

## ***Appendices***

Appendix 1 – DATA: Sample localities, specimen data, and specimens photographed



Appendix 1

Station Data

Station Number	001	002	002	002	002	003	003	005	005	006	006
Sample Number	BS001	GR001	GR002	GR003	BS002	GR004	GR005	GR006	GR007	GR008	GR009
Gear	Small Epibenthic Sled Smith-Macintyre Grab		Smith-Macintyre Grab		Small Epibenthic Sled Smith-Macintyre Grab		Smith-Macintyre Grab		Smith-Macintyre Grab		Smith-Macintyre Grab
Location	Arafura Sea site A	Arafura Sea – Area B		Arafura Sea – Area B		Arafura Sea – Area B		Arafura Sea – Area B		Arafura Sea – Area B	
Location nickname	ADCP site	"BRUCE" site		"BRUCE" site		"BRUCE" site		"George"		"Kriton"	
Date (GMT)	1 May 2005	1 May 2005		1 May 2005		1 May 2005		4 May 2005		4 May 2005	
Julian Day	121	122		122		122		124		124	
Sea State	3-4	3-4		3-4		3-4		3		4	
Wind Direction (deg)	110	092		092		094		099		102	
Wind Speed (kt)	23	10		15		18.8		23		20.7	
Ship's Heading	110	078		078		079		108		108	
Begin sample											
Time (GMT)	11:16:00	00:14:56		00:24:27		00:31:45		07:03:00		13:34:00	
Time Local (AEST)	21:16:00	10:14:56		10:24:27		10:31:45		17:03:00		23:34:00	
Latitude deg	09	09		09		09		09		09	
Latitude min	54.010	47.992		47.986		47.947		52.775		50.466	
Latitude Decimal	-09.90017	-09.79987		-09.79977		-09.79977		-09.87958		-09.84110	
Longitude deg	134	135		135		135		135		135	
Longitude min	30.040	22.001		22.007		22.997		21.884		21.891	
Longitude Decimal	134.50067	135.36668		135.36678		135.38328		135.36473		135.36485	
Depth (m)	74	92		91.2		91.2		70		80	
Wire Out (m)	150	nr		nr		nr		NA		NA	
End sample		NA		NA		NA		NA		NA	
Time (GMT)	11:27:00					01:34:16					
Time Local	21:27:00					11:34:16					
Latitude deg	09					09					
Latitude min	54.002					47.985					
Latitude Decimal	-09.90000					-09.7998					
Longitude deg	134					135					
Longitude min	30.086					22.074					
Longitude Decimal	134.5014					135.3679					
Depth (m)	74					92					
Sample Description	Greenish grey mud with calcareous particles	Moderately sorted calcareous slightly muddy medium to fine sand (5GT10/1)		Moderately sorted calcareous slightly muddy medium to fine sand (5GT10/1)		Moderately sorted calcareous slightly muddy medium to fine sand (5GT10/1)		Sandy Mud 5Y4/3		Sandy Mud 5Y4/3	
Comments	geological sample taken	Mostly forams and dead mollusc shells; geology sample taken; semiquantitative		Mostly forams and dead mollusc shells; sample elutriated, heavy fraction discarded		Mostly forams and dead mollusc shells, heavy fraction discarded		CAM001: irregular ripples, relatively barren with no obvious biota		large specimens recovered from 5mm screen wash	
Sample containers	specimen containers 001-008, sample containers 009-012 total samples	specimen containers 001-002,005; sample 003-004 107		specimens 001-002,004; sample 002		specimens 001; sample 002		specimens 001-003; sample 004-005		specimens 001-004	
								CAM002: current ripples with flocculant brown sediment in swales; large burrows, some seen expelling sediment		elutriated, heavy fraction discarded; CAM004, 77m: bottom soft sediments, many burrows, heavily bioturbated	
								large specimens recovered from 5mm screen wash		large specimens recovered from 5mm screen wash	
								specimens 001-003; sample 004		specimens 001-003	
								sample 001; specimens 002-004		specimens 001-002	
										specimens 001-003, 005-006; sample 004	

Appendix 1

Station Data

Station Number	007	007	007	008	008	009	009	010	010	011
Sample Number	GR010	GR011	BS003	GR012	GR013	GR014	GR015	GR016	GR017	GR018
Gear	Smith-Macintyre Grab		Small Epibenthic Sled	Smith-Macintyre Grab		Smith-Macintyre Grab		Smith-Macintyre Grab		Smith-Macintyre Grab
Location	Arafura Sea – Area B		Arafura Sea – Area B	Arafura Sea – Area B		Arafura Sea – Area B		Arafura Sea – Area B		Arafura Sea – Area B
Location nickname	“John”	“John”	“John”	“Karen”	“Karen”	“Michele”	“Michele”	“Heapy”	“Heapy”	“Franz”
Date (GMT)	4 May 2005	4 May 2005	4 May 2005	4 May 2005	4 May 2005	4 May 2005	4 May 2005	5 May 2005	5 May 2005	5 May 2005
Julian Day	124	124	124	124	124	124	124	125	125	125
Sea State	4	4	4	4	4	4	4	4	4	2
Wind Direction (deg)	110	110	123	114	114	119	119	125	125	123
Wind Speed (kt)	17.5	17.5	17	17	17	17	17	15.7	15.8	17
Ship's Heading	187	187	111	111	111	107	107	137	100	109
Begin sample										
Time (GMT)	18:56:45	19:05:04	20:28:15	21:09:59	21:15:45	23:10:59	23:18:17	02:59:00	03:19:00	04:02:00
Time Local (AEST)	04:56:45	05:05:04	06:28:15	07:09:59	07:15:45	09:10:59	09:18:17	12:59:00	13:19:00	14:02:00
Latitude deg	09	09	09	09	09	09	09	09	09	09
Latitude min	50.118	50.126	50.035	49.952	49.933	49.279	49.294	48.760	48.774	47.768
Latitude Decimal	-09.83530	-09.83543	-09.83392	-09.83253	-09.83222	-09.82132	-09.82157	-09.81267	-09.81290	-09.79613
Longitude deg	135	135	135	135	135	135	135	135	135	135
Longitude min	17.762	17.766	17.740	19.638	19.656	19.582	19.599	15.398	15.412	16.935
Longitude Decimal	135.29603	135.29610	135.29567	135.32730	135.32760	135.32637	135.32665	135.25663	135.25687	135.28225
Depth (m)	83	83	82.8	83	83	83	83	81	82	84
Wire Out (m)										
End sample	NA	NA		NA	NA	NA	NA	NA	NA	NA
Time (GMT)										
Time Local			10:00:00							
Latitude deg			09							
Latitude min			50.580							
Latitude Decimal			-09.8430							
Longitude deg			135							
Longitude min			17.785							
Longitude Decimal			135.2964							
Depth (m)			82.8							
Sample Description	calcareous poorly-sorted muddy fine sand 5GY 5/1	calcareous poorly-sorted muddy fine sand 5GY 5/1		5GY 6/1; poorly sorted calcareous muddy fine sand; some calcareous gravel; mostly mollusc & foram fragments; organic material	5GY 6/1; poorly sorted calcareous muddy fine sand; some calcareous gravel; mostly mollusc & foram fragments; organic material	5Y 4/2; poorly-sorted calcareous muddy medium sand; mostly mollusc & foram fragments; some organic fragments	5Y 4/2; poorly-sorted calcareous muddy medium sand; mostly mollusc & foram fragments; some organic fragments	sandy mud GLEY 1 4/10Y	sandy mud GLEY 1 4/10Y	muddy sand; GLEY 1 4/10Y
Comments	large specimens recovered from 5mm screen wash	minor amounts of gravel, mollusc & foram fragments mostly; some organic matter	CAM006 showed scallop, burrows, possible sponge, sea pens	large specimens recovered from 5mm screen wash	elutriated, heavy fraction discarded; CAM007 showed small sand ripples & burrows with some rubble; relatively sparse biota	biology subsample, large specimens recovered	elutriated, heavy fraction discarded; CAM008 showed sediment in suspension; sandy irregular ripples; relatively sparse biota	biology subsample taken	elutriated, heavy fraction discarded. CAM009: irregular ripples, poorly defined; large burrows obvious; biota sparse	~1 kg sediment removed for geology; elutriated, heavy fraction discarded. CAM010: rippled sandy bed; ripples spread ~20cm & ~2-3 cm deep; bioturbation & burrows lower density than other sites; burrowseen expelling sand
Sample containers	specimens 001-003	sample 001; specimens 002-005	sample 001; specimens 002-015; shells in ethanol 016	specimens 001-002, 004-005; small sieved subsample	specimens 001; sample 002	specimen 001; small sieved subsample 002	sample 001; specimens 002-003	specimen 001	sample 001; specimens 002-004	sample 001; specimens 002-003

## Appendix 1

## Station Data

Station Number	012	013	013	013	014	015	015	015	016	016
Sample Number	GR019	GR020	GR021	DR001	GR023	GR024	GR025	BS004	GR026	GR027
Gear	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Diamentina Dredge	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Small Epibenthic Sled	Smith-Macintyre Grab	Smith-Macintyre Grab
Location	Arafura Sea – Area B	Arafura Sea – Area B	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East
Location nickname	“Craig”	“Green”	“Green”	“Green”	“SAR-1”	“SAR-2”	“SAR-2”	“SAR-2”	“Black”	“Black”
Date (GMT)	5 May 2005	10 May 2005	10 May 2005	10 May 2005	10 May 2005	10 May 2005	10 May 2005	10 May 2005	10 May 2005	10 May 2005
Julian Day	125	130	130	130	130	130	130	130	130	130
Sea State	2	2	2	2	2	2	2	3	3	3
Wind Direction (deg)	124	141	140	113	120	116	116	117	105	105
Wind Speed (kt)	18	16	16	12		15	15	14.1	13.5	13.5
Ship's Heading		115	119		013	115	115		149	149
Begin sample										
Time (GMT)	05:49:00	05:55:00	06:14:00	08:21:00	09:26:00	14:20:00	14:30:00	18:57:55	19:40:19	19:49:18
Time Local (AEST)	15:49:00	15:55:00	16:14:00	18:21:00	19:26:00	00:20:00	00:30:00	04:57:55	05:40:19	05:49:18
Latitude deg	09	09	09	09	09	09	09	09	09	09
Latitude min	47.593	25.080	25.081	24.933	24.141	22.631	22.630	22.660	24.100	24.097
Latitude Decimal	-09.79322	-09.41800	-09.41802	-09.41802	-09.40235	-09.37718	-09.37717	-09.37767	-09.40167	-09.40162
Longitude deg	135	134	134	134	134	134	134	134	134	134
Longitude min	16.636	18.780	18.779	18.619	14.268	12.802	12.830	12.870	11.660	11.675
Longitude Decimal	135.27727	134.31300	134.31298	134.31032	134.23780	134.21337	134.21383	134.21450	134.19433	134.19458
Depth (m)	85	87	88	89	97	106	106	105	87.2	87.2
Wire Out (m)										
End sample	NA	NA	NA		NA	NA	NA		NA	NA
Time (GMT)				08:23:00				19:00:06		
Time Local				18:23:00				05:00:06		
Latitude deg				09				09		
Latitude min				25.005				22.638		
Latitude Decimal				-09.4168				-09.3773		
Longitude deg				134				134		
Longitude min				18.700				12.842		
Longitude Decimal				134.3117				134.2140		
Depth (m)				89						
Sample Description	muddy sand; GLEY 1 4/10Y	Bioclastic sand 5Y 5/2	Bioclastic sand 5Y 5/2	Dredge mostly animals with few muddy sand balls	muddy silt GLEY 1 4/10Y	sandy mud 5Y 5/3	sandy mud 5Y 5/3	sandy mud	poorly sorted calcareous muddy fine to medium sand; some gravel, carbonate clasts; molluc & foram fragments; fresh to intermediat preservation; 5Y 5/4	poorly sorted calcareous muddy fine to medium sand; some gravel, carbonate clasts; molluc & foram fragments; fresh to intermediat preservation; 5Y 5/4
Comments	~1 kg sediment removed for geology; elutriated, heavy fraction discarded. no camera lowering	geology sediment sample, few animals removed	elutriated, heavy fraction discarded. CAM011: hard grounds with many sessile fauna (octocorals, crinoids, anemones)	Large sample of many sessile megafaunal individuals; CAM011 – hard grounds with many sessile fauna (octocorals, crinoids, anemones)	CAM012: soft muddy substrate with some mounds, fecal pellets rolling in current, no megafauna	CAM013: silty sea floor, heavily bioturbated with burrows, occasional mounds and a few fish. Sample nonquantitative – only washed ooze & topwater	sample elutriated, heavy fraction discarded. CAM013: silty sea floor, heavily bioturbated with burrows, occasional mounds and a few fish	small haul; only one bin of material	biology subsample from geology sample	sample elutriated, heavy fraction discarded. CAM014: patchy hard places among silty bioturbated sand; occasionally large macrofauna – octocorals, antipatherians, sea fans, sea whips, fish, possible diffuse hydroids
Sample containers	sample 001; specimens 002-3	specimen 001-002	specimen 001; sample 002	specimens 001-018, 020-067; sample 019	sample 001	sample 001; specimen 002	sample 001; specimen 002	sample 001; specimens 002-007	specimens 001-004	sample 001; specimens 002-003

Appendix 1

Station Data

Station Number	017	017	018	018	018	019	019	019	020
Sample Number	GR028	GR029	GR030	GR031	DR002	GR032	GR033	DR003	GR035
Gear	Smith-Macintyre Grab		Smith-Macintyre Grab	Smith-Macintyre Grab	Diamentina Dredge	Smith-Macintyre Grab	Smith-Macintyre Grab	Diamentina Dredge	Smith-Macintyre Grab
Location	Arafura Sea – Area C East		Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East
Location nickname	"Blue"	"Blue"	"SAR-3"	"SAR-3"	"SAR-3"	"Pink"	"Pink"	"Pink"	"Purple"
Date (GMT)	10 May 2005	10 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005
Julian Day	130	130	131	131	131	131	131	131	131
Sea State	3	3	2	2	2	1	1	1	1
Wind Direction (deg)	129	129	129	129	134	nr	nr	132	143
Wind Speed (kt)	10.9	10.9	12	12	12	13	13	14	13
Ship's Heading	138	138	134	134	285	nr	nr	nr	nr
Begin sample									
Time (GMT)	23:35:50	23:43:12	03:45:00	03:51:00	06:52:00	08:40:00	08:46:00	09:51:00	11:07:00
Time Local (AEST)	09:35:50	09:43:12	13:45:00	13:51:00	16:52:00	18:40:00	18:46:00	19:51:00	21:07:00
Latitude deg	09	09	09	09	09	09	09	09	09
Latitude min	23.600	23.610	23.171	23.170	23.106	22.990	22.990	22.910	21.370
Latitude Decimal	-09.39333	-09.39350	-09.38618	-09.38617	-09.38510	-09.38317	-09.38317	-09.38183	-09.35617
Longitude deg	134	134	134	134	134	134	134	134	134
Longitude min	10.370	10.300	10.043	10.040	10.122	9.780	9.780	9.840	7.086
Longitude Decimal	134.17283	134.17167	134.16738	134.16733	134.16870	134.16300	134.16300	134.16400	134.11810
Depth (m)	88	88	103	103	99	108	108	103	101
Wire Out (m)					250			200	
End sample	NA	NA	NA	NA		NA	NA		NA
Time (GMT)					07:08:00			09:58:00	
Time Local					17:08:00			19:58:00	
Latitude deg					09			09	
Latitude min					23.069			22.770	
Latitude Decimal					-09.3845			-09.3795	
Longitude deg					134			134	
Longitude min					09.847			09.940	
Longitude Decimal					134.1641			134.1657	
Depth (m)					99			103	
Sample Description			GLEY 1 4/10y, bioclastic muddy sand	GLEY 1 4/10y, bioclastic muddy sand	muddy bioclastic sand	muddy sand with bioclasts 5Y 5/2	several large rocks; bioclastic gravel & sand	muddy sand	bioclastic sand and gravel; recovery only 1/5
Comments	few specimens from geology sample	sample elutriated, heavy fraction discarded. CAM015: a field of sea pens on soft sediments, fish, minimal current; occasional large sessile megafauna – gorgonians, black corals; extensive sand Arafura Sea – Areas with silt and intermittant patches of hard grounds; sloping Arafura Sea – Area beginning at 84m to 95m	few specimens from geology sample	sample elutriated, heavy fraction discarded. CAM016: rocky outcrops with many species of sessile filterfeeding megafauna (mostly cnidarians) and a few fish; several cracks in rock around 20cm wide	Dredge probably got full of mud prior to reaching rocky ridge	sample not quantitative; washed only topwater and surface ooze	possible topwater loss; non-quantitative; sample elutriated, heavy fraction discarded. CAM017: muddy bioturbated sand Arafura Sea – Areas with sparse megafauna, fecal pellets and burrows; some harder Arafura Sea – Areas with sessile megafauna (sea whips, fans, octocorals)	dredge full of thick sediment – no rocks; geological sample taken – A; biology – B	sample may have lost topwater – nonquantitative; sample elutriated, heavy fraction discarded; CAM018: rocky bottom, fissures and ledges; hard bare surfaces interspersed with silty sloping Arafura Sea – Areas; "garden" of sea fans & octocorals; visibility poor, murky
Sample containers	specimen 001	sample 001; specimens 002-004	specimens 001-003	sample 001; specimens 002-004	sample 003; specimens 001-002	sample 001	sample 010; specimens 001-009	sample 001	sample 001; specimens 002-004

