

The organisms in the tow-nets to-day showed that the ship had entered another region, where the organisms had a more tropical character, as shown by the re-appearance of *Pyrocystis*, *Ethmodiscus*, several species of Copepods, and other organisms. The surface temperature, it will be observed, was several degrees higher than at the last three or four Stations.

STATION 254.

Station 255 (Sounding 397), Yokohama to Sandwich Islands (see Chart 36 and Diagram 19).

STATION 255.

July 19, 1875 ; lat. 32° 28' N., long. 154° 33' W.

Temperature of air at noon, 75°·8 ; mean for the day, 73°·2.

Temperature of water :—

Surface,	74·0	400 fathoms,	39·2
25 fathoms,	62·5	500 "	38·1
50 "	60·3	600 "	37·4
75 "	57·6	700 "	36·8
100 "	55·4	800 "	36·4
125 "	53·3	900 "	36·1
150 "	51·4	1000 "	35·8
175 "	49·8	1100 "	35·6
200 "	47·9	1200 "	35·4
225 "	46·6	1300 "	35·2
250 "	45·0	1400 "	35·0
275 "	43·5	1500 "	35·0
300 "	42·4	Bottom,	35·0

Density at 60° F. at surface, 1·02602 ; 2100 fathoms, 1·02552 ; bottom, 1·02569.

Depth, 2850 fathoms ; deposit, Red Clay, containing no carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 1.15 P.M. stopped to sound. At 2 P.M. sounded in 2850 fathoms. At 3 P.M. obtained serial temperatures down to 1500 fathoms. Lowered second whaler for surface collecting, some interesting specimens being procured. At 4.30 P.M. completed temperatures and proceeded under steam. Albatrosses still numerous about the ship.

Honolulu distant at noon, 702 miles. Made good 132 miles. Amount of current 19 miles, direction S. 5° E.

Surface Organisms.—The following species are recorded from the surface in the vicinity of this Station :—

ORGANISMS FROM
SURFACE-NETS.

SIPHONOPHORÆ (Haeckel, Zool. pt. 77).

Porpita fungia, n.sp.

MACRURA (Spence Bate, Zool. pt. 52).

Sergestes ancylops, Krøyer.