Awful Phenomena of Nature!

Burning Mountains.

AN ACCOUNT OF A LATE ERUPTION OF

VESUVIUS;

Discovery of Herculaneum;
Which was overwhelmed by an eruption in the year 79:

WITH AN HISTORICAL ACCOUNT OF

MOUNT ETNA.

The dread Volcano, ministers to good; Its smothered flames might undermine the world.



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Awfal Phenomena of Nature!

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AN ACCOUNT OF

The late Eruption of Vesuvius.

One of the grandest, and at the same time the most awful spectacles in nature is that of an active volcano, throwing out ashes, pumice stones, and cinders, and pouring forth a torrent of ignited lava, which, like a vast deluge of liquid fire, lays waste the country over which it runs, and buries all the works of human art.

Volcanoes, are found in almost all parts of the world, but most commonly in the neighbourhood of the sea, and especially in small islands; for instance, in Italy, Sicily, Iceland, Japan, the Caribee, Canary, and Cape Verd Islands, and the Azores. There

Peru, especially Pichincha and Cotopaxi. The subterraneous fires which are continually kept up in an open volcano, depend in general on sulphureous combination and decomposition, like the heating of a heap of wet pyrites, or the union of sulphur and iron filings; but in other cases they approach more nearly to the nature of common fires. A mountain of coal has been burning in Siberia for almost a century, and must probably have undermined, in some degree, the neighbouring country.

The two most remarkable valcanoes are those of Mount Etna and Mount Vesuvius; and the following is an account of a re-

cent eruption of the latter.

This celebrated volcano, which has for so many ages attracted the attention of mankind, and the desolating eruptions of which have been so often and so fatally experienced, is distant, in an eastern direction, about seven miles from Naples. It rises, insulated upon a vast and well cultivated plain, presenting two summits on the same base; in which particular it resembles Mount Parnassus. One of these, La Somma, is generally agreed to have been the Vesuvius of Strabo and the ancients; the other, having the greatest elevation, is the mouth of the volcano, which almost con-

stantly emits smoke. Its height above the level of the sea is 3,900 feet, and it may be ascended by three different routes, which are very steep and difficult, from the concal form of the mountain, and the look ashes which slip from under the feet; stifted the distance it is not more than through the distance it is not more than through the distance of the platform on the top is 5,024 feet, or near a mile. Thence may be seen Portic Capra, Ischia, Pausilippo, and the who coast of the Gulf of Naples, bordered with orange-trees: the prospect is that of Parallel.

dise seen from the infernal regions.

On approaching the mountain, its aspen does not convey any impression of terro nor is it gloomy, being cultivated for more than two-thirds of its height, and having only its brown top barren. There all very dure ceases; yet when it appears covered with clouds, which sometimes encompass its middle only, this circumstance rathe adds to, than detracts from, the magnific cence of the spectacle. Upon the lavi the volcano long ago ejected and which, like great furrows, extend into the plain, and to the sea, are built houses, villages, and towns. Gardens, vine yards, and cultivated fields surround them but a sentiment of sorrow, blended with ap prehension about the future, arises, on the ecollection, that beneath a soil so fruitful nd so smiling, lie edifices, gardens, and whole towns, swallowed up. Portici rests ipon Herculaneum; its environs upon Resna; and at a little distance is Pompeii, in he streets of which, after more than seveneen centuries of non-existence, the astonshed traveller now walks. After a long interval of repose, in the first year of the reign of Titus (the 79th of the Christian era,) the volcano suddenly broke out, ejecting thick clouds of ashes and pumice stone, beneath which Herculaneum, Stabia, and Pompeii, were completely buried. This eruption was fatal to the elder Pliny, the historian, who fell a victim to his humanity and love of science.

There have been thirty-nine eruptions of Mount Vesuvius recorded by historians; the last one makes the fortieth. Previous to the recent cruption, Vesuvius displayed all round the openings which it had made at different periods, and to which they gave the name of mouths. From those openings flowed the lava, the name given the torrents of liquified matter which rushed on

of the bursting sides of the Mount.