Appendix 1

Station Data

Station Number	020	021	022	022	023	023	023	023	024
Sample Number	DR005	GR037	GR038	GR039	GR040	GR041	GR042	DR006	GR043
Gear	Diamentina Dredge	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Diamentina Dredge	Smith-Macintyre Grab
Location	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East
Location nickname	“Purple”	“White”	“SAR-4”	“SAR-4”	“Gray”	“Gray”	“Gray”	“Gray”	“Orange”
Date (GMT)	11 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005	11 May 2005
Julian Day	131	131	131	131	131	131	131	131	131
Sea State	1	1	2	2	2	2	2	2	2
Wind Direction (deg)	143	115	112	112	128	128	134	123	111
Wind Speed (kt)	13	12	11.7	11.7	13.8	13.8	15.4	13.5	13.6
Ship's Heading	nr	117	107	107	275	275	020	010	119
Begin sample									
Time (GMT)	12:25:00	13:39:00	16:02:20	16:11:25	20:06:52	20:14:07	20:36:41	21:42:06	22:53:25
Time Local (AEST)	22:25:00	23:39:00	02:02:20	02:11:25	06:06:52	10:00:00	06:36:41	07:42:06	08:53:25
Latitude deg	09	09	09	09	09	09	09	09	09
Latitude min	21.380	21.380	22.547	22.560	20.939	20.938	20.940	20.961	20.392
Latitude Decimal	-09.35633	-09.35633	-09.37578	-09.37600	-09.34898	-09.34897	-09.34900	-09.34935	-09.33987
Longitude deg	134	134	134	134	134	134	134	134	134
Longitude min	7.160	4.970	3.585	3.600	3.444	3.445	3.430	3.457	1.977
Longitude Decimal	134.11933	134.08283	134.05975	134.06000	134.05740	134.05742	134.05717	134.05762	134.03295
Depth (m)	110	112	121	121	140	140	140	138	132
Wire Out (m)	280								
End sample		NA	NA	NA	NA	NA	NA		NA
Time (GMT)	12:25:00							21:48:31	
Time Local	22:25:00							07:48:31	
Latitude deg	09							09	
Latitude min	21.170							20.830	
Latitude Decimal	-09.3528							-09.3472	
Longitude deg	134							134	
Longitude min	07.120							03.500	
Longitude Decimal	134.1187							134.0583	
Depth (m)	110							138	
Sample Description	muddy sand with coral rubble and shells	sandy mud GLEY 1 5/5GY	oozy mud GY 5/3; calcareous poorly sorted, very fine sand grains (<300 micron)	oozy mud GY 5/3; calcareous poorly sorted, very fine sand grains (<300 micron)	single large boulder – no sediment; indurated crust (large vesicles); well-developed weathering rind; burrows filled with mud	poorly sorted calcareous gravelly mud (high water content); 5Y 5/4	poorly sorted calcareous gravelly mud (high water content); 5Y 5/4	sample contains: solitary corals; indurated limestone (worm tubes, weathered vesicles – many chunks up to 25cm diameter, well developed weathering rinds); staghorn coral (shallow water) – older (later sea level); carnivorous corals (deep water) – younger	poorly sorted calcareous mud, 5Y 5/3; no sand grains or gravel clasts
Comments	subsamples: A – geological sample; B – biology; C – coral rock fragments	CAM019: muddy substrate, occasional burrows; turbidity in water high	sieved all for biology; only small geology sample removed; mostly quantitative	washed entire sample. CAM020: soft flocculant sediment; bioturbated with many burrows approx. 50-100 per metre square; occasional fish; turbid layer starts at 85mwo	specimen removed from rock	geology sample sieved for biology; nearly quantitative sample elutriated, heavy fraction discarded.	sample elutriated, heavy fraction discarded. CAM021: soft bottom, turbid benthic layer, poor visibility; sparse megafauna, occasional sea whip; patches of firmer substrate with sessile megafauna (gorgonian, black coral, crinoid); some sandy mud	no sediment	entire sample passes through 0.3 mm sieve. small geological sample removed (~0.25 L); nearly quantitative
Sample containers	sample 010; specimens 001-009,011-026	sample 001; specimen 002	sample 001; specimens 002-003	sample 001	specimen 001	sample 001	sample 001; specimens 002-004	specimens 001-004	sample 001

Appendix 1

Station Data

Station Number	024	025	025	026	027	027	028	028	029	029
Sample Number	GR044	GR045	DR007	GR046	GR047	GR048	GR049	GR050	GR051	GR052
Gear	Smith-Macintyre Grab		Diamentina Dredge	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab
Location	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C East	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre
Location nickname	“Orange”	“Indigo”	“Indigo”	“Marine”	“Benson”	“Benson”	“Pinky”	“Pinky”	“Scobby”	“Scobby”
Date (GMT)	11 May 2005	12 May 2005	12 May 2005	12 May 2005	13 May 2005	13 May 2005	13 May 2005	13 May 2005	13 May 2005	13 May 2005
Julian Day	131	132	132	132	133	133	133	133	133	133
Sea State	2	2	1	1	2	2	3	3	3	3
Wind Direction (deg)	115	106	116	126	113	113	130	130	125	125
Wind Speed (kt)	14.7	12.5	1.6	13	18	18	16.2	16.2	16.3	16.3
Ship's Heading	119	111	143	124	115	115	122	122	109	109
Begin sample									187	
Time (GMT)	23:06:30	01:48:01	03:12:00	06:05:00	12:23:00	12:29:00	16:23:20	16:31:36	19:00:37	19:11:06
Time Local (AEST)	09:06:30	11:48:01	13:12:00	16:05:00	22:23:00	22:29:00	02:23:20	02:31:36	05:00:37	05:11:06
Latitude deg	09	09	09	09	09	09	09	09	09	09
Latitude min	20.392	19.746	19.720	15.480	22.870	22.870	20.029	20.027	18.225	18.210
Latitude Decimal	-09.33987	-09.32910	-09.32867	-09.25800	-09.38117	-09.38117	-09.33382	-09.33378	-09.30375	-09.30350
Longitude deg	134	134	134	133	133	133	133	133	133	133
Longitude min	1.980	1.754	1.750	48.000	39.880	39.890	41.452	41.452	41.805	41.820
Longitude Decimal	134.03300	134.02923	134.02917	133.80000	133.66467	133.66483	133.69087	133.69087	133.69675	133.69700
Depth (m)	131	111	111	147	112	112	122	117	187	187
Wire Out (m)			281							
End sample	NA	NA		NA	NA	NA	NA		NA	NA
Time (GMT)			03:35:00							
Time Local			13:35:00							
Latitude deg			09							
Latitude min			19.890							
Latitude Decimal			-09.3315							
Longitude deg			134							
Longitude min			01.780							
Longitude Decimal			134.0297							
Depth (m)			111							
Sample Description	poorly sorted calcareous mud, 5Y 5/3; no sand grains or gravel clasts	poorly sorted calcareous muddy medium sand 5Y 5/4	muddy sand	mud 5Y 5/3	5y 5/4 muddy sand	5y 5/4 muddy sand	poorly sorted calcareous sandy mud, with some gravel 5Y 5/4; gravel clods are all calcareous, mostly mollusc fragments, fresh to intermediate preservation	poorly sorted calcareous sandy mud, with some gravel 5Y 5/4; gravel clods are all calcareous, mostly mollusc fragments, fresh to intermediate preservation	poorly-sorted slightly gravelly mud, 5Y 5/3; high water content on surface, calcareous gravel clasts have fresh preservation	poorly-sorted slightly gravelly mud, 5Y 5/3; high water content on surface, calcareous gravel clasts have fresh preservation
Comments	entire sample passes through 0.3 mm sieve. CAM022: muddy heavily bioturbated substrate; turbid poor visibility below 90m depth; strong current observed; occasional rocks seen	sample nonquantitative, hard to wash with bioclasts, sand and heavy clay; clay clods rinsed but not sieved. CAM023: hard bottom with patches of softer bioturbated ground; many large sessile megafauna (many sea whips, gorgonians, sponges, soft coral) and occasional fish	subsamples A, geology ; B, biology, C, large coral fragments	subsamples A, geology; B, biology; nearly quantitative. CAM024: flat & soft sea floor, bioturbated & burrowed; few fish	subsamples A, geology; B, biology – surface ooze and top water only; elutriated, heavy fraction discarded	sample elutriated, heavy fraction discarded; ophiuroid at this site showing escape bioluminescence. CAM025: level bioturbated bottom covered with detritus & faecal pellets (no current ripples)	subsamples A, geology; B, biology – surface ooze and top water only; nonquantitative	elutriated, heavy fraction discarded. CAM026: poor visibility, sed. must be resuspended from current, bottom muddy bioturbated bottom with occasional hard sufaces with sessile megafauna	subsamples A, geology; B, biology – surface ooze and top water only; not quantitative	elutriated, heavy fraction discarded. CAM028: turbid, poor visibility; bioturbated, sparse megafauna interspersed with hard grounds having much megafauna
Sample containers	sample 001; specimen 002	sample 001	sample 001; specimen 002	sample 001	sample 001	sample 001; specimen 002	sample 001; specimen 002	sample 001	sample 001	sample 001; specimen 002

Appendix 1

Station Data

	030	030	031	032	034	035	037	037
Station Number	030	030	031	032	034	035	037	037
Sample Number	GR053	GR054	BS005	BS006	BS007	BS008	GR056	GR057
Gear	Smith-Macintyre Grab	Smith-Macintyre Grab	Small Epibenthic Sled	Small Epibenthic Sled	Small Epibenthic Sled	Small Epibenthic Sled	Smith-Macintyre Grab	Smith-Macintyre Grab
Location	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre	Arafura Sea – Area C Centre	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West
Location nickname	“Bunsai”	“Bunsai”	“Tom”	“Lucy”	“Sellers”	“Clavier”	“Cleese”	“Cleese”
Date (GMT)	13 May 2005	13 May 2005	14 May 2005	14 May 2005	17 May 2005	17 May 2005	17 May 2005	17 May 2005
Julian Day	133	133	134	134	137	137	137	137
Sea State	3	3	1	3	2	2	3	3
Wind Direction (deg)	125	125	138	129	131	137	114	110
Wind Speed (kt)	16.1	16.1	16	18.4	17.6	19	16	15.4
Ship's Heading	111	111	044	123	008	130	109	110
Begin sample								
Time (GMT)	22:13:56	22:24:09	10:52:00	19:14:48	01:05:12	12:55:00	15:36:46	15:46:09
Time Local (AEST)	08:13:56	08:24:09	20:52:00	05:14:48	11:05:12	22:55:00	01:36:46	01:46:09
Latitude deg	09	09	09	09	09	09	09	09
Latitude min	13.640	13.650	05.641	12.331	01.834	01.928	05.924	05.925
Latitude Decimal	-09.22733	-09.22750	-09.09402	-09.20552	-09.03057	-09.03213	-09.09873	-09.09875
Longitude deg	133	133	133	133	133	133	133	133
Longitude min	41.900	41.900	44.786	38.903	6.340	9.654	11.891	11.897
Longitude Decimal	133.69833	133.69833	133.74643	133.64838	133.10567	133.16090	133.19818	133.19828
Depth (m)	151	151	165	158	210	220	126	126
Wire Out (m)			415			600		
End sample	NA	NA					NA	NA
Time (GMT)			11:02:00	19:17:47	01:11:01	13:14:00		
Time Local			21:02:00	05:17:47	11:11:01	23:14:00		
Latitude deg			09	09	09	09		
Latitude min			05.455	12.319	01.727	02.231		
Latitude Decimal			-09.0909	-09.2053	-09.0288	-09.0372		
Longitude deg			133	133	133	133		
Longitude min			44.846	38.823	06.335	09.574		
Longitude Decimal			133.7474	133.6471	133.1056	133.1596		
Depth (m)			165	158	210	220		
Sample Description	poorly-sorted calcareous slightly sandy mud, 5Y 5/3; sand & grains are forams and mollusc fragments; high water content at surface	poorly-sorted calcareous slightly sandy mud, 5Y 5/3; sand & grains are forams and mollusc fragments; high water content at surface	high water content mud 5Y 5/3	high water content mud 5Y 5/3	high water content unconsolidated calcareous mud (poorly sorted) 5Y 5/4	probably high water content mud; sample heavily winnowed, only minor shell grit remaining	calcareous slightly muddy coarse sand & gravel, poorly sorted, sand & gravel fractions mostly mollusc fragments, 5Y 5/4	calcareous slightly muddy coarse sand & gravel, poorly sorted, sand & gravel fractions mostly mollusc fragments, 5Y 5/4
Comments	subsamples A, geology; B, biology – surface ooze and top water only; nonquantitative	elutriated, heavy fraction discarded. CAM029: turbid, poor visibility; bioturbated, sparse megafauna interspersed with hard grounds having much megafauna	small sample – net bag not closed properly – leaked sample. Seafloor condition via CAM030: turbid, poor visibility; bioturbated oozy mud, sparse megafauna	large sample – 2 fish bins full of soft sediment. Seafloor condition via CAM031: turbid, poor visibility; bioturbated oozy mud, sparse megafauna	Large sample, two bins full oozy mud. Subsample taken for sedimentology. CAM033: uneven mounded buturbated seafloor with occasional fish and large holes (Nephropids?)	Sample heavily winnowed, saved bag washings; sample taken from sled opening for sedimentology. CAM035: muddy bioturbated sediments, turbidity & particulate matter in water above bottom	Non-quantitative, geology sample removed; washed only surface oozy layer and topwater	quantitative, sand & gravel elutriated (molluscs probably not quantitative) and then discarded; took subsample of washed sand & shell gravel. CAM036: relatively flat hard bottom; shelly sand with no burrows; many large sessile filterfeeding megafauna; shelly debris is subfossil oyster shells, typical of shallow lagoon or mangroves thus possibly from last low stand of sea level
Sample containers	sample 001	sample 001; specimen 002	sample 001; specimen 002	sample 001, 006-007; specimens 002-005, 008	sample 001, 003; specimen 002	sample 001	sample 001; specimens 002-003	sample 001-002

Appendix 1

Station Data

Station Number	038	038	038	038	038	039
Sample Number	GR058	GR059	GR060	DR009	DR010	GR061
Gear	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Rock Dredge	Diamentina Dredge	Smith-Macintyre Grab
Location	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West
Location nickname	"Neill"	"Neill"	"Neill"	"Neill"	"Neill"	"Tati"
Date (GMT)	17 May 2005	17 May 2005	17 May 2005	17 May 2005	17 May 2005	17 May 2005
Julian Day	137	137	137	137	137	137
Sea State	3	3	3	3	3	3
Wind Direction (deg)	117	117	117	110	110	112
Wind Speed (kt)	19	19	19	17.9	17.9	16.7
Ship's Heading	113	113	113	114	114	094
Begin sample						
Time (GMT)	19:19:20	19:20:34	19:37:40	20:36:49	21:30:19	22:47:00
Time Local (AEST)	05:19:20	05:20:34	05:37:40	06:36:49	07:30:19	08:47:00
Latitude deg	09	09	09	09	09	09
Latitude min	10.777	10.771	10.774	10.832	10.781	10.251
Latitude Decimal	-09.17962	-09.17952	-09.17957	-09.18053	-09.17968	-09.17085
Longitude deg	133	133	133	133	133	133
Longitude min	24.815	24.815	24.820	24.822	24.744	23.535
Longitude Decimal	133.41358	133.41358	133.41367	133.41370	133.41240	133.39225
Depth (m)	128	128	129	170	174	124
Wire Out (m)						
End sample	NA	NA	NA			NA
Time (GMT)				20:43:10	21:38:08	
Time Local				06:43:10	07:38:08	
Latitude deg				09	09	
Latitude min				11.672	10.768	
Latitude Decimal				-09.1945	-09.1795	
Longitude deg				133	133	
Longitude min				24.857	24.904	
Longitude Decimal				133.4143	133.4151	
Depth (m)				129	174	
Sample Description	calcareous poorly sorted slightly muddy sandy gravel, sand fraction is coarse, sand & gravel fractions are carbonate fragments, fresh to int preservation, maybe some lithics & terrigenous sands (beach sand?), 5Y 5/4	calcareous poorly sorted slightly muddy sandy gravel, sand fraction is coarse, sand & gravel fractions are carbonate fragments, fresh to int preservation, maybe some lithics & terrigenous sands (beach sand?), 5Y 5/4	calcareous poorly sorted slightly muddy sandy gravel, sand fraction is coarse, sand & gravel fractions are carbonate fragments, fresh to int preservation, maybe some lithics & terrigenous sands (beach sand?), 5Y 5/4	Large fragments of limestone; strongly cemented, weathered and encrusted, rind 0.5cm thick. Limestone is coarsegrained of mostly mollusc shells - beach, fine gravel (mostly mollusc shells. Lithotypes: coarse limestone, limestone with black stain (manganese), oyster shells, coral fragments	Several rocks consisting of coarse limestone, sample mostly consisting of oyster shells and sessile megafaunal filterfeeders	poorly sorted calcareous muddy coarse sand, gravel and asnd fractions are calcareous (intermediate preservation), 5Y 5/4 (Munsell)
Comments	nonquantitative, sample on hard ground, little sediment retained; sample is only gravel from bottom of grab	nonquantitative, sample on hard ground, little sediment retained; sample consists of gravel washings only	nonquantitative, sample on hard ground, little sediment retained; sample consists of gravel washings only	dredge taken up the slope	dredge taken at top of bank	nonquantitative, sample only elutriation of gravel, sedimentological sample taken
Sample containers	sample 001; specimens 002-003	sample 001; specimens 002-007	sample 001; specimens 002-004	specimens 001-004	sample 028, 036; specimens 001-027, 029-035	sample 001; specimens 002-005

