

## NEW ZEALAND.

In addition, the Station-book records from Station 167A, 10 fathoms:—*Balanus*, Gammarid, Isopod parasitic on Ophiurids, Sphæromidæ, *Alcyonium*, *Cancer*, *Gelasimus*, Polyzoa (*Caberea*), compound Ascidian, and egg-capsules.

In the foregoing list about 79 species are recorded, of which 24 are new to science, including representatives of 2 new genera; 19 of the new species were not obtained elsewhere.

With reference to the dredgings in Queen Charlotte Sound (Station 167A, 10 fathoms), Willemoes-Suhm writes: "The facies of the fauna was more tropical than that of the Port Jackson fauna, which is easily explained, seeing that the Polynesian fauna probably extends to the shores of New Zealand; we are now in the periphery of another geographical centre. *Voluta vespertilio*, *Murex*, and *Typhis*, as well as the fine *Oliva*, may be quoted in favour of this. The egg-capsules brought up belong probably to a large *Buccinum*, in which genus it is known that the young ones leave the egg-capsules after having lost their velum. This must be the case here, as one finds in each capsule three to six young shells having the prodigious length of 4 mm. The Crustacea were remarkable only for the presence of *Gelasimus*, the members of which generally live on the beach, or even in holes on the land, and come only to the sea to deposit their eggs."

## STATION 168.

**Station 168** (Sounding 290), New Zealand to Tongatabu (see Chart 27 and Diagram 12).

July 8, 1874; lat. 40° 28' S., long. 177° 43' E.

Temperature of air at noon, 56°·8; mean for the day, 56°·7.

Temperature of water:—

Surface, . . . . .	57·2	200 fathoms, . . . . .	51·7
25 fathoms, . . . . .	56·5	300 " . . . . .	48·2
50 " . . . . .	56·5	400 " . . . . .	45·4
75 " . . . . .	56·5	500 " . . . . .	43·7
100 " . . . . .	55·7	600 " . . . . .	42·1
125 " . . . . .	54·8	Bottom, . . . . .	37·2
150 " . . . . .	53·9		

Density at 60° F. at surface, 1·02622; bottom, 1·02584.

Depth, 1100 fathoms; deposit, Blue Mud, containing 10·71 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 8.40 A.M. observed land to the N.W. At 9.30 A.M. got up steam. At 10 A.M. shortened and furled sails, and sounded in 1100 fathoms. At 11 A.M. put over trawl.