

<p><i>Challengeria thomsoni</i>, Murray.  <i>Gazelletta studeri</i>, Hacckel.</p> <p>OSTRACODA (Brady, Zool. pt. 3).  <i>Halocypris atlantica</i>, Lubbock.</p> <p>COPEPODA (Brady, Zool. pt. 23).  <i>Oithona challengerii</i>, n.sp.  <i>Goniopsyllus rostratus</i>, n.g., n.sp.  <i>Corycaeus varius</i>, Dana.</p>	<p>AMPHIPODA (Stebbing, Zool. pt. 67).  <i>Podocerus falcatus</i> (Montagu).  <i>Primno</i> sp. (?).</p> <p>SCHIZOPODA (Sars, Zool. pt. 37).  <i>Thysanoëssa gregaria</i>, n.sp.</p> <p>TUNICATA (Herdman, Zool. pt. 76).  <i>Doliolum ehrenbergi</i>, Krohn.      „ sp., (blastozooids).</p>	<p>STATION 318.</p>
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In addition, the following are recorded in the note-books:—*Peridinium*, *Globigerina*, *Sagitta*, *Tomopteris*, *Cypridina*, Hyperids, *Euphausia*, *Atlanta*, *Salpa*. The tow-nets at the trawl and weights yielded many deep-sea Radiolaria (*Challengeria*, *Tuscarora*, &c.), along with Crustaceans and very large *Sagittæ* (some over two inches in length).

**Station 319** (Sounding 469), Falkland Islands to Rio de la Plata (see Chart 42 STATION 319. and Diagram 22).

February 12, 1876; lat. 41° 54' S., long. 54° 48' W.

Temperature of air at noon, 62°·8; mean for the day, 61°·3.

Temperature of water:—

Surface, . . . . .	59·5	400 fathoms, . . . . .	38·1
25 fathoms, . . . . .	52·2	500 „ . . . . .	37·6
50 „ . . . . .	48·2	600 „ . . . . .	37·1
75 „ . . . . .	44·8	700 „ . . . . .	36·8
100 „ . . . . .	43·0	800 „ . . . . .	36·8
125 „ . . . . .	41·6	900 „ . . . . .	36·8
150 „ . . . . .	40·6	1000 „ . . . . .	36·8
175 „ . . . . .	40·0	1100 „ . . . . .	36·8
200 „ . . . . .	39·5	1200 „ . . . . .	36·8
225 „ . . . . .	39·2	1300 „ . . . . .	36·8
250 „ . . . . .	39·0	1400 „ . . . . .	36·8
275 „ . . . . .	38·8	1500 „ . . . . .	36·8
300 „ . . . . .	38·6	Bottom, . . . . .	32·7

Density at 60° F. at surface, 1·02555; bottom, 1·02552.

Depth, 2425 fathoms; deposit, Blue Mud, containing 6·41 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 5 A.M. got up steam. At 6.25 A.M. shortened and furled sails, and proceeded under steam to sound. At 7 A.M. sounded in 2425 fathoms. Took serial temperatures