

II. Deposit shells.

Station VIII., February 12, 1873; off Canary Islands; lat. $28^{\circ} 3' 15''$ N., long. $17^{\circ} 27' 0''$ W.; depth, 620 fathoms; bottom, volcanic mud.

Station 3, February 18, 1873; Tenerife to Sombrero Island; lat. $25^{\circ} 45'$ N., long. $20^{\circ} 14'$ W.; depth, 1525 fathoms; bottom, hard ground.

Station 23, March 15, 1873; off Sombrero Island; lat. $18^{\circ} 24'$ N., long. $63^{\circ} 28'$ W.; depth, 450 fathoms; bottom, Pteropod ooze.

Station 24, March 25, 1873; off Culebra Island; lat. $18^{\circ} 38' 30''$ N., long. $65^{\circ} 5' 30''$ W.; depth, 390 fathoms; bottom, Pteropod ooze.

Station 33, April 4, 1873; off Bermuda; lat. $32^{\circ} 21' 30''$ N., long. $64^{\circ} 35' 55''$ W.; depth, 435 fathoms; bottom, coral mud.

Station 85, July 19, 1873; off Palma Island; lat. $28^{\circ} 42'$ N., long. $18^{\circ} 6'$ W.; depth, 1125 fathoms; bottom, volcanic mud.

Station 120, September 9, 1873; off the coast of South America, between Pernambuco and Bahia; lat. $8^{\circ} 37'$ S., long. $34^{\circ} 28'$ W.; depth, 675 fathoms; bottom, red mud.

Station 122, September 10, 1873; off the coast of South America, between Pernambuco and Bahia; lat. $9^{\circ} 5'$ S., long. $34^{\circ} 50'$ W.; depth, 350 fathoms; bottom, red mud.

Station 185, August 31, 1874; off Raine Island; lat. $11^{\circ} 35' 25''$ S., long. $144^{\circ} 2' 0''$ E.; depth, 135 fathoms; bottom, coral sand.

Observations.—I. It is very probable that *Atlanta rangii*, d'Orbigny, which Souleyet¹ has hesitatingly referred to his *Spirialis ventricosa*, is identical with the above species. But since the somewhat imperfect description and figure of d'Orbigny exclude the possibility of absolute certainty, it is better to adopt, as we have done, the specific title *lesueuri*, although this species does not occur in d'Orbigny's work till several pages after *Atlanta rangii*.

II. *Atlanta rotunda* of the same authority,² which Souleyet³ regards as a variety of his *Spirialis ventricosa*, appears to us very different indeed. In our opinion it is not even a Pteropod, as we shall explain further on in our appendix to the Limacinidæ.

*7. *Limacina australis* (Eydoux and Souleyet) (Pl. I. fig. 6).

1840. *Spirialis australis*, Eydoux et Souleyet, Description sommaire de quelques Ptéropodes nouveaux ou imparfaitement connus, Revue Zoologique; t. iii. p. 237.

Characters and Description.—Smooth shell, with spire somewhat elevated, with a blunted or obtuse apex, with six or seven bulging whorls, separated by a very deep suture,

¹ Histoire naturelle des Mollusques Ptéropodes, p. 63.

² Voyage dans l'Amérique méridionale, t. v. p. 175, pl. xii. figs. 20-24.

³ Histoire naturelle des Mollusques Ptéropodes, p. 63.