

*Euphausia pellucida* with eggs and Nauplii, *Siriella*, *Lucifer*, *Phyllosoma*, *Sergestes* and larvæ, Brachyurous Zoëæ, *Cleodora* [= *Clio*], *Cuvierina*, *Hyalæa* [= *Cavolinia*], *Styliola*, small Cephalopod with ten arms (over an inch in length), *Appendicularia*, *Fritillaria*, *Doliolum*, *Salpa* (with Coccospheres, &c., in the stomach), *Leptocephalus*, Stomiatiidæ. The tow-nets from the surface were filled with Diatoms and *Noctiluca*, making the water quite thick when placed in the globes, whereas two tow-nets sent down to 900 and 1000 fathoms contained fewer *Noctiluca* and Diatoms, and the water in the globes remained clear. Sometimes the ship appeared to be passing through patches of greenish water, in which *Noctiluca*, numerous Diatoms, and larval forms indicating brackish water were rather abundant, but these were quite absent from the surrounding deep blue water.

The following species are recorded in the Zoological Reports from the surface in the North-West and West Pacific and between New Guinea and Japan, the exact date not being noted:—

## AMPHIPODA (Stebbing, Zool. pt. 67).

*Paraphronima cuivis*, n.sp.

*Phronima* sp. (?).

*Anchylomera* sp. (?).

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

*Acanthosoma brevitelsonis*, n.sp.

„ *tynitelsonis*, n.sp.

„ *dorsispinalis*, n.sp.

*Mastigopus acetiformis*, n.sp.

„ *spiniventralis*, n.sp.

*Sergestes corniculum*, Krøyer.

„ *semicarmis*, n.sp.

*Lucifer typus*, Thompson.

„ *reynaudii*, M.-Edwards.

*Eretmocariss remipes*, n.g., n.sp.

*Amphion* sp. (?), (larvæ).

## PELAGIC HEMIPTERA (White, Zool. pt. 19).

*Halobates sericeus*, Eschscholtz.

„ *germanus*, n.sp.

## CEPHALOPODA (Hoyle, Zool. pt. 44).

*Tremoctopus gracilis* (Eydoux and Souleyet), Tryon (?).

## TUNICATA (Herdman, Zool. pt. 76).

*Cyclosalpa pinnata* (Forskål).

## FISHES (Günther, Zool. pt. 78).

*Holocentrum* sp. (?).

*Histiophorus* sp. (?).

*Lirus paucidens*, n.sp.

*Psenes cyanophrys*, C.V.

*Thynnus thunnina* (C.V.), (young).

*Lophotes cepedianus*, Giorna, (young).

Young Pleuronectid (*Synaptura* ?).

*Scopelus coccoi* (Cocco).

„ *nigro-ocellatus* (Günther).

The Challenger anchored off Yokohama at 5 P.M. on April 11, 1875, remaining there till 2.30 P.M. on May 11, when she sailed for the Inland Sea, anchoring near the entrance