

Supplementary Data 3.— Mostly complete, adult specimens were chosen from the USNM collections. Measurements were made with Mitutoyo Digimatic calipers. WIW was calculated as described in the text. Arm length was measured on complete arms, and brachial width was measured at the midpoint of that arm. ANT, Antedonidae; ATE, Atelecrinidae; CHA, Charitometridae; NOT, Notocrinidae; COM, Comasteridae; THA, Thallasometridae; AST, Asterometridae; PTI, Ptilometridae; TRO, Tropiometridae; COL, Colobometridae; ZYG, Zygometridae; HIM, Himerometridae; MAR, Mariametridae. WIW is in g, arm measurements are in mm.

USNM. No	Species	Family	WIW	Arm Number	Brachial Width	Arm Length
E7976	<i>Promachocrinus kerguelensis</i>	ANT	0.46	20	1.53	137.40
E42689	<i>Atelecrinus sp.</i>	ATE	0.15	10	1.78	89.91
35812	<i>Florometra serratissima</i>	ANT	0.97	10	1.50	160.34
35829	<i>Florometra serratissima</i>	ANT	0.40	10	1.59	142.59
35713	<i>Florometra asperrima</i>	ANT	1.45	10	2.35	196.51
35794	<i>Florometra serratissima</i>	ANT	1.02	10	1.37	177.07
E42582	<i>Crinometra brevipinna</i>	CHA	2.84	24	1.60	184.70
35704	<i>Monachometra patula</i>	CHA	3.14	16	1.65	112.60
35638	<i>Glyptometra lateralis</i>	CHA	2.46	10	2.47	140.22
E43384	<i>Notocrinus virilis</i>	NOT	0.13	10	2.10	77.75
E34770	<i>Ctenantedon kinziei</i>	ANT	0.18	10	0.81	89.71
E28084	<i>Antedon mediterranea</i>	ANT	0.18	10	0.93	104.14
E34740	<i>Taxometra paupera</i>	ANT	0.07	10	1.02	91.45
E42713	<i>Coccometra guttata</i>	ANT	0.08	10	0.85	92.70
E17944	<i>Crinometra brevipinna</i>	ANT	1.34	19	1.45	120.61
1093338	<i>Comanthus suavia</i>	COM	6.07	37	1.63	141.28
35597	<i>Cosmiometra philippinens</i>	THA	0.85	17	0.86	83.77
E5282	<i>Asterometra cristata</i>	AST	1.51	10	1.60	86.99
35547	<i>Pterometra trichopoda</i>	AST	0.24	21	1.10	58.87
35503	<i>Ptilometra australis</i>	PTI	2.37	16	1.50	70.25
E19190	<i>Tropiometra carinata</i>	TRO	0.51	10	1.46	75.54
E48097	<i>Tropiometra afra</i>	TRO	5.09	10	3.31	194.28
35222	<i>Pontiometra andersoni</i>	COL	8.32	76	1.87	152.04
35305	<i>Cenometra delicata</i>	COL	3.05	33	1.26	93.21
1010993	<i>Stylometra spirifera</i>	THA	1.74	33	0.98	124.30
35174	<i>Zygometra elegans</i>	ZYG	0.91	34	1.14	69.64
E3205	<i>Amphimetra tessellata</i>	HIM	2.54	12	2.22	86.04
E34703	<i>Lamprometra palmata</i>	MAR	0.50	30	1.31	81.35
E48114	<i>Stephanometra indica</i>	MAR	0.47	17	1.09	76.88
E34586	<i>Cenometra bella</i>	COL	0.37	32	1.23	92.76
E34545	<i>Comanthus parvicirrus</i>	COM	0.52	41	1.47	140.17
E34578	<i>Comanthina shlegeli</i>	COM	1.68	75	1.94	97.67
34962	<i>Comaster multibrachiatus</i>	COM	4.86	125	1.38	95.15
34927	<i>Comatula purpurea</i>	COM	0.19	10	1.59	118.95
E26113	<i>Comactinia meridionalis</i>	COM	4.31	10	3.84	193.18
349002	<i>Capillaster multiradiata</i>	COM	0.63	16	2.10	67.90
E25890	<i>Nemaster grandis</i>	COM	0.57	25	1.41	113.24
E19779	<i>Neocomatella alata</i>	COM	2.32	44	0.94	87.40