Running from the summit, it spread over the fields at the bottom, and to the sea. The matter, when cold, hardens to stone. It is used to pave the streets

Naples, and in the erection of solid buil ings. The dopth of the gulf, or boiling matter, from which arises a constant smok is calculated to be about 543 feet, It common, at all times when it has raine much, to see torrents of water descend wi a loud noise from Vesuvius; but tho which descend during an eruption do the most damage. A do a cag. to west

These waters, stopped at the foot of the mountain by immense masses of cinder and sand, which from a sort of dyke, aug ment their force, and render the fall more impetious. To these floods of water shocks of earthquakes are added, which continue at intervals during a mont

together.

Marian Charles In The new-eruption commenced on the 20th of October, about twelve o'clock. A dreadful internal noise was heard through out the neighbourhood; the lava began to appear, and soon flowed in a torrent about a mile broad. The next day a second body of lava, half a mile in breadth, issued forth and covered the old lava, on the side of Rosco-Tre-Case: a third and fourth stream soon afterwards burst forth.

The following particulars of the progress of the eruption are from private letters:

NAPLES, October, 23.- You will have leard, my dear brother, before, this reaches you, of the awfully grand eruption of Vesuvius. Nothing similar has been witnessed since 1794, when the town of Torre del Greco, situated at about four miles from the crater, was partly destroyed. During the evening of the 21st, a little smoke appeared, and distinct reports of artillery, as it seemed, proceeded from that part of the bay. Had the sky not been perfectly serene, one would have considered it to be thunder. Towards nine, o'clock, however, a little fire appeared at the old crater, and left us no longer in doubt about the cause of the intonations. At a few minutes past Eleven, it burst forth in all its fury, throwing out stones to a great height. In three hours afterwards, the lava rolled forth in two grand streams, one taking towards Resina, where the king's Villa, called La Favorita, is situated, and the other inclining in a more southerly direction to Torre del Annunziata. The torrent of lava which flows towards Resina has already covered 100 acres of ground. The showers of ashes darken the sky, and fall even in the streets of the capital. The stones which have fallen at Bosco-Tre-Case have accumulated to the height of five palms. The eruption of stones are frequent, and the sounds which issue from the mountain are frightful All the people who lived near the volcand

have fled. About 800 persons from the neighbouring villages have been received by order of the Police and Prefecture.

Oct. 25.—The fire seems to-day to b spent, but as the wind has changed to th south east, or, as it is called, Sirocco, the smoke and ashes have come over Naple. and the mountain, with Portici, and a along the bay, are invisible, while at mic day, torches are almost necessary, and um brellas absolutely so. The King's Villa a Resina was yesterday stripped of its furni ture, and I may say that the whole line o coast, Portici to Castel-a-Mar, has been a bandoned, unless we except the curious who flock in crowds to see what is passing The eruption of cinders and smoke at this moment presents the appearance of a very thick and elevated black cone, which the wind blows towards Somma, Ottajano, and Nola. The number of individuals who fled from the villages augmented considerably yesterday. Last night about 2000 of these unfortunate persons received pecunia-

ry assistance
Oct. 26—We expect that the eruption will soon entirely cease. The columns of cinders and smoke are decreasing, and the detonations are less frequent and loud han heretofore. Most of the people who ad fled are returning to their homes. It

ained copiously last night, which has had he effect of purifying the atmosphere, which before was filled with clouds of black ishes. The rain, too, has washed the plants, which have assumed their natural colour and appearance, which under our climate is, even at the end of autumn, so striking and agreeable. The summit of Vesuvius is visible, and it appears that the dreadful eruption which has taken place has torn

away a part of the crest of the volcano.

Oct. 28.—The eruption is completely at an end; but violent explosions of cinders still continue. The inhabitants of the country have returned to their homes. Portici and la Torre del Greco have suffered no other injury than what arises from their being in a great part covered with ashes and stones. A portion of the territory of Resina is covered with lava, but only where lava had formerly lain. The tower of the Annunziata has sustained injuries which it will not be easy either to estimate or repair. At Ottaiano the fire has consumed 52 acres of wood. These are all the details which have hitherto reached us.

