

APPENDIX A MEASUREMENTS

TABLE 1

MEASUREMENTS OF REPRESENTATIVE MOSASAUR SKULLS

The specimens within each species of mosasaur are arranged according to size from the smallest to the largest. The same is true of the species, so that *Clidastes sternbergi* possesses on the average the smallest known skull and *Tylosaurus proriger* the largest. All measurements are in millimeters, a small "a" preceding the number indicates that it is approximate. The distance between the first and sixth tooth in a dentition is measured from the anterior base of the first tooth to the posterior base of the sixth. The length of the dentary is measured from its anterior tip to the posterior apex of the alveolar margin of the bone.

A. Length of skull along midline. B. Length of premaxillary rostrum. C. Width of frontal between orbits. D. Length between first and sixth maxillary tooth. E. Height of quadrate. F. Length of lower jaw. G. Length of dentary. H. Length between first and sixth dentary tooth.

	A	B	C	D	E	F	G	H
<i>Clidastes sternbergi</i>								
Type (Wiman 1920)	313	—	32	—	38	356	—	—
USNM 3777	—	—	—	38	44	—	—	—
<i>Clidastes liodontus</i>								
USMN 11719	315	—	52	64	35	372	216	61
USNM 6546	337	—	51	70	39	—	222	66
YPM 1335	340	—	50	62	38	388	223	58
YPM 24914	—	—	60	69	—	—	239	65
YPM 1333	—	6	53	75	42	—	—	—
USNM 11647	—	—	60	72	43	—	255	59
<i>Plotosaurus bennisoni</i>								
Type (Camp 1942)	397	—	69	78	57	485	—	—
<i>Clidastes propython</i>								
YPM 1368	—	7	65	—	45	—	—	—
YPM 1318	—	—	—	—	58	—	338	84
YPM 1319	—	11	—	89	63	—	355	82
KU 1000	658	—	—	110	—	—	428	110
" <i>Platecarpus</i> " <i>intermedius</i>								
ANSP 9023	—	—	—	—	—	—	—	83
<i>Platecarpus coryphaeus</i>								
MCZ 1610	—	—	55	81	49	—	—	—
YPM 4004	—	—	99	129	80	—	—	113
YPM 3972	—	—	110	121	82	—	296	—
<i>Platecarpus ictericus</i>								
YPM 1256	—	—	81	105	77	—	246	104
YPM 1277	—	—	79	108	80	—	—	96
YPM 4003	—	—	—	121	88	—	282	112
YPM 3690	—	—	—	—	90	a560	301	129
AMNH 1820	431	—	97	126	92	—	—	—
AMNH 1821	—	—	—	—	—	559	292	124