

were two hooks common to all *Echiuri*, but there were none at the posterior end, which was separated from the rest of the body by a ring of larger papillæ, and ended in a point, on which was the anus. The ganglion with nerves going into the anterior portion was clearly visible; there were four ovaria. The animal is closely allied to *Thalassema* as well as to *Echiurus*, holding a median position between those two genera." ARAFURA SEA.

Surface Organisms.—The following species are recorded from the surface of the Arafura Sea :— ORGANISMS FROM SURFACE-NETS.

DIATOMACEÆ.—The following species of Diatoms were observed by Mr. Comber.

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| <i>Navicula distans</i> , Ralfs. | <i>Hyalodiscus stelliger</i> , Bailey. |
| „ <i>arenaria</i> , Donkin. | <i>Coscinodiscus eccentricus</i> , Ehrenberg. |
| „ <i>formosa</i> , Gregory. | „ <i>lineatus</i> , Ehrenberg. |
| „ <i>bombus</i> , Kutzing. | „ <i>curvatulus</i> , Grunow. |
| „ <i>nitescens</i> , Ralfs. | „ „ var. <i>recta</i> , Rattray. |
| „ <i>aspera</i> , Ehrenberg. | „ <i>normanni</i> , Gregory. |
| „ „ var. <i>intermedia</i> , Grunow. | „ <i>subtilis</i> , Ehrenberg. |
| „ „ var. <i>pygmaea</i> (= <i>Stauroneis</i> | „ <i>concinus</i> , W. Smith, var. <i>arafurensis</i> , |
| <i>pygmaea</i> , Castracane). | Rattray (= <i>C. papuanus</i> , Castracane). |
| „ <i>clepsydra</i> , Donkin. | „ <i>concinus</i> , var. <i>jonesiana</i> , Rattray. |
| <i>Pleurosigma strigosum</i> , W. Smith. | „ <i>radiatus</i> , Ehrenberg. |
| „ <i>japonicum</i> , Castracane. | „ <i>crassus</i> , Bailey. |
| „ <i>elegantissimum</i> , Castracane. | „ <i>nodulifer</i> , Janisch. |
| „ <i>macilentum</i> , Peragallo. | „ <i>oculus-iridis</i> , Ehrenberg. |
| „ <i>naviculaceum</i> , Brebisson, var. | „ <i>nobilis</i> , Grunow. |
| <i>arafurensis</i> , Castracane. | „ <i>janischii</i> , A. Schmidt, var. <i>arafurensis</i> , |
| <i>Amphiprora alata</i> , Kutzing. | Grunow. |
| <i>Nitzschia constricta</i> , Gregory, and forma <i>parva</i> . | „ <i>gigas</i> , Ehrenberg. |
| „ <i>mammalis</i> , Castracane. | „ <i>gazellæ</i> , Janisch (= <i>Ethmodiscus</i> sp., |
| „ <i>acuminata</i> , Grunow. | Castracane). |
| „ <i>dubia</i> , W. Smith. | <i>Ethmodiscus tympanum</i> , Castracane. |
| „ <i>socialis</i> , Gregory, var. <i>indica</i> , Castracane. | <i>Actinoptychus trilingulatus</i> , Greville. |
| „ <i>sigma</i> , W. Smith. | „ <i>areolatus</i> , A. Schmidt. |
| „ <i>longissima</i> , Ralfs, var. <i>reversa</i> , Grunow. | „ <i>undulatus</i> , Ehrenberg. |
| <i>Thalassiothrix nitzschiioides</i> , Grunow. | <i>Actinocyclus concentricus</i> , Rattray. |
| „ <i>longissima</i> , Cleve and Grunow. | „ <i>complanatus</i> , Castracane. |
| „ <i>frauenfeldii</i> , Grunow, var. <i>tenella</i> , | <i>Palmeria hardmaniana</i> , Greville. |
| Grunow. | <i>Hemiaulus chinensis</i> , Greville, forma <i>excentrica</i> . |
| <i>Synedra philippinarum</i> , Castracane. | <i>Biddulphia chinensis</i> , Greville. |
| <i>Surirella fastuosa</i> , Ehrenberg. | „ <i>indica</i> , Roper. |
| <i>Campylodiscus biangulatus</i> , Greville. | <i>Triceratium distinctum</i> , Janisch. |
| <i>Cyclotella striata</i> , Grunow, var. <i>baltica</i> , Grunow. | „ <i>scitulum</i> , Brightwell, forma <i>quadrata</i> . |
| <i>Paralia sulcata</i> , Cleve. | „ <i>muricatum</i> , Brightwell. |
| <i>Stephanopyxis corona</i> , Grunow. | <i>Bellerochia malleus</i> , Van Heurck (= <i>Triceratium</i> , |
| „ <i>superba</i> , Grunow. | Brightwell). |
| „ <i>palmeriana</i> , Grunow. | <i>Eucampia zodiacus</i> , Ehrenberg. |
| „ <i>hyalina</i> , Grunow. | „ „ var. <i>nodosa</i> , Grunow. |