The following additional particulars of this interesting event are contained in another private letter from Naples dated October 29:

Vesuvius is comparatively quiet, but it still throws out immense columns of smoke,

and the lapillo and fine ashes continue to rain round the country according to the direction of the wind. Yesterday the wind blew over Naples, and it was a very rain day. To my surprise, on going out, I found that the water which fell was of the colou of mud; indeed so thickly was it mixed with a shower of the fine volcanic ashes that it has besmeared the houses and trees and every thing exposed, in a most curious manner. Son plant and a

The first stream of lava thrown out at the west side of the crater, was about half mile in breadth; it passed between the hermitage of San Salvatore and the ruins of little country-house belonging to the King and descended towards Resina. After having damaged a considerable deal of land, it stopped at a spot called Il Monte.

The second came out at the same time. and from the same mouth as the first; it was about two miles broad, and descended towards the village called Bosco di tre Case; but as it run over former dava, it did no

injury. I am it is on on all was to The third proceeded from a mouth that opened during this eruption low down the sides of the volcano; it ran towards the place called Il Monte, but it also flowing over old lava, did no injury. The second nd third stopped nearly in the same place.

The fourth and last descended from an old mouth called Vulcano, on the south side; reaching Pedementina, it joined itself with a smaller stream of lava, thence it ran on over old lava, as far as the hollow called Atrio del Cavallo. It seemed to menace La Torre del Greco.

It has been observed that the volcanic matter, not lava, thrown out by Vesuvius this time, taken in mass, is much more con-

siderable than the lava itself.

The damage done by the eruption is not so considerable as the dreadful and menacing appearances of the mountain would have induced me to imagine. Portici and the Torre del Greco have suffered no other inconvenience than that arising from some sharp showers of lapillo and ashes. Resina has had about twenty moggia of land covered. A moggia is a Neapolitan measure, equivalent to about four-fifths of an English acre. From the Torre del Greco to the Torre del Annunziata, the road is now covered to the depth of two feet with lapillo and fine ashes. The Torre del Annunziata has suffered most; all its finely cultivated lands are covered with a very thick stratum of lapillo and ashes. Near Ottajano, about forty or fifty moggia of wood were consumed. Yesterday, this part suffered greatly from a deluge of warm water, mixed with ashes.

A great number of labourers aided by Austrian and Neapolitan soldiers, are employed in clearing the roads. The heavy rains which are expected at this season will do much, but I fear that the country round the Torre del Annunziata will not be speedily restored to the industry of man.

The distance at which the fine ashes have fallen is astonishing; the master of an English vessel, which came in last Saturday, gathered them on the deck the Wednesday evening preceding, when he was off the Tuscan coast, at least two

hundred miles from Naples.

THE DISCOVERY OF HERCULANEUM.

give induced and to imagine. I orticle and he come del Greco race miffered no concr

The discovery of the ancient city of Herculaneum, justly excited the curiosity of all men of letters, on account of the numerous lights which the curiosities found herein might be expected to throw upon he history of the ancient arts, &c. These expectations were well founded; for the ictures, in particular, which were found here, may convey to us a good idea of the tate of painting among the ancients.

Herculaneum was situated between laples and Pompeii, near the sea, on the anks of the Sarno, and at the foot of

term water mixe . will ables.

esuvius; between the spot where now nds the royal palace of Portici, and the lage of Resina. If this tract of country so pleasant now, after so many repeated. iptions of Vesuvius, we may well supse it to have been much more so, when e Romans retired to it, either from umphs or business, and ornamented it. th their villas. We need not wonder, erefore, if so small a city as Herculaneum is should contain a theatre, and other agnificient buildings, adorned with a eat profusion of paintings and sculpres, many of them certainly in a good ite, among a much larger number of d ones.

Herculaneum was overwhelmed by a blent eruption of Mount Vesuvius, on e 1st of November, in the year of Christ, and the first of the reign of Titus. Bere this, Pompeii had been entirely, and erculaneum in great part, destroyed by terrible earthquake, which happened at the sixteen years before, and lasted seved days.

That eruption of Vesuvius, in which erculaneum was destroyed, is the first on record. Dio Cassius relates, that this uption was accompanied by violent earth-takes and tremendous noises; that the nes, flames, and fiery stones, filled the air,

earth, and sea, to the destruction of mo herds, and fields, and all the birds all fishes; that the sun was as it were eclips and the day turned into night; that Ro was covered with showers of ashes, wh extended even to Africa, Syria, and Egy that Herculaneum and Pompeii were d troyed; and, in short, that the scene so dreadful; and the confusion of the habitants so great, those who were at running to land, those who were at lal to sea; those who were in houses making for the fields, those who were in the field for houses; that people thought either the chaos was returned again, or that the u versal conflagration of the earth ve commencing.

