building upon a foundation to very, precarious left, and at the b.ft deceitful! But then to I them reduced to this fitu-tion, and ftruggling wi infirmities, without the vigour of youth, or t exertions of manhood-without fheiter from t weather, protection from power, or meat a

drink to comfort the calls of declining nature, or interest enough to refcue them from the impending horrors of a gaol;—the accumulation of such misfortunes, is more than sufficient to excite compassion, but not always sufficient, as we find by melancholy example, to obtain relief.

So fudden an alteration, is enough to fhake a philosophy that has not before been tried; and fuch a change is fufficient to excite those complaints which are caufed by dilappointment, but which may be born with patience, and finaly.overcome -by calmnefs and refignation. If we meet with affiction, are we alone unfortunate? If we lole our all, are we the only beggars? How many are reduced to penury who cannot work! what numbers perifh without help, or are entomibed alive without pity! and yet how many emerge from diffrefs and want, by a manly fortitude, and fleady perfeverence of conduci! The hand of power may opprefs; but innocente has its peculiar triumph, as mifery cannot reach the grave; for that is the retreat of Virtue, her confummation, and her erd,

I can hardly prevail upon myfelf to believe, that the united violence of all the winds that ruth from the heavens, blown through one tub, and directed to one fpot, could have occafioned tuch deftruction, and in fo thort a space of time, as that of which I was an unfortunate witness, and of which I am now become the feeble recorder. If we even conclude it possible that the ruins of our buildings could have been occafioned by 'the concentration of its fury, how are we to account for some phænomena of which we were the fuffering and afon thed-spectators? How account for the fudden irruption of rivers, the lapses of searth, the difunion of rocks, the fuffures of mountains, and for other objects of the fublime and terrible, which have changed and disfigured the face of the country? How account for the bollow roarings of the fea, and for the inflability of the climate for many months befor and for the dreadful paules that were observed 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 occasion for extensive a devastation; ar the fudden swelling and raging of the fea, we may reasonably attribute to the heavings of the earth quake; to which likewife the general ruin of our houses may be in some measure attributed.

I have feen the ruins of Lilbon; and if it would not almost amount to folly to compare, in th place, great things with fmall, I. fhould fay, the the deftruction there, great and melancholy as was, could only have been, by comparison of build ing: and extent of population, more dreadful the that calamity which I have now the prefumption t describe. The earthquake at Lisbon happened i the morning; and although it almost univerfall affected its buildings, yet the productions of the earth received, in confequence, but little damage whereas the hurricane in Jamaica continued through out the night, which has its particular terrors, in dependently of water, and of wind; and not onl blew down every thing within its fweep, but fpread defolation through the country round, and I and apt to believe, that the peculiar districties of th unhappy fufferers of Savanna la-Mar, must hav equalled every thing (i still mean by comparison that is to be met with in the most melancholy and nals of human misfortunes.

To this calamity, another unfortunately fucceed ed; and the confequences of which were fill more fatal to the lives of those who had furvived th

or ... The Rench that arole from the putrefacon of the dead bodies, which remained for many ecks without interment (and to numbers of which e rites of burial could not be administered). o.caoned a kind of pestilence, that swept away a eat proportion of those who had providentially caped the first destruction. Almost every perfon. the town and neighbourhood was affected; and e faculty were rendered incapable, through, knefs, to attend their patients, many of whom rithed from the inclemency of the weather, from. ant of attendance, or supply of food: and to add the general apprehension, the negroes poured own in troops to the scene of devastation (and, I n forry to observe, that many white people were etected, opon the fpot, of promifenous plunder); nd having made free with the rum that was floatg in the inundations, began to grow infolent and nruly; and, by their threats and conduct, occafion-I an alarm which it was found neceffary, by exeron and caution, at once to suppress; and what the onlequences, at fuch a time of general confusion id dread, might have been, had not the punche-ns been immediately flaved, can hardly, even at his diftance of time, be reflected upon without errour.

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That the unenlightened negroes flould be led to under, when they could do it with fafety, and when the curbs of morality and religion to rerain them, is a circumftance not to be wondered ; as it is confiftent with the common depravity of uman nature; but that those who ought to -: a beck upon that licentioufnefs which they themlives perhaps have taught, thould fland forward to iveft miftary of its laft fupport, and even plunder enury itself of its utmost farthing, is a reflection of pon those who can diffinguish black from white

in the colour of the human fkin, but who cann discriminate what is black from white in the integr conduct of man to man. To take advantage misfortune, in the time of public calamity and p vate affliction, and to raife a superstructure, how ver fmall, upon the ruins of others; is what, al: has been too often practifed without chastilemen and enjoyed without thame: and if those who an in authority over negroes, and to whom they a. taught to look up for the theory as well the practing of integrity, fhall fet an example of worldly injutice, of rapacity and plunder-the negro who fe loas this infamous example, unconfcious of wrong is neither a principal, nor an acceffory, altho 1 may pofibly be convicted of both; while the re delinquent, who grows rich from infamy, is fuffe ed to escape-without tria!, and confequently with out a punishment. I must therefore from fac conclude, that a reformation in practical mannen must begin with the white people in the colonie before any humane inflitutions for the relief of th flaves can either be carried into full, or even int partial effect; and this preliminary I shall herea ter endeavour to fupport by corollaries drawn from fact and experience.

