



Arctic Coring Expedition (ACEX)



DIS: Data-Report

CORE / SECTION SUMMARY

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Expedition: 302 **Site:** 2 **Hole:** A TOTAL CORE RECOVERY: 73.15 %

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-X	19/08/2004 13:35:00	0	1.5	1.5	1.28	85.33						
							1	1.19	1.19	0	1.19	80-90: 4 rhizones
							CC	0.09	0.09	1.19	1.28	All to PAL
2-X	19/08/2004 15:30:00	1.5	6.5	5	1.08	21.60	1	1.08	1.08	1.5	2.58	86-96: 4 rhizones
3-X	19/08/2004 17:45:00	6.5	11.5	5	5.26	105.20	1	1.5	1.5	6.5	8	124-133: 4 rhizones; 134-140: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC; 145-150: IW
							2	1.5	1.5	8	9.5	
							3	1.5	1.5	9.5	11	
							4	0.65	0.65	11	11.65	
							CC	0.11	0.11	11.65	11.76	All to PAL
4-X	19/08/2004 20:30:00	11.5	16.5	5	5.29	105.80	1	1.5	1.5	11.5	13	
							2	1.5	1.5	13	14.5	
							3	1.5	1.5	14.5	16	
							4	0.67	0.67	16	16.67	
							CC	0.12	0.12	16.67	16.79	All to PAL
5-X	19/08/2004 21:35:00	16.5	21.5	5	2.46	49.20	1	1.51	1.51	16.5	18.01	149-151: PP 4cc
							2	0.95	0.95	18.01	18.96	
6-X	19/08/2004 22:35:00	21.5	26.5	5	5.2	104.00	1	1.37	1.37	21.5	22.87	50-60: 4 rhiz.; 139-145: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC; 145-150: IW
							2	1.5	1.5	22.87	24.37	
							3	1.5	1.5	24.37	25.87	
							4	0.66	0.66	25.87	26.53	
							CC	0.17	0.17	26.53	26.7	All to PAL

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7-X	20/08/2004 00:01:00	26.5	31	4.5	4.09	90.89						
							1	1.5	1.5	26.5	28	
							2	1.5	1.5	28	29.5	??-?: 4 rhizones
							3	0.93	0.93	29.5	30.43	
							CC	0.16	0.16	30.43	30.59	All WR to Pal, 4cc PP
8-X	20/08/2004 01:40:00	31	36	5	3.53	70.60						
							1	1.5	1.5	31	32.5	
							2	1.1	1.1	32.5	33.6	
							3	0.93	0.93	33.6	34.53	
9-X	20/08/2004 03:03:00	36	41	5	4.35	87.00						
							1	1.51	1.51	36	37.51	
							2	1.5	1.49	37.5	38.99	
							3	0.41	0.41	39	39.41	
							4	0.47	0.47	39.41	40.88	
							5	0.47	0.47	40.99	41.46	???? CC ?????
10-X	20/08/2004 04:30:00	41	46	5	3.96	79.20						
							1	1.5	1.5	41	42.5	
							2	1.5	1.5	42.5	44	72-83: 4 rhiz.; 138-144: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC, 4cc PP; 144-150: IW
							3	0.74	0.74	44	44.74	
							CC	0.22	0.22	44.74	44.96	All to Pal sample was contaminated with wood as the core barrel was lowered it slid across the wooden deck.
11-X	20/08/2004 05:30:00	46	50	4	4.44	111.00						
							1	1.49	1.49	46	47.49	
							2	1.51	1.51	47.49	49	
							3	1.44	1.44	49	50.44	
12-X	20/08/2004 06:45:00	50	55	5	3.29	65.80						
							1	1.52	1.52	50	51.52	
							2	1	1	51.52	52.52	86-92: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC, 4cc PP; 92-100: IW
							3	0.7	0.7	52.52	53.22	
							CC	0.07	0.07	53.22	53.29	All to Pal

