II. Madreporiform body simple, exposed. Adambulacral armature all spiniform, in coordinated groups, subastropectenoid. Adambulacral plates broad. (Tethyaster.)

A. Rays long. Marginal plates seventy to eighty in the adult.

B. Rays short. Marginal plates twenty to thirty in the adult.

subinermis.
parelii.

Chorology of the Genus Plutopaster.

a. Geographical distribution: -

ATLANTIC: Five species between the parallels of 75° N. and 10° S.

Plutonaster rigidus and Plutonaster rigidus, var. semiarmata, off the east coast of the United States of America. Plutonaster abbreviatus and Plutonaster notatus, in the neighbourhood of the Azores. Plutonaster bifrons in the Facröe Channel, off the coast of Portugal, and off the coast of North America (the latter occurrence on the evidence of a single immature specimen, which might belong to a variety). This species has also been obtained (fide Norman') in the Barents Sea between Spitzbergen and Nova Zembla, in lat. 73° 41′ 12″ N., long. 22° 58′ 30″ E., at a depth of 210 fathoms. The examples are stated to be young. Plutonaster marginatus in the South Atlantic, near the Island of Ascension.

Pacific: One species between the parallels of 30° and 40° S.

Plutonaster ambiguus, off the east coast of Australia, near Sydney.

β. Bathymetrical range: 210 fathoms to 1360 or 17002 fathoms.

All the species except Plutonaster marginatus belong exclusively to the abyssal zone. Of the remaining five, two only, Plutonaster bifrons and Plutonaster ambiguus, have been found in depths less than 1000 fathoms.

Greatest range of one species: Plutonaster bifrons, 210 to 1360 fathoms.

γ. Nature of the Sca-bottom: Two species, Plutonaster rigidus and Plutonaster bifrons, are found on the Blue mud, and Plutonaster bifrons is also found on Globigerina coze. Plutonaster ambiguus is found on Green mud. Plutonaster notatus is found on Pteropod coze; the nearly allied Plutonaster abbreviatus on Volcanic mud: Plutonaster marginatus on Volcanic sand.

<sup>1</sup> In W. S. M. D'Urban on the Zoology of Baronts Sea, Ann. and Mag. Nat. Hist., ser. 5, vol. vi., 1880, p. 260.

<sup>&</sup>lt;sup>2</sup> The uncertainty in the limit of greatest depth arises from not knowing at which of two stations Plutonaster rigidus was dredged.