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TERATOLOGY. Many monstrosities occur in this species. The most common is that in which six rays are found, and we have every variation from cases in which there are five rays, one of which is bifurcated at tip, down through different degrees of division of the split limb to cases in which there are six perfect rays. This shows one way in which the sixrayed state is brought about. But others are found, it is said (the present writer has noticed none), in which with six, or sometimes even more rays, are found two madreporic plates (or one formed by fusion of two), and two stone canals. Such cases are considered by Giard to be true double monsters, comparable with double fishes and the like. The subject is discussed in *Annals and Mag. Nat. Hist.*, 5th ser., I., 1878, pp. 259-260, translated from *Comptes Rendus* of Nov. 19, 1877, p. 973.

Again, in Mag. Nat. Hist., 2nd ser., IV., 1846, p. 34, J Couch describes an Asterias glacialis, now considered to be A. rubens, which had eight rays and three madreporic plates. It is not impossible that it may have been a triple monster, the result of fission or budding in a single ovum.

The numerous cases in which there are four, three, two or even but one ray present are not ordinarily monstrosities, but the result of accident, and inspection will usually show that the missing rays are being replaced. A case is on record (Proc. Nat. Hist. Soc. of Glasgow, I., p. 41) in which one of the limbs growing to replace a lost one, was bifurcated. Yet cases of four and three rays would be monstrosities when these are the maximum number that the individual has had in its development. Such cases are likely to be confounded with those in which a limb has been recently lost, and are, therefore, likely to escape notice. Yet, such probably do occur in the true starfishes, as they certainly do in the Ophiurans, in which, on account of the inflexibility of the disk, the true number of arms is easily counted. The writer has a fine specimen of Ophioglypha Sarsii with four rays, which are placed at exactly equal intervals around the disk. There is a difference also, it may be said in passing, in the method of proceeding to repair a damaged arm, between the true starfishes an member first unit The writ trate thi

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