

## STATION 242.

At 3.10 P.M. shortened and furled sails, and got up steam. At 4 P.M. sounded in 2575 fathoms. Obtained serial temperatures down to 1500 fathoms. At 6.30 P.M. completed temperatures and made sail to a good southerly breeze.

Distance at noon from Honolulu, 2311 miles. Made good 173 miles. Amount of current 13 miles, direction N. 25° E.

ORGANISMS FROM  
SURFACE-NETS.

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

PTEROPODA (Pelseneer, Zool. pt. 58).

*Notobranchæa inopinata*, n.sp.

TUNICATA (Herdman, Zool. pt. 76).

*Doliolum challengerii*, n.sp.

In addition, the following are recorded in the note-books from the surface and down to 60 fathoms:—*Pyrocystis*, *Peridinium tripos*, *Globigerina*, *Orbulina*, *Collosphæra* one specimen of *Challengeria* and other Radiolaria, *Sagitta*, *Cypridina*, *Saphirina* and other Copepods, Hyperids, Phronimids, *Euphausia*, small *Ethella*-like shells, and Pteropods

## STATION 243.

**Station 243** (Sounding 385), Yokohama to Sandwich Islands (see Chart 36 and Diagram 17).

June 26, 1875; lat. 35° 24' N., long. 166° 35' E.

Temperature of air at noon, 73°·8; mean for the day, 72°·8.

Temperature of water :—

Surface, . . . . .	71·0	300 fathoms, . . . . .	45·0
10 fathoms, . . . . .	70·3	400 " . . . . .	40·5
20 " . . . . .	65·6	500 " . . . . .	39·1
30 " . . . . .	63·9	600 " . . . . .	38·1
50 " . . . . .	60·4	700 " . . . . .	37·2
75 " . . . . .	59·3	800 " . . . . .	36·6
100 " . . . . .	58·3	900 " . . . . .	36·1
125 " . . . . .	57·2	1000 " . . . . .	35·9
150 " . . . . .	56·2	1100 " . . . . .	35·8
175 " . . . . .	55·1	1200 " . . . . .	35·7
200 " . . . . .	53·5	1300 " . . . . .	35·5
225 " . . . . .	52·0	1400 " . . . . .	35·4
250 " . . . . .	49·6	1500 " . . . . .	35·3
275 " . . . . .	47·2	Bottom, . . . . .	35·0

Density at 60° F. :—

Surface, . . . . .	1·02562	200 fathoms, . . . . .	1·02552
50 fathoms, . . . . .	1·02570	300 " . . . . .	1·02525
100 " . . . . .	1·02559	400 " . . . . .	1·02542

Depth, 2800 fathoms; deposit, Red Clay.