**Appendix 1**

**Station Data**

	039	040	040	041	041	042	043	043
Station Number	039	040	040	041	041	042	043	043
Sample Number	GR062	GR063	GR064	GR065	GR066	DR011	GR068	GR069
Gear	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Rock Dredge	Smith-Macintyre Grab	Smith-Macintyre Grab
Location	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West	Arafura Sea – Area C West II	Arafura Sea – Area C West II
Location nickname	“Tati”	“Blanchette”	“Blanchette”	“Kidman”	“Kidman”	“Collette”	“Rose”	“Rose”
Date (GMT)	17 May 2005	18 May 2005	18 May 2005	18 May 2005	18 May 2005	18 May 2005	19 May 2005	19 May 2005
Julian Day	137	138	138	138	138	138	139	139
Sea State	3	3	3	2	2	2	1	1
Wind Direction (deg)	112	120	120	137	137	135	123	123
Wind Speed (kt)	16.7	18.3	18.3	19	19	16	17	17
Ship's Heading	094	115	115	126	126	328	116	116
Begin sample								
Time (GMT)	22:57:00	00:53:04	01:08:14	03:17:00	03:38:00	07:11:00	12:02:00	12:15:00
Time Local (AEST)	08:57:00	10:53:04	11:08:14	13:17:00	13:38:00	17:11:00	22:02:00	22:15:00
Latitude deg	09	09	09	09	09	09	09	09
Latitude min	10.264	09.028	09.005	07.585	07.587	07.018	05.378	05.365
Latitude Decimal	-09.17107	-09.15047	-09.15008	-09.12642	-09.12645	-09.11697	-09.08963	-09.08942
Longitude deg	133	133	133	133	133	133	133	133
Longitude min	23.537	23.450	23.449	25.287	25.289	24.725	25.106	25.090
Longitude Decimal	133.39228	133.39083	133.39082	133.42145	133.42148	133.41208	133.41843	133.41817
Depth (m)	124	141	141	199	199	204	226	226
Wire Out (m)								
End sample	NA	NA	NA	NA	NA		NA	NA
Time (GMT)						07:24:00		
Time Local						17:24:00		
Latitude deg						09		
Latitude min						07.778		
Latitude Decimal						-09.1296		
Longitude deg						133		
Longitude min						24.438		
Longitude Decimal						133.4073		
Depth (m)						204		
Sample Description	poorly sorted calcareous muddy coarse sand, gravel and asnd fractions are calcareous (intermediate preservation), 5Y 5/4 (Munsell)	calcareous muddy medium sand, sponge spicules (?), 5Y 5/3	calcareous muddy medium sand, 5Y 5/3	high water content mud 5Y 5/2	high water content mud 5Y 5/2	80% mud, 10% shells; lithologies marly limestone, coarse limestone, corals	5Y 5/3 bioclastic muddy grit	5Y 5/3 bioclastic muddy grit
Comments	nonquantitative, sample only elutriation of gravel, topwater lost. CAM038: hard pavement, sandy & calcareous surface, scattered patches of bioturbated soft sediment; negligible current, low turbidity, good visibility; many large sessile filter-feeding megafauna, fish and large crustaceans; bioturbated patches with mounds from worms or enteropneusts	nonquantitative, sedimentology sample taken, top water and surface only washed	quantitative, sand elutriated but not retained (molluscs nonquantitative). CAM039: flat sandy bottom, reasonably hard with some bioturbation with intermittent sand ripples (less than ~10cm wave length, less than ~5 cm high); occasional filterfeeders, small fish, echinoids & anemones	semiquantitative – sedimentology sample removed; washed remaining sample	fully quantitative – washed entire sample through 0.33mm screen. CAM040: flat bioturbated bottom, worm tubes & occasional holes (15cm across)	specimens extracted from thick mud. CAM041: bioturbated muddy bottom interspersed with rocky outcrops having large sessile filter feeders	nonquantitative, sedimentology sample taken, top water and surface ooze only washed	sample with shell grit and coral debris (saved example) elutriated; stem sections of stalked crinoid present. CAM042: bioturbated soft sediments interspersed with hard rocky surfaces having sessile filterfeeders, including stalked crinoid
Sample containers	sample 001; specimens 002-007	sample 001	sample 001	sample 001	sample 001	specimens 001-002	sample 001	sample 001, 007-008; specimens 002-006

## Appendix 1

## Station Data

Station Number	043	044	044	045	045	047	048	048	049	049
Sample Number	DR012	GR070	DR013	GR072	DR014	BS009	GR073	GR074	GR075	GR076
Gear	Rock Dredge	Smith-Macintyre Grab	Diamantina Dredge	Smith-Macintyre Grab	Rock Dredge	Small Epibenthic Sled	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab
Location	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C West II
Location nickname	“Rose”	“Jennifer”	“Jennifer”	“Hugh”	“Hugh”	“Elle”	“Amanda”	“Amanda”	“Naomi”	“Naomi”
Date (GMT)	19 May 2005	19 May 2005	19 May 2005	19 May 2005	19 May 2005	20 May 2005	20 May 2005	20 May 2005	20 May 2005	20 May 2005
Julian Day	139	139	139	139	139	140	140	140	140	140
Sea State	1	2	2	2	2	3	1	1	1	1
Wind Direction (deg)	127	123	112	122	112	110	122	122	104	104
Wind Speed (kt)	19	18	17.9	19.4	15.7	16.1	18	18	21	21
Ship's Heading			099	101	298	090	107	107	093	093
Begin sample										
Time (GMT)	14:17:00	17:38:13	18:16:41	19:33:15	20:46:36	01:57:47	03:39:00	03:51:00	08:26:00	08:37:00
Time Local (AEST)	00:17:00	03:38:13	04:16:41	05:33:15	06:46:36	11:57:47	13:39:00	13:51:00	18:26:00	18:37:00
Latitude deg	09	09	09	09	09	09	09	09	09	09
Latitude min	05.312	01.771	01.863	01.806	01.810	01.838	00.122	00.110	05.780	05.787
Latitude Decimal	-09.08853	-09.02952	-09.03105	-09.03010	-09.03017	-09.03063	-09.00203	-09.00183	-09.09633	-09.0965
Longitude deg	133	133	133	133	133	133	133	133	133	133
Longitude min	2.989	14.606	14.654	14.681	14.720	15.015	12.058	12.055	17.207	17.203
Longitude Decimal	133.04982	133.24343	133.24423	133.24468	133.24533	133.25025	133.20097	133.20092	133.28678	133.28672
Depth (m)	226	214	216	227	234	233	222	222	161	161
Wire Out (m)					460	490				
End sample		NA		NA			NA	NA	NA	NA
Time (GMT)	14:45:00		18:33:42		20:58:47	02:15:41				
Time Local	00:45:00		04:33:42		06:58:47	12:15:41				
Latitude deg	09		09		09	09				
Latitude min	05.465		01.746		01.734	02.172				
Latitude Decimal	-09.0911		-09.0291		-09.0289	-09.0362				
Longitude deg	133		133		133	133				
Longitude min	24.165		14.628		14.492	14.849				
Longitude Decimal	133.4028		133.2438		133.2415	133.2475				
Depth (m)	201		216		234	233				
Sample Description	dredge half full of clayey mud & shell grit; lithotypes deep water barnacle shells, corals, weathered limestone, grey limestone	calcareous muddy gravel and cobbles in bottom of grab; cobbles heavily bored, encrusted & weathered; 5Y 4/4	lithotypes: encrusted oyster shells, mudstone, weathered mudstone with muddy gravel	large rock lost on recovery	Lithotypes: calcareous sandy mud with mudstone gravel fragments; weathered & lithified mudstone; sand dwelling gastropod; semi-lithified calcareous mudstone – highly burrowed and weathered.	bag 1/3 full oozy mud & some shell grit; sedimentological sample taken – calcareous slightly sandy mud, 5Y 4/4	bioclastic muddy sand 5Y 4/2	bioclastic muddy sand 5Y 4/2	grab 1/2 full; coarse bioclastic muddy sand 5Y 5/3	large rock in jaws of grab
Comments	several specimens washed from thick mud	nonquantitative, sedimentology sample taken, top water and surface only washed	CAM043: bubbly rocky substrate with exposed pebbles and patches of muddy gravel or sand; relatively sparse biota including crinoids, anenomes and a few fish	grab broken on hard ground – no sediment sample; small sea star recovered from grab a few hours later	Two kinds of burrows in rocks: large made by fan worms (chemical burrowing); short made by Pholids bivalves (mechanical burrowing). CAM044: visibility limited water turbid, rocky substrate with veneer of sediment & sediment patches; biota sparse – starfish, sponges including hexactinellid, occasional fish; also saw spring off grab	CAM046: bioturbated soft bottom with large depressions & mounds, pockmarks, few sessile animals, many small fish	nonquantitative sample – only surface ooze & topwater washed; sedimentological sample taken; only 1 burrowing echoid present	15 fragile burrowing echinoids present; elutriated shell grit. CAM047: bioturbated soft sediment with large burrows containing fish & sea urchin	nonquantitative, sedimentology sample taken, top water and surface only washed	washings of rock only
Sample containers	specimens 001-012	sample 001	specimens 001-007	specimen 001	specimens 001-005	sample 001-003	sample 001; specimens 002-003	sample 001; specimens 002	sample 001; specimens 002-003	sample 001; specimen 002

Appendix 1

Station Data

Station Number	049	049	050	051	053	053	055	056	057	060
Sample Number	GR077	GR078	BS011	BS010	GR080	DR015	GR081	BS012	BS013	BS014
Gear	Smith-Macintyre Grab		Small Epibenthic Sled	Small Epibenthic Sled	Smith-Macintyre Grab	Rock Dredge	Smith-Macintyre Grab	Small Epibenthic Sled	Small Epibenthic Sled	Small Epibenthic Sled
Location	Arafura Sea – Area C West II	Arafura Sea – Area C West II	Arafura Sea – Area C South	Arafura Sea – Area C South	Arafura Sea – Area C South	Arafura Sea – Area C South	Arafura Sea – Area C South	Arafura Sea – Area C South	Arafura Sea – Area D	Arafura Sea – Area D
Location nickname	“Naomi”	“Naomi”	“Mawong”	“Nannagai”	“Bonito”	“Bonito”	“Loc”	“Corvina”	“Petrel”	“Flamingo”
Date (GMT)	20 May 2005	20 May 2005	21 May 2005	21 May 2005	21 May 2005	21 May 2005	21 May 2005	22 May 2005	24 May 2005	24 May 2005
Julian Day	140	140	141	141	141	141	141	142	144	144
Sea State	1	1	2	2	2	2	4	4	1	3
Wind Direction (deg)	104	104	113	120	106	106	100	105	126	135
Wind Speed (kt)	21	20	16	19	16.8	17	23	24.1	17	16.4
Ship's Heading	093	093	102	105	98		72	96	134	109
Begin sample										
Time (GMT)	08:46:00	08:54:00	15:00:10	11:26:00	17:04:47	19:08:24	21:35:41	01:32:53	09:32:00	21:27:49
Time Local (AEST)	18:46:00	18:54:00	01:00:10	21:26:00	03:04:47	05:08:24	07:35:41	11:32:53	19:34:00	07:27:49
Latitude deg	09	09	09	09	09	09	09	09	09	09
Latitude min	05.782	05.783	11.997	13.150	10.540	10.565	09.259	09.727	32.923	36.628
Latitude Decimal	-09.0964	-09.0964	-09.2000	-09.2192	-09.1757	-09.1761	-09.1543	-09.1621	-09.5487	-09.6105
Longitude deg	133	133	133	133	133	133	133	133	133	134
Longitude min	17.195	17.208	26.109	29.412	29.672	29.764	29.086	31.958	57.801	10.952
Longitude Decimal	133.28658	133.28680	133.43515	133.49020	133.49453	133.49607	133.48477	133.53263	133.96335	134.18253
Depth (m)	161	162	178	175	136	155	174	182	107	095
Wire Out (m)				440		450		450	250	
End sample	NA	NA			NA		NA			
Time (GMT)			15:12:06	11:37:00		19:17:59		01:44:39	09:46:00	21:36:52
Time Local			01:12:06	21:37:00		05:17:59		11:44:39	19:46:00	07:36:52
Latitude deg			09	09		09		09	09	09
Latitude min			12.029	13.284		10.508		09.830	33.091	36.588
Latitude Decimal			-09.2005	-09.2214		-09.1751		-09.1638	-09.5515	-09.6098
Longitude deg			133	133		133		133	133	134
Longitude min			26.252	29.546		29.560		32.302	57.189	10.872
Longitude Decimal			133.4375	133.4924		133.4927		133.5384	133.9532	134.1812
Depth (m)			178	175		170		182	107	95
Sample Description	rock in jaws of grab plus sandy bioclastic sediment	bioclastic sandy mud with shell gravel 5Y 5/3	calcareous poorly sorted mud (with some thick clay) 5Y 5/4	calcareous poorly sorted soft mud	calcareous muddy gravel, with mostly shell fragments coral, 5Y 5/4	rocks and mud: calcareous mudstone, oyster shells, coral or bryozoan fragments, coarse limestone	poorly sorted calcareous gravelly mud (5Y 5/4) with 1 cobble of coarse limestone	poorly sorted calcareous mud, 5Y 5/3	sandy mud 5Y 5/2	sandy mud 5Y 5/2
Comments	ophioid found on rock only	entire sample elutriated; CAM048: hard substrate with scattered boulders, visibility limited by particulates in water column; large sessile epifauna visible including sponges, sea anemones, octocorals, black corals and stalked/unstalked crinoids	sled with doors retied open; sample had much thick clayey mud – suspect sled dug deeper than surface layer	sled doors had closed owing to damaged ropes; suspect doors did not open on bottom; sample small, washed entire bag contents. NB: station numbers out of temporal sequence	non-quantitative sample – sedimentology sample taken, washed only surface sediments away	Recovered some specimens from mud. CAM051: rocky substrate, some overhangs, with sessile filter feeders, grading downslope to soft silty mud and no epifauna	nonquantitative, sedimentology sample taken, top water and surface only washed	sedimentology sample taken, large volume of sediment subsampled. CAM053: soft bioturbated substrate, poor visibility, few megafauna	large sample, washed 1.5 bin full, with shell ethanol; geology bulk sample also taken. CAM054: fairly featureless muddy bottom with some bioturbation and burrows	large sample, washed 1.2 bin full; excluded clods and shell grit; no geology bulk sedimentology sample. Camera fairly featureless muddy bottom with some bioturbation and burrows
Sample containers	specimen 001	sample 001; specimen 002	samples 001-002	sample 001	sample 001; specimens 002	specimens 001-021	sample 001	sample 001	sample 001,003; specimen 002	sample 001; specimen 002

Appendix 1

Station Data

Station Number	061	063	064	064	002	002
Sample Number	GR082	BS015	GR083	GR084	GR085	GR086
Gear	Smith-Macintyre Grab	Small Epibenthic Sled	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab	Smith-Macintyre Grab
Location	Arafura Sea – Area D	Arafura Sea – Area D	Arafura Sea – Area B	Arafura Sea – Area B	Arafura Sea – Area B	Arafura Sea – Area B
Location nickname	“Gull”	“Albatros”	“Stratto”	“Stratto”	“Bruce”	“Bruce”
Date (GMT)	24 May 2005	25 May 2005	25 May 2005	25 May 2005	26 May 2005	26 May 2005
Julian Day	144	145	145	145	146	146
Sea State	3	3	3	4	3	3
Wind Direction (deg)	98	110	128	120	103	116
Wind Speed (kt)	20.7	19	22.8	24.2	17.6	16.6
Ship's Heading	125	113	120	122	97	87
Begin sample						
Time (GMT)	22:52:06	06:23:00	17:37:49	17:46:28	01:26:29	01:33:51
Time Local (AEST)	08:52:06	16:23:00	03:37:49	03:46:28	11:26:29	11:33:51
Latitude deg	09	09	09	09	09	09
Latitude min	37.579	39.701	44.317	44.316	47.993	47.993
Latitude Decimal	-09.6263	-09.6617	-09.7386	-09.7386	-09.7999	-09.7999
Longitude deg	134	134	135	135	135	135
Longitude min	14.360	22.456	15.949	15.947	22.026	22.026
Longitude Decimal	134.23933	134.37427	135.26582	135.26578	135.36710	135.36710
Depth (m)	093	090	103	102	095	093
Wire Out (m)						
End sample	NA		NA	NA	NA	NA
Time (GMT)		06:36:00				
Time Local		16:36:00				
Latitude deg		09				
Latitude min		39.828				
Latitude Decimal		-09.6638				
Longitude deg		134				
Longitude min		22.646				
Longitude Decimal		134.3774				
Depth (m)		90				
Sample Description	calcareous sandy mud, unconsolidated 5Y 5/4	calcareous sandy mud, unconsolidated 5Y 5/1	poorly sorted calcareous fine sand 5Y 5/3, intermediate preservation of carbonate grains, sand fraction mostly foram and mollusc fragments	poorly sorted calcareous fine sand 5Y 5/3, intermediate preservation of carbonate grains, sand fraction mostly foram and mollusc fragments	poorly sorted calcareous muddy sand 5Y 5/3, intermediate preservation of carbonate grains, sand fraction mostly foram and mollusc fragments	poorly sorted calcareous muddy sand 5Y 5/3, intermediate preservation of carbonate grains, sand fraction mostly foram and mollusc fragments
Comments	not quantitative, geology bulk sedimentology sample taken; excluded clods and shell grit after elutriation. Camera shows fairly featureless muddy bottom with some bioturbation and burrows	large sample, washed 1.2 bin full; excluded clods and shell grit; geology bulk sedimentology sample taken. Camera shows fairly featureless muddy bottom with some bioturbation and burrows	washed through 5mm screen for large animals; geological bulk sedimentology sample taken	washed through 5mm screen for large animals. CAM061: bioturbated sandy substrate with scattered to common burrows, sparse large sessile fauna, many small fish, poor visibility (water turbid)	Return to previously sampled station. geological bulk sedimentological sample taken. Washed through 5mm screen for large animals. CAM062: bioturbated sandy substrate, current ripples, with scattered to common burrows, sparse large sessile fauna, many small fish, poor visibility (water turbid)	Return to previously sampled station. Washed through 5mm screen for large animals. CAM062: bioturbated sandy substrate, current ripples, with scattered to common burrows, sparse large sessile fauna, many small fish, poor visibility (water turbid)
Sample containers	sample 001; specimen 002	sample 001; specimen 002	specimens 001-003	specimens 001-004	specimens 001-004	specimens 001-002

