Synopsis of the Genera included in the Family ECHINASTERIDE.

	A.	Diak large. Rays numerous. Armed with large isolated spines covered with membrane beset with calcareous granules. Numerous madre-	
33		poriform bodies. Forficiform pedicellarize present	10.000
			ACANTHASTERINE.
	-	a. A single genus	. Acanthaster.
	B.	Disk small. Rays usually five. Armed with large spines beset with scales	
		or asperities. One madroporiform body. No pedicellariæ present.	
		No interbrachial partitions	MITHRODIINE.
		a. A single genus	. Mithrodia.
	C.	Disk small or medium-sized. Rays five or six. Spinulation small: spinelets	
		isolate or grouped. No pedicellarize present	ECHINASTERINA.
		a Armature of the adambulacral plates simple or disposed in transverse	
		sories.	
		a. Abactinal plates bearing small spinelets, in more or less com-	•
		pact groups.	
		a. Disk small. Marginal plates usually distinguishable.	
		Adambulacral plates with a small inner spinelet	99 5 .
		placed high in the furrow	. Cribrella.
		β. Disk comparatively large. Marginal plates superficially	Ortorema.
		undistinguishable. No small inner spinelet on the	S
		adambulacral plates	. Perknaster.
		b. Abactinal plates bearing simple isolated spines	Echinaster.
			Dentituster.
		b. Armsture of the adambulacral plates disposed in a double longitudinal	
		series. Abactinal plates forming a wide-meshed network	Distrator
	7	and bearing compact groups of spinelets	. Plectaster.
	D.	Disk moderately developed. Rays five. Abactinal plates regularly dis-	
		posed, bearing small isolated spinelets. Marginal plates with large	
		valvate pedicellariae. Actinal intermediate plates bearing one or	
		more large flattened spinelets	VALVASTERINE.
		a. A single genus	Valvaster.

Subfamily ACANTHASTERINÆ, Sladen, 1888.

Genus Acanthaster, Gervais.

Stellonia (pars), Agassiz, Mém. Soc. Sci. Nat. Neuchatel, 1835, t. i. p. 191.

Echinaster, Gray, Ann. and Mag. Nat. Hist., 1840, vol. vi. p. 281.

Acanthaster, Gervais, Dict. Sci. Nat., suppl., 1841, t. i. p. 474.

Echinites, Müller and Troschel, Archiv f. Naturgesch., 1844, Jahrg. x., Bd. i. p. 180.

Acanthaster is a very isolated type, having a facies altogether unlike that of any other form. The genus is confined to tropical waters, and, though ranging over a wide area of distribution, the amount of morphological plasticity exhibited is very slight. I feel some uncertainty as to whether the form from Mauritius, so carefully described by de Loriol, can really be recognised as a species independent from Acanthaster echinites; and I am equally doubtful as to the validity of the claims of Acanthaster ellisii.

¹ Mem. Soc. Phys. et Hist. Nat. Genève, 1885, t. xxix., No. 4, p. 6.