

## Temperature of water :—

Surface, . . . . .	79.0	180 fathoms, . . . . .	54.5
10 fathoms, . . . . .	78.9	190 " . . . . .	53.5
20 " . . . . .	78.8	200 " . . . . .	52.8
30 " . . . . .	78.7	300 " . . . . .	45.1
40 " . . . . .	78.6	400 " . . . . .	41.8
50 " . . . . .	78.5	500 " . . . . .	39.9
60 " . . . . .	77.9	600 " . . . . .	38.7
70 " . . . . .	77.0	700 " . . . . .	37.7
80 " . . . . .	75.7	800 " . . . . .	36.9
90 " . . . . .	73.8	900 " . . . . .	36.3
100 " . . . . .	71.3	1000 " . . . . .	36.0
110 " . . . . .	68.0	1100 " . . . . .	35.7
120 " . . . . .	64.6	1200 " . . . . .	35.5
130 " . . . . .	62.1	1300 " . . . . .	35.5
140 " . . . . .	60.2	1400 " . . . . .	35.5
150 " . . . . .	58.3	1500 " . . . . .	35.5
160 " . . . . .	56.8	Bottom, . . . . .	35.5
170 " . . . . .	55.6		

## Density at 60° F. :—

Surface, . . . . .	1.02595	200 fathoms, . . . . .	1.02556
25 fathoms, . . . . .	1.02570	300 " . . . . .	1.02539
50 " . . . . .	1.02580	400 " . . . . .	1.02539
100 " . . . . .	1.02599		

Depth, 2300 fathoms ; deposit, Red Clay, containing 6.11 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4 A.M. got up steam. At 5.45 A.M. shortened and furled sails, and proceeded under steam to sound. At 6.30 A.M. sounded in 2300 fathoms. At 8 A.M. put trawl over, veering 3000 fathoms. At 10.30 A.M. obtained serial temperatures down to 1500 fathoms. The carbonic acid was determined in water from 200 fathoms, and amounted to 33.8 milligrammes per litre. At 1 P.M. commenced heaving in trawl, which came up at 3.20 P.M. with only a few pumice-stones, fragments of *Brisinga*, and two small fishes. Made sail and proceeded. Boobies, noddies, and boatswain birds were seen from the ship.

Distance at noon from No Sima lighthouse, 1220 miles. Made good 99 miles. Amount of current 13 miles, direction S. 77° W.

The following species are recorded from the trawl at this Station :—

ANIMALS FROM  
TRAWL.

ASTEROIDEA (Sladen, Zool. pt. 51).

*Freyella attenuata*, n.sp. Fragments ; obtained at no other locality.

FISHES (Günther, Zool. pt. 57).

*Gonostoma microdon*, n.sp. One specimen ; for distribution see Station 23.

Another small transparent fish recorded in the Station-book.