

whole, they offer similar differences. Among littoral forms there are those that are found all over the Great Ocean from the Sandwich Islands to the East Coast of Africa and even south to the Cape of Good Hope. One species, *Amphiura squamata*, is found in the North and South Atlantic, at the Cape of Good Hope, and in Australia. Others, again, are considerably restricted; for example, the abundant fauna of the Caribbean Sea which reaches only Brazil on the south and the Carolinas on the north. *Ophiacantha vivipara* and *Gorgonocephalus pourtalesii*, going to 140 and 600 fathoms, are remarkable for their extension in longitude, being found from the Kerguelen Islands on the west to the east coast of South America. Coming to the species more strictly of deep water, there is *Ophiomusium lymani*, which occurs well up in the North Atlantic, in the extreme South Atlantic, near New Zealand, off Japan, and off the south-west coast of South America. *Ophiacantha cosmica* is found off the Brazil Coast, between the Cape of Good Hope and the Kerguelen Islands, off the south-west coast of South America, and at points intermediate. But there are not wanting deep-water species which appear to be quite restricted in their habitat. Such are *Pectinura heros*, *Ophiomusium validum*, and *Astroscchema arenosum*; the first living near the Celebes, the last two in the Caribbean Sea.

It is certain that while species differ much in the extent of their migrations, there are certain bottoms where they decline to live at all. Thus in all the deep water, from the centre of the North Pacific (Station 246) to near the south-west coast of South America, there was found but a single Ophiuran. Near the masses of land, whether insular or continental, there are always spots, both shallow and deep, that carry abundant faunæ.

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### BATHYMETRICAL TABLES.

TABLE I.—Species appearing above 30 fathoms.

This table embraces all known living Ophiuridæ and Astrophytidæ. A Roman numeral opposite a species shows that it is found also in one of the other tables thus indicated.

*Ophiura brevicauda*, II.  
*guttata*.  
*brevispina*, II.  
*holmesii*.  
*daniana*.  
*januarii*.  
*variegata*.  
*lævis*.  
*cinerea*, II.

*Ophiura wahlbergii*.  
*rubicunda*.  
*panamensis*.  
*squamosissima*.  
*teres*.  
*appressa*.  
*tongana*.  
*Ophiopeza fallax*.  
*yoldii*.