



Arctic Coring Expedition (ACEX)



DIS: Data-Report

CORE / SECTION SUMMARY

Page 1

Expedition: 302 **Site:** 4 **Hole:** A TOTAL CORE RECOVERY: 44.15 %

Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered (m)	Core Recovered (%)	Section Num	Liner Length	Curated Length	Top Depth	Bottom Depth	Section Remarks
1-H	28/08/2004 01:40:00	17	20.5	3.5	3.53	100.86						
Liner shattered most of the way - simplest to heat shrink each section, core inside liner still looks ok.							1	1.51	1.51	17	18.51	liner shattered - heat shrink over
							2	1.21	1.21	18.51	19.72	liner shattered - heat shrink over
							3	0.51	0.51	19.72	20.23	liner shattered - heat shrink over
							4	0.3	0.3	20.23	20.53	liner shattered - heat shrink over
2-X	28/08/2004 03:45:00	20.5	25.5	5	3.79	75.80						
							1	1.51	1.51	20.5	22.01	145-150 cm WR for IW: 133- 142 Rhizone samples.
							2	1.5	1.5	22	23.5	
							3	0.78	0.78	23.5	24.28	
3-X	28/08/2004 04:50:00	25.5	30.5	5	2.79	55.80						
							1	1.5	1.51	25.5	27.01	
							2	1.28	1.28	27	28.28	
4-X	28/08/2004 23:35:00	265	270	5	0.33	6.60						
first core after wash down to 265 mbsf							1	0.33	0.33	265	265.33	pieces fom top to Pal
5-X	29/08/2004 00:50:00	270	273.5	3.5	2.11	60.29						
Very soft black mud - scrapings from the bottom to PAL							1	1.5	1.5	270	271.5	
							2	0.61	0.61	271.5	272.11	
6-X	29/08/2004 02:10:00	273.5	278.5	5	5.28	105.60						
							1	1.5	1.5	273.5	275	151-145 cm WR from end of section 2 : plug samples for Micro Bio 140-145cm
							2	1.51	1.51	275	276.51	
							3	1.52	1.52	276.51	278.03	
							4	0.57	0.57	278.03	278.6	
							5	0.18	0.18	278.6	278.78	5cm WR from end all to PAL

Expedition: 302 **Site:** 4 **Hole:** A TOTAL CORE RECOVERY: 44.15 %

Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered (m)	Core Recovered (%)	Section Num	Liner Length	Curated Length	Top Depth	Bottom Depth	Section Remarks
7-X	29/08/2004 03:20:00	278.5	282.3	3.80000000	5.18	136.32						
Head space gas from top section 3. Section 4 looks like drill cuttings.							1	1.52	1.52	278.5	280.02	Scrapings from top of core all to PAL
							2	1.51	1.51	280.02	281.53	
							3	1.31	1.31	281.53	282.84	x2 headspace samples from the top of section
							4	0.84	0.84	282.84	283.68	Drilling advance was 3.8 and hle reamed after advance - this section is assumed to be cuttings - curated at the request of co-chief
8-X	29/08/2004 04:30:00	282.3	287.3	5	0.28	5.60						
Core catcher all to PAL							1	0.21	0.21	282.3	282.51	
							CC	0.07	0.07	282.51	282.58	mostly mush from the core catcher all to PAL
9-X	29/08/2004 05:50:00	287.3	291.85	4.55000000	0.36	7.91						
CC all to PAL							1	0.27	0.27	287.3	287.57	
							CC	0.09	0.09	287.57	287.66	All to PAL
10-X	29/08/2004 07:15:00	291.85	297.3	5.45	5.34	97.98						
							1	1.5	1.5	291.85	293.35	
							2	1.5	1.5	293.35	294.85	143-150 WR for IW: 143-137 cm plug samples for MicroBio
							3	1.51	1.51	294.85	296.36	
							4	0.68	0.68	296.36	297.04	
							CC	0.15	0.15	297.04	297.19	CC split and half to PAL
11-X	29/08/2004 08:35:00	297.3	301.35	4.05000000	5.43	134.07						
							1	1.5	1.5	297.3	298.8	
							2	1.51	1.51	298.8	300.31	
							3	1.52	1.52	300.31	301.83	
							4	0.67	0.67	301.83	302.5	
							CC	0.23	0.23	302.5	302.73	18-23 cm WR all tp PAL
12-X	29/08/2004 10:00:00	301.35	306.35	5	0.02	0.40						
Empty liner 2 small pieces recovered from the core catcher all given to PAL							CC	0.02	0.02	301.35	301.37	all to Pal
13-X	29/08/2004 11:15:00	306.35	310.85	4.5	0	0.00						
Empty liner, 2nd in a row, changed back to the piston corer cutting shoe.												
14-X	29/08/2004 13:00:00	310.85	313.35	2.5	0	0.00						
Empty liner, 3rd in a row, piston corer cutting shoe												

