

Our Atlantic waters, it cannot be doubted, abound with animal life, indeed in some localities there is a plethora which is almost incredible. Those naturalists who were privileged to pursue researches in the new marine station at St. Andrews, during the two seasons when it was located there, were familiar with the spectacle which Dr. Whiteaves describes in a passage from Dr. Stimpson on p. 44. The large reddish or blackish purple sea-cucumbers, resembling the garden vegetable in shape, but soft, slimy and elastic to the touch, were so abundant that the dredge often came up heavy and packed tight with their plump and writhing bodies. Considerable areas in the waters of Passamaquoddy Bay are indeed black with the crowded assemblages of these curious Echinoderms. The delicacy so much coveted by the Chinese called "trepane" is really the dried and prepared bodies of these interesting animals. In our utilitarian age a catalogue such as this may even stir some enterprising business man to create a "trepane" industry on the Atlantic coast. Hyrtl it was who showed a visitor a stained section of a kidney under the microscope, and the visitor straightway designed an attractive wall-paper based on the stained histological section shown to him. Dr. Whiteaves need not be alarmed if, while his valuable catalogue is of infinite worth to his brother scientists, it prove also an incentive to a new fishery enterprise! In contrast with the large fleshy *Pentacta frondosa* is the small delicate and transparent *Pentacta minuta* of Verrill, a species first distinguished as *Cucumaria minuta* by Otto Fabricius in 1780, but which there is every reason to believe, now, is the small immature stage of *P. frondosa*. Dr. Martin Duncan and Mr. Sladen suggested this, as Dr. Whiteaves mentions on page 44, and the numerous specimens examined alive at St. Andrews in 1899 and 1900 support the suggestion. The curious "Sea Orange," *Lophothuria Fabricii*, Duben and Koren, a congener of the sea-cucumbers, is recorded by Dr. Whiteaves as occurring all the way from Grand Manan to Temple Bay in Labrador. Its somewhat flattened shape, (not unlike a small shoe with the opening for the foot closed up) and covered with dense overlapping scales, renders it one of the most peculiar of littoral prizes; but it is strange