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13-X	20/08/2004 08:00:00	55	60	5	1.41	28.20							
							1	1.51	1.51	55	56.51	All to Pal - 0.08 to PAL (bottom part only?)	
							CC	0.18	0.18	56.5	56.68		
14-X	20/08/2004 09:00:00	60	65	5	3.39	67.80							
							1	1.51	1.51	60	61.51		
							2	1	1	61.51	62.51		
							3	0.75	0.75	62.51	63.26		
							CC	0.14	0.14	63.26	63.4	Half to Pal	
15-X	20/08/2004 11:15:00	65	69	4	4.2	105.00							
Not in liner - stuck in core barrel and was pushed into liner							1	1.51	1.51	65	66.51		
							2	1.49	1.49	66.51	68		
							3	1.21	1.21	68	69.21		
16-X	20/08/2004 12:00:00	69	74	5	3.53	70.60							
							1	1.5	1.5	69	70.5	138-144: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC, 4cc PP; 144-150: IW	
							2	1.51	1.51	70.5	72.01		
							3	0.33	0.33	72.01	72.34	Lower 9cm WR to PAL	
							CC	0.19	0.19	72.34	72.53		
17-X	20/08/2004 13:30:00	74	78	4	2.1	52.50							
							1	1.51	1.51	74	75.51		
							2	0.39	0.39	75.51	75.9	Lower 5cm WR to Pal	
							CC	0.2	0.2	75.9	76.1		
18-X	20/08/2004 17:00:00	78	81.2	3.2	2.15	67.19							
First core after got stuck							1	1.45	1.45	78	79.45	132-138: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC, 4cc PP; 138-145: IW	
							2	0.55	0.55	79.45	80		
							CC	0.15	0.15	80	80.15	Lower 5cm WR to Pal	
19-X	20/08/2004 19:30:00	81.2	86.2	5	1.06	21.20							
First core after had to pull 5 pipes- ice conditions related							1	1.06	1.06	81.2	82.26	Loose material from top?? to Pal	
20-X	20/08/2004 20:50:00	86.2	91.2	5	4.77	95.40							
							1	1.51	1.51	86.2	87.71		
							2	1.5	1.5	87.71	89.21		
							3	1.51	1.51	89.21	90.72		
							4	0.16	0.16	90.72	90.88		
							CC	0.09	0.09	90.88	90.97	All to Pal	

Expedition: 302Site: 2Hole: A

TOTAL CORE RECOVERY: 73.15 %

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
21-X	20/08/2004 22:10:00	91.2	96.2	5	3.51	70.20						
							1	1.51	1.51	91.2	92.71	137-143: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC, 4cc PP; 143-150: IW
							2	1.51	1.51	92.71	94.22	
							3	0.35	0.35	94.22	94.57	W-half to Pal
							CC	0.14	0.14	94.57	94.71	
22-X	20/08/2004 23:10:00	96.2	101.2	5	0.39	7.80						
							1	0.39	0.39	96.2	96.59	
23-X	21/08/2004 01:00:00	101.2	106.2	5	1.33	26.60						
							1	0.13	0.13	101.2	101.33	Short section stuck in the top of the core barrel - all transferred to Oden for Pal
							2	1.2	1.2	101.33	102.53	
												108-114: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC, 4cc PP; 114-120 IW
24-X	21/08/2004 02:15:00	106.2	110.2	4	4.71	117.75						
Following recovery coring paused, tripped pipe to 30mbsf waited for ice conditions to improve. 06.30 tripping pipe back to TD							1	1.49	1.49	106.2	107.69	138-144: 10cc DNA, 10cc BIOM, 5cc CULT, 1cc AODC, 4cc PP; 144-151 IW
							2	1.51	1.51	107.69	109.2	
							3	1.48	1.48	109.2	110.68	0-11cm W to Pal
							CC	0.23	0.23	110.68	110.91	
25-X	21/08/2004 11:00:00	110.2	115.2	5	3.92	78.40						
Top of section 1 (15 cm) stuck in the top of the core barrel and was pushed back into the liner							1	1.51	1.51	110.2	111.71	Top of section (15 cm) was initially stuck in the top of the core barrel. This was retrieved and pushed back into the liner.
							2	1.51	1.51	111.71	113.22	
							3	0.9	0.9	113.22	114.12	
26-X	21/08/2004 12:40:00	115.2	120.2	5	2.14	42.80						
							1	1.5	1.5	115.2	116.7	
							2	0.64	0.64	116.7	117.34	
27-X	21/08/2004 14:00:00	120.2	125.2	5	3.68	73.60						
							1	1.5	1.5	120.2	121.7	140-144: 5cc DNA, 5cc BIOM, 3cc CULT, 1cc AODC; 144-150: IW
							2	1.51	1.51	121.7	123.21	
							3	0.59	0.59	123.21	123.8	All to Pal
							CC	0.08	0.08	123.8	123.88	

