

these roots not only grow from the side which requires support, but seem to take that direction which will likewise furnish soil. When the pandanus forests are in full bloom, the whole air for miles around is scented with the fragrance.

This day, for the first time, I saw a deranged native. He had escaped from his keepers; and I thought he was rather harshly used in what I saw of the affray. There was great difficulty in securing him.

Within a mile or two of the observatory, we met Mr. Drayton, going out on another excursion.

We reached the observatory after an absence of forty-two days, and it was delightful to feel ourselves as it were at home again, after so arduous and fatiguing an expedition. I had the pleasure to hear that every thing had arrived safely, and that all were well. On inquiry being made for the Kanaka that had been missing, I learned that a party of natives had gone to the mountain in search of him, but that little hope was entertained that he would be found.

On the 24th, Lieutenant Carr, Dr. Fox, Lieutenant Case, and several of the other officers, were allowed permission to visit the crater.

On the 25th, 26th, and 27th, we were employed in putting up the pendulum apparatus, and began on the night of the latter to observe coincidences. The three series obtained, to my great astonishment did not agree. I could not account for the discrepancies, for I examined the whole apparatus, agate planes, knife edge, &c., and found them in perfect adjustment, both with plumb-line and level; the scale and telescope were also found correct; the rate of the clock was steady under hourly comparisons with the sidereal clock, and observations of the transits of stars.

Although I had covered the pendulum-house with its tent, I thought that some of the discrepancies occurring might be owing to its want of uniformity of temperature. I therefore, on the 29th, had a grass-house built over both, which remedied any defect of temperature. I then continued to observe, but did not find the results more satisfactory; I therefore took down the whole apparatus, put it up, readjusted it anew, and took another series during the night. These were rather more in accordance. I continued observing through the 30th and 31st, but with no satisfactory results. I then examined the pendulum again with the plumb-line on both sides at the same time: they both coincided with the marks made in London by Mr. Baily and myself, in 1836. I next tried the iron pendulum, and found it to agree also; reversed both pendulums on the knife-edge, but the results were still discrepant.