

4) Individual kinematic measurements carried out in PCC software from high-speed videos. CB = Cnidoband. AVG = Average (mean). MAX = Maximum.

Species	Specimen	Total discharge time (ms)	Average CB discharge speed (mm/s)	Maximum CB discharge speed (mm/s)	Heteroneme discharge speed AVG (mm/s)	Heteroneme free discharge speed AVG (mm/s)	Heteroneme discharge speed MAX (mm/s)	Heteroneme free discharge speed MAX (mm/s)	Heteroneme shaft discharge speed MAX (mm/s)
Vogtia serrata	D961-SS4				26.1		47.4	47.4	
Resomia persica	D963-D4		189.5	363.1	109.2		109.2	109.2	
Resomia ornicephala	D965-D6								
Praya dubia	D962-T1	155	14.2	32.9	14.4		30.4	30.4	
Nanomia bijuga	D959-BW1	22	59.5	147	21.4		47.9	47.9	
Marrus claudanielis	D959-SS7								
Lychnagalma utricularia	D962-D4		264	696.9					
Lityopsis fluoracantha	D963-D8	40	72.3	242.8	29.4		42	42	120.5
Forskalia formosa	D963-SS6	31.7	417.9	994.5	18.1		53.7	53.7	249.1
Erenna laciniata	D959-SS4				14.3		29.5	29.5	74
Nanomia bijuga	D1020-BW11	10	184.6	261					
Forskalia formosa	D1020-BW2	35	57.5	114.8	30				118.1
Forskalia formosa	D1020-BW24	11.5	322	493					
Forskalia formosa	D1021-BW13	19.6	205	774	89				
Forskalia formosa	D1021-BW20	16	224.5	260.6					
Frillagalma vityazi	D1023-MS2	14.8			50.5	182.3	54	172.8	97.7
Nanomia bijuga	D1023-SS2	161	68.1	145.5					
Frillagalma vityazi	D1023-SS5	72			40.2	107.5	58	185.6	556
Apolemia lanosa	D1024-D1				9.8		18.7		
Erenna laciniata	D1024-D4	50.2	43.5	43.5	10.1	24.2	19.1	45	304
Bargmannia lata	D1024-D7				23.76		27.2	27.2	
Rosacea cymbiformis	D1025-MS4	181	33	62	27	33.75	66	82.5	130
Nanomia bijuga	D1025-SS12	81	167	264					336
Frillagalma vityazi	D964-D8	15			30.8	57.6	33.7	63	68.1
Forskalia sp. nov.	M123-SS8	54	254.9	425.7	27.5	27.5	44.9	44.9	
Lychnagalma utricularia	M123-SS4	181	672.9	924.4					
Forskalia sp. nov. namaaka	M122-SS3	45.4	377.6	419					
Diphyes dispar	KM2018_BW6-10	45.5	51.6	70.2	47.2	47.2	54.7	54.7	75.9
Rosacea cymbiformis	M121-SS2	18.9	18.5	28.9	70	70	158.6	158.6	
Bargmannia elongata	M120-SS3	32.8	11.6	37.7	34.6	34.6	68.7	68.7	153.2
Erenna laciniata	M120-SS7	85	66.6	100.5	16.4	20.6	44.8	56	109.5
Stephanophyes superba	KM2018_BW5-18	38	31.8	168.2	12.8	49.9			
Halistemma striata	KM2018_Trawl3								
Diphyes dispar	KM2018_BW3-10	30.5	44.5	66					
Stephanophyes superba	KM2018_BW4-9				50.4	50.4	65		
Stephanophyes superba	KM2018_BW4-19	61.5	101.94	208.1					
Agalma okeni	KM2018_BW3-21								
Athorybia rosacea	KM2018_BW2-23	125			47.4	47.4	56.4	56.4	108.4
Rosacea plicata	KM2018_BW2-17	40.4	9	21.6					
Erenna sp. nov. moana	M118-SS2	195.4	18.8	57.4	29	36.4	55.6	69.8	425.7
Physonect sp.	M117-SS2	101.7	42.7	71.99	39	39	75.5	75.5	332.6

Heteroneme filament length (µm)	Heteroneme filament free length (µm)	Haploneme discharge speed AVG (mm/s)
2610		51.3
1880		120.4
1630		
		212.5
1960		60.9
787		5.9
1137		7.4
1720	5529	83
2030	5428	96
1020		
1906	4656	24.4
20000	20000	
2387	2983.75	156.7
926		
1100	2060	49.2
2000	2000	52.6
		167
		22.4
1257	1257	142
1907	1907	79.8
2100	2100	
2520	3150	90
		250.9
		26.2
		199.8
	1780	
		258.5
2252	2252	
9495	11926	19.1
5192	5192	