

reef, through which there are two entrances for boats, but neither of them is sufficiently wide for the entrance of a vessel. This island is not inhabited, but the natives resort there for the purpose of fishing.

Lieutenant Carr next surveyed the Tova Reef, which was found about equidistant from Totoia, Moala, and Vanua-vatu. He represents it as one of the most dangerous outlying reefs in the group; it is a mile in diameter, and nearly circular: the two former islands are in sight from it, but the latter, being low, was not seen. At low water this reef is quite dry, and it then forms a snug basin, into which there is a shallow passage for boats. The soundings within the reef were found extremely irregular, varying from two to fourteen feet. At high water the reef is entirely covered, and the sea breaks on it at all times.

The next island that claimed Lieutenant Carr's attention was Totoia. Here he discovered a passage leading through the reef, into which he went with the tender, and anchored in fifteen fathoms, half a mile distant from the shore. They found here a canoe from Vavao, manned by Tongese. Totoia is high and much broken; it resembles the rest of the group in its volcanic formation; it is covered with luxuriant foliage, and has many fertile valleys. On the morning of the 20th, in heaving up the anchor in order to proceed with the survey, it broke at the crown, and the flukes were lost: an incident which does not say much for the goodness of the anchorage on the northern side. Lieutenant Carr thinks that this harbour can be useful only as a temporary refuge. It is filled with broken patches, has very irregular soundings, from three to thirty fathoms, and the passages between these patches are quite narrow and tortuous. The weather setting in bad, they were obliged to forego the examination of a small part of the southern portion of the reef for openings: it is believed, however, that none exist.

Among the whites and natives in the group, the natives of this island have the reputation of being more ferocious and savage than any other; they are said to be constantly at war, and are obliged to reside on the highest and most inaccessible peaks, to prevent surprise and massacre. Water and wood may be obtained here in sufficient abundance, but whoever visits the island should be cautious and continually on their guard.

Matuku was the next island. Of this they began the survey on the southeastern side, whence they passed round the southern shore. On the western side they discovered an opening through the reef, through which they passed, and anchored in one of the best harbours in the group. This I have called Carr's Harbour. Its entrance is, perhaps,