

tion. Of course, the waves of the sea may sometimes bury the cocoa-nut as well as cast it ashore. Moreover, under certain conditions, the cocoa-nut may germinate freely without being buried or partially buried, or even without being fixed to the soil. See Tønning's reference to the cocoa-nuts being cast ashore in Norway, *ante*, p. 277.

Sagus sp.

At Malanipa Island, off the coast of Mindanao, Philippines, Mr Moseley found a young sago-palm, which was just beginning to form a stem, washed up just above the ordinary beach-line, and firmly rooted, though in an inclined position, and growing vigorously (Notes by a Naturalist, p. 368).

FRUITS AND SEEDS TAKEN FROM THE CROPS OF FRUIT PIGEONS, SHOT IN THE ADMIRALTY ISLANDS.

In Mr Moseley's Notes, reproduced at p. 229, he records some observations on the part played by carpophagous birds in the dissemination of plants. The collection of fruits he mentions having taken from the crops of a number of a Fruit Pigeon (*Carpophaga rhodinolæma*¹) contains about a dozen species, of which we have identified:—

Elæocarpus sp.

This fruit is the most numerous of all, and perhaps the least nutritious. Within the thin fleshy coat is an exceedingly hard five-celled indehiscent endocarp. The species of *Elæocarpus* are numerous in Tropical Asia, and a few inhabit Polynesia, Australia, and New Zealand.

Soulamea amara, Lam.

Soulamea amara, Lam., *ante*, p. 235; Ann. Wiener. Mus., i. t. 16.

A single empty fruit. This plant is in Dr Guppy's collection from the Solomon Islands, lately received at Kew. It is the *Rex amaroris* of Rumphius (Herb. Amboin., ii. p. 129, t. 41).

Rourea ?

Only one small undeveloped worm-eaten fruit. One species of *Rourea* has been found in the Fijis, and one in North Eastern Australia.

Rubiaceæ ?

The mericarps, as well as the entire fruits of what we regard as a member of the Rubiaceæ, are, next to the *Elæocarpus*, the most numerous in the collection. We have not been able to determine the genus.

¹ Narr. Chall. Exp., vol. i. p. 566, *et passim*, 1885.