

young *Amphioxus* and several Sternoptychidæ. There was much sea-weed on the surface, STATION 354. and a quantity was collected from a boat.

The following species are recorded from the surface between Station 354 and the coast of Europe (May 7 to 20):—

MAY 7 TO 20,  
1876.

COPEPODA (Brady, Zool. pt. 23).

- Calanus gracilis*, Dana.  
*Pleuromma abdominale* (Lubbock).  
*Euchæta prestandræ*, Philippi.  
,, *pulchra* (Lubbock).

AMPHIPODA (Stebbing, Zool. pt. 67).

- Paraphronima cuivis*, n.sp.

SCHIZOPODA (Sars, Zool. pt. 37).

- Thysanopoda tricuspida*, M.-  
Edwards.  
*Nematoscelis rostrata*, n.g., n.sp.

MACRURA (Spence Bate, Zool. pt. 52).

- Sergestes atlanticus*, M.-Edwards.  
*Amphion provocatoris*, n.sp.

PTEROPODA (Pelseneer, Zool. pts. 58 and 65).

- Pneumonoderma violaceum*, d'Orbigny.  
*Limacina bulimoides* (d'Orbigny).  
,, *lesueuri* (d'Orbigny).  
*Clio (Hyalocylis) striata* (Rang).  
,, (*Styliola*) *subula* (Quoy and  
Gaimard).  
,, *pyramidata*, Linné.  
*Cuvierina columnella* (Rang).

TUNICATA (Herdman, Zool. pt. 76).

- Doliolum ehrenbergi*, Krohn.  
,, sp. (blastozoids).  
*Salpa runcinata - fusiformis*,  
Chamisso—Cuvier.

FISHES (Günther, Zool. pt. 78).

- Scombrosox saurus*, (young).

The tow-nets procured:—*Pyrocystis*, *Orbulina*, compound Radiolaria, Medusæ (*Discophora* ?), *Diphyes*, *Physalia*, and other Siphonophoræ, *Sagitta*, *Cypridina*, Hyperids, Phronimids, *Oxycephalus*, Isopods, *Euphausia*, *Sergestes*, *Amphion*, *Atlanta*, Pteropods, small Cephalopods, *Salpa* (with Coccospheres, young Foraminifera, *Peridinium* and *Pyrocystis*, in the stomachs), and small fishes. Patches of water of a very green colour were passed through on the 13th and 14th, the colour being apparently due to immense numbers of minute spherical organisms (Infusoria), many of them with a yellow-brown sarcode, which moved very rapidly across the field of the microscope, and also to very many minute Protococci. The water was afterwards of a clear blue colour, but on approaching the coast of Spain it again assumed a dark green colour.

The Challenger entered Vigo Bay at 2 P.M. on May 20, and left again at 2 P.M. on May 21, proceeding thence to Portsmouth. The following species of Ostracoda were observed in the mud brought up on the anchor from 11 fathoms in Vigo Bay:—

AT VIGO BAY.