

STATION 75.

Nitzschia marina, Grunow.
 „ *panduriformis*, Gregory.
Surirella fastuosa, Ehrenberg.
 „ *macraeana*, Greville.
 „ *patens*, A. Schmidt.
 „ *lata*, W. Smith.
 „ *laxa*, Janisch.
Campylodiscus thuretii, Brebisson.
 „ *ralfsii*, W. Smith.
Synedra gaillionii, Ehrenberg.
 „ *superba*, Kutzing.
Grammatophora undulata, Ehrenberg.
 „ *marina*, Kutzing, var. *subundulata*,
 Grunow.
 „ *serpentina*, Ehrenberg.
Rhabdonema adriaticum, Kutzing.
Cerataulus turgidus, Ehrenberg.
Biddulphia pulchella, Gray.
Triceratium atlanticum, Castracane.
 „ *antidiluvianum*, Van Heurek.
 „ *arcticum*, Brightwell, and var.
 „ *serratum*, Wallich, forma *tetragona*.
 „ *formosum*, Brightwell.

Triceratium pentacrinus, Wallich.
Hemidiscus cuneiformis, Wallich.
Stictodiscus parallelus (= *Triceratium*, Greville),
 forma *hexagona*.
Coscinodiscus lineatus, Ehrenberg.
 „ *leptopus*, Grunow.
 „ *anguste-lineatus*, A. Schmidt.
 „ *nitidus*, Gregory.
 „ *subtilis*, Ehrenberg.
 „ *atlanticus*, Castracane.
 „ *nodulifer*, Janisch.
 „ *decreescens*, Grunow.
 „ *marginatus*, Ehrenberg.
 „ *radiatus*, Ehrenberg.
 „ *asteromphalus*, Ehrenberg.
Ethmodiscus sp. (?).
Hyalodiscus scoticus, Grunow.
 „ *subtilis*, Bailey.
 „ *lævis*, Ehrenberg.
Asteromphalus brookei, Bailey.
Actinoptychus splendens, Ralfs.
Actinocyclus sparsus (= *Eupodiscus*, Gregory).
 „ *japonicus*, Castracane.

STATION 76.

Station 76 (Sounding 140), off the Azores (see Chart 10 and Diagram 3).

July 3, 1873; lat. 38° 11' N., long. 27° 9' W.

Temperature of air at noon, 71°·8; mean for the day, 69°·9.

Temperature of water:—

Surface,	70·0	500 fathoms,	47·3
100 fathoms,	56·5	600 „	45·2
200 „	53·6	700 „	43·1
300 „	51·6	800 „	41·2
400 „	49·5	Bottom,	40·0

Density at 60° F. at surface, 1·02699; 150 fathoms, 1·02662; bottom, 1·02688.

Depth, 900 fathoms; deposit, Pteropod Ooze, containing 52·22 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 9.15 A.M. shortened and furled sails, and got up steam to sound and dredge. Sounded in 900 fathoms. Put over dredge. At 2 P.M. obtained temperatures at intervals of 100 fathoms down to the bottom. Hove up dredge with some specimens, and put it over again. At 4.15 P.M. hove up dredge, which contained a few specimens. At 6 P.M. completed temperatures, and at 7.30 P.M. made all plain sail.

Distance from St. Michael's at noon, 67 miles.