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
SS0505-C	001	BS001B	001BS001-001	28911801	28	911	801	Crustacea	Brachyura	Portunidae	Portunus	sp. 1	photo	AM	01-May-2005
SS0505-C	001	BS001B	001BS001-002	22000801	22	0	801	Annelida	Polychaeta	unidentified	unidentified	sp. 1	photo	NTM	01-May-2005
SS0505-C	001	BS001B	001BS001-003	25160801	25	160	801	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 1	photo	AM	01-May-2005
SS0505-C	001	BS001B	001BS001-004	28105801	28	105	801	Crustacea	Tanaidacea	unidentified	unidentified	sp. 1	photo	AM	01-May-2005
SS0505-C	001	BS001B	001BS001-005	28400801	28	400	801	Crustacea	Amphipoda	Gammunidentified	unidentified	sp. 1	photo	AM	01-May-2005
SS0505-C	001	BS001B	001BS001-006	23207801	23	207	801	Mollusca	Bivalvia	Nuculanidae	unidentified	sp. 1	photo; dead	NTM	01-May-2005
SS0505-C	001	BS001B	001BS001-007	24202801	24	202	801	Mollusca	Gastropoda	Buccinidae	Fasciunidentified	sp. 1	photo; dead	NTM	01-May-2005
SS0505-C	001	BS001B	001BS001-008	22000802	22	0	802	Annelida	Polychaeta	unidentified	unidentified	sp. 2	photo	NTM	01-May-2005
SS0505-C	001	BS001B	001BS001-009	99901007	99	901	7						coarse sample bulk	AM	01-May-2005
SS0505-C	001	BS001B	001BS001-010	99901005	99	901	5						fine sample bulk	AM	01-May-2005
SS0505-C	001	BS001B	001BS001-011	99901008	99	901	8						seived sample bulk	AM	01-May-2005
SS0505-C	001	BS001B	001BS001-012	99901006	99	901	6						medium sample bulk	AM	01-May-2005
SS0505-C	002	GR001B	002GR001B-001	28803801	28	803	801	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 1	photo	AM	02-May-2005
SS0505-C	002	GR001B	002GR001B-002	11328801	11	328	801	Cnidaria	Scleractinia	Flabellidae	Flabellum	sp. 1	photo	NTM	02-May-2005
SS0505-C	002	GR001B	002GR001B-003	99901005	99	901	5						fine sample bulk	AM	02-May-2005
SS0505-C	002	GR001B	002GR001B-004	99901007	99	901	7						coarse sample bulk	AM	02-May-2005
SS0505-C	002	GR001B	002GR001B-005	23410801	23	410	801	Mollusca	Bivalvia	Thraciidae	unidentified	sp. 1	photo	NTM	02-May-2005
SS0505-C	002	GR002B	002GR002B-001	11328801	11	328	801	Cnidaria	Scleractinia	Flabellidae	Flabellum	sp. 1	photo	NTM	02-May-2005
SS0505-C	002	GR002B	002GR002B-002	99901005	99	901	5						fine sample bulk	AM	02-May-2005
SS0505-C	002	GR002B	002GR002B-003	11314801	11	314	801	Cnidaria	Scleractinia	Caryophylliidae	unidentified	sp. 1	photo	NTM	02-May-2005
SS0505-C	002	GR002B	002GR002B-004	11077801	11	77	801	Cnidaria	Hydrozoa	Stylasteridae	unidentified	sp. 1	photo	NTM	02-May-2005
SS0505-C	002	GR003B	002GR003B-001	37065801	37	65	801	Chordata	Pisces	Nettastomatidae	unidentified	sp. 1	photo	NTM	02-May-2005
SS0505-C	002	GR003B	002GR003B-002	99901005	99	901	5						fine sample bulk	AM	02-May-2005
SS0505-C	002	BS002B	002BS002-001	28803801	28	803	801	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 1	photo	AM	02-May-2005
SS0505-C	002	BS002B	002BS002-002	28805801	28	805	801	Crustacea	Thalassinidea	Upogebiidae	unidentified	sp. 1	photo	AM	02-May-2005
SS0505-C	002	BS002B	002BS002-003	28865801	28	865	801	Crustacea	Brachyura	Raninidae	unidentified	sp. 1	photo	AM	02-May-2005
SS0505-C	002	BS002B	002BS002-004	99901005	99	901	5						fine sample bulk	AM	02-May-2005
SS0505-C	002	BS002B	002BS002-005	99901003	99	901	3						debris-shells	AM	02-May-2005
SS0505-C	003	GR004B	003GR004B-001	25176801	25	176	801	Echinodermata	Ophiuroidea	Ophiuridae	unidentified	sp. 1	photo	AM	04-May-2005
SS0505-C	003	GR004B	003GR004B-002	28865801	28	865	801	Crustacea	Brachyura	Raninidae	unidentified	sp. 1	photo	AM	04-May-2005
SS0505-C	003	GR004B	003GR004B-003	11328801	11	328	801	Cnidaria	Scleractinia	Flabellidae	Flabellum	sp. 1	photo; dead	NTM	04-May-2005
SS0505-C	003	GR004B	003GR004B-004	11077801	11	77	801	Cnidaria	Hydrozoa	Stylasteridae	unidentified	sp. 1	photo	NTM	04-May-2005
SS0505-C	003	GR005B	003GR005B-001	25176801	25	176	801	Echinodermata	Ophiuroidea	Ophiuridae	unidentified	sp. 1	photo	AM	04-May-2005
SS0505-C	003	GR004B	003GR005B-002	28805802	28	805	802	Crustacea	Thalassinidea	Upogebiidae	unidentified	sp. 2	photo; female	AM	04-May-2005
SS0505-C	003	GR005B	003GR005B-003	28805802	28	805	802	Crustacea	Thalassinidea	Upogebiidae	unidentified	sp. 2	male	AM	04-May-2005
SS0505-C	003	GR004B	003GR005B-004	99901005	99	901	5						fine sample bulk	AM	04-May-2005
SS0505-C	005	GR006B	005GR006B-001	28030801	28	30	801	Crustacea	Stomatopoda	unidentified	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	005	GR006B	005GR006B-002	28803801	28	803	801	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	005	GR006B	005GR006B-003	11001801	11	1	801	Cnidaria	Hydrozoa	unidentified	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	005	GR007B	005GR007B-001	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	005	GR007B	005GR007B-002	37428801	37	428	801	Chordata	Pisces	Gobiidae	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	005	GR007B	005GR007B-003	22000801	22	0	801	Annelida	Polychaeta	unidentified	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	005	GR007B	005GR007B-004	25191801	25	191	801	Echinodermata	Ophiuroidea	Amphiuridae	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	006	GR008B	006GR008B-001	28803801	28	803	801	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	006	GR008B	006GR008B-002	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	05-May-2005
SS0505-C	006	GR009B	006GR009B-001	28030802	28	30	802	Crustacea	Stomatopoda	unidentified	unidentified	sp. 2	photo	AM	05-May-2005
SS0505-C	006	GR009B	006GR009B-002	28803801	28	803	801	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	006	GR009B	006GR009B-003	28765801	28	765	801	Crustacea	Caridea	Alpheidae	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	006	GR009B	006GR009B-004	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	006	GR009B	006GR009B-005	24220801	24	220	801	Mollusca	Gastropoda	Turridae	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	006	GR009B	006GR009B-006	11229801	11	229	801	Cnidaria	Actinaria	unidentified	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	007	GR010B	007GR010B-001	28030803	28	30	803	Crustacea	Stomatopoda	unidentified	unidentified	sp. 3	photo	AM	05-May-2005
SS0505-C	007	GR010B	007GR010B-002	28865801	28	865	801	Crustacea	Brachyura	Raninidae	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	007	GR010B	007GR010B-003	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	05-May-2005

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
SS0505-C	007 GR011B		007GR011B-001	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	007 GR011B		007GR011B-002	22000803	22	0	803	Annelida	Polychaeta	unidentified	unidentified	sp. 3	photo	NTM	05-May-2005
SS0505-C	007 GR011B		007GR011B-003	28803803	28	803	803	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 3	photo	AM	05-May-2005
SS0505-C	007 GR011B		007GR011B-004	28803802	28	803	802	Crustacea	Thalassinidea	unidentified	unidentified	sp. 2	photo	AM	05-May-2005
SS0505-C	007 GR011B		007GR011B-005	11314801	11	314	801	Cnidaria	Scleractinia	Caryophylliidae	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	007 BS003B		007BS003-001	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	007 BS003B		007BS003-002	37000801	37	0	801	Chordata	Pisces	unidentified	unidentified	sp. 1	photo; long fins	NTM	05-May-2005
SS0505-C	007 BS003B		007BS003-003	37065801	37	65	801	Chordata	Pisces	Nettastomatidae	unidentified	sp. 1		NTM	05-May-2005
SS0505-C	007 BS003B		007BS003-004	28711801	28	711	801	Crustacea	Penaeoidea	unidentified	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	007 BS003B		007BS003-005	22062801	22	62	801	Annelida	Polychaeta	Polynoidae	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	007 BS003B		007BS003-006	28220801	28	220	801	Crustacea	Isopoda	Cirolanidae	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	007 BS003B		007BS003-007	28205801	28	205	801	Crustacea	Isopoda	Anthuridae	unidentified	sp. 1	photo	AM	05-May-2005
SS0505-C	007 BS003B		007BS003-008	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	05-May-2005
SS0505-C	007 BS003B		007BS003-009	23355801	23	355	801	Mollusca	Bivalvia	Tellinidae	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	007 BS003B		007BS003-010	25191801	25	191	801	Echinodermata	Ophiuroidea	Amphiuridae	unidentified	sp. 1		AM	05-May-2005
SS0505-C	007 BS003B		007BS003-011	28803802	28	803	802	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 2		AM	05-May-2005
SS0505-C	007 BS003B		007BS003-012	28105802	28	105	802	Crustacea	Tanaidacea	unidentified	unidentified	sp. 2	photo	AM	05-May-2005
SS0505-C	007 BS003B		007BS003-013	25191802	25	191	802	Echinodermata	Ophiuroidea	Amphiuridae	unidentified	sp. 2	photo	AM	05-May-2005
SS0505-C	007 BS003B		007BS003-014	25160802	25	160	802	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 2	photo	AM	05-May-2005
SS0505-C	007 BS003B		007BS003-015	99901008	99	901	8						seived sample bulk	AM	05-May-2005
SS0505-C	007 BS003B		007BS003-016	99901003	99	901	3						debris-shells	AM	05-May-2005
SS0505-C	008 GR012B		008GR012B-001	11173801	11	173	801	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	008 GR012B		008GR012B-002	11314802	11	314	802	Cnidaria	Scleractinia	Caryophylliidae	unidentified	sp. 2	photo	NTM	05-May-2005
SS0505-C	008 GR012B		008GR012B-003	99901008	99	901	8						seived sample bulk	AM	05-May-2005
SS0505-C	008 GR012B		008GR012B-004	20325801	20	325	801	Bryozoa	Cheilostomata	Quadricellariidae	Nellia	sp. 1	photo	NTM	05-May-2005
SS0505-C	008 GR012B		008GR012B-005	20300801	20	300	801	Bryozoa	Cheilostomata	Porinidae	Porina	vertebralis	photo	NTM	05-May-2005
SS0505-C	008 GR013B		008GR013B-001	23499801	23	499	801	Mollusca	Scaphopoda	unidentified	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	008 GR013B		008GR013B-002	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	009 GR014B		009GR014B-001	24221801	24	221	801	Mollusca	Gastropoda	Terebridae	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	009 GR014B		009GR014B-002	99901008	99	901	8						seived sample bulk	AM	05-May-2005
SS0505-C	009 GR015B		009GR015B-001	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	009 GR015B		009GR015B-002	17001801	17	1	801	Sipuncula	Sipunculidae	Sipunculus	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	009 GR015B		009GR015B-003	11314801	11	314	801	Cnidaria	Scleractinia	Caryophylliidae	unidentified	sp. 1		NTM	05-May-2005
SS0505-C	010 GR016B		010GR016B-001	22000801	22	0	801	Annelida	Polychaeta	unidentified	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	010 GR017B		010GR017B-001	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	010 GR017B		010GR017B-002	37428802	37	428	802	Chordata	Pisces	Gobiidae	unidentified	sp. 2	photo	NTM	05-May-2005
SS0505-C	010 GR017B		010GR017B-003	28220802	28	220	802	Crustacea	Isopoda	Cirolanidae	unidentified	sp. 2	photo	AM	05-May-2005
SS0505-C	010 GR017B		010GR017B-004	28803000	28	803	0	Crustacea	Thalassinidea	Callianassidae	unidentified	unidentified		AM	05-May-2005
SS0505-C	011 GR018B		011GR018B-001	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	011 GR018B		011GR018B-002	25191803	25	191	803	Echinodermata	Ophiuroidea	Amphiuridae	unidentified	sp. 3	photo	AM	05-May-2005
SS0505-C	011 GR018B		011GR018B-003	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	05-May-2005
SS0505-C	012 GR019B		012GR019B-001	99901005	99	901	5						fine sample bulk	AM	05-May-2005
SS0505-C	012 GR019B		012GR019B-002	17000801	17	0	801	Sipuncula	unidentified	unidentified	unidentified	sp. 1	photo	NTM	05-May-2005
SS0505-C	012 GR019B		012GR019B-003	28803000	28	803	0	Crustacea	Thalassinidea	Callianassidae	unidentified	unidentified		AM	05-May-2005
SS0505-C	013 GR020B		013GR020B-001	28880801	28	880	801	Crustacea	Brachyura	Majidae	unidentified	sp. 1	photo	AM	10-May-2005
SS0505-C	013 GR020B		013GR020B-002	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	10-May-2005
SS0505-C	013 GR021B		013GR021B-001	37428803	37	428	803	Chordata	Pisces	Gobiidae	unidentified	sp. 3	photo	NTM	10-May-2005
SS0505-C	013 GR021B		013GR021B-002	99901005	99	901	5						fine sample bulk	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-001	25001801	25	1	801	Echinodermata	Crinoidea	unidentified	unidentified	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-002	25171801	25	171	801	Echinodermata	Ophiuroidea	Gorgonocephalic	unidentified	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-003	11196801	11	196	801	Cnidaria	Alcyonacea	Plexauridae	unidentified	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-004	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified		AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-005	11173802	11	173	802	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 2	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-006	11173803	11	173	803	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 3	photo	NTM	10-May-2005

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
SS0505-C	013 DR001B		013DR001B-007	25039801	25	39	801	Echinodermata	Crinoidea	Colobometridae	unidentified	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-008	25039802	25	39	802	Echinodermata	Crinoidea	Colobometridae	unidentified	sp. 2	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-009	25039803	25	39	803	Echinodermata	Crinoidea	Colobometridae	unidentified	sp. 3	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-010	11191801	11	191	801	Cnidaria	Alcyonacea	Nephtheidae	unidentified	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-011	25192801	25	192	801	Echinodermata	Ophiuroidea	Ophiotrichidae	Ophiotrix	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-012	11192801	11	192	801	Cnidaria	Alcyonacea	Nidaliidae	unidentified	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-013	28840004	28	840	4	Crustacea	Anomura	Galatheididae	Allogalatea	elegans	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-014	11173804	11	173	804	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 4	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-015	11173805	11	173	804	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 5	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-016	20487801	20	487	801	Bryozoa	Cheilostomata	Phidoloporidae	Triphylozoon	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-017	11160801	11	160	801	Cnidaria	Antipatharia	unidentified	unidentified	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-018	11173806	11	173	806	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 6	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-019	99901005	99	901	5					fine sample	bulk	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-020	11173807	11	173	807	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 7	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-021	11173809	11	173	809	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 9	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-022	11173808	11	173	808	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 8	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-023	11173811	11	173	811	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 11	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-024	11173810	11	173	810	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 10	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-025	11173812	11	173	812	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 12	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-026	10180801	10	180	801	Porifera	Demospongiae	unidentified	unidentified	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-027	11173813	11	173	813	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 13	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-028	11173814	11	173	814	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 14	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-029	11173815	11	173	815	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 15	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-030	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified		NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-031	11196803	11	196	803	Cnidaria	Alcyonacea	Plexauridae	unidentified	sp. 3	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-032	11196802	11	196	802	Cnidaria	Alcyonacea	Plexauridae	unidentified	sp. 2	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-033	19150801	19	150	801	Brachiopoda	Articulata	unidentified	unidentified	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-034	11190801	11	190	801	Cnidaria	Alcyonacea	Melithaeidae	unidentified	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-035	11173822	11	173	822	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 22	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-036	11173821	11	173	821	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 21	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-037	11173819	11	173	819	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 19	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-038	11173820	11	173	820	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 20	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-039	11173818	11	173	818	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 18	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-040	11173817	11	173	817	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 17	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-041	11173823	11	173	823	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 23	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-042	11173824	11	173	824	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 24	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-043	11173816	11	173	816	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 16	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-044	27500801	27	500	801	Crustacea	Cirripedia	unidentified	unidentified	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-045	24080801	24	80	801	Mollusca	Gastropoda	Siliquariidae	Siliquaria	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-046	10180802	10	180	802	Porifera	Demospongiae	unidentified	unidentified	sp. 2	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-047	99901008	99	901	8					sieved sample		AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-048	19150801	19	150	801	Brachiopoda	Articulata	unidentified	unidentified	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-049	22062802	22	62	802	Annelida	Polychaeta	Polynoidae	unidentified	sp. 2	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-050	11229802	11	229	802	Cnidaria	Actinaria	unidentified	unidentified	sp. 2	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-051	10180000	10	180	0	Porifera	Demospongiae	unidentified	unidentified	unidentified		NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-052	28843801	28	843	801	Crustacea	Anomura	Porcellanidae	unidentified	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-053	25160803	25	160	803	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 3	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-054	28840801	28	840	801	Crustacea	Anomura	Galatheididae	unidentified	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-055	28840802	28	840	802	Crustacea	Anomura	Galatheididae	unidentified	sp. 2	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-056	28840803	28	840	803	Crustacea	Anomura	Galatheididae	unidentified	sp. 3	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-057	28926801	28	926	801	Crustacea	Brachyura	Pilumnidae	unidentified	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-058	28765802	28	765	802	Crustacea	Caridea	Alpheidae	unidentified	sp. 2	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-059	28911802	28	911	802	Crustacea	Brachyura	Portunidae	Thalamita	sp. 1	photo	AM	10-May-2005
SS0505-C	013 DR001B		013DR001B-060	11229803	11	229	803	Cnidaria	Actinaria	unidentified	unidentified	sp. 3	photo	NTM	10-May-2005