Expedition: 302Site: 4Hole: A

TOTAL CORE RECOVERY: 44.15 %

Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered (m)	Core Recovered (%)	Section Num	Liner Length	Curated Length	Top Depth	Bottom Depth	Section Remarks
15-X	29/08/2004 15:30:00	313.35	315.35	2	0.26	13.00						
slurry cuttings only, placed in new liner - drilled w/PDC-bit							1	0.26	0.26	313.35	313.61	only slurry marteial - placed in new liner - bag to Pal
16-X	29/08/2004 18:20:00	315.35	318.8	3.45	0	0.00						
Empty liner - w/GEOSET-bit												
17-X	29/08/2004 19:50:00	318.8	318.81	0.01	0	0.00						
Empty liner - w/PDC-bit; no advance, tried to get "hard rock" again w/ different cc												
18-X	29/08/2004 21:20:00	318.8	320.53	1.73	0.16	9.25						
							CC	0.16	0.16	318.8	318.96	small pieces to Pal
19-X	30/08/2004 00:30:00	320.53	326.28	5.75	3.17	55.13						
first core recovered since "hard formation": section 1 144-150 cm WR for IW							1	1.5	1.5	320.53	322.03	144 - 150 cm WR for IW
							2	1.51	1.51	322.03	323.54	
							CC	0.16	0.16	323.54	323.7	13-16 cm WR all to PAL
20-X	30/08/2004 03:30:00	326.28	329.28	3	2	66.67						
							1	0.99	0.99	326.28	327.27	
							2	0.8	0.8	327.27	328.07	
							CC	0.21	0.21	328.07	328.28	16-21 cm WR all to PAL
21-X	30/08/2004 05:50:00	329.28	330.18	0.90000000	3.58	397.78						
core looks to be good despite only a 1.3 m advance.							1	1.53	1.53	329.28	330.81	
							2	1.47	1.47	330.81	332.28	
							3	0.38	0.38	332.28	332.66	
							CC	0.2	0.2	332.66	332.86	15-20 cm WR all to PAL
22-X	30/08/2004 12:30:00	339	341.6	2.60000000	0.98	37.69						
first core after drill w/insert bit to 339m - 2 HS @ 82-85cm							1	0.85	0.85	339	339.85	82-85cm: 2 HS
							CC	0.13	0.13	339.85	339.98	9-13cm WR to Pal
23-X	30/08/2004 15:50:00	341.6	345.6	4	4.07	101.75						
liner @ top of sect. 3 slightly folded							1	1.51	1.51	341.6	343.11	IW@144-150cm; 10+1cc Mircobiol.
							2	1.5	1.5	343.11	344.61	2 HS@146-150cm
							3	0.84	0.84	344.61	345.45	
							CC	0.22	0.22	345.45	345.67	18-22cm WR to Pal
24-X	31/08/2004 00:50:00	355.6	360.6	5	0	0.00						
A few small pieces of rubble in the liner all to PAL							1	1.5	1.5	355.6	357.1	
25-X	31/08/2004 03:00:00	360.6	365.6	5	0	0.00						
1 piece of rubble from above core catcher all to PAL												

Expedition: 302 **Site:** 4 **Hole:** A TOTAL CORE RECOVERY: 44.15 %

Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered (m)	Core Recovered (%)	Section Num	Liner Length	Curated Length	Top Depth	Bottom Depth	Section Remarks
26-X	31/08/2004 05:00:00	365.6	367.4	1.8	0	0.00						
no recovery: changed to APC cutting shoe.												
27-X	31/08/2004 07:00:00	367.4	371.8	4.40000000	4.85	110.23						
30 cm of drilling cuttings from the top of the core sent to Oden for PAL							1	1.5	1.5	367.4	368.9	16-29 cm added from the core catcher (solid good core) remainder of the core catcher)5 cm all toPAL
							2	1.5	1.5	368.9	370.4	
							3	1.51	1.51	370.4	371.91	
							4	0.29	0.29	371.91	372.2	
							CC					
28-X	31/08/2004 09:00:00	371.8	375.8	4	5.23	130.75						
CC 0.05 cm all to PAL							1	1.5	1.5	371.8	373.3	1 cc syringe sample from working half for MicroBio
							2	1.53	1.53	373.3	374.83	expanded when cut 2 cm liner added to bottom of section and heat shrunk
							3	1.5	1.5	374.83	376.33	
							4	0.65	0.65	376.33	376.98	
							CC					0.05
29-X	31/08/2004 11:00:00	375.8	380.3	4.5	1.32	29.33						
							1	1.2	1.2	375.8	377	5 cm WR to PAL
							CC	0.12	0.12	377	377.12	
30-X	31/08/2004 12:40:00	380.3	383.2	2.9	4.24	146.21						
							1	1.51	1.51	380.3	381.81	IW@143-152cm; 10+1cc Mircobiol.
							2	1.52	1.52	381.81	383.33	
							3	1.09	1.09	383.33	384.42	
							CC					0.12
31-X	31/08/2004 14:05:00	383.2	388	4.80000000	0.55	11.46						
material sliced by core catcher? - w / Geoset-bit							CC	0.55	0.55	383.2	383.75	50--55cm WR to Pal - Chert @ 48-50cm
32-X	31/08/2004 15:40:00	388	392.5	4.5	3.04	67.56						
w / PDC bit							1	1.5	1.5	388	389.5	13-18cm WR to Pal
							2	1.36	1.36	389.5	390.86	
							CC	0.18	0.18	390.86	391.04	
33-X	31/08/2004 17:10:00	392.5	396.25	3.75	1.65	44.00						
w / Geoset-bit							1	1.5	1.5	392.5	394	11-15cm WR to Pal
							CC	0.15	0.15	394	394.15	