The congratulations of the morning that fue ceeded the dreadful vititation which has been th fubject of these pages, were fuch as feelined the spontaneous effects of what the boson felt from the relief, of supereminent dangers: the fail occasion feemed to create new ideas in the mind, and to giv pangs to feeling, of which the heart was before no conficients. Many people thought that the day of tinal sjudgment was cound; and felt it as it it was then too late to reflect upon danger: for danger which implies uncertainty, would then have been a pleafing idea, inalmuch as chance is a contrast t

Al delpair. It is the natural province of man to er; it is an appendage of his condition: but it uires a fomething more to learn to fubmit, and batient submiflion, without complaint, to bear. t is natural to suppose that the ftorm above defbed, must have given rife to many distressing pathetic fenes; must upon fome occasions have nowed up the foul, and upon others, have ined a tendernels and pity. Hufbands and wives, parents and children, were in many places wated by the terrors of the night and feated, as before observed, to meet no more: but n'these dreadful scenes I thall not attempt to ell, as their remembrance will furvive the deption of my pen, in the melancholy perpetuity domanie afflictions; and which numberlefs faies, more or icis, to the deftruction of their nes, and the difcomfort of their lives, will long. y long, have caule to lament.

Inall never forget the defolate appearance my ile made immediately after this catafirophe, nor many circumflances of diffress and commilera-1 that alternatly shocked and softened the mind. re a poor infant was feen extracted from the ns, and its lifelefs body confined to the care and ientations of its desponding parents; there sat a pup of negrees bewailing with heavinefs of heart, all the filent eloquence of Arcaming eyes; and sched-out hands, the total defiruction of their e fortunes, in the wrecks of their houses, the no? their effects, and the demolition of their unds; while others ran confusedly here and re, without knowing upon what errand they e bent, or where to begin, or how to fet about erefloration of their loffes, or by what philofoto confois their minds.

Chere were many who wilhed to be employed rendering our fituations more comfortable, but who, from want of method, and from that hurry which is its conftant astendant, were always in the way, and confequently did more harm than good. Some, indeed fucceeded in their exertions; and I fhould little deferve thole comforts I fo foon found, in comparison to many others, did I not bear witnefs to the willing indultry and unremitting application of the tradefmen and other negroes who were employed in the reparation of the offices, and in making tight thole parts of our temporary dwellings which were defined to the accommodation of ourfelves and friends.

Another Hurricars in Jamaica, 1781.

I N addition to the forementioned calamity, the inbabitants of the iflund of Jamaica, were again vifited by this dreadful fourge of Humanity, within lefs than a twelvemonth after it happened as appears from the following extract.

Kingfon, Aug. 2, 1781: About eight o'clock on Wedneiday evening, the ift inft. a hard gale of wind came on from the fouthward, but foon after veered to different points of the compass; before nine it increated to a perfect hurricane, and continued to rage till near eleven, greatest part of the time blowing from the foutheast, accompanied by a heavy and inceffant rais; nor did the florm altogether fabfide till about two in the morning: 73 fail of vefiels, including floops, fchooners and thallops were on thore between Ruffel's hulks and the whart of John Vernon, blq; and Ca. and feveral others to the weftward of the town, but being mostly ligh: vefiels, the greatest part of them either have been, or will be got off, ough not without confiderable damage. The tter in the harbour is fuppofed to have rifen beeen four and five feet perpendicular, the plankof the wharfs in general being torn up, and any heavy articles that were upon them entirely rried away; of Meffix. Law and Hargreave's narf, fearce the veftiges remain.—The greateft rt of the returned fleet being at Port Royal, the counts from thence are ftill more deplorable, two aded flips being either funk or overfet, and 24 n on fhore between Sait Ponds and Mufquito int.

Many houfes and piazzas in this town were blown wn, and two negroes found drowned in the eets, in which torrents of water for feveral hours n down with great rapidity.

His Majefly's fhip Pelican was drove upon Monr Key, and fuppoled to be totally loft; the fhip's mpany, excepting four; were providentially faved. Three veficls were drove afhore in the harbour MartBa Brae; the fhip Roberk, of New-York, e floop Beaver, and a floop belonging to Kingon; the first is totally loft, the other two will be it off.

