

Surface Organisms.—The following species are recorded from the surface at this Station :—

STATION 239.
ORGANISMS FROM
SURFACE-NETS.

RADIOLARIA (Haeckel, Zool. pt. 40).

Sphaerzoum armatum, Haeckel.
Xiphacantha platyptera, Haeckel.
Orophaspis astrolonche, Haeckel.
,, *tessaraspis*, Haeckel.
Phractopelta dorataspis, Haeckel.
Dorypelta lithoptera, Haeckel.
Sethophormis umbrella, Haeckel.
Sethoconus trochus, Haeckel.

Theocampe cryptoprora, Haeckel.
Auloceros furcosus, Haeckel.
Sagoplegma pyramidophora, Haeckel.
Aulosphaera bifurca, Haeckel.
Medusetta craspedota, Haeckel.
Castanidium bethelli, Haeckel.
Calodendrum flabellatum, Haeckel.

TUNICATA (Herdman, Zool. pt. 76).

Doliolum challengeri, n.sp.

In addition, the following are recorded in the note-books:—Diatoms (very few), *Pyrocystis*, *Globigerina*, *Orbulina*, *Hastigerina*, *Pullenia*, and other Foraminifera (abundant), Siphonophoræ, *Sagitta*, *Saphirina* and other Copepods, *Phronima*, Hyperids, *Euphausia*, *Lucifer*, *Sergestes* larvæ, Pteropods and other small shells, *Appendicularia*, small fishes. The absence of *Noctiluca*, *Daphnia*, brackish-water Diatoms, and the larvæ of shallow-water organisms, indicated that the ship had again entered truly pelagic waters.

Station 240 (Sounding 382), Yokohama to Sandwich Islands (see Chart 36 and Diagram 17). STATION 240.

June 21, 1875; lat. 35° 20' N., long. 153° 39' E.

Temperature of air at noon, 67°·3; mean for the day, 68°·4.

Temperature of water:—

Surface,	64·8	225 fathoms,	40·1
10 fathoms,	61·5	250 "	40·0
20 "	58·5	275 "	40·0
30 "	56·0	300 "	39·6
40 "	54·2	400 "	38·2
50 "	52·4	500 "	37·4
60 "	51·0	600 "	36·9
70 "	49·6	700 "	36·4
80 "	48·3	800 "	36·3
90 "	47·0	900 "	36·2
100 "	45·8	1000 "	36·0
115 "	44·0	1100 "	35·9
125 "	43·2	1200 "	35·7
130 "	42·8	1300 "	35·5
150 "	41·4	1400 "	35·3
175 "	40·6	1500 "	35·1
200 "	40·2	Bottom,	34·9