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
SS0505-C	013 DR001B		013DR001B-061	11077802	11	77	802	Cnidaria	Hydrozoa	Stylasteridae	unidentified	sp. 2	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-062	20300801	20	300	801	Bryozoa	Cheilostomata	Porinidae	Porina	vertebralis		NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-063	20325801	20	325	801	Bryozoa	Cheilostomata	Quadricellariidae	Nellia	sp. 1		NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-064	20332801	20	332	801	Bryozoa	Cheilostomata	Candidae	Scrupocellaria	curvata	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-065	20405802	20	405	802	Bryozoa	Cheilostomata	Adeonidae	Adeonella	sp. 2	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-066	20405801	20	405	801	Bryozoa	Cheilostomata	Adeonidae	Adeonella	sp. 1	photo	NTM	10-May-2005
SS0505-C	013 DR001B		013DR001B-067	20300000	20	300	0	Bryozoa	Cheilostomata	unidentified	unidentified	unidentified		NTM	10-May-2005
SS0505-C	014 GR023B		014GR023B-001	99901005	99	901	5						fine sample bulk	AM	10-May-2005
SS0505-C	015 GR024B		015GR024B-001	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	015 GR024B		015GR024B-002	10180000	10	180	0	Porifera	Demospongiae	unidentified	unidentified	unidentified		NTM	11-May-2005
SS0505-C	015 GR025B		015GR025B-001	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	015 GR025B		015GR025B-002	22000804	22	0	804	Annelida	Polychaeta	unidentified	unidentified	sp. 4	photo	NTM	11-May-2005
SS0505-C	015 BS004B		015BS004B-001	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	015 BS004B		015BS004B-002	23207802	23	207	802	Mollusca	Bivalvia	Nuculanidae	unidentified	sp. 2	photo	NTM	11-May-2005
SS0505-C	015 BS004B		015BS004B-003	28805803	28	805	803	Crustacea	Thalassinidea	Upogebiidae	unidentified	sp. 3	photo	AM	11-May-2005
SS0505-C	015 BS004B		015BS004B-004	28030802	28	30	802	Crustacea	Stomatopoda	unidentified	unidentified	sp. 2	photo	AM	11-May-2005
SS0505-C	015 BS004B		015BS004B-005	37428804	37	428	804	Chordata	Pisces	Gobiidae	unidentified	sp. 4	photo	NTM	11-May-2005
SS0505-C	015 BS004B		015BS004B-006	28803804	28	803	804	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 4	photo	AM	11-May-2005
SS0505-C	015 BS004B		015BS004B-007	99901003	99	901	3						debris-shells	AM	11-May-2005
SS0505-C	016 GR026B		016GR026B-001	24191801	24	191	801	Mollusca	Gastropoda	Epitoniidae	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	016 GR026B		016GR026B-002	11314803	11	314	803	Cnidaria	Scleractinia	Caryophylliidae	unidentified	sp. 3	photo	NTM	11-May-2005
SS0505-C	016 GR026B		016GR026B-003	99901003	99	901	3						debris-shells	AM	11-May-2005
SS0505-C	016 GR026B		016GR026B-004	11317801	11	317	801	Cnidaria	Scleractinia	Turbinoliidae	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	016 GR027B		016GR027B-001	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	016 GR027B		016GR027B-002	28765803	28	765	803	Crustacea	Caridea	Alpheidae	unidentified	sp. 3	photo	AM	11-May-2005
SS0505-C	016 GR027B		016GR027B-003	28711802	28	711	802	Crustacea	Penaeoidea	Penaeidae	unidentified	sp. 2	photo	AM	11-May-2005
SS0505-C	017 GR028B		017GR028B-001	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	11-May-2005
SS0505-C	017 GR029B		017GR029B-001	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	017 GR029B		017GR029B-002	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	11-May-2005
SS0505-C	017 GR029B		017GR029B-003	25160804	25	160	804	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 4	photo	AM	11-May-2005
SS0505-C	017 GR029B		017GR029B-004	28799000	28	799	0	Crustacea	Thalassinidea	unidentified	unidentified	unidentified		AM	11-May-2005
SS0505-C	018 GR030B		018GR030B-001	28840804	28	840	804	Crustacea	Anomura	Galatheididae	unidentified	sp. 4	photo	AM	11-May-2005
SS0505-C	018 GR030B		018GR030B-002	28900801	28	900	801	Crustacea	Brachyura	Corystidae	unidentified	sp. 1	photo	AM	11-May-2005
SS0505-C	018 GR030B		018GR030B-003	23199801	23	199	801	Mollusca	Bivalvia	unidentified	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	018 GR031B		018GR031B-001	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	018 GR031B		018GR031B-002	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified		AM	11-May-2005
SS0505-C	018 GR031B		018GR031B-003	22030801	22	30	801	Annelida	Polychaeta	Onuphidae	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	018 GR031B		018GR031B-004	14000801	14	0	801	Nemertea	unidentified	unidentified	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	018 DR002B		018DR002B-001	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified		NTM	11-May-2005
SS0505-C	018 DR002B		018DR002B-002	20487801	20	487	801	Bryozoa	Cheilostomata	Phidoloporidae	Triphylozoon	sp. 1		NTM	11-May-2005
SS0505-C	018 DR002B		018DR002B-003	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	019 GR032B		019GR032B-001	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	019 GR033B		019GR033B-001	28220803	28	220	803	Crustacea	Isopoda	Cirolanidae	unidentified	sp. 3	photo	AM	11-May-2005
SS0505-C	019 GR033B		019GR033B-002	28226801	28	226	801	Crustacea	Isopoda	Sphaeromatidae	unidentified	sp. 1	photo	AM	11-May-2005
SS0505-C	019 GR033B		019GR033B-003	28926801	28	926	801	Crustacea	Brachyura	Pilumnidae	unidentified	sp. 1		AM	11-May-2005
SS0505-C	019 GR033B		019GR033B-004	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified		AM	11-May-2005
SS0505-C	019 GR033B		019GR033B-005	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	11-May-2005
SS0505-C	019 GR033B		019GR033B-006	28880802	28	880	802	Crustacea	Brachyura	Majidae	unidentified	sp. 2	photo	AM	11-May-2005
SS0505-C	019 GR033B		019GR033B-007	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified		NTM	11-May-2005
SS0505-C	019 GR033B		019GR033B-008	11284801	11	284	801	Cnidaria	Zoanthinaria	unidentified	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	019 GR033B		019GR033B-009	11290801	11	290	801	Cnidaria	Scleractinia	unidentified	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	019 GR033B		019GR033B-010	99901005	99	901	5						fine sample bulk	AM	11-May-2005
SS0505-C	019 DR003B		019DR003B-001	99901005	99	901	5						fine sample bulk	AM	11-May-2005

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
													placed in fridge by Graham, cannot be		
SS0505-C	020	GR034B	020GR034B-001	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified	located	NTM	11-May-2005
SS0505-C	020	GR035B	020GR035B-001	99901005	99	901	5					fine sample bulk	AM	11-May-2005	
SS0505-C	020	GR035B	020GR035B-002	11160801	11	160	801	Cnidaria	Antipatharia	unidentified	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	020	GR035B	020GR035B-003	11173825	11	173	825	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 25	photo	NTM	11-May-2005
SS0505-C	020	GR035B	020GR035B-004	25001802	25	1	802	Echinodermata	Crinoidea	unidentified	unidentified	sp. 2	photo	AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-001	25001801	25	1	801	Echinodermata	Crinoidea	unidentified	unidentified	sp. 1		NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-002	25001802	25	1	802	Echinodermata	Crinoidea	unidentified	unidentified	sp. 2	photo	AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-003	25171803	25	171	803	Echinodermata	Ophiuroidea	Gorgonocephalic	unidentified	sp. 3	photo	AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-004	25160805	25	160	805	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 5	photo	AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-005	19150802	19	150	802	Brachiopoda	Articulata	unidentified	unidentified	sp. 2	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-006	19150801	19	150	801	Brachiopoda	Articulata	unidentified	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-007	25171802	25	171	802	Echinodermata	Ophiuroidea	Gorgonocephalic	unidentified	sp. 2	photo	AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-008	22116801	22	116	801	Annelida	Polychaeta	Flabelligeridae	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-009	28770801	28	770	801	Crustacea	Caridea	Pandalidae	unidentified	sp. 1	photo	AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-010	99901005	99	901	5					fine sample bulk	AM	11-May-2005	
SS0505-C	020	DR005B	020DR005B-011	11229804	11	229	804	Cnidaria	Actinaria	unidentified	unidentified	sp. 4	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-012	11314804	11	314	804	Cnidaria	Scleractinia	Caryophylliidae	unidentified	sp. 4	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-013	11290801	11	290	801	Cnidaria	Scleractinia	unidentified	unidentified	sp. 1	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-014	11001803	11	1	803	Cnidaria	Hydrozoa	unidentified	unidentified	sp. 3	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-015	20487801	20	487	801	Bryozoa	Cheilostomata	Phidoloporidae	Triphylozoon	sp. 1		NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-016	11001802	11	1	802	Cnidaria	Hydrozoa	unidentified	unidentified	sp. 2	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-017	11160802	11	160	802	Cnidaria	Antipatharia	unidentified	unidentified	sp. 2	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-018	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-019	25171801	25	171	801	Echinodermata	Ophiuroidea	Gorgonocephalic	unidentified	sp. 1	photo	AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-020	11196804	11	196	804	Cnidaria	Alcyonacea	Plexauridae	unidentified	sp. 4	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-021	11173826	11	173	826	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 26	photo	NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-022	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified		NTM	11-May-2005
SS0505-C	020	DR005B	020DR005B-023	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified		AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-024	27500801	27	500	801	Crustacea	Cirripedia	unidentified	unidentified	sp. 1		AM	11-May-2005
SS0505-C	020	DR005B	020DR005B-025	99901008	99	901	8					seived sample bulk	AM	11-May-2005	
SS0505-C	020	DR005B	020DR005B-026	25200801	25	200	801	Echinodermata	Echinoidea	unidentified	unidentified	sp. 1	photo	AM	11-May-2005
SS0505-C	021	GR037B	021GR037B-001	99901005	99	901	5					fine sample bulk	AM	12-May-2005	
SS0505-C	021	GR037B	021GR037B-002	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified		AM	12-May-2005
SS0505-C	022	GR038B	022GR038B-001	99901005	99	901	5					fine sample bulk	AM	12-May-2005	
SS0505-C	022	GR038B	022GR038B-002	28765804	28	765	804	Crustacea	Caridea	Alpheidae	unidentified	sp. 4	photo	AM	12-May-2005
SS0505-C	022	GR038B	022GR038B-003	11169801	11	169	801	Cnidaria	Octocorallia	unidentified	unidentified	sp. 1	photo	NTM	12-May-2005
SS0505-C	022	GR039B	022GR039B-001	99901005	99	901	5					fine sample bulk	AM	12-May-2005	
SS0505-C	023	GR040B	023GR040B-001	11197801	11	197	801	Cnidaria	Alcyonacea	Primnoidae	unidentified	sp. 1	photo	NTM	12-May-2005
SS0505-C	023	GR041B	023GR041B-001	99901005	99	901	5					fine sample bulk	AM	12-May-2005	
SS0505-C	023	GR042B	023GR042B-001	99901005	99	901	5					fine sample bulk	AM	12-May-2005	
SS0505-C	023	GR042B	023GR042B-002	28205802	28	205	802	Crustacea	Isopoda	Anthuridae	unidentified	sp. 2	photo	AM	12-May-2005
SS0505-C	023	GR042B	023GR042B-003	28765805	28	765	805	Crustacea	Caridea	Alpheidae	unidentified	sp. 5	photo	AM	12-May-2005
SS0505-C	023	GR042B	023GR042B-004	28803805	28	803	805	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 5	photo	AM	12-May-2005
SS0505-C	023	DR006B	023DR006B-001	25001801	25	1	801	Echinodermata	Crinoidea	unidentified	unidentified	sp. 1		AM	12-May-2005
SS0505-C	023	DR006B	023DR006B-002	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified		AM	12-May-2005
SS0505-C	023	DR006B	023DR006B-003	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified		NTM	12-May-2005
SS0505-C	023	DR006B	023DR006B-004	11320801	11	320	801	Cnidaria	Scleractinia	Dendrophylliidae	unidentified	sp. 1	photo	NTM	12-May-2005
SS0505-C	024	GR043B	024GR043B-001	99901005	99	901	5					fine sample bulk	AM	12-May-2005	
SS0505-C	024	GR044B	024GR044B-001	99901005	99	901	5					fine sample bulk	AM	12-May-2005	
SS0505-C	024	GR044B	024GR044B-002	23207802	23	207	802	Mollusca	Bivalvia	Nuculanidae	unidentified	sp. 2	photo	NTM	12-May-2005
SS0505-C	025	GR045B	025GR045B-001	99901005	99	901	5					fine sample bulk	AM	12-May-2005	

