

Date: 3/4/84	Start time	Tides 1401 LT
Weather overcast lt breeze	Temp 28.2 D (Air)	(Sand)

Site: 19.70M to Berm in front of toilet block.  
Rowes Bay 3rd car park.

Berm exposed at 11.30

Track No. Start / Stop	A	B	C	D		
	1157-1206	1214-1228	1228-1243	1246-1259		
Position from edge of berm	004 4.10M	005 5.83M	335 4.42M	345 2.19M		
Predator size species	P.C. 11.5mm	PC 10.95mm	PC 9.89mm	PC 13.22mm		
Prey captured size / species	<del>PC</del> —	—	—	IC 3.1mm		
Sand	2	2	2	2		
Ripple	0	0	0	0		
Water	2	2	2	2		
Slope	0	0	0	0		
MARK No	1	2	3	4		
Sand Temp (1215)	28.6	28.5	28.6	29.5		

Date: 4-4-88	Start time	Tides 1430 0.34
Weather 1/8 Ot breeze	Temp 30.5 1145 (Air)	(Sand)

30.5 (sea 11.45)

Site: Rowes Bay 3rd Carpark

Berm exposed 11:40

positions fm orig baseline

Track No. Start / Stop	A 1150- 1204	B 1210- 1217	C 1228- 1245			
Position	059 5.39	042 6.25	280 3.25			
Predator size species	N04 13.318	PC 9.46	PC 8.05			
Prey captured size / species	NIL	NIL	NIL			
Sand	2	2	2			
Ripple	0	0	2			
Water	4	4	4			
Slope	0	0	0			
Prod No	4 (recapture)	5	6			

16 p.c. ooz signs collected fm offshore, marked with dot and placed haphazardly in site

\* Snails appeared to cease search early after B almost none searching.

Date: 5-4-85	Start time	Tides
Weather $\frac{1}{8}$ of breeze	Temp 31.4 (Air) 28.5 (wet) ( <del>5</del> sand)	

31.2 (sea)

harm: 1205

Site: Rowes Bay 3 C.P.

Track No. Start / Stop	A 1214 - 1236	B 1236 1248				
Position	289 10.33	339 10.34				
Predator size species	- P.C.	7.14mm P.C.				
Prey captured size / species	NP	NP				
Sand	2	2				
Ripple	$\phi$	1				
Water	2	2+1				
Slope	$\phi$	$\phi$				
Sand Temp	34.2	34.2				
Pred No	-	7				

Note 10 released in base with 2 spots.

Date: 6-4-85	Start time	Tides
Weather	Temp 30.0 (Air) 27.5 (wet) <del>(sun)</del>	

31.5 sea harm 1237

Site: Rowes Bay 3 C.P

Track No. Start / Stop	A 1257- 1330	B 1246- 1256	C 1336- 1409			
Position	357 8.17	338 2.41	309 11.95			
Predator size species	7.77 Pc	- Pc	9.05 Pc			
Prey captured size / species	4.26 I.C.	-	-			
Sand	2	2	2			
Ripple	0	1	0			
Water	1	1+2	2			
Slope	0	0	0			
Pred No	8	-	9			

Date: 7-4-84	Start time	Tides
Weather clr mod breeze	Temp (Air)	(Sand)

1257 30.6 sea. 25.1 (wet) 29.6 (dry) barn - 1308

Site:

Track No. Start / Stop	A	B	C	D		
Position	037 5.44	014 8.87	290 4.57			
Predator size species	Pc 10.80	Pc 8.2	Pc 7.3			
Prey captured size / species	Ic ?	?	Ic ?			
Sand	2	2	2			
Ripples	∅	∅	1			
Water	surf run	surf run off	surf run off			
Slope	0	0	∅			
	10	11	12	13		
TEMP	33.5	34.3	33.9			

\* no water run off from beach

Date: 1/5/88	Start time 1100	Tides 1303
Weather S/E med brz	Temp 28.4 (Air)	29.0 (Sand)
	28.0 (Sea)	

Site: Rocketship

Track No. Start / Stop	1 1057 - 1105	2 a b 1121 - 1141	3 a b 1208 1231			
Position						
Predator size species	P.s 11.10	P.s 10.89	P.c. 7.86			
Prey captured size / species	1.c. 2.89	1.c 2.56	NIL			
Sand	2	2	2			
Ripple	3-4	3-4	3-4			
Water	3	3	3			
Slope	φ	φ	φ			

Date: 2-5-85	Start time 1040	Tides 1331
Weather $\frac{1}{8}$ strg breeze	Temp 27.8 (Air) 27.0 (Sand)	27.2 (Sea)

