

Mazatlan on April 4) until off Clarion Island in  $18^{\circ} 22' N.$  and  $114^{\circ} 38' W.$ ; it carried us to the Sandwich Islands on the 5th of May, a distance of 2200 miles. Leaving Tahoorá on the 25th of May, after carrying us 1800 miles, it failed in  $34^{\circ} N.$  and  $172^{\circ} E.$  on June 7.

The regular action of the currents within the influence of the trade-winds is seen at once, but in other parts of the ocean they apparently follow no law. Our results must necessarily be imperfect, and to a certain degree unsatisfactory. Wind appears to have but little effect, even with the prevalent westerly gales between Kamtchatka and the north-west coast of Asia. In one year the mean of the currents amounted to 100 miles S.  $30^{\circ} W.$ , and in the following to 162 miles S.  $54^{\circ} E.$  Such differences, occurring again and again, diminish very much one's faith in the accuracy of the means employed, and in fact, were it not for the regularity of the set in four successive voyages within the influence of the trade-winds, we should be inclined to put the whole on one side as worse than useless, and only calculated to mislead. It must however be remembered that the voyages of one ship, however extended, form little more than a single link in the chain; and further knowledge may clear up contradictions and prove that Nature, here as elsewhere, has nothing contrary.

*Heights ascertained with the Barometer and by Trigonometrical Measurement, by Captain Henry Kellett, C.B., H.M.S. Herald.*

	Feet.
Santiago, Chile . . . . . (Bar.)	1868
Curacaria, on the road to Santiago from Valparaiso (Bar.)	667
Cuesta Prado . . . . . (Bar.)	2585
Cuesta Zapato . . . . . (Bar.)	2008
Casa Blanca . . . . . (Bar.)	846
Mountain of Aconcagua (Tr. Mt. from Valparaiso and Pichidanque) . . . . .	23004
Right Peak of San Martin's Isle, coast of California (Bar.)	548
Back Peak Station, one of the lower peaks in the south-east part of Cerros Island, coast of California (Bar.)	954
Cross Hills, City of Guayaquil, Eastern . . . (Bar.)	247
"                    "                    Middle . . . (Bar.)	326
"                    "                    Western . . . (Bar.)	284