

Expedition 374 Ross Sea: 1523 Site: E Hole: 114 Core: 4-6 Sections: 0 Top Depth:

Major Lithology: Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by:	Date:
			C	St	Sd	G							AES	2/3
4	0	↑	↑						↑		interlam. Interbedded Sands + muds w mud clasts + limestones. Bioturb.			
	20													
	40													
	60													
	80													
	100													
	120													
	140													
	160													
	180													
	200													
	220													
	240													
	260													
5	0	↑	↑	x	Gls	2.54	▲▲▲	▲▲▲	↑		mud clast-rich interval 0-5 Sharp contact w/ disturbance below into sandier interval 6-8 cm Forum Limestone 38, 46, 56 Coarse Sand Lense			
	20													
	40													
	60													
	80													
	100													
	120													
	140													
	160													
	180													
	200													
	220													
	240													
	260													
6	0	↑	↑			2.54	▲▲▲	▲▲▲	↑		interbedded Sands + muds w Mud clasts + bioturb			
	20													
	40													
	60													
	80													
	100													
	120													
	140													
	160													
	180													
	200													
	220													
	240													
	260													

153

151

Expedition 374 Ross Sea:

Site: _____ Hole: _____ Core: 7F Sections: 1-CC Top Depth: 0

Major Lithology: _____ Minor Lithology: _____

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>AES</u>	Date: <u>2/3</u>
			C	St	Sd	G								
1	0	↑ ↓				Gly / 5/6/04			↑ 3 ↓		Disturbed mud w/ disp. clasts			
	20													
	40													PAL TD 34
	60													40
	80													
	100													
	140													
R	0									7 cm	Sandy mud			
	20													
	40													
	60													
	80													
	100													
	140													
	0													
	20													
	40													
	60													
	80													
	100													
	140													

Expedition 374 Ross Sea: VIS23 E 12F 4-CC 6
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
			C	St	Sd	G							
4	0	↑ ↓							⑤	↑ 2 ↓		9956 74	
	20												
	40												
	60												
	80												
	100												
	140												
	0	↑ ↓								PAL	13 75		
	20												
	40												
	60												
	80												
	100												
	140												
	0												
	20												
	40												
	60												
	80												
	100												
	140												

Expedition 374 Ross Sea:

01523

E

ISF

1-CC

0

Site:

Hole:

Core:

Sections:

Top Depth:

Major Lithology:

Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 2/3
			C	St	Sd	G								
1	0													
	20					5/2								
	40													
	60													
	140					5/2								
	0													
	20													
	40					5/4								
	60					5/50Y								
	140					5/2								
	0													
	20													
	40													
	60					5/2								
	140					5/2								

biotubated
 Interbedded mud + sand
~~with~~ common clay glauconite
 + pink stained/lined burrows
 Bioturbation
 Pink stained lam throughout
 Limestones throughout
 Mudclast @ 11 cm
 D-Rich
 minor - D-Rich

Diatom ooze
 - ~~with~~ ~~and~~ ~~in~~ ~~abundant~~
 D-rich
 Shell hash: 9-16
 Glauconite: 43/61
 Limestones: 2-3, 11, 30-34, 60-62
 68-70, 91-94, 91
 Pink burrows

Limestones: 3, 13, 19, 84-86, 96, 100
 Lam: 40-80
 Glauconite: 5-21, 36-38, 86-103
 Shell hash: 112-133
 134

Expedition 374 Ross Sea: U1523 E 16F 1-CC
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by:	Date:
			C	St	Sd	G							AES	2/3
1	0-140	↑ ↓						G ● ▲▲▲	↑ ↓		olive gray interbedded sands + mud with common clasts + mud clast throughout		D-0	
	150													
2	0-140	↑ ↓						▲▲▲ ● ①④	↑ ↓		protuberated diatom-rich muds w/ pink staining + mud clasts throughout		D-0	
	145													
	150													
3	0-140	↑ ↓												
CC	140													