Site: ROCKETSHIP area  $\frac{1}{2}$  exposed at 1055

Track No. Start / Stop	1101 - 1113	1120 1130	1157 - 1222	1255 - 1318		
Position						
Predator size species	11.04 Ps	8.26 Pc	8.1 Pc	9.71 Pc		
Prey captured size / species	NIL	1 Ic 1.37	NIL	NIL		
Sand	2-3	"	2-3	=		
Ripples	3-4	"	3-4	=		
Water	3	"	3	=		
Slope	$\phi$	"	$\phi$	=		
	see note on track	"	presented any first.	=		

Date: 3-5-85	Start time 1115	Tides 1331
Weather 0 at-mid br3	Temp 28.3 (Air)	(Sand)
	29.4 (sea) ← 1339	

Site:

100m

Track No.	1	2	1215	1224	1242	1302
Start / Stop	1126 - 1132	1142 1202	1222	1230	1256	1308
Position	4.5 0.8	3.0 6.5	<del>12.0</del> 12.0 2.0	12.0 2.0	9.8 11.5	9.8 11.5
Predator size species	10.65 Pc	7.59 Pc	11.05 Ps	11.05 Ps	12.46 Ps	12.46 Ps
Prey captured size / species	3.05 Ic	1.64 Ic	Ic 3.1	Ic 3.1	Ic 3.0	Ic 3.0
Sand	2	2	2	2	2	2
Ripple	4	4	4	4	4	4
Water	2/3	2/3	2/3	1	2/3/1	2/3/1
Slope	φ	φ	φ	φ	φ	φ
		Prey pres hist.		Prey presented		Prey presented



Date: 4-5-85

Weather: 3/8 mil

Temp 26.2 sea

26.3 sand.

27.3 air

Site Rocket ship

pegs exposed 1125

Track	1134-1143	1147-1153	1200-1208	1216-1234	1247-1303	1321-1345
Posn	SSOS	SSOS	SO92	5398	11590	5390
Pred	Ps	Ps	Pc	Pc	Pc	Pc
Size	10.01	10.01	9.14	9.35	9.18	8.13
Prey captured	3.05 Ic	3.05 Ic	-	-	-	-
Sand	2/3	"	"	"	"	"
Ripple	3/4	"	"	"	"	"
Water	2/3	"	"	"	"	"
Slope	φ	"	"	"	"	"
Prey presented	No	Yes	No	Yes	No	Yes

### Samples

3582 1 0 0 0  
0 0 0 1  
0 0 0 0  
0 0 0 0

1044 0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0

5153 0 0 0 0  
0 0 0 0  
0 0 0 0  
0 0 0 0

7989 0 0 0 0  
0 0 0 1  
1 0 0 0  
0 0 0 0

7473 0 0 0 0  
0 0 0 0  
0 0 1 0  
0 1 0 0

2499 0 0 0 0  
0 0 0 0  
0 0 0 0  
0 1 0 0

45 tracks counted in 10x10 sq.

Date: 5-5-85	Start time	Tides
Weather $\phi$ & breeze	Temp 28.4 (Air)	28.2 (Sea) (Sand) 113

Site: Rocketship.

				Same		Same
Track No.	1205	1232	1250	1301	1332	1345
Start / Stop	124	1238	1259	1324	1344	1356
Position	7010	5742	4396	4396	7257	=
Predator size species	16.65 Pc	9.1 Pc	8.4 Pc	8.4 Pc	9.6 Pc	=
Prey captured size / species	NIL	NIL	NIL	NIL	Ic 2.05	=
Sand	2/3	-	-	-	-	-
Ripple	3	-	-	-	-	-
Water	3	-	-	-	-	-
Slope	$\phi$	-	-	-	-	-
	presented prey but used not attack.	prey offered.		prey offered		prey offered

Date: 12/06/85	Start time 0945	Tides 0945
Weather & breeze dr sky	Temp 22.5 (Air) 23.3 (Sand)	20.5 (sea)

Site: Marwood Beach Twin Dead Trees.

Track No. Start / Stop	160 0945 0952	161 1002 1006	162 1016 1022	163 1024 1040		
Position	-	-	-	-		
Predator size species	PI ÷ 11.0	same animal	PI ÷ 11.0	same animal		
Prey captured size / species	nil	nil	nil	nil		
Sand	4	4	4	4		
Ripple	0	0	0	0		
Water	2	2	2	2		
Slope	1	1	1	1		
		Sun enc but captured prey		Sun enc not allowed to grasp.		


