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)
Agalma okeni	KM2018_BW3-21								
Apolemia lanosa	D1024-D1				9.8		18.7		
Athorybia rosacea	KM2018_BW2-23	125			47.4	47.4	56.4	56.4	108.4
Bargmannia elongata	M120-SS3	32.8	11.6	37.7	34.6	34.6	68.7	68.7	153.2
Bargmannia lata	D1024-D7				23.76	23.76	27.2	27.2	
Diphyes dispar	KM2018_BW6-10	45.5	51.6	70.2	47.2	47.2	54.7	54.7	75.9
Diphyes dispar	KM2018_BW3-10	30.5	44.5	66					
Erenna laciniata	D959-SS4				14.3		29.5	29.5	74
Erenna laciniata	D1024-D4	50.2	43.5	43.5	10.1	24.2	19.1	45	304
Erenna laciniata	M120-SS7	85	66.6	100.5	16.4	20.6	44.8	56	109.5
***Erenna* sp. nov.**	M118-SS2	195.4	18.8	57.4	29	36.4	55.6	69.8	425.7
Forskalia formosa	D963-SS6	31.7	417.9	994.5	18.1		53.7	53.7	249.1
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					
Forskalia formosa	M123-SS8	54	254.9	425.7	27.5	27.5	44.9	44.9	
Forskalia formosa	M122-SS3	45.4	377.6	419					
Frillagalma vityazi	D964-D8	15			30.8	57.6	33.7	63	68.1
Frillagalma viyazi	D1023-MS2	14.8			50.5	162.3	54	172.8	97.7
Frillagalma viyazi	D1023-SS5	72			40.2	107.5	58	185.6	556
Halistemma striata	KM2018_Trawl3								
Lilyopsis fluoracantha	D963-D8	40	72.3	242.8	29.4		42	42	120.5
Lychnagalma utricularia	D962-D4		264	696.9					
Lychnagalma utricularia	M123-SS4	181	672.9	924.4					
Marrus claudanielis	D959-SS7								
Nanomia bijuga	D959-BW1	22	59.5	147	21.4		47.9	47.9	
Nanomia bijuga	D1020-BW11	10	184.6	261					
Nanomia bijuga	D1023-SS2	161	68.1	145.5					
Nanomia bijuga	D1025-SS12	81	167	264					336
***Physonect* sp.**	M117-SS2	101.7	42.7	71.99	39	39	75.5	75.5	332.6
Praya dubia	D962-T1	155	14.2	32.9	14.4		30.4	30.4	
Resomia ornicephala	D965-D6								
Resomia persica	D963-D4		189.5	363.1	109.2		109.2	109.2	
Rosacea cymbiformis	D1025-MS4	181	33	62	27	33.75	66	82.5	130
Rosacea cymbiformis	M121-SS2	18.9	18.5	28.9	70	70	158.6	158.6	
Rosacea plicata	KM2018_BW2-17	40.4	9	21.6					
Stephanophyes superba	KM2018_BW5-18	38	31.8	168.2	12.8	49.9			
Stephanophyes superba	KM2018_BW4-9				50.4	50.4	65		
Stephanophyes superba	KM2018_BW4-19	61.5	101.94	208.1					
Vogtia serrata	D961-SS4				26.1		47.4	47.4	

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