Expedition: 302Site: 2Hole: A

TOTAL CORE RECOVERY: 73.15 %

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
28-X	21/08/2004 15:15:00	125.2	128.2	3	2.34	78.00						
XCB with drillshoe							1	1.5	1.5	125.2	126.7	
							2	0.74	0.74	126.7	127.44	
							CC	0.1	0.1	127.44	127.54	
29-X	21/08/2004 16:40:00	128.2	133.2	5	3.97	79.40						
							1	1.5	1.5	128.2	129.7	
							2	1.5	1.5	129.7	131.2	
							3	0.83	0.83	131.2	132.03	
							CC	0.14	0.14	132.03	132.17	W-half to Pal
30-X	21/08/2004 17:40:00	133.2	134.7	1.5	2.79	186.00						
Advance of 1.5m to 134.7 is right;							1	1.51	1.51	133.2	134.71	139-144: 10cc DNA, 10cc BIOM,3cc CULT, 1cc AODC; 144-150: IW
							2	1.5	1.5	134.71	136.21	
							3	0.78	0.78	136.21	136.99	
31-X	21/08/2004 19:40:00	134.7	139.7	5	1.5	30.00						
Jammed top valve: sect. 2 only cuttings - sect. 1 and "cc" ok							1	0.95	0.95	134.7	135.65	Replaced from original liner
							2	0.4	0.4	135.65	136.05	Cuttings - replaced from original liner
							CC	0.15	0.15	136.05	136.2	
32-X	21/08/2004 20:45:00	139.7	144.2	4.5	5.32	118.22						
							1	1.5	1.5	139.7	141.2	
							2	1.51	1.51	141.2	142.71	
							3	1.51	1.51	142.71	144.22	
							4	0.65	0.65	144.22	144.87	
							CC	0.15	0.15	144.87	145.02	
33-X	21/08/2004 21:50:00	144.2	149	4.80000000	3.87	80.62						
							1	1.51	1.51	144.2	145.71	139-144: 10cc DNA, 10cc BIOM,3cc CULT, 1cc AODC; 144-150: IW
							2	1.52	1.52	145.71	147.23	
							3	64	0.64	147.23	147.87	
							CC	0.2	0.2	147.87	148.07	5cm WR to Pal
34-X	21/08/2004 22:50:00	149	154	5	3.05	61.00						
							1	1.5	1.5	149	150.5	
							2	1.37	1.37	150.5	151.87	
							CC	0.18	0.18	151.87	152.05	

Expedition: 302 **Site:** 2 **Hole:** A TOTAL CORE RECOVERY: 73.15 %

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35-X	21/08/2004 23:55:00	154	159	5	5.48	109.60						
Extended top in sect. 1; top 8cm to Pal							1	0.27	0.27	154	154.27	Extended section in core top - top 8 cm all to Pal blue cap used on section 1 top
							2	1.49	1.49	154.27	155.76	
							3	1.51	1.51	155.76	157.27	
							4	1.52	1.52	157.27	158.79	
							5	0.69	0.69	158.79	159.48	
36-X	22/08/2004 01:10:00	159	163.5	4.5	0.21	4.67						
Empty liner, only a core catcher sample.							CC	0.21	0.21	159	159.21	Bottom 5 cm whole round of core catcher sample all to Pal
37-X	22/08/2004 02:10:00	163.5	166.5	3	3.42	114.00						
							1	1.51	1.51	163.5	165.01	138.5-143.5: 10cc DNA, 10cc BIOM,3cc CULT, 1cc AODC; 143.5-150.5: IW
							2	1.51	1.51	165.01	166.52	
							3	0.41	0.41	166.52	166.93	
38-X	22/08/2004 03:15:00	166.5	170.68	4.18000000	5.31	127.03						
Extended top on the core barrel, added to top of section 1.							1	0.39	0.39	166.5	166.89	Extended section in core top removed and added to the top of section 1.
							2	1.19	1.19	166.89	168.08	
							3	1.51	1.51	168.08	169.59	
							4	1.52	1.52	169.59	171.11	
							5	0.59	0.59	171.11	171.7	
							CC	0.11	0.11	171.7	171.81	5cm WR from bottom to Pal
39-X	22/08/2004 05:00:00	170.68	173.08	2.40000000	1.03	42.92						
							1	0.8	0.8	170.68	171.48	5 cm whole round from the end of the section all to Pal.
							CC	0.23	0.23	171.48	171.71	
40-X	22/08/2004 06:30:00	173.08	178.08	5	5.28	105.60						
							1	1.5	1.5	173.08	174.58	139-144: 10cc DNA, 10cc BIOM,3cc CULT, 1cc AODC; 144-151: IW
							2	1.51	1.51	174.58	176.09	
							3	1.5	1.5	176.09	177.59	
							4	0.65	0.65	177.59	178.24	
							CC	0.12	0.12	178.24	178.36	