Date: 13/06/85	Start time 0918	Tides 10.31
Weather & breeze clr sky	Temp (Air)	20.5 (Sand)

Site: Marceca Beach Twin Dead Trees

Track No. Start / Stop	164 0918 0924	165 0927 0938	166 0945 0955	167 1002 1008	168 1023 1035	169 1041 1046	170 1049 1105
Position	-	- → same animal	-	-	-	-	-
Predator size species	P.I. ? ± 11.0	PI ? ± 11.0	PI 11.18	PI 9.43	PI 10.64	PI ~ 11.0	→ same animal
Prey captured size / species	nil	nil	nil	nil	nil	nil	nil
Sand	4	4	4	4	4	4	4
Ripple	∅	∅	∅	∅	∅	∅	∅
Water	2	2	2	2	2	2	2
Slope	1	1	1	1	1	1	1
		sim prey enc	burrowed at end	offered prey bit grasped and would not let go. !!!	sim prey enc grasped prey which was forcibly removed !!!		sim prey enc not allowed to touch prey

Date: <sup>4</sup> 18/06/85	Start time	Tides 1031 0.50m.
Weather clr med breeze	Temp (Air)	22.0°C (Sand)

Site: MARCULA BEACH Twin Dead Trees.

Track No.	171 0952 1002	173 1022 1033	172 1005 1013			
Start / Stop						
Position	-	-	-			
Predator size	8.95	11.36 <del>8.95</del>	8.95			
species	PI	PI	PI			
Prey captured						
size / species	NIL	NIL	NIL			
Sand	4	4	4			
Ripples	0	0	0			
Water	2	2	2			
Slope	1	1	1			
		Sim enc no touch	Sim enc no touch			

Date: 17/06/85	Start time	Tides 1304	0.31
Weather clr strg breeze.	Temp 21.9°C (Air)	22.2°C (Sand)	

\* turned to cld & rain at ~~1300~~  
1300

Site: Marceola Surf Club.

Track No. Start / Stop	1144 1151	1154 1209	1219 1229	1231 1253		
Position	-	-	-	-		
Predator size species	8.58 PI	8.58 PI	~ 10.0 PI	~ 10.00 PI		
Prey captured size / species	NIL	NIL	NIL	NIL		
Sand	4	4	4	4		
Ripples	0	0	0	0		
Water	2	2	2	2		
Slope	1	1	1	1		
	→	Sim enc no touch several A?	→	Sim enc no touch		
		obs due to small crustaceans.		stopped due to rain		
				are still in progress		

Date: 18/06/85	Start Time	Tides 1341 0.31
Weather 2/8 24 brg	Temp (Air)	24.0 (Sand)
		20.8 (Sea)

Site: Marcella Surf Club.

Track No. Start / Stop	1201 1204	1206 1228	1239 1244	1249 1246	1250 1256	
Position	-	-	-	-	-	
Predator size species	PI 11.25	PI 11.25	PI 9.30	PI med? size →	PI	
Prey captured size / species	NIL	NIL	NIL	NIL	NIL	
Sand	4	4	4	4	4	
Ripples	∅	∅	∅	∅	∅	
Water	2	2	2	2	2	
Slope	1	1	1	1	1	
	→ Sim enc no touch			→ Sim enc no touch		

Date: 18/06/85	Start time	Tides
Weather	Temp (Air)	(Sand)

Site: Marceola Surf Club.

	183	184	185	186		
Track No.	1302	1308	1334	1340		
Start / Stop	1307	1322	1339	1352		
Position	—	—	—	—		
Predator size species	PI 10.00	PI 10.00	PI 10.02	PI 10.02		
Prey captured size / species	NIL	NIL	NIL	NIL		
Sand	4	4	4	4		
Ripple	φ	φ	φ	φ		
Water	2	2	2	2		
Slope	1	1	1	1		
	Sim and touched prey.		Sim and no touch			
		sand T 24.2°C		burrowed		



Date: 190685	Start time	Tides 1418 0.32
Weather S/s 04 brz	Temp 20.9 <sup>Sea</sup> (Air)	24.5 (Sand)

Site: MARCOOLA BEACH Surf Club.

Track No. Start / Stop	1211 1217	1219 1238	1251 1253	1255 1404	1411 1442	1454 1456
Position	-	-	-	-	-	
Predator size species	13.95 PI	13.95 PI	10.15 PI	10.15 PI	8.04 PI	- PI
Prey captured size / species	NIL	NIL	NIL	NIL	NIL	PIPI ?
Sand	3	3	3	3	3	3
Ripples	φ	φ	φ	φ	φ	φ
Water	2	2	2	2	2	2
Slope	1	1	1	1	1	2
	Sim one no touch		Sim one no touch		Sim one no touch	Actual encounter with Pipi
				note after 1312 at marked intervals	at 15sec ter 10min then 1min intervals	

Date : 200685	Start time	Tides 1456	0.35
Weather 2/8 Lt breeze	Temp 21.2 ( <del>air</del> ) Sea	23.6	(sand)

Site : MARCOOLA Surf Club.

