## SECTION VII.

## EVCOH: HAIUNNA . $6:$

Prokes hydruidect. Aldult.-The habitat of this Itydroid is either below lowwater mark, or else in cleep pools which are not heft more than an hour or two uncovered by the sea. It evidently meenls all the alsantares of the upen oeean in order to thrive, and we find it very dillient to keep it alive unless the water in the jar is mate icy coll. It is most lienguntly attarhed the the fromes of Laminaria, but may be found on ohter seatereeds. las true chatarteristies are very mueh disguised unless it has a broat surliate like that of Laminatia to ereep over, when its stobons pusue nearly straight rourses, giving ofl: wecasionally. a branch to the right or left ( $\mathrm{I}^{\prime}$. XXXIS. F\%, ! ), aml, at regular intervals, an upright stem. A colong of such Ityiboils rescmbles a long row of trees vamishing in the distance. Fronds of Laminarit, thrown up from deep water, frepuently bear the most perfeet examples of this peeuliar mote of branching. It is at remarkable fact, that the upright stems lean toward the sifeetion of the growth of the stolon, so that between eweh upright stem and the stolon fiom which it springs, there is am acute alme (Il. XXXIV. Fi!, !) of about sixtr-live or seventy degrees. 'The upright stem is not more strongly rigatg than that of orelia commissuralis, or related speceies, but by reasme of the great thickening of the horny sheath (PI. XXXIV. Fiy. $\mathrm{B}^{2}, \mathrm{C}^{1}$ ) on alternate sides of the suteressive joints. the appeazance of a zigzag is produced, whereas the counse of the chamiterous cavity of the hyidarium is only slightly sinuous. In drien specimens, the rigzals appearance becomes exaggerated by the unepual contraction of the corneous tube.
 of its greatest thickening is always in the same plane, and corresponds to the direction of the stolon. In this plane, also, the pedieels which bear the calyedes have a general trend, and, therefore, have a distichous armugement, but bean a little to either one or the other side of it, all having the same direction. in this respeet, on the same stem (Fii, S); but whether the pericels of every stem, wh any one stolon, all lean to the right or all to the left, we are not certain, although it seems to be so. The lowest pericel of every stem, arising from any one stolon. originates on the same side; either all are on the side toward which the stems lean. and, consequently, in the acute angle, or all are on the opposite side, and in the obtuse angle. From the thickest side of an internute, the tube of the main stem

