

RRS DISCOVERY

CRUISE 266

SEPTEMBER - OCTOBER 2002

PORCUPINE SCABIAHT
PORCUPINE ABYSSAL PLAIN

RSH AND INVERTEBRATE BIOLOGY

PRINCIPAL SCIENTIST

MONTY PRIGOR

[NO CRUISE REPORT PRODUCED -
STATION LIST ONLY]

Station List - RRS Discovery Cruise No. 266 September-October 2002

Station No.	Date	Time GMT	Latitude	Longitude	Gear	Depth (m)	Remarks
15043 #1	29 Sept	1739 1845	52° 25.0'N	11° 47.7'W	CTD	1050	Tests acoustic releases and collection of bottom water for maintenance of deep sea corals. Two releases failed and the bottles would not fire so the exercise was repeated.
15043 #2	29 Sept	1900 2000	52° 25.0'N	11° 47.7'W	CTD	1050	Successful cast with water and releases fired
15044	29 Sept	2135 2236	51° 25.8'	11° 46.4'W	Box Core	870	Good box core with <i>Madrepora</i> and <i>Lophelia</i> spp.
15045	30 Sept	0132 0901	51° 09.9'N	11° 40.8'W	ISIT	1022	Baited lander deployed on the usual coral site for detection of bioluminescence. Good results with the camera viewing a larger area than normal.
15046	30 Sept	0139 1813	51° 12.2'N	11° 41.1'W	SPRINT	1033	SPRINT targeting the eels that are usually abundant in this area. Results were disappointing with few eels attracted to the rig.
15047	30 Sept	0500 0635	51° 25.9'N	11° 46.9'W	Box Core	800	Another nice result with both species of coral, no further collections were required during this cruise.
15048	30 Sept	1152 1615	51° 15.3'N 51° 04.3'N	11° 54.8'W 11° 55.1'W	OTSB	1200	Good catch with over 1000 <i>Synaphobranchus kaupi</i> ,
15049	30 Sept	2003 2100	51° 09.4'N	11° 42.8'W	CTD	500	Test of ANIMATE mooring sensors
15050	30 Sept 1 Oct	2203 0705	51° 10.2'N	11° 40.6'W	ISIT	1017	ISIT deployed with no bait as a control experiment. Little luminescence was detected.
15051	1 Oct	0100 0830	51° 26.9'N 51° 16.2'N	11° 54.3'W 11° 52.6'W	OTSB	1000	Trawl along almost the same track as the previous one but shallower start to capture eels 12h after the previous trawl. Fewer eels but lots of sea urchins.
15052	1 Oct 2 Oct	1630 0000	50° 04.8'N 49° 43.2'N	12° 45.7'W 12° 45.1'W	OTSB	2500 2500	Good catch including small <i>Coryphaenoides armatus</i> and a diversity of species.