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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
41-X	22/08/2004 07:40:00	178.08	182.49	4.41	0.17	3.85						
Scrapings retrieved from the top of the core barrel all given to Pal.							1	0.17	0.17	178.58	178.75	Scrapings retrieved from the top of the core barrel all given to Pal.
42-X	22/08/2004 08:45:00	182.49	187.49	5	4.92	98.40						
5 cm whole round from end of CC to Pal							1	1.5	1.5	182.49	183.99	
							2	1.5	1.5	183.99	185.49	
							3	1.51	1.51	185.49	187	
							4	0.25	0.25	187	187.25	
							CC	0.16	0.16	187.25	187.41	5 cm whole round taken from the end of the core catcher and all given to Pal
43-X	22/08/2004 10:00:00	187.49	191.99	4.5	4.53	100.67						
							1	1.49	1.49	187.49	188.98	
							2	1.51	1.51	188.98	190.49	
							3	1.53	1.53	190.49	192.02	
44-X	22/08/2004 11:10:00	191.99	195.93	3.94	3.94	100.00						
Drilled length originally documented as 5m but in view of the large length recovered on the next run, this has been reduced to 3.94 in order to make some sense of the apparent excessive recovery listed in the next run							1	1.5	1.5	191.99	193.49	
							2	1.51	1.51	193.49	195	139-144: 10cc DNA, 10cc BIOM, 3cc CULT, 1cc AODC; 146-151: IW
							3	0.73	0.73	195	195.73	
							4	0.2	0.2	195.73	195.93	5 cm whole round taken from the end of the core catcher. All for Pal
45-X	22/08/2004 12:40:00	195.93	197	1.07	1.49	139.25						
No drilling advance - material from previous core according to drillers log. However, to make sense of the recovery the start depth has been adjusted upwards to match the end of the last core							1	1.31	1.31	195.93	197.24	
							CC	0.18	0.18	197.24	197.42	5cm WR to Pal
46-X	22/08/2004 14:00:00	197	202	5	3.63	72.60						
PDC-bit							1	1.5	1.5	197	198.5	
							2	1.5	1.5	198.5	200	2 HS at 150cm
							3	0.54	0.54	200	200.54	
							CC	0.09	0.09	200.54	200.63	5cm WR to Pal

Expedition: 302Site: 2Hole: A

TOTAL CORE RECOVERY: 73.15 %

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47-X	22/08/2004 15:15:00	202	205.5	3.5	5.49	156.86						
GEOSET bit							1	0.26	0.26	202	202.26	Replaced from top of core barrel (above liner)
							2	1.5	1.5	202.26	203.76	
							3	1.51	1.51	203.76	205.27	
							4	1.52	1.52	205.27	206.79	
							5	0.51	0.51	206.79	207.3	
							CC	0.19	0.19	207.3	207.49	5cm WR from bottom to Pal
48-X	22/08/2004 16:30:00	205.5	210	4.5	5.2	115.56						
PDC-bit							1	1.5	1.5	205.5	207	
							2	1.51	1.51	207	208.51	139-151cm IW
							3	1.51	1.51	208.51	210.02	
							4	0.56	0.56	210.02	210.58	
							CC	0.12	0.12	210.58	210.7	5 cm WR to Pal
49-X	22/08/2004 17:45:00	210	215	5	5.5	110.00						
GEOSET-bit (alternating with PDC-bit down to 62X)							1	0.15	0.15	210	210.15	Replaced from top of core barrel (above liner)
							2	1.5	1.5	210.15	211.65	
							3	1.51	1.51	211.65	213.16	2 HS at 150cm
							4	1.51	1.51	213.16	214.67	
							5	0.67	0.67	214.67	215.34	
							CC	0.16	0.16	215.34	215.5	5cm WR from bottom to Pal
50-X	22/08/2004 19:10:00	215	218.74	3.74000000	2.24	59.89						
							1	1.51	1.51	215	216.51	
							2	0.63	0.63	216.51	217.14	
							CC	0.1	0.1	217.14	217.24	10cm W-half to Pal
51-X	22/08/2004 20:10:00	218.74	220.94	2.2	2.68	121.82						
Disturbed core							1	1.51	1.51	218.74	220.25	Disturbed
							2	1.17	1.17	220.25	221.42	Disturbed
52-X	22/08/2004 21:20:00	220.94	225	4.06	1.95	48.03						
							1	1.51	1.51	220.94	222.45	140-151cm IW
							2	0.26	0.26	222.45	222.71	
							CC	0.18	0.18	222.71	222.89	Scrapings from bottom cc to Pal

