

*Rhizosolenia inermis*, Castracane.  
*Dactyliosolen antarcticus*, Castracane.  
*Chaetoceros remotum*, Cleve and Grunow [= *Chaetoceros janischianum*, and var. *lata*, Castracane].  
*Synedra lanceolata*, Castracane.  
*Diatoma rhombicum*, O'Meara, var. *oceanica*, Rattray.

*Corethron criophilum*, Castracane.  
 " " var. *tumescens*, Rattray, MS.  
 " *murrayanum*, Castracane.  
 " *hispidum*, Castracane.  
 " *pennatum* [= *Actiniscus*, Grunow].  
*Coscinodiscus lunæ*, Ehrenberg [= *Coscinodiscus cycloteres*, Castracane].  
*Actinocyclus oliveranus*, O'Meara.

The following is a complete list of the species observed by Mr. Rattray and Mr. Comber:—

*Navicula subtilis* (Gregory) [= *Pinnularia criophila*, Castracane].  
*Pleurosigma directum*, Cleve.  
*Thalassiothrix longissima*, Grunow, var. *antarctica*, Cleve and Grunow [= *Synedra thalassiothrix*, Cleve in parte].  
 " *nitzschioides*, Grunow, var. *lanceolata*, Grunow.  
*Synedra lanceolata*, Castracane.  
 " *filiformis*, Grunow.  
*Trachysphenia australis*, Petit, var. *antarctica* (Schwarz) [= *Fragilaria antarctica*, Castracane].  
*Fragilaria* (?) an *Terebraria* (?) sp., Castracane.  
 " *dubia*, Grunow.  
*Diatoma rhombicum*, O'Meara, var. *oceanica*, Rattray.  
*Nitzschia constricta*, Gregory, var. *antarctica*, Rattray.  
 " " var. *similis*, Grunow.  
*Rhizosolenia styliformis*, Brightwell.  
 " *furcata*, Rattray, MS.  
 " *setigera*, Brightwell.  
*Corethron criophilum*, Castracane.  
*Biddulphia weissflagii*, Grunow.  
*Hemiaulus antarcticus*, Ehrenberg [= *Eucampia balaustium*, and var. *minor*, Castracane].  
*Asteromphalus hookeri* (Ehrenberg), Ralfs.  
 " forma *buchii* (Ehrenberg).  
 " forma *humboldtii* (Ehrenberg).  
 " forma *cuvierii* (Ehrenberg).  
 " forma *denarius* (Janisch).  
 " *darwinii*, Ehrenberg.  
 " *brookei*, Bailey.  
 " *antarcticus*, Castracane.  
*Hyalodiscus radiatus*, O'Meara, var. *arctica*, Grunow.  
*Hemidiscus cuneiformis*, Wallich.  
 " sp. (?).

*Triceratium arcticum*, Brightwell, var. *kerquelenensis*, Grunow.  
*Actinocyclus oliveranus*, O'Meara.  
*Coscinodiscus margaritaceus*, Castracane.  
 " *lunæ*, Ehrenberg [= *Coscinodiscus cycloteres*, Castracane].  
 " *grandis*, Rattray, MS.  
 " var. *sparsa*, Rattray, MS.  
 " *excentricus*, Ehrenberg.  
 " *atlanticus*, Castracane, and var.  
 " *lineatus*, Ehrenberg.  
 " *lentiginosus*, Janisch.  
 " var. *maculata*, Grunow.  
 " *subtilis*, Ehrenberg.  
 " var. *glacialis*, Grunow.  
 " *tumidus*, Janisch.  
 " var. *fasciculata*, Rattray.  
 " *radiatus*, Ehrenberg.  
 " *decrescens*, Grunow, var. *polaris*, Grunow.  
 " var. *repleta*, Grunow.  
 " *fasciculatus*, A. Schmidt.  
 " *griseus*, Greville, var. *gallopagensis*, Grunow (?).<sup>1</sup>  
 " *curvatulus*, Grunow, var. *maculata*, Rattray, MS.  
 " var. *elegans*, Rattray, MS.  
 " var. *subocellata*, Grunow.  
 " *tuberculatus*, Greville, var. *excentrica*, Rattray, MS.  
 " var. *antarctica*, Rattray, MS.  
 " *elegans*, Greville.  
 " *robustus*, Greville.  
 " var. *minor*, Rattray, MS.  
 " *möllerii*, A. Schmidt, var. *antarctica*, Rattray.

<sup>1</sup> A few specimens occur in the ooze which, though not absolutely identical with this form as figured by van Heurck (Synop. d. Diat. d. Belg.), are yet more closely allied to it than to any other.