

Pleurosigma strigilis, W. Smith.
Rhoikosigma reichardtiana, Grunow.
Toxonidea insignis, Donkin.
Cocconeis scutellum, Ehrenberg, and var.
 „ *dirupta*, Gregory.
 „ *interrupta*, Grunow.
 „ *pseudomarginata*, Gregory.
 „ *grantiana*, Greville.
Orthoncis splendida, Grunow.
 „ *coronata* (= *Cocconeis*, Brightwell).
Nitzschia marina, Grunow.
 „ *insignis*, Gregory.
 „ *plana*, W. Smith.
 „ *panduriformis*, Gregory.
Surirella fastuosa, Ehrenberg.
 „ *macraeana*, Greville.
 „ *lata*, W. Smith.
Campylodiscus thuretii, Brebisson.
 „ *ralfsii*, W. Smith.
 „ *hodgsonii*, W. Smith.
 „ *hibernicus*, Ehrenberg.
Synedra superba, Kutzing.
 „ *gaillionii*, Ehrenberg.
 „ *pulchella*, Kutzing.
 „ *baculus*, Gregory.
Achnanthes brevipes, Agardh.
Rhabdonema adriaticum, Kutzing.
Grammatophora serpentina, Ehrenberg.
 „ *marina*, Kutzing, and var.
 „ *macilenta*, W. Smith.
Climacosphenia moniligera, Ehrenberg.
Dimeregramma minus, Ralfs.
Epithemia turgida, Kutzing.
 „ *gibba*, Kutzing.
Cerataulus turgidus, Ehrenberg.
 „ *lævis*, Ralfs.
Biddulphia mobiliensis, Grunow.
 „ *pulchella*, Gray.
 „ *tuomeyii*, Roper.
 „ *aurita*, Brebisson.
Triceratium atlanticum, Castracane.
 „ *antidiluvianum*, van Heurck.
 „ *arcticum*, Brightwell.
 „ „ var. *japonica minor*, A. Schmidt.

Triceratium nobilis (= *Amphitetras*, Greville).
 „ *serratum*, Wallich.
 „ *pentacrinus*, Wallich, forma *tetragona*.
 „ *flexuosum*, Greville.
 „ *alternans*, Bailey.
 „ *irregulare*, Greville.
Hemidiscus cuneiformis, Wallich.
Auliscus cælatus, Bailey.
Aulacodiscus petersii, Ehrenberg.
Stictodiscus parallelus (= *Triceratium*, Greville),
 forma *hexagona*.
Coscinodiscus lineatus, Ehrenberg.
 „ *anguste-lineatus*, A. Schmidt.
 „ *blandus*, A. Schmidt.
 „ *eccentricus*, Ehrenberg.
 „ *nitidus*, Gregory.
 „ „ var. *sparsa*, Rattray.
 „ *curvatulus*, Grunow.
 „ „ var. *directa*, Rattray.
 „ „ „ *subocellata*, Grunow.
 „ *subtilis*, Ehrenberg.
 „ *tuberculatus*, Greville.
 „ *concavus*, Gregory.
 „ *centralis*, Ehrenberg.
 „ *nodulifer*, Janisch, and var.
 „ *decrescens*, Grunow.
 „ *radiatus*, Ehrenberg.
 „ „ var. *minor*, Rattray.
 „ *oculus-iridis*, Ehrenberg.
 „ *marginatus*, Ehrenberg.
 „ *concinus*, W. Smith.
 „ *asteromphalus*, Ehrenberg.
 „ *elegans*, Greville.
Stoschia admirabilis, Janisch.
Ethmodiscus sp. (?).
Stephanopyxis turris, Ralfs.
Asteromphalus brookei, Bailey.
 „ *roperianus*, Ralfs.
Actinocyclus murrayensis, Castracane.
Actinoptychus splendens, Ralfs.
 „ *vulgaris*, Schumann.
Hyalodiscus subtilis, Bailey.
 „ *lævis*, Ehrenberg.
Bacteriastrum varians, Lauder.

STATION 78.

Proximity to land is indicated by the occurrence of three fresh-water species. Of these, two were found by Grunow in marine soundings off Franz Josef's Land.