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53-X	22/08/2004 22:25:00	225	230	5	5.29	105.80						
							1	1.52	1.52	225	226.52	
							2	1.5	1.5	226.52	228.02	
							3	1.51	1.51	228.02	229.53	2 HS at 151cm
							4	0.61	0.61	229.53	230.14	
							CC	0.15	0.15	230.14	230.29	Scrapings from top to Pal
54-X	22/08/2004 23:30:00	230	235	5	0.51	10.20						
							1	0.44	0.44	230	230.44	
							CC	0.07	0.07	230.44	230.51	5cm WR to Pal
55-X	23/08/2004 00:40:00	235	239.6	4.6	5.4	117.39						
							1	0.1	0.1	235	235.1	
							2	1.51	1.51	235.1	236.61	
							3	1.51	1.51	236.61	238.12	
							4	1.51	1.51	238.12	239.63	
							5	0.68	0.68	239.63	240.31	
							CC	0.1	0.1	240.31	240.41	5cm WR from bottom to Pal
56-X	23/08/2004 01:45:00	239.6	244.6	5	3.64	72.80						
Liner got stuck in core barrel and section 1 had to be placed into a split liner							1	0.63	0.63	239.6	240.23	
							2	1.51	1.51	240.23	241.74	145-151: 10cc DNA, 10cc BIOM,3cc CULT, 1cc AODC
							3	1.2	1.2	241.74	242.94	
							CC	0.3	0.3	242.94	243.24	5cm whole round taken from the bottom all to Pal
57-X	23/08/2004 03:15:00	244.6	249.6	5	5.57	111.40						
							1	0.13	0.13	244.6	244.73	
							2	1.5	1.5	244.73	246.23	
							3	1.51	1.51	246.23	247.74	
							4	1.52	1.52	247.74	249.26	
							5	0.68	0.68	249.26	249.94	Tooth pick sample of possible organic matter
							CC	0.17	0.17	249.94	250.11	5cm WR from bottom to Pal

Expedition: 302Site: 2Hole: A

TOTAL CORE RECOVERY: 73.15 %

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
58-X	23/08/2004 05:00:00	249.6	254.6	5	5.22	104.40						
Began to pull out of hole as soon as core recovered due to bad ice condntions							1	1.5	1.5	249.6	251.1	
							2	1.51	1.51	251.1	252.61	
							3	1.51	1.51	252.61	254.12	
							4	0.59	0.59	254.12	254.71	
							CC	0.11	0.11	254.71	254.82	5cm whole round taken from the bottom of CC all to Pal
59-X	23/08/2004 16:50:00	254.6	257.6	3.00000000	4.47	149.00						
Top of sect. 1 disturbed							1	1.5	1.5	254.6	256.1	Top of section disturbed
							2	1.51	1.51	256.1	257.61	
							3	1.37	1.37	257.61	258.98	
							CC	0.09	0.09	258.98	259.07	5cm WR to Pal
60-X	23/08/2004 18:30:00	257.6	262.6	5	4.55	91.00						
Shattered liner at top, liner partly broken (taped), sect.4 and cc replaced							1	1.51	1.51	257.6	259.11	140-150cm IW
							2	1.51	1.51	259.11	260.62	
							3	1.4	1.04	260.62	261.66	shattered liner
							4	0.24	0.24	261.66	261.9	Replaced in liner
							CC	0.25	0.25	261.9	262.15	replaced in liner
61-X	23/08/2004 19:40:00	262.6	267.6	5	2.58	51.60						
							1	1.51	1.51	262.6	264.11	
							2	1.18	1.18	264.11	265.29	2 HS at 0cm
							CC	0.16	0.16	265.29	265.45	5cm WR to Pal
62-X	23/08/2004 20:50:00	267.6	270.1	2.5	4.09	163.60						
							1	1.51	1.51	267.6	269.11	
							2	1.5	1.5	269.11	270.61	
							3	0.98	0.98	270.61	271.59	
							CC	0.1	0.1	271.59	271.69	Working-half to Pal