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
SS0505-C	025	DR007B	025DR007B-001	99901005	99	901	5					fine sample bulk		AM	12-May-2005
SS0505-C	025	DR007B	025DR007B-002	19150803	19	150	803	Brachiopoda	Articulata	unidentified	unidentified	sp. 3	photo	NTM	12-May-2005
SS0505-C	026	GR046B	026GR046B-001	99901005	99	901	5					fine sample bulk		AM	12-May-2005
SS0505-C	027	GR047B	027GR047B-001	99901005	99	901	5					fine sample bulk		AM	13-May-2005
SS0505-C	027	GR048B	027GR048B-001	99901005	99	901	5					fine sample bulk		AM	13-May-2005
SS0505-C	027	GR048B	027GR048B-001	99901005	99	901	5					fine sample bulk	photo; bioluminesce	AM	13-May-2005
SS0505-C	027	GR048B	027GR048B-002	25180801	25	180	801	Echinodermata	Ophiuroidea	Ophiodermatida	unidentified	sp. 1	nt	AM	13-May-2005
SS0505-C	028	GR049B	028GR049B-001	99901005	99	901	5					fine sample bulk		AM	14-May-2005
SS0505-C	028	GR049B	028GR049B-002	25160806	25	160	806	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 6	photo	AM	14-May-2005
SS0505-C	028	GR050B	028GR050B-001	99901005	99	901	5					fine sample bulk		AM	14-May-2005
SS0505-C	029	GR051B	029GR051B-001	99901005	99	901	5					fine sample bulk		AM	14-May-2005
SS0505-C	029	GR052B	029GR052B-001	99901005	99	901	5					fine sample bulk		AM	14-May-2005
SS0505-C	029	GR052B	029GR052B-002	20330801	20	330	801	Bryozoa	Cheilostomata	Beaniidae	Beania	sp. 1	photo	NTM	14-May-2005
SS0505-C	030	GR053B	030GR053B-001	99901005	99	901	5					fine sample bulk		AM	14-May-2005
SS0505-C	030	GR054B	030GR054B-001	99901005	99	901	5					fine sample bulk		AM	14-May-2005
SS0505-C	030	GR054B	030GR054B-002	23207803	23	207	803	Mollusca	Bivalvia	Nuculanidae	unidentified	sp. 3	photo	NTM	14-May-2005
SS0505-C	031	BS005B	031BS005B-001	99901005	99	901	5					fine sample bulk		AM	14-May-2005
SS0505-C	031	BS005B	031BS005B-002	11191802	11	191	802	Cnidaria	Alcyonacea	Nephtheidae	unidentified	sp. 2	photo	NTM	14-May-2005
SS0505-C	032	BS006B	032BS006B-001	99901005	99	901	5					fine sample bulk		AM	15-May-2005
SS0505-C	032	BS006B	032BS006B-002	28803806	28	803	806	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 6	photo	AM	15-May-2005
SS0505-C	032	BS006B	032BS006B-003	28803807	28	803	807	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 7	photo	AM	15-May-2005
SS0505-C	032	BS006B	032BS006B-004	28922801	28	922	801	Crustacea	Brachyura	Goneplacidae	unidentified	sp. 1	photo	AM	15-May-2005
SS0505-C	032	BS006B	032BS006B-005	28206801	28	206	801	Crustacea	Isopoda	Paranthuridae	unidentified	sp. 1	photo	AM	15-May-2005
SS0505-C	032	BS006B	032BS006B-006	99901007	99	901	7					coarse sample bulk		AM	15-May-2005
SS0505-C	032	BS006B	032BS006B-007	99901003	99	901	3					debris-shells		AM	15-May-2005
SS0505-C	032	BS006B	032BS006B-008	14000802	14	0	802	Nemertea		unidentified	unidentified	sp. 2	photo	NTM	15-May-2005
SS0505-C	034	BS007B	034BS007B-001	99901005	99	901	5					fine sample bulk		AM	17-May-2005
SS0505-C	034	BS007B	034BS007B-002	22000805	22	0	805	Annelida	Polychaeta	unidentified	unidentified	sp. 5	photo	NTM	17-May-2005
SS0505-C	034	BS007B	034BS007B-003	99901007	99	901	7					coarse sample bulk		AM	17-May-2005
SS0505-C	036	BS008B	036BS008B-001	99901005	99	901	5					fine sample bulk		AM	17-May-2005
SS0505-C	037	GR056B	037GR056B-001	99901005	99	901	5					fine sample bulk		AM	18-May-2005
SS0505-C	037	GR056B	037GR056B-002	24207801	24	207	801	Mollusca	Gastropoda	Volutidae	Volutoconus	sp. 1	photo	NTM	18-May-2005
SS0505-C	037	GR056B	037GR056B-003	11077801	11	77	801	Cnidaria	Hydrozoa	Stylasteridae	unidentified	sp. 1	photo	NTM	18-May-2005
SS0505-C	037	GR057B	037GR057B-001	99901005	99	901	5					fine sample bulk		AM	18-May-2005
SS0505-C	037	GR057B	037GR057B-002	99901003	99	901	3					debris-shells		AM	18-May-2005
SS0505-C	038	GR058B	038GR058B-001	99901007	99	901	7					coarse sample bulk		AM	18-May-2005
SS0505-C	038	GR058B	038GR058B-002	11001804	11	1	804	Cnidaria	Hydrozoa	unidentified	unidentified	sp. 4	photo	NTM	18-May-2005
SS0505-C	038	GR058B	038GR058B-003	10180803	10	180	803	Porifera	Demospongiae	unidentified	unidentified	sp. 3	photo	NTM	18-May-2005
SS0505-C	038	GR059B	038GR059B-001	99901005	99	901	5					fine sample bulk		AM	18-May-2005
SS0505-C	038	GR059B	038GR059B-002	10180805	10	180	805	Porifera	Demospongiae	unidentified	unidentified	sp. 5	photo	NTM	18-May-2005
SS0505-C	038	GR059B	038GR059B-003	10180804	10	180	804	Porifera	Demospongiae	unidentified	unidentified	sp. 4	photo	NTM	18-May-2005
SS0505-C	038	GR059B	038GR059B-004	11173825	11	173	825	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 25	photo	NTM	18-May-2005
SS0505-C	038	GR059B	038GR059B-005	11173827	11	173	827	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 27	photo	NTM	18-May-2005
SS0505-C	038	GR059B	038GR059B-006	11173828	11	173	828	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 28	photo	NTM	18-May-2005
SS0505-C	038	GR059B	038GR059B-007	25001803	25	1	803	Echinodermata	Crinoidea	unidentified	unidentified	sp. 3	photo	AM	18-May-2005
SS0505-C	038	GR060B	038GR060B-001	99901005	99	901	5					fine sample bulk		AM	18-May-2005
SS0505-C	038	GR060B	038GR060B-002	11208801	11	208	801	Cnidaria	Pennatulacea	unidentified	unidentified	sp. 1	photo	NTM	18-May-2005
SS0505-C	038	GR060B	038GR060B-003	25001803	25	1	803	Echinodermata	Crinoidea	unidentified	unidentified	sp. 3		AM	18-May-2005
SS0505-C	038	GR060B	038GR060B-004	11173827	11	173	827	Cnidaria	Alcyonacea	unidentified	unidentified	sp. 27		NTM	18-May-2005
SS0505-C	038	DR009B	038DR009B-001	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	18-May-2005
SS0505-C	038	DR009B	038DR009B-002	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified		NTM	18-May-2005
SS0505-C	038	DR009B	038DR009B-003	11160000	11	160	0	Cnidaria	Antipatharia	unidentified	unidentified	unidentified		NTM	18-May-2005
SS0505-C	038	DR009B	038DR009B-004	11001804	11	1	804	Cnidaria	Hydrozoa	unidentified	unidentified	sp. 4		NTM	18-May-2005
SS0505-C	038	DR010B	038DR010B-001	25202801	25	202	801	Echinodermata	Echinoidea	Cidaridae	unidentified	sp. 1	photo	AM	18-May-2005

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
SS0505-C	038 DR010B		038DR010B-002	25000000	25	0	0	Echinodermata Crinoidea	Crinoidea	unidentified	unidentified	unidentified	white	AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-003	25000000	25	0	0	Echinodermata Crinoidea	Crinoidea	unidentified	unidentified	unidentified	brown	AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-004	25171804	25	171	804	Echinodermata Ophiuroidea	Ophiuroidea	Gorgonocephalic	unidentified	sp. 4	photo	AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-005	11173829	11	173	829	Cnidaria Alcyonacea	Alcyonacea	unidentified	unidentified	sp. 29	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-006	10180806	10	180	806	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 6	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-007	28840805	28	840	805	Crustacea Anomura	Anomura	Galatheididae	unidentified	sp. 5	photo, ex 10180806	AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-008	10180808	10	180	808	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 8	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-009	10180807	10	180	807	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 7	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-010	11191803	11	191	803	Cnidaria Alcyonacea	Alcyonacea	Nephtheidae	unidentified	sp. 3	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-011	25001801	25	1	801	Echinodermata Crinoidea	Crinoidea	unidentified	unidentified	sp. 1		AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-012	11077803	11	77	803	Cnidaria Hydrozoa	Hydrozoa	Stylasteridae	unidentified	sp. 3	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-013	11001804	11	1	804	Cnidaria Hydrozoa	Hydrozoa	unidentified	unidentified	sp. 4		NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-014	10180802	10	180	802	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 2		NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-015	20322801	20	322	801	Bryozoa Cheilostomata	Cheilostomata	Flustridae	unidentified	sp. 1	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-016	11173830	11	173	830	Cnidaria Alcyonacea	Alcyonacea	unidentified	unidentified	sp. 30	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-017	25176802	25	176	802	Echinodermata Ophiuroidea	Ophiuroidea	Ophiuridae	unidentified	sp. 2	photo	AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-018	11192801	11	192	801	Cnidaria Alcyonacea	Alcyonacea	Nidaliidae	unidentified	sp. 1		NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-019	25202802	25	202	802	Echinodermata Echinoidea	Echinoidea	Cidaridae	unidentified	sp. 2	photo	AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-020	23272801	23	272	801	Mollusca Bivalvia	Bivalvia	Spondylidae	Spondylus	sp. 1	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-021	10180809	10	180	809	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 9	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-022	28765806	28	765	806	Crustacea Caridea	Caridea	Alpheidae	unidentified	sp. 6	photo	AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-023	22000000	22	0	0	Annelida Polychaeta	Polychaeta	unidentified	unidentified	unidentified		NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-024	11173811	11	173	811	Cnidaria Alcyonacea	Alcyonacea	unidentified	unidentified	sp. 11	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-025	11160805	11	160	805	Cnidaria Antipatharia	Antipatharia	unidentified	unidentified	sp. 5	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-026	11160804	11	160	804	Cnidaria Antipatharia	Antipatharia	unidentified	unidentified	sp. 4	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-027	11160803	11	160	803	Cnidaria Antipatharia	Antipatharia	unidentified	unidentified	sp. 3	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-028	99901005	99	901	5					fine sample bulk	AM	18-May-2005	
SS0505-C	038 DR010B		038DR010B-029	27500802	27	500	802	Crustacea Cirripedia	Cirripedia	unidentified	unidentified	sp. 2	photo	AM	18-May-2005
SS0505-C	038 DR010B		038DR010B-030	10180810	10	180	810	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 10	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-031	11320802	11	320	802	Cnidaria Scleractinia	Scleractinia	Dendrophylliidae	Balanophyllia	sp. 1	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-032	11173000	11	173	0	Cnidaria Alcyonacea	Alcyonacea	unidentified	unidentified	unidentified		NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-033	99901002	99	901	2					debris-rocks	AM	18-May-2005	
SS0505-C	038 DR010B		038DR010B-034	10180811	10	180	811	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 11	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-035	35033801	35	33	801	Chordata Urochordata	Urochordata	Styelidae	unidentified	sp. 1	photo	NTM	18-May-2005
SS0505-C	038 DR010B		038DR010B-036	99901008	99	901	8					seived sample bulk	AM	18-May-2005	
SS0505-C	039 GR061B		039GR061B-001	99901005	99	901	5					fine sample bulk	AM	18-May-2005	
SS0505-C	039 GR061B		039GR061B-002	28840803	28	840	803	Crustacea Anomura	Anomura	Galatheididae	unidentified	sp. 3	photo, male	AM	18-May-2005
SS0505-C	039 GR061B		039GR061B-003	25178801	25	178	801	Echinodermata Ophiuroidea	Ophiuroidea	Ophiocomidae	unidentified	sp. 1	photo	AM	18-May-2005
SS0505-C	039 GR061B		039GR061B-004	10180812	10	180	812	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 12	photo	NTM	18-May-2005
SS0505-C	039 GR061B		039GR061B-005	11173000	11	173	0	Cnidaria Alcyonacea	Alcyonacea	unidentified	unidentified	unidentified		NTM	18-May-2005
SS0505-C	039 GR062B		039GR062B-001	99901005	99	901	5					fine sample bulk	AM	18-May-2005	
SS0505-C	039 GR062B		039GR062B-002	28840803	28	840	803	Crustacea Anomura	Anomura	Galatheididae	unidentified	sp. 3	photo, female	AM	18-May-2005
SS0505-C	039 GR062B		039GR062B-003	28730801	28	730	801	Crustacea Caridea	Caridea	unidentified	unidentified	sp. 1	photo	AM	18-May-2005
SS0505-C	039 GR062B		039GR062B-004	22024801	22	24	801	Annelida Polychaeta	Polychaeta	Eunicidae	Eunice	sp. 1	photo	NTM	18-May-2005
SS0505-C	039 GR062B		039GR062B-005	10180813	10	180	813	Porifera Demospongiae	Demospongiae	unidentified	unidentified	sp. 13	photo	NTM	18-May-2005
SS0505-C	039 GR062B		039GR062B-006	10180000	10	180	0	Porifera Demospongiae	Demospongiae	unidentified	unidentified	unidentified		NTM	18-May-2005
SS0505-C	039 GR062B		039GR062B-007	11173000	11	173	0	Cnidaria Alcyonacea	Alcyonacea	unidentified	unidentified	unidentified		NTM	18-May-2005
SS0505-C	040 GR063B		040GR063B-001	99901005	99	901	5					fine sample bulk	AM	18-May-2005	
SS0505-C	040 GR064B		040GR064B-001	99901005	99	901	5					fine sample bulk	AM	18-May-2005	
SS0505-C	041 GR065B		041GR065B-001	99901005	99	901	5					fine sample bulk	AM	18-May-2005	
SS0505-C	041 GR066B		041GR066B-001	99901005	99	901	5					fine sample bulk	AM	18-May-2005	
SS0505-C	042 DR011B		042DR011B-001	11192802	11	192	802	Cnidaria Alcyonacea	Alcyonacea	Nidaliidae	unidentified	sp. 2	photo	NTM	18-May-2005
SS0505-C	042 DR011B		042DR011B-002	25404801	25	404	801	Echinodermata Holothuroidea	Holothuroidea	Psolidae	unidentified	sp. 1	photo	AM	18-May-2005

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
SS0505-C	043	GR068B	043GR068B-001	99901005	99	901	5						fine sample bulk	AM	19-May-2005
SS0505-C	043	GR069B	043GR069B-001	99901005	99	901	5						fine sample bulk	AM	19-May-2005
SS0505-C	043	GR069B	043GR069B-002	11229805	11	229	805	Cnidaria	Actinaria	unidentified	unidentified	sp. 5	photo	NTM	19-May-2005
SS0505-C	043	GR069B	043GR069B-003	25021801	25	21	801	Echinodermata	Crinoidea	Pentacrinidae?	unidentified	sp. 1	photo, stem sections only	AM	19-May-2005
SS0505-C	043	GR069B	043GR069B-004	25160807	25	160	807	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 7	photo	AM	19-May-2005
SS0505-C	043	GR069B	043GR069B-005	19150804	19	150	804	Brachiopoda	Articulata	unidentified	unidentified	sp. 4	photo, dead	NTM	19-May-2005
SS0505-C	043	GR069B	043GR069B-006	28840806	28	840	806	Crustacea	Anomura	Galatheidae	unidentified	sp. 6	photo	AM	19-May-2005
SS0505-C	043	GR069B	043GR069B-007	99901007	99	901	7						coarse sample bulk	AM	19-May-2005
SS0505-C	043	GR069B	043GR069B-008	99901009	99	901	9						debris - dead corals	AM	19-May-2005
SS0505-C	043	DR012B	043DR012B-001	11280801	11	280	801	Cnidaria	Corallimorpharia	unidentified	unidentified	sp. 1	photo	NTM	19-May-2005
SS0505-C	043	DR012B	043DR012B-002	10180814	10	180	814	Porifera	Demospongiae	unidentified	unidentified	sp. 14	photo	NTM	19-May-2005
SS0505-C	043	DR012B	043DR012B-003	25160808	25	160	808	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 8	photo	AM	19-May-2005
SS0505-C	043	DR012B	043DR012B-004	20332801	20	332	801	Bryozoa	Cheilostomata	Candidae	Scrupocellaria	curvata	photo	NTM	19-May-2005
SS0505-C	043	DR012B	043DR012B-005	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified	unidentified	AM	19-May-2005
SS0505-C	043	DR012B	043DR012B-006	27524801	27	524	801	Crustacea	Cirripedia	Scalpellidae	Arcoscalpellum	sp. 1	photo	AM	19-May-2005
SS0505-C	043	DR012B	043DR012B-007	27524802	27	524	802	Crustacea	Cirripedia	Scalpellidae	unidentified	sp. 1	photo	AM	19-May-2005
SS0505-C	043	DR012B	043DR012B-008	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified	unidentified	NTM	19-May-2005
SS0505-C	043	DR012B	043DR012B-009	20300802	20	300	802	Bryozoa	Cheilostomata	unidentified	unidentified	sp. 1	photo	NTM	19-May-2005
SS0505-C	043	DR012B	043DR012B-010	99901009	99	901	9						debris - dead corals	AM	19-May-2005
SS0505-C	043	DR012B	043DR012B-011	10180000	10	180	0	Porifera	Demospongiae	unidentified	unidentified	unidentified	unidentified	NTM	19-May-2005
SS0505-C	043	DR012B	043DR012B-012	25404801	25	404	801	Echinodermata	Holothuroidea	Psolidae	unidentified	sp. 1	photo	AM	19-May-2005
SS0505-C	044	GR070B	044GR070B-001	99901005	99	901	5						fine sample bulk	AM	19-May-2005
SS0505-C	044	DR013B	044DR013B-001	11160803	11	160	803	Cnidaria	Antipatharia	unidentified	unidentified	sp. 3	photo	NTM	20-May-2005
SS0505-C	044	DR013B	044DR013B-002	27500803	27	500	803	Crustacea	Cirripedia	unidentified	unidentified	sp. 3	photo	AM	20-May-2005
SS0505-C	044	DR013B	044DR013B-003	11001804	11	1	804	Cnidaria	Hydrozoa	unidentified	unidentified	sp. 4	photo	NTM	20-May-2005
SS0505-C	044	DR013B	044DR013B-004	11190802	11	190	802	Cnidaria	Alcyonacea	Melithaeidae	unidentified	sp. 2	photo	NTM	20-May-2005
SS0505-C	044	DR013B	044DR013B-005	10300802	10	300	802	Porifera	Hexactinellida	unidentified	unidentified	sp. 2	photo	NTM	20-May-2005
SS0505-C	044	DR013B	044DR013B-006	10300801	10	300	801	Porifera	Hexactinellida	unidentified	unidentified	sp. 1	photo	NTM	20-May-2005
SS0505-C	044	DR013B	044DR013B-007	24207000	24	207	0	Mollusca	Gastropoda	Volutidae	unidentified	unidentified	unidentified	NTM	20-May-2005
SS0505-C	045	GR072B	045GR072B-001	25143801	25	143	801	Echinodermata	Asteroidea	Echinasteridae	unidentified	sp. 1	photo	AM	20-May-2005
SS0505-C	045	DR014B	045DR014B-001	11160801	11	160	801	Cnidaria	Antipatharia	unidentified	unidentified	sp. 1	photo	NTM	20-May-2005
SS0505-C	045	DR014B	045DR014B-002	23401000	23	401	0	Mollusca	Bivalvia	Pholadidae	unidentified	unidentified	unidentified	NTM	20-May-2005
SS0505-C	045	DR014B	045DR014B-003	17202801	17	20	801	Echiura	unidentified	unidentified	unidentified	sp. 1	photo	NTM	20-May-2005
SS0505-C	045	DR014B	045DR014B-004	20300803	20	300	803	Bryozoa	Cheilostomata	unidentified	unidentified	sp. 2	photo	NTM	20-May-2005
SS0505-C	045	DR014B	045DR014B-005	20300804	20	300	804	Bryozoa	Cheilostomata	unidentified	unidentified	sp. 3	photo	NTM	20-May-2005
SS0505-C	047	BS009B	047BS009B-001	99901005	99	901	5						fine sample bulk	AM	20-May-2005
SS0505-C	047	BS009B	047BS009B-002	99901007	99	901	7						coarse sample bulk	AM	20-May-2005
SS0505-C	047	BS009B	047BS009B-003	99901003	99	901	3						debris-shells	AM	20-May-2005
SS0505-C	048	GR073B	048GR073B-001	99901005	99	901	5						fine sample bulk	AM	20-May-2005
SS0505-C	048	GR073B	048GR073B-002	22000806	22	0	806	Annelida	Polychaeta	unidentified	unidentified	sp. 6	photo	NTM	20-May-2005
SS0505-C	048	GR073B	048GR073B-003	25200801	25	200	801	Echinodermata	Echinoidea	unidentified	unidentified	sp. 1	photo	AM	20-May-2005
SS0505-C	048	GR074B	048GR074B-001	99901005	99	901	5						fine sample bulk	AM	20-May-2005
SS0505-C	048	GR074B	048GR074B-002	25200801	25	200	801	Echinodermata	Echinoidea	unidentified	unidentified	sp. 1	photo	AM	20-May-2005
SS0505-C	049	GR075B	049GR075B-001	99901005	99	901	5						fine sample bulk	AM	20-May-2005
SS0505-C	049	GR075B	049GR075B-002	25160809	25	160	809	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 9	photo	AM	20-May-2005
SS0505-C	049	GR075B	049GR075B-003	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified	unidentified	NTM	20-May-2005
SS0505-C	049	GR076B	049GR076B-001	99901005	99	901	5						fine sample bulk	AM	20-May-2005
SS0505-C	049	GR076B	049GR076B-002	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified	unidentified	NTM	20-May-2005
SS0505-C	049	GR077B	049GR077B-001	25160810	25	160	810	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 10	photo	AM	20-May-2005
SS0505-C	049	GR078B	049GR078B-001	99901005	99	901	5						fine sample bulk	AM	20-May-2005
SS0505-C	049	GR078B	049GR078B-002	22116802	22	116	802	Annelida	Polychaeta	Flabelligeridae	unidentified	sp. 2	photo	NTM	20-May-2005
SS0505-C	051	BS010B	051BS010B-001	99901005	99	901	5						fine sample bulk	AM	21-May-2005
SS0505-C	050	BS011B	050BS011B-001	99901005	99	901	5						fine sample bulk	AM	22-May-2005

