

three times its width near the base, and three times the diameter of the disk. The marginal plates are long and narrow, running up with a slight curve outward from the edge of the ambulacral groove until they meet the border of the dorsal perisom above. They are closely set with short blunt spines, which become gradually a little longer toward the radial groove; and at the edge of the groove each plate bears a tuft of about six rather long spines: these tufts in combination form a scalloped fringe spreading inward on each side over the groove. The dorsal surface of the body is covered with a tessellated pavement composed of capitate paxilli. The heads of the paxilli in close apposition combine to form a mosaic with rudely hexagonal facets; and as they are raised upon somewhat slender shafts, whose bases, like the plinths of columns, rest upon the soft perisom, arcade-like spaces are left between the skin and the upper calcareous pavement. The eggs pass into these spaces from the ovarial openings: on bending the perisom and separating the facets, they may be seen in numbers among the shafts of the paxilli. There is a continual discharge of ova into the passages, so that eggs and young in different stages of development occupy the spaces at one time. The young do not escape until at least six ambulacral suckers are formed on each arm; they may then be seen pushing their way out by forcing the paxilli to the side, and squeezing through the chink between them. While it is extricating itself the oral surface of the young is always above, and the centre of the star with the mouth is usually the part which first protrudes; then the arms disengage themselves one after another, many of the brood remaining for a time with one or two arms free and the others still under the paxilli. When the young have become disengaged, they remain for a considerable time attached to the parent by the centre of the dorsal surface. I could never satisfy myself by what means this is effected; the attachment is very slight, and they are removed by the least touch. In this attached stage until