

Effects of tidal current-induced flow on reef fish behaviour and function on a subtropical rocky reef

Linda Eggertsen*, Linus Hammar, Martin Gullström

*Corresponding author: eggertsen.linda@gmail.com

Marine Ecology Progress 559: 175–192 (2016)

Table S1. Characteristics of the flow during all samples. The benthic samples were 5 minutes long each and the pelagic samples 45 minutes. For the pelagic samples, minimum, maximum and average flow velocity are provided, while for the benthic samples, only maximum flow is shown

Video sample	Date	Target tidal phase	Lunar phase	Main current direction (°)	Min velocity (cm s-1)	Max (cm s-1)	Average (cm s-1)
Pelagic fish							
Deep channel 2	120229	high/ebb	neap	215	58	67	63
Deep channel 5	120302	high	neap	40	3	23	13
Deep channel 8	120311	ebb	spring	210	99	104	103.67
Deep channel 9	120311	ebb	spring	210	85	113	93
Deep channel 11	120319	ebb	neap	215	81	90	84.38
Deep channel 13	120320	ebb	spring	220	90	93	92
Deep channel 15	120321	ebb	spring	220	2	53	30.88
Deep channel 16	120321	flood	spring	40	20	38	31.57
Deep channel 17	120322	ebb	spring	220	81	104	92.73
Deep channel 18	120323	ebb	spring	220	126	148	142
South Reef 2	120402	ebb	neap	220	34	53	34
South Reef 3	120403	flood	spring	120	39	67	53
South Reef 4	120403	high/ebb	spring	230	16	49	32.5
South Reef 5	120403	ebb	spring	220	68	75	70.5
South Reef 6	120403	ebb	spring	220	72	73	72.5
South Reef 7	120404	flood	spring	20	29	59	44
South Reef 9	120410	ebb	spring	280	94	94	94
South Reef 10	120410	ebb	spring	280	74	109	91.5
South Reef 11	120414	ebb	neap	230	32	32	31.57
South Reef 12	120414	ebb	neap	230	31	31	31
North Reef 1	120403	flood	spring	110	15	35	34.5
North Reef 2	120403	high/ebb	spring	220	21	25	23
North Reef 3	120403	ebb	spring	260	33	35	36.5
North Reef 4	120403	ebb	spring	260	32	40	36
North Reef 6	120409	ebb	spring	260	31.6	40.1	37.5
North Reef 7	120409	ebb	spring	260	30	52	41
North Reef 9	120410	ebb	spring	0	0	40	20
North Reef 10	120410	ebb	spring	260	37	47	42
North Reef 11	120414	ebb	neap	220	22	20	19.5
North Reef 12	120414	ebb	neap	220	18	23	23

Video sample	Date	Target tidal phase	Lunar phase	Main current direction (°)	Min velocity (cm s-1)	Max (cm s-1)	Average (cm s-1)
Benthic fish							
Benthic 1	120318	ebb	neap			51	
Benthic 2	120318	ebb	neap			51	
Benthic 3	120318	ebb	neap			50	
Benthic 4	120318	ebb	neap			55	
Benthic 5	120318	ebb	neap			61	
Benthic 6	120318	ebb	neap			62	
Benthic 7	120318	ebb	neap			67	
Benthic 8	120318	ebb	neap			51	
Benthic 9	120318	ebb	neap			60	
Benthic 10	120318	ebb	neap			49	
Benthic 11	120405	ebb	spring			30	
Benthic 12	120405	ebb	spring			38	
Benthic 13	120405	ebb	spring			37	
Benthic 14	120405	ebb	spring			38	
Benthic 15	120405	ebb	spring			42	
Benthic 16	120405	ebb	spring			39	
Benthic 17	120405	ebb	spring			44	
Benthic 18	120405	ebb	spring			44	
Benthic 19	120405	ebb	spring			49	
Benthic 20	120405	ebb	spring			58	
Benthic 21	120407	ebb	spring			73	
Benthic 22	120407	ebb	spring			77	
Benthic 23	120407	ebb	spring			84	
Benthic 24	120407	ebb	spring			93	
Benthic 25	120407	ebb	spring			90	
Benthic 26	120407	ebb	spring			93	
Benthic 27	120407	ebb	spring			104	
Benthic 28	120407	ebb	spring			110	
Benthic 29	120407	ebb	spring			135	
Benthic 30	120407	ebb	spring			133	
Benthic 31	120408	ebb	spring			74	
Benthic 32	120408	ebb	spring			94	
Benthic 33	120408	ebb	spring			103	
Benthic 34	120408	ebb	spring			90	
Benthic 35	120408	ebb	spring			92	
Benthic 36	120408	ebb	spring			111	
Benthic 37	120408	ebb	spring			131	
Benthic 38	120408	ebb	spring			121	
Benthic 39	120408	ebb	spring			132	
Benthic 40	120408	ebb	spring			144	