

remarkable are the cysts of *Myzostoma tenuispinum* (Pl. XIII. figs. 6 and 11-16), which consist of small fusiform oval chambers, arranged longitudinally or transversely, and formed by the enlargement of some of the brachialia or basalia; these are extremely conspicuous, since they do not become gradually flattened. A third group of malformations consist in independently formed cysts, *i.e.*, cysts that are not produced by the transformation of a pinnule or an arm-joint. These cysts appear upon the ambulacral surface, and are either sessile and of various forms (*Myzostoma cysticolum*, Pl. XIII. figs. 1-3), or pedunculate and club-shaped (*Myzostoma murrayi*, Pl. XV. figs. 5-9). *Myzostoma inflator* (Pl. XV. figs. 1, 2) produces both sessile and stalked cysts.

Finally, there are compound cysts (Pl. XIV. fig. 8), due to the approximation and fusion of the two different cysts formed by *Myzostoma willemoesii* and *Myzostoma tenuispinum*, the latter on the arm-joint and the former on its pinnule.

In the following Tables are given complete lists of the known species of *Myzostoma* and their hosts:—

TABLE I.

List of species of Myzostomida.

Species of <i>Myzostoma</i> .	Host.	Received from.
<i>M. horologium</i> , n. sp.	{ <i>Actinometra jukesii</i> , P. H. C.	Challenger Expedition.
	{ „ <i>strata</i> , P. H. C.	Do. do.
<i>M. longipes</i> , n. sp.	Uncertain.	“Blake.”
<i>M. chinesisicum</i> , n. sp.	Uncertain.	Dr. J. W. Spengel.
<i>M. labiatum</i> , n. sp.	<i>Antedon inæqualis</i> , P. H. C. ?	Challenger Expedition.
	{ <i>Antedon incisa</i> , P. H. C. ?	Do. do.
	{ „ <i>inæqualis</i> , P. H. C. ?	Do. do.
<i>M. echinus</i> , n. sp.	{ <i>Actinometra mutabilis</i> , Lütken, MS.	Copenhagen Museum.
<i>M. alatum</i> , Graff.	<i>Antedon phalangium</i> , Müll., sp.	“Porcupine.”
<i>M. costatum</i> , F. S. L.	{ <i>Antedon savignyi</i> , Müll., sp., or	} Prof. v. Siebold.
	{ „ <i>palmata</i> , Müll., sp. ?	
	{ „ <i>triquetra</i> , Semp., MS.	Prof. C. Semper.
<i>M. plicatum</i> , n. sp.	<i>Actinometra parvicirra</i> , Müll., sp.	Do.
	<i>Antedon tenax</i> , Lütken, MS.	Copenhagen Museum.