

## ARAFURA SEA.

*Molleria cornuta*, Cleve.  
*Lauderia annulata*, Cleve.  
 „ *moseleyana*, Castracane.  
*Rhizosolenia robusta*, Norman.  
 „ *inulica*, Peragallo.  
 „ *arafurensis*, Castracane.  
 „ *striata*, Greville (= *R. imbricata*,  
 Brightwell).  
 „ *calcar-avis*, Schultze.  
 „ *cochlea*, Brun.  
 „ *styliformis*, Brightwell.  
 „ „ var. *polydactyla*, Peragallo.  
 „ *temperei*, Peragallo.  
 „ *stolterfothii*, Peragallo.  
*Guinardia flaccida*, Peragallo (= *Rhizosolenia*,  
 Castracane).  
*Cerataulina bergonii*, Peragallo.

## COPEPODA (Brady, Zool. pt. 23).

*Calanus valgus*, n.sp.  
*Eucalanus setiger*, n.sp.  
*Undina vulgaris*, Dana.  
*Euchæta prestandrea*, Philippi.  
*Temora dubia* (Lubbock).  
*Centropages furcatus* (Dana).  
*Pontella acuta* (Dana).  
 „ *kröyeri*, n.sp.

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

*Tetrathyrus arafuræ*, n.sp.  
*Amphithyrus* sp. (?).

*Chaetoceros boreale*, Bailey.  
 „ *peruvianum*, Brightwell.  
 „ *lorenzianum*, Cleve.  
 „ *coarctatum*, Lauder.  
 „ *diversum*, Cleve.  
 „ *incisor*, Ralfs.  
 „ *protuberans*, Lauder.  
 „ *javanicum*, Cleve.  
 „ *secundum*, Cleve.  
 „ *compressum*, Lauder.  
 „ *distans*, Cleve.  
 „ sp. (?).  
*Bacteriastrum varians*, Lauder (incl. *B. spirillum*,  
 Castracane).  
 „ *wallichii*, Ralfs, var. *hispida*,  
 Castracane.  
 „ *brevispinum*, Castracane.

## SCHIZOPODA (Sars, Zool. pt. 37).

*Euphausia latifrons*, n.sp.  
*Siriella gracilis*, Dana.

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

*Lucifer typus*, Thompson.  
 „ *reynaudii*, M.-Edwards.

## PTEROPODA (Pelseneer, Zool. pt. 65).

*Clio (Creseis) acicula* (Rang).

The tow-nets were filled with a yellowish slime, which proved to be a mass of Diatoms, having the same general aspect as those obtained on March 3, 1874, towards the Antarctic, but the species were different; *Rhizosolenia* was the most abundant. The Diatoms were sometimes massed together, looking like some of the compound Radiolaria; one jelly-mass observed seemed to be covered with small cylindrical forms, containing inside of these two or three lanceolate or fusiform varieties, which exhibited motions. The masses were of a brown-green colour, and were sufficiently numerous to colour the water to some extent. Many of the Diatoms had attached to them *Epistylis*, *Carchesium*, and *Vorticella* with contractile threads, *Stentor* sessile on the large forms, all living and very beautiful under the microscope. *Rhizosolenia* became less plentiful, and species of *Coscinodiscus* more abundant, on approaching the Arrou Islands, and