Station No.	Date	Time GMT	Latitude	Longitude	Gear	Depth (m)	Remarks
Test	2 Oct	0420 0640	49°53.0'N	13° 31.0'W	CTD	3190	CTD at the mouth of the Porcupine Seabight to collect deep water for priming of sediment traps
14314	2 Oct	0157 0949	49°58.5'N	13° 31.3'W	DOBO	2755	Retrieval of the deep ocean benthic observatory deployed on D260 on 17 March 2002.
15054 #1	3 Oct	0055 0446	49°00.0'N	16°06.9'W	CTD Wire test	4700	5 acoustic releases lowered to 100m above the bottom for test. Damage to the winch meant the trawl wire was used instead of the conducting cable
15054 #2	3 Oct	0532 0907	49° 00.0'N	16°07.2'W	CTD Wire test	4700	A second set of 5 acoustic releases were tested.
15054 #3	3 Oct 7 Oct	1046 1642	48°59.9'N	16°06.9'W	SPRINT	4813	A first deployment on the abyssal plain for this instrument. Many <i>C. armatus</i> were attracted but only a few fast starts were recorded. Dah buoy broke free during recovery
15054 #4	3 Oct 7 Oct	1142 1740	49°01.9'N	16° 09.0'W	ISIT	4810	The ISIT in bungee mode, a good profile to the bottom was obtained.
15054 #5	3 Oct 5 Oct	1302 1900	48°59.7'N	16° 12.2'W	FRESP	4809	There were no fish in the trap on retrieval and owing to software problems the video was short and data confused.
15053	3 Oct	1445	48° 59.7'	16° 26.8W	Sediment Trap	3810	A sediment trap mooring was recovered for Dr. Richard Lampitt of SOC
15054 #6	3 Oct 4 Oct	1905 824	48°57.4'N	16°17.7'W	OTSB	4810	Trawl on the abyssal plain captured 7 large <i>Corypceanoides armatus</i> and many <i>Amperima</i> . 9:07 AM DR
15054 #7	4 Oct	1933	49° 00.1'N	16° 28.8W	Sediment Trap	4809	Sediment Trap mooring deployed for Dr Richard Lampitt of SOC. Designated PAP3 of the EU ANIMATE project. 3 traps on a 3000m mooring. Fixative leaked from tubes during deployment.
15054 #8	4 Oct 5 Oct	2108 1103	48° 53.8'N 48° 53.6'N	16° 10.8'W 17° 09.3'N	OTSB	4808	The net was damaged, and the catch was small. 8:47 AM DR

Station No.	Date	Time GMT	Latitude	Longitude	Gear	Depth (m)	Remarks
15054 #9	5 Oct 6 Oct	2232 0207	48° 50.9'N	16° 29.9'W	Multi-corer	4810	Core at central PAP site 1 mile north to avoid new cable. 10 out of 11 good cores collected.
15054 #10	6 Oct	0250 0630	48° 51.0'N	16° 30.0'W	Box Core	4810	Successful core slightly disturbed.
15054 #11	6 Oct	0700 0859	48°51.1'N	16° 30.0'W	CTD Wire test	4700	A test of releases and camera housing on the CTD frame which was lowered on the core wire.
15054 #12	6 Oct	1509 1932	48° 59.4'N on bottom	16° 28.1'W	ANIMATE PAP 2	4810	An instrumentation mooring for the ANIMATE project featuring ARGOS real time telemetry to shore.
15054 #13	7 Oct 10 Oct	1322 1606	48° 59.9'N	61° 16.1'W	FRESP	4809	FRESP deployed late after problems with software. On recovery it was found to malfunctioned, the cause was traced to a defective Flash card in the programmer.
15054 #14	7 Oct 8 Oct	2134 0114	48° 51.0'N	16° 29.9'W	Multicore	4807	A good set of cores.
15054 #15	8 Oct	0150 0522	48° 51.0'N	16° 30.6'W	Multicore	4807	A good set of cores.
15054 #16	8 Oct	0600 0717	48° 51.3'N	16° 31.6'W	CTD	500m	Water samples for calibration of ANIMATE sensors. One bottle failed to trigger.
15054 #17	8 Oct	0800 0812	48° 51.1'N	16° 30.1'W	CTD	100m	A repeat cast to obtain the missing sample.
15054 #18	8 Oct	0836 1221	48°52.0'N	16° 32.1'W	Box Core	4807	A successful cast but not a perfect sample. Which was slightly disturbed.
15054 #19	8 Oct 11 Oct	1440 1735	48° 46.6'N	16° 29.1'W	ISIT	4808	A second ISIT in bungee mode at the PAP station. The splat screen was bent.
15054 #20	8 Oct 11 Oct	1531 1826	48°47.3'N	16° 29.8'W	SPRINT	4808	A second SPRINT at the PAP station. Excellent quality video but the fish are relatively unresponsive.