18
23 PAL

Expedition 374 Ross Sea: V1523 Site: E Hole: 18F Core: 1 Sections: 0 Top Depth:

Major Lithology: Diatom-rich Mud Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
			C	St	Sd	G							
	0	↑							↑		massive pale green mud with dispersed clasts <u>Diatom-rich</u> color mottling & sand stringers Longosteres: 7.5, 26, 27, 33, 39.5, 44, 50, 62, 66.5		
	20					level 4/1/56			2	(33)			
	40	↓				purple			↓				
	60												
	80												
	100												
	120												
	140												
	0												
	20												
	40												
	60												
	80												
	100												
	120												
	140												

p-beang mud.

70

Expedition 374 Ross Sea:

U1523

E

20F

1-3

0

Site:

Hole:

Core:

Sections:

Top Depth:

Major Lithology:

Minor Lithology:

104, 112, 114, 115, 23, 5, 33, 49, 50, 53, 73, 78

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: 11-113 122-127
			C	St	Sd	G							
1	0	M	[Lithology sketch]			M/S 10/15	24 40 60			DB SC	0-24: heavily disturbed mud with dispersed clasts (soapy) (gray)	MOP	
	20										24-40: mud with dispersed clasts with mottling		
	40										40-44: Sand (fine un. sum)		
	60										44-46: mud		
	80										46-53: sand (reverse grading)		
	100										53-103: mud, mottling, intermittent of sand, mud; color (6ley 5/2/56)		
	120										greenish green - 104R 4/1: Dark gray with dispersed clasts		
	140										103-129: green becomes dominant. Sandy dispersed clasts		
											129-146: same as 53-103		
2	0	[Lithology sketch]	[Lithology sketch]			22 33 45	22 33 45			DR SC	0-22: interbedded green, brownish gray mud and sand lamina, dispersed clasts, mottled	146	
	20										22-33: sandy mud (greenish gray)		
	40										33-74: sandy mud (greyish green) packagelamina and stringers of sand		
	60										75-81: sandy bed		
	80										81-85: clast cluster		
	100										interlaminated sand and to interbedded sand and mud		
	120										85-105: inclined contacts, sandy mud with stringers, greyish brown with color mottling at base. Bioturbation lamina of green		
	140												
3	0	[Lithology sketch]	[Lithology sketch]			77	77			DR SC	114, 115-120: sand thin bed slightly	146	
	20										120-123: sand bed with inclined clasts, sharp boundaries		
	40										105-123: interlaminated greenish and brownish gray sandy mud with dispersed clasts and sand stringers.		
	60												
	80												
	100												
	120												
	140												

Claystone argillite tubular

Core stones: 9, 25, 43, 76, 77, 81-85, 150, 156

Expedition 374 Ross Sea:

1523

E

20F 4.CC

0

Site:

Hole:

Core:

Sections:

Top Depth:

Major Lithology: Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
			C	St	Sd	G							
CC 4	0	4/6										<p>Interlaminated to Interbedded Sandy mud and color with dispersed spherules</p>	
	20												
	40												
	60												
	80												
	100												
	120												
	140												
	160												
	180												
	200												
	220												
	240												
	260												
CC	0	4/6										<p>0-15: Same as above with sandy interval at top</p> <p>all D-beaking, sect to CC.</p> <p>* sand beds are diamictite => interbedded mud and diamictite.</p>	
	20												
	40												
	60												
	80												
	100												
	120												
	140												
	160												
	180												
	200												
	220												
	240												
	260												

Expedition 374 Ross Sea: V1528 E ZIF 1-3 0

Interbedded to Site: Hole: Core: Sections: Top Depth:

Major Lithology: interlaminated mud Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:												
			C	St	Sd	G																			
1	0						6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15 6/10/15				dm-scale Interbedded muds greenish green clay Mud with fine sand 0-28: 6/10/15/100Y greenish 28-145: 6/10/15/100Y dark greenish color mottling, faintly laminated, disperse calcite conclones: 10, 41.5, 70, 76, 89, 98, 115, 145														
	20																								
	40																								
	60																								
	80																								
	100																								
	120																								
	140																								
	0																						132, 140.5, 144 Faintly laminated & sand stringers throughout 1-3 sections conclones: 7, 16, 21, 23, 28, 30, 40, 47, 73, 83, 91, 109, 106, 120, 128,		
	20																								
	40																								
	60																								
	80																								
	100																								
120																									
140																									
0										conclones: 7-8, 8, 14-15, 19.5, 20.5, 37, 45, 55															
20																									
40																									
60																									
80																									
100																									
120																									
140																									

greenish
green

146

63

Expedition 374 Ross Sea: V1523 E 23F 1-3 0
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: Interlaminated mud Minor Lithology: With dispersed clasts Interbedded with sand

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:	
			C	St	Sd	G								
1	0										0-16: Mod. disturbance (sapy)			
	20						16				<p><u>Interlaminated mud with dispersed clasts Interbedded with sand</u></p> <p>sand beds & lamina => 16-38, 71.5</p> <p>clast poor district</p> <p>Sand stringers 74.5, 137-145</p> <p>Lorestones: 1-2, 10-12, 14-16, 22-23, 54-55, 86-90, 108-111, 132-134</p> <p>Mottling & Bioturbation 127-129</p>			
	40						38							
	60													
	80													
	100													
	120													
	140							oo						
	0													
	20												Sand bed: 98-104, 69-71, 5-9	
	40												Sand stringer: 51, 116-120,	
	60								oooo				Sand beds have sharp boundaries.	
	80												Lorestones: 6-8, 8.5, 16, 19-20, 46-58, 73-76, 81-83 (cluster)	
	100												97, 104, 110, 131, 135, 142-143.5	
120														
140														
3	0										0-10: dark greyish brown sandy mud			
	20									DR SS				
	40									DR SS	46-59: cluster of Black charcoal like clasts.			
	60													
	80													
	100													
	140											Lorestones: 0-2, 44, 51-56, 62-64, 67		

147

77

Expedition 374 Ross Sea:

V1523

E

23F

4.00

0

Site:

Hole:

Core:

Sections:

Top Depth:

Major Lithology: Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
			C	St	Sd	G							
4	0 20 40 60 80 100 120 140											Sand stringers: 78-84, 14-16 0-2 Same as Section 3	
cc	0 20 40 60 80 100 120 140											Same as above 12-17: PAL All D-bearing scel-cc	
	0 20 40 60 80 100 120 140											Core:	

93

17

Expedition 374 Ross Sea: V1523 Site: E Hole: 25F Core: 1-3 Sections: 0
 Major Lithology: Massive mud with dispersed clasts Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
			C	St	Sd	G							
1	0 20 40 60 80 100 120 140	↑ // ↓	[Lithology diagram: vertical column with horizontal dashes]				grey 4/1/567					Massive mud with dispersed clasts all D-bearing. Lonestones: 4, 76, 83.5, 104, 114, 122	132
2	0 20 40 60 80 100 120 140	↑ // +	[Lithology diagram: vertical column with horizontal dashes]									Same as above Lonestones: 12, 56-58, 80-82, 126-128, 72	140
3	0 20 40 60 80 100 120 140		[Lithology diagram: vertical column with horizontal dashes]									Same as above sand stringer: 99 Lonestones: 16, 45, 54, 75,	145

Expedition 374 Ross Sea: V1523 Site: E Hole: 25F Core: CC Sections: 0 Top Depth:

Major Lithology: Massive mud with dispersed clasts Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:	
			C	St	Sd	G								
CC	0	↑ //					blen 1						Massive mud Faint color mottling @ 15 Lono done: 15	
	20													
	40													
	60													
	80													
	100													
	120													
140														
	0													
	20													
	40													
	60													
	80													
	100													
	120													
	140													

27