Dreadful as this calamity was, it appears that the cities were not buried so suddoly, but that the inhabitants had times save themselves and the most valuable at their effects; very few bones have but hitherto found, and very little money, plan or other moveables of great value.

The first discovery of subterrane ruins, was made in the year 1689; who on opening the earth at the foot of Mou Vesuvius, the workmen observed regularization of earth and vitrified stone. To disposed the owner of the ground to cotinue the digging, and at the depth twenty-one feet he found some coals, in

eys of doors, and two incriptions, from hich it appeared that the ancient city of

ompii formerly stood there.

In the year 1711, the duke di Belbofi. esigning to build himself a villa on the seanore at Portici, had a mind to cover some f the ground-rooms with plaister. He new that some of the inhabitants of lesina, in digging for a well, had found agments of antique Greciale, marble, and perefore ordered the workmen to continue igging as deep as the water would permit, 1 order to get a sufficient quantity of this narble for his plaister. Scarce had they egan their operations, when they found ome beautiful statues, among which, was ne of Hercules, in marble, and another nought to be a Cleopatra. Proceeding rther, they met with several columns of ploured alabaster, belonging to a temple f a circular form, adorned on the outside ith twenty-four columns, the greatest art of which were of the yellow antique; ne inside of the temple had the sameumber of columns, between which were atues of Grecian marble, and it was paved ith the yellow antique. The statues were ent to Vienna by the duke di Belbofi, as a resent to prince Eugene of Savoy. Afteris, all farther search was discontinued, for ar of getting into a dispute with the inisters of state.

In December 1738, his Sicilian majest being at Portici, and some fragments of marble having been found in the wel which the duke di Belbofi had sunk, the king gave immediate orders for the bottom of it to be searched: whereupon the work men cutting by the hole which the duk had made, found several fragments of statues, &c. seventy feet below the present surface.

On pursuing their work, new discoveric opened upon them,—a theatre, temple streets, &c. Most of the houses were foun to be decorated both within and withou with paintings, which with the statue form the most valuable part of these sul terranean treasures. The grounds of the paintings were seldom bright, but general ly of some dark colour, black, green, yellow or dusky red. The stucco was very thick and the workmen contrived to cut it from the walls without the least injury to the paintings. They were done in pannel with grotesque ornaments round them not in fresco, as was at first supposed, but in distemper; that is, the colors were not mixed up with water, and incorporate with the wall itself, by laying it on whi the stucco was wet; but with size or some other glutinous matter, and la The connoisseurs have greatly varied in heir judgment of these paintings; some extolling the coloring and the design above he modern art, and others depreciating hem. In general, however, if we except ome few, we may discover in them the ouches of a master, great spirit, and projound study.

A DESCRIPTION OF MOUNT ÆTNA, May, 1740.

At Category Comment was affect on

On the 27th, by day break, we set off to isit mount Ætna, that venerable and repectable father of mountains. His base, and his immense declivities, are covered with a numerous progeny of his own; or every great eruption produces a new nountain; and perhaps, by the number of hese, better than any other method, the number of eruptions, and the age of Ætna tself might be ascertained.

The whole mountain is divided into three istinct regions, called the Fertile Region; he Woody Region; and the Barren Region.

These three are as different, both in clinate and productions, as the three zones of ne earth; and perhaps, with equal propriey, might have been styled the Torrid, the emperate, and the Frigid zone. The first region surrounds the mountain, and cons tutes the most fertile country in the wor on all sides of it, to the extent of about fourteen or fifteen miles, where the wood region begins. It is composed almost e tirely of lava, which, after a number of ag is at last converted into the most fertile all soils.

At Catania, the harvest was entirely over and the heats were insupportable; he they were moderate, and in many places t corn is as yet green. The road for the twelve miles is the worst I ever travelled entirely over old lavas and the months extinguished volcanoes, now converted i to corn fields, vineyards, and orchards.