## Appendix 1

## Specimen\_Data

Cruise#	Station#	Gear	Access#	CAAB #	Phylum code	Family Code	Species Code	Phylum Text	Higher Taxon Text	Family Text	Genus Text	Species Text	Comments	Institution	Date
SS0505-C	050	BS011B	050BS011B-002	99901007	99	901	7						coarse sample bulk	AM	22-May-2005
SS0505-C	053	DR015B	053DR015B-001	28911803	28	911	803	Crustacea	Brachyura	Portunidae	Charybdis	sp. 1	photo	AM	22-May-2005
SS0505-C	053	DR015B	053DR015B-002	10180809	10	180	809	Porifera	Demospongiae	unidentified	unidentified	sp. 9	photo	NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-003	10180811	10	180	811	Porifera	Demospongiae	unidentified	unidentified	sp. 11		NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-004	10300803	10	300	803	Porifera	Hexactinellida	unidentified	unidentified	sp. 3	photo	NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-005	10180818	10	180	818	Porifera	Demospongiae	unidentified	unidentified	sp. 18	photo	NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-006	10180815	10	180	815	Porifera	Demospongiae	unidentified	unidentified	sp. 15	photo	NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-007	25001000	25	1	0	Echinodermata	Crinoidea	unidentified	unidentified	unidentified		AM	22-May-2005
SS0505-C	053	DR015B	053DR015B-008	10180808	10	180	808	Porifera	Demospongiae	unidentified	unidentified	sp. 8		NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-009	11001804	11	1	804	Cnidaria	Hydrozoa	unidentified	unidentified	sp. 4		NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-010	11160804	11	160	804	Cnidaria	Antipatharia	unidentified	unidentified	sp. 4		NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-011	11160805	11	160	805	Cnidaria	Antipatharia	unidentified	unidentified	sp. 5		NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-012	10180816	10	180	816	Porifera	Demospongiae	unidentified	unidentified	sp. 16	photo	NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-013	28926801	28	926	801	Crustacea	Brachyura	Pilumnidae	unidentified	sp. 1		AM	22-May-2005
SS0505-C	053	DR015B	053DR015B-014	11314804	11	314	804	Cnidaria	Scleractinia	Caryophylliidae	unidentified	sp. 4		NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-015	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-016	28840807	28	840	807	Crustacea	Anomura	Galatheididae	unidentified	sp. 7	photo	AM	22-May-2005
SS0505-C	053	DR015B	053DR015B-017	23226801	23	226	801	Mollusca	Bivalvia	Arcidae	unidentified	sp. 1	photo	NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-018	23301801	23	301	801	Mollusca	Bivalvia	Chamidae	Chama	sp. 1	photo	NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-019	10180000	10	180	0	Porifera	Demospongiae	unidentified	unidentified	unidentified		NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-020	10180817	10	180	817	Porifera	Demospongiae	unidentified	unidentified	sp. 17	photo	NTM	22-May-2005
SS0505-C	053	DR015B	053DR015B-021	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified		NTM	22-May-2005
SS0505-C	053	GR080B	053GR080B-001	99901005	99	901	5					fine sample bulk	AM	22-May-2005	
SS0505-C	053	GR080B	053GR080B-002	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified		AM	22-May-2005
SS0505-C	055	GR081B	055GR081B-001	99901005	99	901	5					fine sample bulk	AM	22-May-2005	
SS0505-C	056	BS012B	056BS012B-001	99901005	99	901	5					fine sample bulk	AM	22-May-2005	
SS0505-C	056	BS012B	056BS012B-002	20330801	20	330	801	Bryozoa	Cheilostomata	Beaniidae	Beania	sp. 1		NTM	22-May-2005
SS0505-C	057	BS013B	057BS013B-001	99901005	99	901	5					fine sample bulk	AM	24-May-2005	
SS0505-C	057	BS013B	057BS013B-002	25160000	25	160	0	Echinodermata	Ophiuroidea	unidentified	unidentified	unidentified		AM	24-May-2005
SS0505-C	057	BS013B	057BS013B-003	99901003	99	901	3					debris-shells	AM	24-May-2005	
SS0505-C	060	BS014B	060BS014B-001	99901005	99	901	5					fine sample bulk	AM	25-May-2005	
SS0505-C	060	BS014B	060BS014B-002	11001805	11	1	805	Cnidaria	Hydrozoa	unidentified	unidentified	sp. 5	photo	NTM	25-May-2005
SS0505-C	061	GR082B	061GR082B-001	99901005	99	901	5					fine sample bulk	AM	25-May-2005	
													photo; long		
SS0505-C	061	GR082B	061GR082B-002	37000801	37	0	801	Chordata	Pisces	unidentified	unidentified	sp. 1	fins	NTM	25-May-2005
SS0505-C	063	BS015B	063BS015B-001	99901005	99	901	5					fine sample bulk	AM	25-May-2005	
SS0505-C	063	BS015B	063BS015B-002	37065801	37	65	801	Chordata	Pisces	Nettastomatidae	unidentified	sp. 1		NTM	25-May-2005
SS0505-C	064	GR083B	064GR083B-001	17000801	17	0	801	Sipuncula	unidentified	unidentified	unidentified	sp. 1		NTM	26-May-2005
SS0505-C	064	GR083B	064GR083B-002	22000807	22	0	807	Annelida	Polychaeta	unidentified	unidentified	sp. 7	photo	NTM	26-May-2005
SS0505-C	064	GR083B	064GR083B-003	11173000	11	173	0	Cnidaria	Alcyonacea	unidentified	unidentified	unidentified		NTM	26-May-2005
SS0505-C	064	GR084B	064GR084B-001	28865801	28	865	801	Crustacea	Brachyura	Raninidae	unidentified	sp. 1		NTM	26-May-2005
SS0505-C	064	GR084B	064GR084B-002	28922802	28	922	802	Crustacea	Brachyura	Goneplacidae	unidentified	sp. 2	photo	AM	26-May-2005
SS0505-C	064	GR084B	064GR084B-003	28803802	28	803	802	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 2	photo	AM	26-May-2005
SS0505-C	064	GR084B	064GR084B-004	11314805	11	314	805	Cnidaria	Scleractinia	Caryophylliidae	unidentified	sp. 5	photo	NTM	26-May-2005
SS0505-C	002	GR085B	002GR085B-001	22000000	22	0	0	Annelida	Polychaeta	unidentified	unidentified	unidentified		NTM	26-May-2005
SS0505-C	002	GR085B	002GR085B-002	24220802	24	220	802	Mollusca	Gastropoda	Turridae	unidentified	sp. 2	photo	NTM	26-May-2005
SS0505-C	002	GR085B	002GR085B-003	28803801	28	803	801	Crustacea	Thalassinidea	Callianassidae	unidentified	sp. 1	photo	AM	26-May-2005
SS0505-C	002	GR085B	002GR085B-004	25160811	25	160	811	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 11	photo	AM	26-May-2005
SS0505-C	002	GR086B	002GR086B-001	25160801	25	160	801	Echinodermata	Ophiuroidea	unidentified	unidentified	sp. 1		AM	26-May-2005
SS0505-C	002	GR086B	002GR086B-002	25191804	25	191	804	Echinodermata	Ophiuroidea	Amphiuridae	unidentified	sp. 4	photo	AM	26-May-2005

## Appendix 1

## Fauna\_Codes

CAAB SPCODE	COMMON_NAME	SCIENTIFIC_NAME	AUTHORITY	FAMILY	NOTES	Stations recorded - Photos
10180801	sponge	Sponge sp. 1			Demospingiae, flat/vase	013DR001B-026
10180802	sponge	Sponge sp. 2			Demospingiae? long spicules	013DR001B-046
10180803	sponge	Sponge sp. 3			Demospingiae	038GR058B-003
10180804	sponge	Sponge sp. 4			Demospingiae	038GR059B-003
10180805	sponge	Sponge sp. 5			Demospingiae, mud sponge	038GR059B-002
10180806	sponge	Sponge sp. 6			Demospingiae	038DR010B-006
10180807	sponge	Sponge sp. 7			Demospingiae, coarse hard tube	038DR010B-009
10180808	sponge	Sponge sp. 8			Demospingiae, fine hard tube	038DR010B-008
10180809	sponge	Sponge sp. 9			Demospingiae, hard, white	038DR010B-021
10180810	sponge	Sponge sp. 10			Demospingiae, sandy stick	038DR010B-030
10180811	sponge	Sponge sp. 11			Demospingiae? hard bracket	038DR010B-034
10180812	sponge	Sponge sp. 12			Demospingiae, soft	039GR061B-004
10180813	sponge	Sponge sp. 13			Demospingiae?	039GR062B-005
10180814	sponge	Sponge sp. 14			Demospingiae	043DR012B-002
10180815	sponge	Sponge sp. 15			Demospingiae? hard bracket lumpy	053DR015B-006
10180816	sponge	Sponge sp. 16			Demospingiae, yellow encrusting & tubes	053DR015B-012
10180817	sponge	Sponge sp. 17			Demospingiae?	053DR015B-020
10180818	sponge	Sponge sp. 18			Demospingiae, ochre irreg	053DR015B-005
10300801	glass sponge	Hexactinellida sp. 1			Hexactinellida?	044DR013B-006
10300802	glass sponge	Hexactinellida sp. 2			Hexactinellida?	044DR013B-005
10300803	glass sponge	Hexactinellida sp. 3			Hexactinellida?	053DR015B-004
11001801	hydroid	Hydroida sp. 1				005GR006B-003
11001802	hydroid	Hydroida sp. 2			long	020DR005B-016
11001803	hydroid	Hydroida sp. 3			lg polyps in sponge	020DR005B-014
11001804	hydroid	Hydroida sp. 4			lg colony	038GR058B-002
11001805	hydroid	Hydroida sp. 5			from mud with rootlets	060BS014B-002
11077801	hydrocoral	Stylasteridae sp. 1		Stylasteridae	pink, was ?Bryozoa sp. 1	002GR002B-004;003GR004B-004;037GR056B-003
11077802	hydrocoral	Stylasteridae sp. 2		Stylasteridae	white	013DR001B-061
11077803	hydrocoral	Stylasteridae sp. 3		Stylasteridae?	white with green tips (labelled as a bryozoan)	038DR010B-012
11160801	black corals	Antipatharia sp. 1			spiral, pale polyps	013DR001B-017;020GR035B-002
11160802	black corals	Antipatharia sp. 2			spiral, very fine	020DR005B-017
11160803	black corals	Antipatharia sp. 3			flat, coarse branch	038DR010B-027;044DR013B-001
11160804	black corals	Antipatharia sp. 4			flat, fine branch	038DR010B-026
11160805	black corals	Antipatharia sp. 5			bottlebrush	038DR010B-025
11169801	octocoral	Octocorallia sp. 1			strange colony, poss. Octocorallia	022GR038D-003
11173801	octocoral	Alcyonacea sp. 1			sm gorgonian	008GR012B-001
11173802	octocoral	Alcyonacea sp. 2			pale pink fan, fine branch	013DR001B-005
11173803	octocoral	Alcyonacea sp. 3			pale pink fan, long branch	013DR001B-006
11173804	octocoral	Alcyonacea sp. 4			thick white seawhip	013DR001B-014
11173805	octocoral	Alcyonacea sp. 5			white fan, red/orange base	013DR001B-015
11173806	octocoral	Alcyonacea sp. 6			white whip spiral end	013DR001B-018
11173807	octocoral	Alcyonacea sp. 7			white, sparse branch whip	013DR001B-020
11173808	octocoral	Alcyonacea sp. 8			pale, thick branches	013DR001B-022
11173809	octocoral	Alcyonacea sp. 9			pink fan, dark polyps	013DR001B-021
11173810	octocoral	Alcyonacea sp. 10			yellow fan, fine branch	013DR001B-024
11173811	octocoral	Alcyonacea sp. 11			sm yellow, spiky polyp	013DR001B-023;038DR010B-024
11173812	octocoral	Alcyonacea sp. 12			pale, short branches off main axis	013DR001B-025
11173813	octocoral	Alcyonacea sp. 13			pink fan, flat, sparse pale polyps	013DR001B-027
11173814	octocoral	Alcyonacea sp. 14			red fan, flat	013DR001B-028
11173815	octocoral	Alcyonacea sp. 15			red fan irregular	013DR001B-029
11173816	octocoral	Alcyonacea sp. 16			cream fan	013DR001B-043
11173817	octocoral	Alcyonacea sp. 17			pale fan, flat, irreg branching	013DR001B-040
11173818	octocoral	Alcyonacea sp. 18			pale lemon flat	013DR001B-039
11173819	octocoral	Alcyonacea sp. 19			white fork	013DR001B-037
11173820	octocoral	Alcyonacea sp. 20			short white whip	013DR001B-038
11173821	octocoral	Alcyonacea sp. 21			pale fan, dark polyps	013DR001B-036
11173822	octocoral	Alcyonacea sp. 22			long pink fan	013DR001B-035