Expedition: 302Site: 4Hole: A

TOTAL CORE RECOVERY: 44.15 %

Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered (m)	Core Recovered (%)	Section Num	Liner Length	Curated Length	Top Depth	Bottom Depth	Section Remarks
34-X	31/08/2004 18:50:00	396.25	401.2	4.95	3.89	78.59						
void between sect.1/ 2; w / PDC bit							1	1.26	1.26	396.25	397.51	
							2	1.5	1.5	397.51	399.01	IW@144-150cm; 2cc for Microbiol.
							3	1.02	1.02	399.01	400.03	
							CC	0.11	0.11	400.03	400.14	scrappings fr. bot to Pal; pyrite in separate bag
35-X	31/08/2004 20:35:00	401.2	405.7	4.5	3.59	79.78						
w / Geoset-bit							1	1.5	1.5	401.2	402.7	
							2	1.51	1.51	402.7	404.21	
							3	0.4	0.4	404.21	404.61	
							CC	0.18	0.18	404.61	404.79	15-18cm WR to Pal
36-X	31/08/2004 22:10:00	405.7	410.7	5	0	0.00						
no recovery - w / PDC bit							1	1.5	1.5	405.7	407.2	
37-X	31/08/2004 23:40:00	410.7	415.1	4.40000000	0	0.00						
no recovery APC shoe							1	1.5	1.5	410.7	412.2	
38-X	01/09/2004 01:15:00	415.1	420	4.9	0	0.00						
no recovery: APC shoe							1	1.5	1.5	415.1	416.6	
39-X	01/09/2004 03:15:00	420	424	4	0	0.00						
Small quantity of grey sand recovered in CC all to PAL: APC shoe							1	1.5	1.5	420	421.5	
40-X	01/09/2004 04:50:00	424	424.5	0.5	0	0.00						
short advance only 0.5 m as a hard layer with no penetration was encountered: switched to Surface-set bit for next core run.												
41-X	01/09/2004 08:15:00	424.5	426.6	2.10000000	0.33	15.71						
5 cm WR CC all to PAL							1	0.28	0.28	424.5	424.78	Large sandstone fragment on top of section: approx 11 cm added to the end of the section from the CC.
							CC	0.05	0.05	424.78	424.83	Top of core catcher added to the base of section 1. Remainder 5 cm WR all to PAL
42-X	01/09/2004 10:30:00	426.6	427.9	1.3	1.06	81.54						
CC split and working half to PAL: may be drill cuttings							1	0.83	0.83	426.6	427.43	slurry at bot.
							CC	0.23	0.23	427.43	427.66	CC split and w-half to PAL: may be drill cuttings/ add. 7cm in 2nd cc from blocked drill recovered 1 day later



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DIS: Data-Report

CORE / SECTION SUMMARY

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Expedition: 302 **Site:** 4 **Hole:** B TOTAL CORE RECOVERY: 45.07 %

Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered (m)	Core Recovered (%)	Section Num	Liner Length	Curated Length	Top Depth	Bottom Depth	Section Remarks
1-X	02/09/2004 22:30:00	10	15	5	2.31	46.20						
							1	1.44	1.44	10	11.44	139-144 cm WR taken for IW: 127-136 Rhizone samplers
							2	0.85	0.85	11.44	12.29	
							CC	0.02	0.02	12.29	12.31	all to Pal
2-W	03/09/2004 20:00:00	212	215	3	1	33.33						
small (2cm diameter) frozen string - never seen before !!!							1	1	1	212	213	small string, parts taken for IW, rest placed in split liner
3-X	03/09/2004 23:50:00	215	218	3	4	133.33						
							1	1.51	1.51	215	216.51	
							2	1.51	1.51	216.51	218.02	
							3	0.73	0.73	218.02	218.75	2cc Mircobio @ bot.
							CC	0.25	0.25	218.75	219	
4-X	03/09/2004 23:50:00	218	221	3	0	0.00						