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15054 #21	8 Oct	2250 2340	48° 59.0'N on bottom	16°25.4'W	ANIMATE PAP1	4810	The third of three ANIMATE moorings to be deployed with nutrient analysers but no satellite telemetry.
15054 #22	9 Oct 10 Oct	2007 0859	48° 43.1'N 48° 58.4'N	16°33.8'W 17°02.0'W	OTSB	4808	A small catch with just a few fish. 7.2 km DR
15054 #23	10 Oct 11 Oct	2007 1900	48° 45.8'N	16°30.9'W	DOBO	4809	DOBO deployed for a short term test of the bait release mechanism. On recovery it was found the camera had failed. 7200
15054 #24	10 Oct 11 Oct	2139 1104	48° 40.0'N 49° 16.2'N	16°42.5'W 17°08.3'W	OTSB	4809- 4814	Another small catch but with a few small macrourids and one eel. 7.02 km DR
15054 #25	11 Oct 12 Oct	2335 1104	48° 55.0'N 48° 55.2'N	16°05.7'W 16°39.2'W	OTSB	4809- 4812	Small catch yet again with no <i>C. armatus</i> . 7.21 km DR
15054 #26	12 Oct	1432	49° 00.2'N	16°26.8'W	Bathysnap	4811	Bathysnap deployed near the ANIMATE moorings. To be recovered in 2003
15055 #1	12 Oct 13 Oct	2136 1628	49° 27.9'N	15°34.2'W	ISIT	4727	ISIT deployed in bungee mode half way between PAP and the seabight.
15055 #2	12 Oct 13 Oct	2136 1142	49° 25.8'N 49° 29.3'N	15°25.5'W 16°07.6'W	OTSB	4749 4780	Using original Marinovitch doors a good catch was obtained, is this significant? 8.14 km DR
15056	14 Oct 16 Oct	0012 0839	49° 46.0'N	13°57.2'W	FRESP	4002	Deployed with software problems apparently solved but the syringe system stalled & the trap did not close.
15057	14 Oct	0200 1621	49° 46.9'N	13°40.3'W	SPRINT	3034	Sprint deployed for small <i>C. armatus</i> . Very good quality video obtained.
15058	14 Oct	0528	49° 40.6'N	13°01.6'W	OTSB	1992 2040	Trawl on the Goban Spur. Large catch of eels <i>S. kaupi</i> , and small macrourids.
15059	14 Oct 15 Oct	1429 1230	49° 46.7'N	13°37.7'W	ISIT	2910	ISIT bungee in the mouth of the seabight.
15060	15 Oct	0825 1215	49°47.5'N	13°38.4'W	DOBO CTD	3047	The DOBO camera system which had been rebuilt on board ship was lowered to the sea floor for tests.

Station No.	Date	Time GMT	Latitude	Longitude	Gear	Depth (m)	Remarks
15061	15 Oct 18 Oct	1457 1800	49° 44.1'N	13°30.0'W	SPRINT	2451	Easy deployment in calm weather, had to be left because of diversion to Cork. Good results
15062	15 Oct 16 Oct	1900 0254	49° 48.9'N	13°42.9'W	OTSB	3071 3181	A reasonable catch of 55 fish including 3 specimens of a putative new holothurian species.
15063	18 Oct	0440 0828	49° 40.0'N 49° 44.6'N	11°30.7'W 11°43.6'W	OTSB	785 920	The Aberdeen Marinovitch net was destroyed by corals and a couple of large rocks. A good varied catch of fish and invertebrates, including a large shark
15064	18 Oct 19 Oct	1121 0550	49° 48.3'N	12°04.9'W	FRESP	1480	Captured 3 eels, <i>Synaphobranchus kaupi</i> ; a successful experiment. Recovered at night in deteriorating weather
15065	18 Oct	2134	49° 23.0'N	13°35.7'W	DOBO	3970	Deployed to be recovered in 2003. Equipped with odour bait release. No tests were possible owing to onset of adverse weather.
15066	19 Oct	0806 1146	49° 50.4'N 49° 44.8'N	12°05.1'W 11° 52.2'W	OTSB	1360 1240	A new net hauled full of glass sponges, but over 200 fish and other fauna including a large spider crab.

NB: Trawl depths are maximum and minimum depths for each tow. Deployment and recovery positions are given.
For landers, times are flag sinking times and surface times. All depths are uncorrected echosounder depths (1500m.s⁻¹)