Track No.	1246	1326	1409			
Start / Stop	1316	1401	1520			
Position	Left of stairs	surf club	surf club			
Predator size species	PI 10.50	PI 9.30	PI 11.14			
Prey captured size / species	NIL	NIL	NIL			
Sand	3	3	3			
Ripple	φ	φ	φ			
Water	2 *	2	2			
Slope	2	1	1			
Obs / Notes.	* surface layer of water dried out.	sim one no touch	sim one no touch			
	sim one no touch					

Date : 260685	Start time	Tides 0819 0:38
Weather 8/8 no breeze	Temp — (Air)	15.6 (Sand)

Site : Marceola Surf Club.

Track No. Start / Stop	0730 0825	0838 0955				
Position	—	—				
Predator size species	9.18 PI	8.60 PI				
Prey captured size / species	NIL	NIL				
Sand	4	4				
Ripple	φ	φ				
Water	2	2				
Slope	1	1				
	Sim enc no touch	Sim enc no touch				
	30m fm dunes	30m fm dunes				

Date: 270685	Start time	Tides 0914 0.32
Weather clr & breeze	Temp — (Air) —	(Sand)

Site: MARCEOLA SURF CLUB

Track No. Start / Stop	0747 0827	0837 0907	0920 1013			
Position	—	—	—			
Predator size species	11.72 PI	14.05 PI	11.36 PI			
Prey captured size / species	NIL	NIL	NIL			
Sand	4	4	4			
Ripples	φ	φ	φ			
Water	2	2	2			
Slope	φ	φ	φ			
	Sim enc no touch	Sim enc no touch	Sim enc no touch			
	16.0°C	18.0°C	19.3°C			

Date: 280685	Start time	Tides 1000 0.26
Weather clr & breeze	Temp — (Air) —	(Sand)

Site: Marceola Surf Club.

Track No. Start / Stop	0812 0907	0916 1001	1013 1103			
Position	-	-	-			
Predator size species	PI 7.05	PI 12.86	PI 10.93			
Prey captured size / species	NIH 9.09mm	NIH 9.28	NIH 9.63			
Sand	4	4	4			
Ripple	φ	φ	φ			
Water	2	2	2			
Slope	1	1	1			
	sim enc no touch prey left in place	sim enc no touch prey left in place	sim enc no touch prey left in place			
	3 subseq encounters Pipi 9.09	no sub encounters	1 poss sub detection of prey			
Sand Temp.	18.6°C	20.5°C	-			

Date: 29/06/85	Start time —	Tides 1102 0.22
Weather clr st-mad breeze	Temp — (Air) —	(Sand)

Site: MARCULA SURF CLUB

Track No. Start / Stop	0910 0911	0920 0930	1000 1006	1014 1106		
Position	-	-	-	-		
Predator size species	8.37 PI	12.6 PI	12.2 PI	12.01 PI		
Prey captured size / species PP	— 8.34mm	— PP 8.29	— PP 8.72	— PP 9.46		
Sand	4	4	4	4		
Ripples	0	0	0	φ		
Water	2	2	2	2		
Slope	1	1	1	1		
	Sim enc no touch prey left in place.	→	→	→		
	prey captured 8.34mm	P. captured 8.29	P. captured 8.79	no capture		
	19.6°C	20.3°C	21.0°C	22.5		

Date: 30/06/88	Start time —	Tides 1156	0.19
Weather	Temp	(Air)	(Sand)

Site: Marcoran Surf Club

Track No. Start / Stop	0954 1007	1032 1050	1100 1102	1110 1205		
Position	45 - ~ 50 m.	⇒ =	⇒ =	⇒ =		
Predator size species	PI 11.61	PI 8.15	PI 8.86	PI 13.69		
Prey captured size / species <small>cap pp</small>	NIH PP 8.65	NIH PP 8.80	NIH PP 9.00	NIH PP 8.31		
Sand	4	4	4	4		
Ripple	0	0	0	0		
Water	2	2	2	2		
Slope	Φ = 1	0	0	0		
	Sim enc no touch prey left in place	⇒ =	⇒ =	⇒ =		
	no capture PP 8.65	no capture PP 8.80	capture PP 9.00	re encounter no capture PP 8.31 & 3.50		
	20.6°C	22.3°C	22.5°C	23.1°C		

Date: 01/07/85	Start time —	Tides 1246 0.20
Weather S/E strg wind	Temp — (Air) —	(Sand)

Site:

Track No. Start / Stop	1108 1135	1146 1148	1153 1254			
Position	42M	47M	—			
Predator size species	PI 10.20	PI 10.74	PI 10.89			
Prey captured size / species sim	NIL PP 8.60	NIL PP 9.40	NIL PP 8.43			
Sand	4	4	4			
Ripples	φ	φ	φ			
Water	2	2	2			
Slope	1	1	1			
	Sim enc no touch prey left in place	Sim enc no touch prey left in place	⇒ =			
	prey capture	no capture	no capture			
	21.6°C	23.5°C	22.2°C			