

not hitherto obtained, probably because it does not live on the surface but in the seaweeds of shallow-water regions. *Phylliroë* was also present, but I am not sure whether it is identical with *Phylliroë bucephala*, which is well known from the North Atlantic and Mediterranean, and which is usually accompanied by a small jelly-fish (*Discophore*) attached to its ventral surface (described by Krohn under the name of *Mnestra parasitica*), or whether it belongs to the species upon which Adams founded his genus *Acura*. Our species was taken only to the south of the Cape Verdes, and, as it is quite transparent, is very useful for the study of the anatomy of the Nudibranchs. In the skin are many glands and silvery spots, which have proved to be chromatophores; the short intestine, terminated on the right side by an anus, is connected with four large lobes of liver, and there are also visible the generative organs (especially the two hermaphroditical glands, the seminal and ovarial gland with the penis, all running into a genital atrium), the heart with its atrium situated behind the ventricle, and the excretory organ (an elongated simple tube opening on the right side). There are no organs of locomotion, and branchiæ are entirely absent, so that the respiration must be cutaneous. In swimming on the surface the animal slightly moves the posterior and flattened part of its body when gliding along."

STATION 129.

Station 130 (Sounding 213), Bahia to Tristan da Cunha (see Chart 16 and Diagram 5). STATION 130.

October 3, 1873; lat.  $26^{\circ} 15' S.$ , long.  $32^{\circ} 56' W.$

Temperature of air at noon,  $73^{\circ} \cdot 5$ ; mean for the day,  $70^{\circ} \cdot 8$ .

Temperature of water:—

|                        |      |                        |      |
|------------------------|------|------------------------|------|
| Surface, . . . . .     | 69.0 | 900 fathoms, . . . . . | 37.1 |
| 100 fathoms, . . . . . | 60.5 | 1000 " . . . . .       | 37.0 |
| 200 " . . . . .        | 54.3 | 1100 " . . . . .       | 36.9 |
| 300 " . . . . .        | 48.3 | 1200 " . . . . .       | 36.8 |
| 400 " . . . . .        | 42.8 | 1300 " . . . . .       | 36.7 |
| 500 " . . . . .        | 39.0 | 1400 " . . . . .       | 36.6 |
| 600 " . . . . .        | 38.0 | 1500 " . . . . .       | 36.5 |
| 700 " . . . . .        | 37.5 | Bottom, . . . . .      | 34.7 |
| 800 " . . . . .        | 37.3 |                        |      |

Density at  $60^{\circ} F.$ :—

|                      |         |                        |         |
|----------------------|---------|------------------------|---------|
| Surface, . . . . .   | 1.02710 | 200 fathoms, . . . . . | 1.02614 |
| 4 fathoms, . . . . . | 1.02711 | 300 " . . . . .        | 1.02578 |
| 50 " . . . . .       | 1.02690 | 400 " . . . . .        | 1.02562 |
| 100 " . . . . .      | 1.02658 | Bottom, . . . . .      | 1.02714 |