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CORE / SECTION SUMMARY

Page 1

Expedition: 302 **Site:** 4 **Hole:** C TOTAL CORE RECOVERY: 60.90 %

Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered (m)	Core Recovered (%)	Section Num	Liner Length	Curated Length	Top Depth	Bottom Depth	Section Remarks
1-H	04/09/2004 15:10:00	0	4	4	3.91	97.75						
mudline recovered							1	1.51	1.51	0	1.51	Rhizones @ 10,30,80,135cm
							2	1.51	1.51	1.51	3.02	Rhizones @ 40,100cm
							3	0.7	0.7	3.02	3.72	Rhizone @ 39cm
							CC	0.19	0.19	3.72	3.91	14-19cm WR to Pal
2-H	04/09/2004 20:20:00	4	8.95	4.95	4.95	100.00						
							1	1.5	1.5	4	5.5	Rhizones @ 40,43,120,123cm
							2	1.51	1.51	5.5	7.01	Rhizones @ 40,43,130,134cm
							3	1.5	1.5	7.01	8.51	Rhizones @ 04,43,130,134cm
							4	0.21	0.21	8.51	8.72	
							CC	0.23	0.23	8.72	8.95	18-23cm WR to Pal
3-H	04/09/2004 23:20:00	8.95	13.97	5.02	5.02	100.00						
Adara							1	1.51	1.51	8.95	10.46	Rhizones at 39, 43, 119, 124
							2	1.51	1.51	10.46	11.97	Rhizones at 38, 43, 120, 125
							3	1.5	1.5	11.97	13.47	Rhizones at 38, 43, 119, 124
							4	0.19	0.19	13.47	13.66	
							CC	0.31	0.31	13.66	13.97	26-31cm WR to Pal
4-H	05/09/2004 05:45:40	13.97	18.57	4.6	4.6	100.00						
Core barrel got bent and took approx 6 hours to recover the barrel							1	1.5	1.5	13.97	15.47	Rhizones at: 120, 123
							2	1.51	1.51	15.47	16.98	Torvane test in the top of the core. Rhizones at: 38, 42, 120, 123
							3	1.35	1.35	16.97	18.32	Rhizones at: 20, 23, 108, 111
							CC	0.24	0.24	18.32	18.56	19-24cm WR all to PAL
5-X	05/09/2004 07:15:00	18.57	26.43	7.86	0.75	9.54						
XCB barrel with APC cutting shoe.							1	0.75	0.75	18.57	19.32	

Expedition: 302 **Site:** 4 **Hole:** C TOTAL CORE RECOVERY: 60.90 %

Core	On-Deck	Core Top Depth (m)	Core Bottom Depth (m)	Length Cored (m)	Length Recovered (m)	Core Recovered (%)	Section Num	Liner Length	Curated Length	Top Depth	Bottom Depth	Section Remarks
6-X	05/09/2004 09:15:00	23.57	27.83	4.26	1.72	40.38						
XCB barrel with Adara temp tool cutting shoe. Pushed into the sediment section. No liner in barrel core extruded from core barrel and put into split liners. 5 cm WR to PAL							1	1.03	1.03	23.57	24.6	XCB barrel with Adara temp tool cutting shoe. Pushed into the sediment section. No liner in barrel core extruded from core barrel and put into split liners.
							2	0.69	0.69	24.6	25.29	
												XCB barrel with Adara temp tool cutting shoe. Pushed into the sediment section. No liner in barrel core extruded from core barrel and put into split liners. 64-69 cm WR all to PAL
7-X	05/09/2004 10:30:00	26.43	31.43	5	0	0.00						
No recovery												
8-X	05/09/2004 11:50:00	31.43	34.43	3	2.42	80.67						
XCB with APC shoe							1	1.51	1.51	31.43	32.94	144-151cm: IW; 139-144cm: 1 HS, 2 Mircobiol. samples
							2	0.81	0.81	32.94	33.75	
							CC	0.1	0.1	33.75	33.85	7-10cm WR all to PAL
9-X	05/09/2004 14:00:00	34.43	37.33	2.9	1.96	67.59						
XCB barrel with Adara temp tool cutting shoe (drill depth 35.93mbsf + 1.4m Adara shoe)							1	1.5	1.5	34.43	35.93	145-150cm: IW; 140-145cm: 1 HS, 2 Mircobiol. samples
							2	0.43	0.43	35.93	36.36	
							CC	0.3	0.3	36.36	36.66	25-30cm WR to Pal