The fruit of this region is reckoned t finest in Sicily, particularly the figs, which they have a great variety. One these of a very large size, esteemed flavour above all the rest, they pretend a peculiar to Ætna.

The lavas, which as I have already so orm this region of the mountain, take the rise from an infinite number of the m beautiful little mountains on earth, which a every where scattered on the immense declity of Atna. These are all of a regul figure; either that of a cone, semisphere; a all but a very few are covered with beauti, trees, and the richest verdure: Every eriion generally forms one of these mountains. As the great crater of Ætna itself is ruised o such an enormous height above the lower regions of the mountain, it is not impossible, hat the internal fire raging for a vent, even ound the base, and no doubt vastly below it, hould be carried to the height of twelve or hirteen thousand feet, for probably so high s the summit of Ætna. It has therefore renerally happened, that after shaking the rountain and its neighbourhood for some ime, it at last bursts open its sides, and this s called an eruption. At first it only sends forth a thick smoke and showers of ashes, hat lay waste the adjacent country: These re soon followed by red hot stones, and ocks of a great size, thrown to an immense eight in the air. The fall of these stones, gether with the quantities of ashes disharged at the same time at last form ie spherical and conical mountains I have ventioned. Sometimes this process is finished the course of a few days, sometimes it lasts r months, which was the case in the great ruption 1669. In that case, the mountain rmed is of a great size; some of them are ot less than seven or eight miles round and pwards of 1000 feet in perpendicular height; thers are not more than two or three miles ound, and 3 or 400 feet high.

Our landlord at Nicolosi gave us an account the singular fate of the beautiful country near Hybl at no great distance from hence. It was so celebrate for its fertility, and particularly for its honey, the it was called Mel Passi, till it was overwhelm by the lava of Ætna. The mountain from when the first eruption issued, that covered Mel Passi, known by the name of Monpelieri. This mounts was formed by the first eruption that destroyed t country of Mel Passi, and is of a very old date. buried a great number of villages and country house and particularly two noble churches, which are me regreted than all the rest, on account of three statue reckoned at that time the most perfect in the islar They have attempted, but in vain, to recover ther as the spot where the churches stood could never justly ascertained. Indeed it is impossible it shou for these churches were built of lava, which it is w known is immediately melted, when it comes in contact with a torrent of new erupted matter: A Massa says, that in some eruptions, of Ætna, the la has poured down with such a sudden impetuosit that in the course of a few hours, churches, pala and villages, have been entirely melted down, a the whole run off in fusion, without leaving the le mark of their former existence. But if the lava had any considerable time to cool, this singular eff never happens.

The great eruption of 1669, after shaking the who country around for four months, and forming a valarge mountain of stones and ashes, burst out about half a mile above Monpelieri, and descending like torrent, bore directly against the middle of the moutain, and (they pretend) perforated it from side to statish however, I doubt, as it must have broken regular form of the mountain, which is not the constraint it is, that it pierced to a great department of the lava then divided in two branches; and

ounding this mountain, joined again on its south de; and laying waste the whole country betwixt nat and Catania, scaled the walls of that city, and oured its flaming torrent into the ocean. In its way, is said to have destroyed the possessions of near 0,000 people; and reduced them to beggary. It form-1 several hills, where there were formerly vallies, and filled up a large lake, of which there is not now ne least vestige to be seen.

As the events of this eruption are better known han any other, they tell a great many singular stories f it; one of which, however incredible it may apear, is well ascertained. A vineyard, belonging to convent of Jesuits, lay directly on its way. This ineyard was formed on an ancient lava, probably a nin one, with a number of caverns and crevices under

The liquid lava entering into these caverns, soon lled them up, and by degrees bore up the vineyard; and the Jesuits, who every moment expected to see buried, beheld with amazement the whole field egin to move off. It was carried on the surface of the lava to a considerable distance; and though the reatest part was destroyed, yet some of it remains to his day.

In an hour and a half's travelling, after we left ficolosi, over barren ashes and lava, we arrived on the confines of the Regione Sylvosa, or the Temperate one. As soon as we entered these delightful forests, e seemed to have got into another world. The air, hich before was sultry and hot, was now cool and pfreshing; and every breeze was loaded with a nousand perfumes, the whole ground being covered wer with the richest aromatic plants. Many parts f this region are surely the most heavenly spots non earth; and if Ætna resembles the infernal regions ihin, it may with equal justice be said to resemble tradise without.

