

shells, *Glaucus*, *Doliolum*, *Salpa*, *Appendicularia*. The ship passed through red and white-coloured patches of water, and about the same time a great change was noticed in the temperature of the surface water, which fell from 22° to 18° C.; the patches were so noticeable that the hand lead was cast to see if there were not a shoal. The discoloration seemed to be due to Copepods, some of which were of a bright red colour, similar to what was observed in the Southern Indian Ocean, while others belonging to a different species were quite pale, and many of them dead.

STATION 240.

Willemoes-Suhm writes: "The surface abounded with *Hyperia*, as on the passage from Bermuda to Halifax. I found a minute Zoëa, notable for the insertion of the eyes deeply into the carapace, which has been figured by Dohrn from the Indian Ocean; after a careful search I failed to find any further specimens."

June 22, 1875.

Strong southerly breeze during the night and early morning. At 3 A.M. shortened sail, and at 4 A.M. put over trawl with two tow-nets attached. When about 1900 fathoms had been veered, the trawl-rope fouled the screw and parted, the trawl and line being lost. In the evening it became calm and many Copepods and specimens of *Doliolum* were obtained in the surface-nets.

Distance at noon from Honolulu, 2543 miles. Made good 140 miles. Amount of current 20 miles, direction N. 32° E.

Station 241 (Sounding 383), Yokohama to Sandwich Islands (see Chart 36 and Diagram 17). STATION 241.

June 23, 1875; lat. 35° 41' N., long. 157° 42' E.

Temperature of air at noon, 70°·3; mean for the day, 69°·8.

Temperature of water:—

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|-----------------------|------|------------------------|------|
| Surface, | 69·2 | 400 fathoms, | 39·8 |
| 25 fathoms, | 64·7 | 500 " | 38·4 |
| 50 " | 62·5 | 600 " | 37·7 |
| 75 " | 60·8 | 700 " | 37·2 |
| 100 " | 59·3 | 800 " | 36·9 |
| 125 " | 57·5 | 900 " | 36·6 |
| 150 " | 55·5 | 1000 " | 36·3 |
| 175 " | 53·1 | 1100 " | 36·0 |
| 200 " | 50·7 | 1200 " | 35·7 |
| 225 " | 48·7 | 1300 " | 35·4 |
| 250 " | 46·3 | 1400 " | 35·1 |
| 275 " | 44·0 | 1500 " | 35·1 |
| 300 " | 42·4 | Bottom, | 35·1 |