Mont Pelée and After-Glow.

MAY I point out that the after-glow following the eruption of Krakatoa was-as I wrote at the time-remarkably emphasised on the west coast of British India.

Following the letter of Dr. W. J. S. Lockyer in NATURE of May 15, the after-glow, now, after the eruption of Mont Pelée (and Soufrière?) should be as remarkably emphasised in central and perhaps the southern part of North America.

In Europe this eruption will not (?) cause the same effect as to after-glow as the former. F. C. CONSTABLE.

Wick Court, near Bristol, May 18.

THE VOLCANIC ERUPTIONS IN THE WEST

SINCE we went to press last week further details have become available as to the volcanic disaster in the West Indies. We give a summary of the reports which have been published in the Times during the past week upon the sequence and character of the eruptions from the commencement of the disturbances, the particulars here given being supplementary to those in our last issue.

April. - In the last days of April smoke was noticed on Mont

Pelée and rumbling sounds were heard.

May 3.-Mont Pelée threw out dense masses of steam. Next morning the sky was dark with clouds and ashes. fell on St. Pierre, which by evening was covered a quarter of an inch thick. The mountain was invisible.

May 4.—A sea-breeze swept the ashy fog from St. Pierre, but

at evening dust and scoria fell again.

May 5.—A stream of lava 20 feet high suddenly rushed down the south-western slope of Mont Pelée, and, following the dry bed of the River Blanche, swept away buildings, plantations and people in a tremendous rush to the sea, five miles distant. It was all over in three minutes. The Guérin factory on the beach near the mouth of the river was embedded in lava; only the chimney could be seen. The sea then receded along the western coast a distance of 100 yards, and returning invaded

May 5, St. Vincent .- The lake in the old crater of the

Soufrière became greatly disturbed.

May 6, St. Vincent.—At 2 o'clock in the afternoon the Soufrière began a series of volcanic efforts. Severe earthquakes accompanied these. Terrible noises and detonations succeeded quickly, and at 7 p.m. an immense column of steam issued from

the crater, continuing until midnight.

May 7, St. Vincent.—Terrific explosions occurred, and at 7 a.m. there was another sudden violent escape of steam. This ascended for three hours, when a quantity of material matter At noon three craters appeared to open and it lava. Tremendous detonations followed in began to vomit lava. quick succession, rapidly merging into a continuous roar. The thundering was heard throughout the Caribbean Sea.

A huge cloud in dark dense columns charged with volcanic matter rose to a height of eight miles from the mountain top, and darkness like midnight descended. The sulphurous air was laden with fine dust, and black rain followed the rain of scoriæ,

rocks and stones.

May 8, Fort de France. - St. Pierre was within ten minutes annihilated by a terrible volcanic torrent from Mont Pelée and by a combination of suffocating heat, noxious vapours, a shower of burning cinders, and a discharge of burning stones, which reached even to Fort de France.

May 13, St. Vincent.-The Soufrière is still in eruption. The reports of the explosions, resembling a terrific cannonade, can be heard at a distance of 100 miles. Following the explosions are columns of steam, which rise miles in height, and immense luminous tombs also issue from the crater. Lightning is playing fiercely in the upper sky.

May 15, Fort de France.—Mont Pelée continues in a state of

eruption, but the wind is now carrying the smoke and the greater part of the matter thrown out to the north, thus relieving

the parties of workers at St. Pierre.

May 15, Kingston, Jamaica. - For some days past the atmosphere here has been peculiarly hazy and sombre and the temperature very high, which was thought to be due to dust brought by winds from the volcanoes. This is now proved to be the case, dust being detected falling on the hills, which on microscopic

examination is shown to be volcanic ash.

May 15, St. Vincent.—The entire northern part of the island is covered with ashes averaging 18 inches in depth, and varying from a thin layer at Kingstown to 24 inches or more at George-The streets of Georgetown are encumbered with heaps of ashes like snow-drifts, and several roofs have fallen in from the

weight of the deposits upon them.

May 15, Fort de France. - At intervals Mont Pelée and Lacroix, 1350 metres high, are visible. Now that all the points of eruption can be discerned, seven craters can be seen which seem still active. Yesterday a flow of lava 400 metres wide descended as far as White River, its foaming sound being audible to a great distance. A new crater is perceptible near the shore, pouring out blinding steam. The sea, affected by the disturbances of all the streams, seems itself troubled, invades Prêcheur, and, undermining several houses, adds the ravages of inundation to those of fire. On the other hand, the flow of lava drives back the bay 20 metres and increases the area of devastation.

May 17, St. Vincent. - The bed of the lava in the windward district is still hot. An abyss 500 feet deep by 200 feet wide, which existed between Langly Park and Rabacci, is filled with lava, and the physical features of the mountain side are apparently more beautiful than before the eruption. A curious feature is that the earthquakes were not general. While at Château Belair there were, before the eruption, continuous convulsions every few hours, in Kingstown and Georgetown there were only sixty shocks in four hours.

Although it resulted in fewer fatalities, the eruption of the Soufrière was no less violent than that of Mont Pelée. Sixteen

square miles are covered with lava.

May 19, St. Thomas. - A further serious eruption of Mont Pelée occurred. The search parties at St. Pierre were compelled to leave at once.

May 20, St. Thomas.—Very loud detonations were heard in Dominica, Guadeloupe, Antigua and St. Kitts, and faintly in St. Thomas. At St. Thomas the sounds heard were louder than those of May 7.

There is great reason to hope that a small scientific party from England will be promptly despatched to investigate the terrible volcanic outbursts in the West Indies. The idea was mooted in conversation in the ante-room of the Royal Society at last week's meeting, and Dr. Tempest Anderson, who probably has examined and photographed volcanic phenomena in more regions than any other Englishman, at once expressed his readiness to undertake the journey. Strong hope is entertained that leave of absence may be granted to Dr. Flett, petrologist to the Geological Survey, to join in the investigation, the expenses of which might be defrayed, notwithstanding some technical difficulties, from the Government Grant. It is to be hoped these may be overcome, because no time should be lost, and the party should start by the next boat on May 28. They will naturally go first to St. Vincent and endeavour to obtain trustworthy accounts of the eruption of the Soufrière, to ascertain the changes which have been made in the physical geography of the district, and to collect specimens of the materials ejected, as far as possible in chronological order. But we may hope that they will not restrict themselves to the British Island. The eruption at Mont Pelée in Martinique has been, not only more destructive to life, but also, according to what has been published, more abnormal in its phenomena. So contradictory are the reports that it is at present almost impossible to say what really has happened, beyond the one melancholy fact that a paroxysm in an eruption of unusual violence has caused unwonted devastation and fearful loss of life. By examination on the spot, by conference with other scientific investigators, who may already have reached the island from America or France, rumours may be sifted and evidence obtained from examination of the materials beneath which St. Pierre has been buried. A good collection of them, and other ejectamenta of the volcano, will be of great value. A comparison of those from the two islands may throw light on some interesting