## Appendix 1

## Fauna\_Codes

CAAB SPCODE	COMMON_NAME	SCIENTIFIC_NAME	AUTHORITY	FAMILY	NOTES	Stations recorded - Photos
11173823	octocoral	Alcyonacea sp. 23			grey fan, small polyp	013DR001B-041
11173824	octocoral	Alcyonacea sp. 24			grey fan, large polyp	013DR001B-042
11173825	octocoral	Alcyonacea sp. 25			grey fan, v large polyp	020GR035B-003;038GR059B-004
11173826	octocoral	Alcyonacea sp. 26			cream fan, lg polyps	020DR005B-021
11173827	octocoral	Alcyonacea sp. 27			tall colony, orange polyps	038GR059B-005
11173828	octocoral	Alcyonacea sp. 28			small colony	038GR059B-006
11173829	octocoral	Alcyonacea sp. 29			sugar-frosted pale orange	038DR010B-005
11173830	octocoral	Alcyonacea sp. 30			flat pink, fine surface spikes	038DR010B-016
11190801	octocoral	Melithaeidae sp. 1		Melithaeidae	white bramble	013DR001B-034
11190802	octocoral	Melithaeidae sp. 2		Melithaeidae	sparse white bramble	044DR013B-004
11191801	soft coral	Nephtidae sp. 1		Nephtidae	orange	013DR001B-010
11191802	soft coral	Nephtidae sp. 2		Nephtidae	tiny, with rootlets	031BS005B-002
11191803	soft coral	Nephtidae sp. 3		Nephtidae	orange, large spicules	038DR010B-010
11192801	soft coral	Nidaliidae sp. 1		Nidaliidae	white & pink polyps	013DR001B-012
11192802	soft coral	Nidaliidae sp. 2		Nidaliidae	orange	042DR011B-001
11196801	seafan	Plexauridae sp. 1		Plexauridae	red	013DR001B-003
11196802	seafan	Plexauridae sp. 2		Plexauridae	orange coarse mesh	013DR001B-032
11196803	seafan	Plexauridae sp. 3		Plexauridae	orange fine mesh	013DR001B-031
11196804	seafan	Plexauridae sp. 4		Plexauridae	orange/pink fine mesh	020DR005B-020
11197801	octocoral	Primnoidea sp. 1		Primnoidea	pale, spiky	023GR040B-001
11208801	seapen	Pennatulacea sp. 1			tiny, green tinge on polyp leaves	038GR060B-002
11229801	sea anemones	Actinaria sp. 1			striped on shell	006GR009B-006
11229802	sea anemones	Actinaria sp. 2			coloured on rock	013DR001B-050
11229803	sea anemones	Actinaria sp. 3			tiger on antipatharian	013DR001B-060
11229804	sea anemones	Actinaria sp. 4			white on antipatharian	020DR005B-011
11229805	sea anemones	Actinaria sp. 5			burrowing	043GR069B-002
11280801	corallimorph anemones	Corallimorpharia sp. 1			pink, on dead corals	043DR012B-001
11284801	zoanthid anemones	Zoanthinaria sp. 1			brown on tubifex	019GR033B-008
11290801	colonial coral	Scleractinia sp. 1			white, irreg, tiny calyces	019GR033B-009;020DR005B-013
11314801	solitary coral	Caryophylliidae sp. 1		Caryophylliidae	dead collected	002GR002B-003;007GR011B-005
11314802	solitary coral	Caryophylliidae sp. 2		Caryophylliidae		008GR012B-002
11314803	solitary coral	Caryophylliidae sp. 3		Caryophylliidae	dead collected	016GR026B-002
11314804	colonial coral	Caryophylliidae sp. 4		Caryophylliidae	dead collected	020DR005B-012
11314805	solitary coral	Caryophylliidae sp. 5		Caryophylliidae	dead collected	064GR084B-004
11317801	solitary coral	Turbinoliidae sp. 1		Turbinoliidae		016GR026B-004
11320801	colonial coral	Dendrophylliidae sp. 1		Dendrophylliidae	orange-yellow	023DR006B-004
11320802	solitary coral	Balanophyllia sp. 1		Dendrophylliidae	orange	038DR010B-031
11328801	solitary coral	Flabellum sp. 1		Flabellidae	dead collected	002GR001B-002;003GR004B-003
14000801	ribbon worm	Nemertea sp. 1			brown bands on back	018GR031B-004
14000802	ribbon worm	Nemertea sp. 2			red	032BS006B-008
17000801	sipunculan worm	Sipuncula sp. 1				012GR019B-002
17001801	sipunculan worm	Sipunculus sp. 1		Sipunculidae		009GR015B-002
17020801	echiuran worm	Echiura sp. 1				045DR014B-003
19150801	brachiopod	Brachiopoda sp. 1			fine ribs	013DR001B-033;013DR001B-048;020DR005B-006
19150802	brachiopod	Brachiopoda sp. 2			smooth, round	020DR005B-005
19150803	brachiopod	Brachiopoda sp. 3			smooth, more elongate	025DR007B-002
19150804	brachiopod	Brachiopoda sp. 4			coarser ribs	043GR069B-005
20300801	bryozoan	Porina vertebralis		Porinidae	Cheilostomata	008GR012B-005
20300802	bryozoan	Bryozoa sp. 1			Cheilostomata, tubes	043DR012B-009
20300803	bryozoan	Bryozoa sp. 2			Cheilostomata, orange vane	045DR014B-004
20300804	bryozoan	Bryozoa sp. 3			Cheilostomata, encrusting	045DR014B-005
20322801	bryozoan	Flustridae sp. 1		Flustridae	soft, flat	038DR010B-015
20325801	bryozoan	Nellia sp. 1		Quadricellariidae		008GR012B-004
20330801	bryozoan	Beania sp. 1		Beanidae	rigid	029GR052B-002
20332801	bryozoan	Scrupocellaria curvata		Candidae		013DR001B-064;043DR012B-004
20405801	bryozoan	Adeonella sp. 1		Adeonidae	large	013DR001B-066
20405802	bryozoan	Adeonella sp. 2		Adeonidae	small	013DR001B-0657

## Appendix 1

## Fauna\_Codes

CAAB SPCODE	COMMON_NAME	SCIENTIFIC_NAME	AUTHORITY	FAMILY	NOTES	Stations recorded - Photos
20487801	bryozoan	Triphylozoon sp. 1		Phidoloporidae		013DR001B-016
22000801	polychaete worm	Polychaeta sp. 1				001BS001-002;005GR007B-003;010GR016B-001
22000802	polychaete worm	Polychaeta sp. 2				001BS001-008
22000803	polychaete worm	Polychaeta sp. 3			red, long setae	007GR011B-002
22000804	polychaete worm	Polychaeta sp. 4			sandy, long front setae	015GR025B-002
22000805	polychaete worm	Polychaeta sp. 5			red	034BS007B-002
22000806	polychaete worm	Polychaeta sp. 6			bristle	048GR073B-002
22000807	polychaete worm	Polychaeta sp. 7			tube worm	064GR083B-002
22024801	polychaete worm	Eunice sp. 1		Eunicidae		039GR062B-004
22030801	polychaete worm	Onuphidae sp. 1		Onuphidae		018GR031B-003
22062801	scale worm	Polynoidae sp. 1		Polynoidae		007BS003-005
22062802	scale worm	Polynoidae sp. 2		Polynoidae		013DR001B-049
22116801	polychaete worm	Flabelligeridae sp. 1		Flabelligeridae	setae crown	020DR005B-008
22116802	polychaete worm	Flabelligeridae sp. 2		Flabelligeridae	few long setae	049GR078B-002
23199801	bivalve	Bivalvia sp. 1			radial ribs	018GR030B-003
23207801	beaked cockles	Nuculanidae sp. 1		Nuculanidae	dead collected	001BS001-006
23207802	beaked cockles	Nuculanidae sp. 2		Nuculanidae		015BS004B-002;024GR044B-002
23207803	beaked cockles	Nuculanidae sp. 3		Nuculanidae	dead collected	030GR054B-002
23226801	ark shell	Arcidae sp. 1		Arcidae		053DR015B-017
23272801	thorny oyster	Spondylus sp. 1		Spondylidae		038DR010B-020
23301801	chama	Chama sp. 1		Chamidae		053DR015B-018
23355801	tellin	Tellinidae sp. 1		Tellinidae		007BS003-009
23410801	bivalve	Thraciidae sp. 1		Thraciidae		002GR001B-005
23499801	tusk shell	Scaphopoda sp. 1				008GR013B-001
24080801	worm shells	Siliquaria sp. 1		Siliquariidae	dead in situ	013DR001B-045
24191801	ladder shell	Epitoniidae sp. 1		Epitoniidae	dead?	016GR026B-001
24202801	whelks	Fasciolarinae sp. 1		Buccinidae		001BS001-007
24207801	volute	Volutoconus sp. 1		Volutidae		037GR056B-002
24220801	turrid	Turridae sp. 1		Turridae		006GR009B-005
24220802	turrid	Turridae sp. 2		Turridae		002GR085B-002
24221801	auger shell	Terebridae sp. 1		Terebridae		009GR014B-001
25001801	crinoids	Crinoidea sp. 1			long cirri	013DR001B-001
25001802	crinoids	Crinoidea sp. 2			5 arms	020GR035B-004;020DR005B-002
25001803	crinoids	Crinoidea sp. 3			many arms, long cirri	038GR059B-007
25021801	stalked crinoid	Pentacrinitidae? sp. 1		Pentacrinitidae	stem sections only, prob. Subfossil	043GR069B-003
25039801	crinoids	Colobometridae sp. 1		Colobometridae	small	013DR001B-007
25039802	crinoids	Colobometridae sp. 2		Colobometridae	stiff arms	013DR001B-008
25039803	crinoids	Colobometridae sp. 3		Colobometridae	sm cirri	013DR001B-009
25143801	seastar	Echinasteridae sp. 1		Echinasteridae		045GR072B-001
25160801	brittlestar	Ophiuroidea sp. 1				001BS001-003
25160802	brittlestar	Ophiuroidea sp. 2				007BS003-014
25160803	snakestar	Ophiuroidea sp. 3				013DR001B-053
25160804	brittlestar	Ophiuroidea sp. 4				017GR029B-003
25160805	snakestar	Ophiuroidea sp. 5				020DR005B-004
25160806	brittlestar	Ophiuroidea sp. 6				028GR049B-002
25160807	brittlestar	Ophiuroidea sp. 7				043GR069B-004
25160808	brittlestar	Ophiuroidea sp. 8				043DR012B-003
25160809	brittlestar	Ophiuroidea sp. 9				049GR075B-002
25160810	brittlestar	Ophiuroidea sp. 10				049GR077B-001
25160811	brittlestar	Ophiuroidea sp. 11				002GR085B-004
25171801	basketstar	Gorgonocephalidae sp. 1		Gorgonocephalidae	pr spines base of arms on disc; ex 013DR001B-003	013DR001B-002;020DR005B-019
25171802	basketstar	Gorgonocephalidae sp. 2		Gorgonocephalidae	no disc granules	020DR005B-007
25171803	basketstar	Gorgonocephalidae sp. 3		Gorgonocephalidae	disc granules	020DR005B-003
25171804	snakestar	Gorgonocephalidae sp. 4		Gorgonocephalidae	unbranched arms	038DR010B-004
25176801	brittlestar	Ophiuridae sp. 1		Ophiuridae		003GR004B-001
25176802	brittlestar	Ophiuridae sp. 2		Ophiuridae	pink	038DR010B-017
25178801	brittlestar	Ophiocomidae sp. 1		Ophiocomidae		039GR061B-003

## Appendix 1

## Fauna\_Codes

CAAB SPCODE	COMMON_NAME	SCIENTIFIC_NAME	AUTHORITY	FAMILY	NOTES	Stations recorded - Photos
25180801	brittlestar	Ophiidermatidae sp. 1		Ophiidermatidae	bioluminescent	027GR048B-002
25191801	brittlestar	Amphiuridae sp. 1		Amphiuridae		005GR007B-004
25191802	brittlestar	Amphiuridae sp. 2		Amphiuridae		007BS003-013
25191803	brittlestar	Amphiuridae sp. 3		Amphiuridae		011GR018B-002
25191804	brittlestar	Amphiuridae sp. 4		Amphiuridae		002GR086B-002
25192801	brittlestar	Ophiothrix sp. 1		Ophiothrichidae		013DR001B-011
25200801	sea urchin	Echinoidea sp. 1			irregular	020DR005B-026;048GR074B-002
25202801	sea urchin	Cidaridae sp. 1		Cidaridae	large, sponge on spines but few thorns	038DR010B-001
25202802	sea urchin	Cidaridae sp. 2		Cidaridae	sm, spines with lots of thorns	038DR010B-019
25404801	sea cucumber	Psolidae sp. 1		Psolidae	sm, white	042DR011B-002
27500801	barnacle	Cirripedia sp. 1			balanomorph on octocoral/antipatharian stems	013DR001B-044
27500802	stalked barnacle	Cirripedia sp. 2		Oxynaspididae?	embedded in live octocoral	038DR010B-029
27500803	stalked barnacle	Cirripedia sp. 3			on antipatharian	044DR013B-002
27524801	stalked barnacle	Arcoscalpellum sp. 1		Scalpellidae	striped stalk	043DR012B-006
27524802	stalked barnacle	Scalpellidae sp. 1		Scalpellidae	plates on stalk	043DR012B-007
28030801	mantis shrimp	Stomatopoda sp. 1				005GR006B-001
28030802	mantis shrimp	Stomatopoda sp. 2				006GR009B-001;015BS004B-004
28030803	mantis shrimp	Stomatopoda sp. 3				007GR010B-001
28105801	tanaiidacean	Tanaidacea sp. 1				001BS001-004
28105802	tanaiidacean	Tanaidacea sp. 2				007BS003-012
28205801	isopod	Anthuridae sp. 1		Anthuridae		007BS003-007
28205802	isopod	Anthuridae sp. 2		Anthuridae		023GR042B-002
28206801	isopod	Paranthuridae sp. 1		Paranthuridae		032BS006B-005
28220801	isopod	Cirolanidae sp. 1		Cirolanidae		007BS003-006
28220802	isopod	Cirolanidae sp. 2		Cirolanidae		010GR017B-003
28220803	isopod	Cirolanidae sp. 3		Cirolanidae	ex hole in rock	019GR033B-001
28226801	isopod	Sphaeromatidae sp. 1		Sphaeromatidae	ex hole in rock	019GR033B-002
28400801	gammarid amphipods	Amphipoda Gammaridea sp. 1				001BS001-005
28711801	prawn	Penaeidae sp. 1		Penaeidae		007BS003-004
28711802	prawn	Penaeidae sp. 2		Penaeidae		016GR027B-003
28730801	shrimp	Caridea sp. 1			red pattern	039GR062B-003
28765801	snapping shrimp	Alpheidae sp. 1		Alpheidae	red pattern	006GR009B-003
28765802	snapping shrimp	Alpheidae sp. 2		Alpheidae	clear	013GR001B-058
28765803	snapping shrimp	Alpheidae sp. 3		Alpheidae	red band on claw	016GR027B-002
28765804	snapping shrimp	Alpheidae sp. 4		Alpheidae	long palm, setae on finger	022GR038D-002
28765805	snapping shrimp	Alpheidae sp. 5		Alpheidae	spotted long palm, no setae on finger	023GR042B-003
28765806	snapping shrimp	Alpheidae sp. 6		Alpheidae	clear, black spots on abdomen	038DR010B-022
28770801	shrimp	Pandalidae sp. 1		Pandalidae		020DR005B-009
28803801	slow prawn	Callinassidae sp. 1		Callinassidae	faint pattern	002GR001B-001;005GR006B-002;002GR085B-003
28803802	slow prawn	Callinassidae sp. 2		Callinassidae	red pattern	007GR011B-004;064GR084B-003
28803803	slow prawn	Callinassidae sp. 3		Callinassidae	sm, white band on claw, long palm	007GR011B-003
28803804	slow prawn	Callinassidae sp. 4		Callinassidae	orange, toothed claw	015BS004B-006
28803805	slow prawn	Callinassidae sp. 5		Callinassidae	white band on claw, short palm	023GR042B-004
28803806	slow prawn	Callinassidae sp. 6		Callinassidae	clear, no colour	032BS006B-002
28803807	slow prawn	Callinassidae sp. 7		Callinassidae	pale, diffuse pink bars on claws	032BS006B-003
28805801	slow prawn	Upogebiidae sp. 1		Upogebiidae	pair, subchelate claws	002BS002-002
28805802	slow prawn	Upogebiidae sp. 2		Upogebiidae	female, orange pattern	003GR005B-002
28805803	slow prawn	Upogebiidae sp. 3		Upogebiidae	pink claws	015BS004B-003
28840004	elegant squat lobster	Allogalthea elegans	(A. Adams & White, 1848)	Galatheididae	ex 013DR001B-001	013DR001B-013
28840801	squat lobster	Galatheididae sp. 1		Galatheididae	translucent white	013DR001B-054
28840802	squat lobster	Galatheididae sp. 2		Galatheididae	red claws	013DR001B-055
28840803	squat lobster	Galatheididae sp. 3		Galatheididae	red pattern, large eyes, 3 rostral spines, male long palm, female short palm	013DR001B-056;039GR061B-002;039GR062B-002
28840804	squat lobster	Galatheididae sp. 4		Galatheididae	red pattern, large eyes, 1 rostral spine	018GR030B-001
28840805	squat lobster	Galatheididae sp. 5		Galatheididae	red spots ex sponge 006	038DR010B-007

Appendix 1

Fauna\_Codes

CAAB SPCODE	COMMON_NAME	SCIENTIFIC_NAME	AUTHORITY	FAMILY	NOTES	Stations recorded - Photos
28840806	squat lobster	Galathea sp. 6		Galathea	blurred red pattern, large eyes, 3 rostral spines longer than sp. 3	043GR069B-006
28840807	squat lobster	Galathea sp. 7		Galathea	female with eggs	053DR015B-016
28843801	half crab	Porcellanidae sp. 1		Porcellanidae		013DR001B-052
28865801	frog crab	Raninidae sp. 1		Raninidae	female with eggs	002BS002-003;003GR004B-002
28880801	spider crab	Majidae sp. 1		Majidae		013GR020B-001
28880802	spider crab	Majidae sp. 2		Majidae		019GR033B-006
28900801	crab	Corystidae sp. 1		Corystidae		018GR030B-002
28911801	swimmer crab	Portunus sp. 1		Portunidae	female with eggs	001BS001-001
28911802	swimmer crab	Thalassidea sp. 1		Portunidae	male	013DR001B-059
28911803	swimmer crab	Charybdis sp. 1		Portunidae	male	053DR015B-001
28922801	crab	Goneplacidae sp. 1		Goneplacidae	tentative family placement	032BS006B-004
28922802	crab	Goneplacidae sp. 2		Goneplacidae	tentative family placement	064GR084B-002
28926801	hairy crabs	Pilumnidae sp. 1		Pilumnidae		013DR001B-057
35033801	ascidian	Styelidae sp. 1		Styelidae		038DR010B-035
37000801	fish	Unidentified fish sp. 1				007BS003-002;061GR082B-002
37065801	duckbill eel	Netastomatidae sp. 1		Netastomatidae		002GR003B-001
37428801	goby	Gobiidae sp. 1		Gobiidae		005GR007B-002
37428802	goby	Gobiidae sp. 2		Gobiidae		010GR017B-002
37428803	goby	Gobiidae sp. 3		Gobiidae		013GR021B-001
37428804	goby	Gobiidae sp. 4		Gobiidae		015BS004B-005