The fhip Orange Bay, which went affiore near e Twelve Apofiles, contrary to all expectation, is been got off. A confiderable part of the caries of feveral other veffels, that were drove on ore near that place, has been faved.

His Majedy's fhip Southampton, after having had engagement with a French frigate off Cape Franis, was by the late from difmafted and driven to 'reck Riff, to the leewerd of Port Royal, where e new remains; the Vaughan and feveral other ff. is are gone to her affiftance.

I he form very unfortunately proves to have been neral throughout the illand, though not equally violent: in Wettmoreland, St. Ann's, and St. Ma the canes have received confiderable damage, the plantain walks, together with the ripening e have been totally deftroyed; the other par particularly those to windward, have fuffered much lefs degree.

Montego El

The form on Wednefday the ift of Augult done much damage to our fhipping; it has dr alhore two lhips, the Christina and Juno, a fi vefiel of Niel's, and a brig belonging to Capt. A Hamilton, is totally loft, and himfelf and n drowned; M'Kay's whatf is carried away: Drs Pi ney and Ruecassle, Mess. Blake and Ingles's 1 houses and stores are thrown down; all the profion and fine crops of corn are deftroyed; the cal are all hid flat, and there is hardly an cftat. Westmoreland but has fuffered in buildings, Ulyffes, which came here from Kingfton v 20,000l. a part of the parliamentary grant to fufferers by the Rorm in October last, has b drove to fea, together with a brig out of Bluefie and, through the whole parish of St. Elisabeth, provisions in general are destroyed, and the cal greatly damaged."

The accounts from Hanover are equally unfav rable,

St. Mary's, St. Ann's, and Trelawny, have a fuffered very confiderably in their provisions : canes.

On Sunday last the ship Ulysses, Thom Esq; commander, went into Lucea harbour un jury mass, with the loss of her bowsprit, being the damage we understand she has sustained.

Letters received from St. Elizabeth menti t that the fcarcity of provisions for the negre is fo great, in confequence of the last ftorm, t any of the inhabitants are obliged to purchase rn at the exhorbitant price of a bit for fix ears, eerly to keep their flaves from perifhing until her provisions can be procured.

It is yet impossible to fay what number of lives ve been lost in this dreadful calamity; but they aft be numerous; in one plantain boat only, ne perfons perished; as did the crew of the Ruby's at, at Port Royal, in endeavouring to affist a vefin diffrefs soon ofter the from came on.

Edinburgh Advertiser, Nov. 6, 1781.

Tornado in Sectland, July, 1799.

Ornado. The following interesting account of this awful p ænomenon, which took place at hitelaw, in the parish of Ednam, Berwickschire, the 3d curt. we copy from the Kelfo Mail.

"The weather through the day had been calm, th foft flowers. At feven o'clock in the evenis there was observed by many people, a little to fouth-weft of Mr. Tod's house at Whitelaw, dense light coloured cloud of a very uncommon pearance. It refembled an inverted cone, reachfrom the ground to a confiderable height in the hofphere. Its motion towards the house was flow I majestic. a perfon of no great agility on teeing approach could eafily have elcaped from it. It an at length to whirl round with great rapidity. ompanied with a loud, rattling noife. The effect sts amazing power was first exhibited upon a large k of firaw in the barn.yard, which it raifed in mass to a confiderable height in the air. A m of timber, lying flat on the ground, was hurlfrom its place feveral feet; and it will be thought oft to exceed credibility when it is mentioned, mit this beam was thirty-three feet long! Small were heaped together in mounds as if by wood. The farm offices were materially injured;

fome of them, indeed, were almost entirely strict their tiles.

"Human firength was mere weaknefs when a poled to this war of elements. A flout young i low, who had witnefied the fcene in the barn-ya from an apprehenfion that the houfe muft necel rily be tumbled down, run out for fafety. The fittlefs enemy, however, lifted him over a wall f feet high, and carried him forwards for thirtyforty yards!—Several of the fervants were forcidriven about, fome in one direction and fome in nother, according to the eddy.' The horfes a cattle upon the farm exhibited the livelieft fym toms of alarm and agitation.

"The dwelling houte at Whitelaw, in which the family refided at the time, fhook with fuch violen as to threaten its definition and theirs. Providtially, however, amidft all the devaftation, no phone for was materially hurt; and, what renders this the more remarkable is, that the tiles which were the from the furrounding offices fell from an immeheight, in vaft numbers, among the people expoto the florm.

"Before the cloud reached the farm houfe it h fortunately divided, and the two partstaking differ directions, only one of them flruck the buildir Had the whole collected force difeharged itfelf once, few, 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 eith, owing, i fuppoied, to the violent concultion of the clou there was a torrent of rain, and in fome places h for a few minutes, as had not been obferved in memory of man.— Edinburgh Weekly Journal, No.