deposited in the Sydney Museum, and consequently could not be made the subject of anatomical research.

As to the complete *Spirula* taken by the "Blake" in the West Indian Seas<sup>2</sup> (represented in Pl. II. figs. 1, 2), it is, at the present moment, lost, without having been dissected. Therefore the capture, during the voyage of the Challenger, of an entire specimen of *Spirula*, which was entrusted to Professor Huxley, has been considered one of the happy zoological results of this Expedition.

From the above enumeration it appears that up to the present time only five complete individuals of *Spirula* have been under observation (not one of which was, however, taken alive), the two specimens (male and female) studied by Owen, that belonging to the Sydney Museum, and the two others which were collected by the Challenger and the "Blake."

In some public and private collections (notably in London) there are more or less important fragments of *Spirula* not mentioned in literature, but, like the specimen in the Sydney Museum, they cannot be made the subjects of scientific investigation.

However, two individuals—unfortunately also incomplete—were in the hands of former captain of the navy at Nantes, who, still more strongly than the owner of the Spirula studied by Owen in 1879, refused to trust them to a Zoologist. But Professor Giard, who kept watch over these specimens, was able to acquire them on the death of their possessor; thanks to him these Spirula did not become the prey of a public collection. He has been so good as to entrust them to me and to permit me to dissect the larger and more complete of the two; upon this material my personal observations have been based.

Under these circumstances I have undertaken to prepare the Report upon the specimen of *Spirula* taken by the Challenger Expedition. Zoologists will join with me in regretting that this publication has not been made by Professor Huxley himself; but I shall be excused for supplying his place here, when it is known that for years past he had formally renounced the idea of publishing the figures already prepared, and thus these could not have been published without the intervention of a collaborator.

Professor Huxley has been good enough to furnish me with various explanations relative to the figures, and, with the aid of my own observations, I am able to present an anatomical description of *Spirula*, giving sufficiently precise details of the majority of the points of its organisation, in spite of certain deficiencies due to the rarity of the material and its state of preservation.

P. P.

<sup>&</sup>lt;sup>1</sup> Angas, On the marine molluscan Fauna of the Province of South Australia, with a list of all the species known up to the present time, &c. (*Proc. Zool. Soc. London*, 1865, p. 157).

<sup>&</sup>lt;sup>2</sup> Agassiz, On the dredging operations carried on from December 1878 to March 10, 1879, by the U.S. Coast Survey steamer "Blake" (Bull. Mus. Comp. Zoöl., vol. v., 1879, p. 298); Agassiz, Three Cruises of the U.S. Coast and Geodetic Survey steamer "Blake" (ibid., vol. xv., 1888, p. 61).

<sup>&</sup>lt;sup>3</sup> These specimens had been collected in 1861, but their locality is uncertain. Professor Giard supposes that they had been taken in the Atlantic, in the neighbourhood of the Sargasso Sea (Giard, A propos de l'Animal de la Spirule, *Comptes rendus Soc. Biol. Paris*, sér. 9, t. v., 1893, p. 886).