It is indeed a curious consideration, that this ountain should re-unite every beauty and every

horrer: in short, all the most opposite and dissiminable of nature. Here you observe a gulph, the formerly threw out torrents of fire, now covered with most luxuriant vegetation; and from an object terror, become one of delight. Here you gather most delicious fruit, rising from what was but late a black and baren rock. Here the ground is cover with every flower; and we wander over these besties, and contemplate this wilderness of sweets, with considering that but a few yards separate us fro liquid fire and brimstone.

But our astomishment still encreases, on casting of eyes on the higher regions of the mountain. The we behold in perpetual union, the two elements that are at perpetual war; an immense gulf of fire, for every existing in the midst of snows which it has not power to melt: and immense fields of snow and ice for existing this gulph of fire, which they have no

power to extinguish.

The woody region of Ætna ascends for about eight or nine miles, and forms a zone or girdle, of the brightest green, all around the mountain. This night we passed through little more than the half of a arriving some time before sun-set at our lodging which was no other than a large cave, formed by or of the most ancient and venerable lavas. It is called La Spelonca Det Capriole, or the goats cavern, because frequented by those animals; who take refugthere in bad weather.

Here we were delighted with the contemplation many grave and beautiful objects; the prospect call sides is immense; and we already seem to lifted from the earth, and to have got into a new

world.

The Regione Deserta, or the frigid zone of Atrois the first object that calls your attention. It marked out by a circle of snow and ice, which exds on all sides to the distance of about eight miles, the centre of this circle the great crater of the intain rears its burning head; and the regions of use cold and of intense heat seem for ever to be ed in the same point.—On the north side of the wy region, they assure us, there are several small as that are never thawed; and that in many places, snow, mixed with the ashes and salts of the intain, is accumulated to a vast depth.

Ve had now time to examine a fourth region of wonderful mountain, very different indeed, from others, and productive of very different sensations: which has, undoubtedly, given being to all the

; I mean the region of fire.

he present crater of this immense volcano is a le of about three miles and a half in circumference. roes shelving down on each side and forms a many like a vast amphitheatre. From many es of this space, issue volumes of sulphursous ke, which, being much heavier than the cirambient air, instead of rising in it, as smoke rally does, immediately on its getting out of the er, rolls down the side of the mountain like a ent, till coming to that part of the atmosphere of same specific gravity with itself, it shoots off zontally, and forms a large track in the air, acing to the direction of the wind; which happily is, carried it exactly to the side opposite to that re we were placed. The crater is so hot, that it ry dangerous, if not impossible to go down it; les, the smoke is very incommodious, and in many s, the surface is so soft, that there have been ines of people sinking down in it, and paying for temerity with their lives. 'Near the centre of crater is the great mouth of the volcano When effect on the immensity of its depth, the vast cells caverns whence so many lavas have issued; the of its internal fire, to raise up those lavas to so

vast a height, to support as it were in the air even to force it over the very summit of the with all the dreadful accompaniments; the boild the matter, the shaking of the mountain, the sions of flaming rocks, &c. we must allow, the most enthusiastic imagination, in the midst of terrors, hardly ever formed an idea of a plant

punishment more dreadful.

It was with a mixture both of pleasure and that we quitted this awful scene. But the win risen very high, and clouds began to gather the mountain. In a short time they formed another heaven below us, and we were in hop seeing a thunder-storm under our feet: A scenario not uncommon in these exalted regions, and I have already seen on the top of the nigh Alps the clouds were soon dispelled again by the force wind, and we were disappointed in our expectation.

We left the summit of the mountain abooo'clock, and it was eight at night before we re Catania.—We observed, both with pleasure and the change of the climate as we descended—the regions of the most rigid winter, we soon a at those of the most delightful spring. On firtering the forests, the trees were still bare as in ember, not a single leaf to be seen; but after we descended a few miles, we found ourselves i mildest, and the softest of climates: the trees averdure, and the fields covered with all the flow the summer; but as soon as we got out of the sand entered the torrid zone, we found the heat gether insupportable, and suffered dreadfully them before we reached the city.

elloguerro, digri FINIS.