

of the lower, measured from the eye, is  $4\frac{1}{2}$  mm., whilst the upper measures 2 mm. only. The basal half of the lower jaw is armed on the sides with strong curved teeth rather distantly placed, the teeth of the upper jaw being smaller, more closely set, nearly uniform in size, and occupying the entire length of the intermaxillaries.

*Exocoetus*, L.

Of this pelagic genus comparatively few specimens were obtained, the majority being young. The fins do not seem to undergo important changes with growth, with the exception of the caudal fin, which I have found in some specimens, not in all, unusually long. The coloration is not a reliable guide in the determination of young examples, for whilst the colours which ornament the mature fish, especially the fins, in some of the species, are not developed in the young, bands and spots of brown or black colour adorn the young of other species, but disappear with age.

The specimens collected by the Challenger are referred to the following species:—

*Exocoetus obtusirostris*, Gthr.

Beside a specimen, 8 inches long, which entered the tow-net at night in the North Atlantic on April 28, 1876, and which undoubtedly belongs to this species, five other examples, from 1 to  $2\frac{1}{4}$  inches long, were obtained on various occasions in the Tropical Atlantic (August 14, 1873; April 28, 1876). These young specimens might be referred with equal right to *Exocoetus evolans*, L.

*Exocoetus spilurus*, Gthr.

This species is known from young specimens only. Two, 1 to  $1\frac{1}{4}$  inches long, were obtained by the Challenger in Gulf-weed, south of Bermuda.

*Exocoetus solandri*, C. V. (Pl. IV. Fig. A).

*Exocoetus solandri*, Cuv. Val., xix. p. 129.

In my general account of the Flying Fishes,<sup>1</sup> I have already shown that the fish from Otaheiti, described by Solander and figured by Parkinson, is a different species from the Flying Fish from the Seychelles, with which Valenciennes had identified it, dedicating it to the memory of Solander. Some time ago I found among a number of East African specimens a Flying Fish which closely agrees with Valenciennes' description, showing at the same time that the specimen which I had formerly referred to *Exocoetus solandri*,

<sup>1</sup> Catal. Fish., vol. vi. pp. 280, 285.