

*Atiu* (Wateoo of Cook) is a raised coral island. Cook (*Voy.*, i. 180, 197) observes that it is "nearly like Mangaia." The land near the sea is only a bank of coral ten or twelve feet high, and steep and rugged. The surface of the island is covered with verdant hills and plains, with no streams. It is described by Williams in his *Missionary Enterprises*. *Mauke* is a low elevated coral island according to Williams, and *Mitiaro* resembles *Mauke*. *Okatutaia* is a low coral island, not more than six or seven feet high above the beach, which is coral sand. It has a light-reddish soil.

*Rurutu* has an elevated coral reef *one hundred and fifty* feet in height, as stated by Stutchbury, and also Williams. Tyerman and Bennet describe the island as having a high central peak with lower eminences, and speak of the coral rock as *two hundred* feet high on one side of the bay and *three hundred* on the other (ii. 102).—Ellis says that the rocks of the interior are in part basaltic, and in part vesicular lava (iii. 393).

With regard to the other islands of these groups, *Manuai*, *Aitutaki*, *Rarotonga*, *Rimetara*, *Tubuai*, and *Raiivavai*, the descriptions by Williams and Ellis appear to show that they have undergone no recent elevation.

*d. Tonga or Friendly Islands, and others in their vicinity.*

All the islands of the Tonga Group about which there are reefs give evidence of elevation: *Tongatabu* and the *Hapaii* islands consist solely of coral, and are elevated atolls.

*Eua*, at the south extremity of the line, has an undulated mostly grassy surface, in some parts eight hundred feet in height. Around the shores, as was seen by us from shipboard, there is an elevated layer of coral reef-rock, twenty feet thick, worn out into caverns, and with many spout-holes. Between the southern shores and the highest part of the island we observed three distinct terraces. Coral is said to occur at a height of *three hundred* feet. From the appearance of the land, we judged that the interior was basaltic; but nothing positive was ascertained with regard to it.

*Tongatabu* (an island visited by us) lies near *Eua*, and is in some parts fifty or sixty feet high, though in general but