

## STATION 222.

small Cephalopods, *Appendicularia*, *Doliolum*, *Balistes* and other small fishes. On the 18th a female shark (*Carcharias lamia*), about 7 feet long, was caught. The specimens of *Halobates*, *Balistes*, &c., were picked up by Mr. Murray when away in the dingey on the 18th. *Collosphæra* was observed in patches in considerable abundance, but on the whole the water was exceedingly pure, and the white bag of the tow-net could be seen at a great depth.

## STATION 223.

**Station 223** (Sounding 361), Admiralty Islands to Yokohama (see Chart 31 and Diagram 16).

March 19, 1875; lat. 5° 31' N., long. 145° 13' E.

Temperature of air at noon, 83°·5; mean for the day, 81°·1.

Temperature of water:—

|                       |      |                        |      |
|-----------------------|------|------------------------|------|
| Surface, . . . . .    | 82·0 | 180 fathoms, . . . . . | 48·8 |
| 10 fathoms, . . . . . | 81·7 | 190 " . . . . .        | 48·2 |
| 20 " . . . . .        | 81·7 | 200 " . . . . .        | 47·7 |
| 30 " . . . . .        | 81·7 | 300 " . . . . .        | 45·8 |
| 40 " . . . . .        | 81·7 | 400 " . . . . .        | 44·3 |
| 50 " . . . . .        | 81·7 | 500 " . . . . .        | 42·8 |
| 60 " . . . . .        | 81·7 | 600 " . . . . .        | 41·3 |
| 70 " . . . . .        | 81·7 | 700 " . . . . .        | 40·0 |
| 80 " . . . . .        | 81·7 | 800 " . . . . .        | 38·8 |
| 90 " . . . . .        | 79·0 | 900 " . . . . .        | 37·7 |
| 100 " . . . . .       | 70·9 | 1000 " . . . . .       | 36·8 |
| 110 " . . . . .       | 63·5 | 1100 " . . . . .       | 36·1 |
| 120 " . . . . .       | 59·5 | 1200 " . . . . .       | 35·7 |
| 130 " . . . . .       | 56·3 | 1300 " . . . . .       | 35·5 |
| 140 " . . . . .       | 53·8 | 1400 " . . . . .       | 35·5 |
| 150 " . . . . .       | 51·6 | 1500 " . . . . .       | 35·5 |
| 160 " . . . . .       | 50·0 | Bottom, . . . . .      | 35·5 |
| 170 " . . . . .       | 49·3 |                        |      |

Density at 60° F. :—

|                       |         |                        |         |
|-----------------------|---------|------------------------|---------|
| Surface, . . . . .    | 1·02595 | 200 fathoms, . . . . . | 1·02566 |
| 10 fathoms, . . . . . | 1·02587 | 300 " . . . . .        | 1·02556 |
| 20 " . . . . .        | 1·02575 | 400 " . . . . .        | 1·02567 |
| 50 " . . . . .        | 1·02589 | Bottom, . . . . .      | 1·02578 |
| 100 " . . . . .       | 1·02569 |                        |         |

Depth, 2325 fathoms; deposit, Globigerina Ooze, containing 52·47 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).