

Expedition 374 Ross Sea: U1523 Site: B Hole: SF Core: 1A-3A Sections: 0 Top Depth:

Major Lithology: Massive mud Minor Lithology: Mud w/ some sand

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>JPC</u>	Date: <u>31/1</u>			
			C	St	Sd	G											
1	0										Dark greenish gray mud with some fine and dispersed clasts 0-11 cm, 13-43 cm Mud with dispersed clasts: 11-13 cm, 43-151 cm massive with some color mottling Lowstone: 10, 99,						
	20																
	40																
	60																
	80																
	100																
	120																
	140																
	2	0													Massive dark greenish gray mud with dispersed clasts (mud clasts). Mud clast: 78, 123, 40, 26, 121 Lowstone:		
		20															
		40															
		60															
		80															
		100															
120																	
140																	
3		0										Massive dark greenish gray mud with 0-25 cm color mottling 66-74 cm interlaminated dark gray - black laminae w/ py Mudstones: 16, 17, 103, 66, 67 <i>Bioturb w/ py Starchy</i>					
		20															
		40															
		60															
		80															
		100															
	120																
	140																

Expedition 374 Ross Sea: U1523 B SF CC
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: Same as above 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													
	20	PAL									Same as above	PC	31/11	
	40													
	60													
	80													
	100													
	120													
	140													
	0													
	20													
	40													
	60													
	80													
	100													
	120													
	140													
	0													
	20													
	40													
	60													
	80													
	100													
	120													
	140													

9
14.5

Expedition 374 Ross Sea:

U1523

B

8F

1-3

0

Site:

Hole:

Core:

Sections:

Top Depth:

Major Lithology:

Pinnac
Beary mud with
dispersed
clasts

Minor Lithology:

diamic?!

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										<p>(0-23) Soupy Sandy mud (some as below!) (23-73) Diatom-bearing Massive mud with dispersed clasts clay 1 5/10y (greenish grey) sand. (73-150) Massive mud with dispersed clasts clay 1 4/10y (Dark greenish grey) With Sand Stringers throughout Lonestones: 30-32, 47, 58, 72-73, 75-77, 77-81, 85, 106-108, 118, 124, 127-129, 132, 135, 139</p>	<p>MOR</p>	<p>Date:</p>
	20												
	40												
2	0										<p>Same as above between (73-150) carbonate matrix Fizzes (84-150) Flowin → heavily Shell Fragment: 137, 147.5 Fe-clusters: 21, 46, 94, 100 Lonestones: 5, 21, 27-28, 45, 52, 67, 69-74, 84, 98, 102, 109, 113, 123-127, 137, 140</p>	<p>DKM</p>	<p>Date:</p>
	20												
	40												
3	0										<p>(0-47) massive mud with dispersed clasts - diamic? 47: color mixing (clay 1 4/56.7) sand stringers throughout (0-47) same as above below 47 color change and flowin. Lonestone: 13, 24-26, 32-36, 38, 45, 60-61, 71-73, 78, 107-109</p>	<p>48 55 DKM</p>	<p>Date:</p>
	20												
	40												

Flowin

below!

150

150

121

Expedition 374 Ross Sea: V1523 B BF CC 0
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: Prism bearing MUD with dispersed clay Minor Lithology: _____

Flow in

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							
<div style="position: absolute; left: -100px; top: 50px; transform: rotate(-90deg);"> Flow in CA </div>	0	↑					↓	↓				Same as section 3 with flow in	MJP
	20	↑											
	40						Sand streaks Dispersed clasts Shell fragments Lenses: 16, 11, 10						
	60												
	80												
	100												
	120												
	140												
	0												
	20												
	40												
	60												
	80												
	100												
120													
140													

30

Expedition 374 Ross Sea: VUS23 Site: B Hole: 9F Core: 1-CC Sections: 0
 Major Lithology: Diatom-rich to Beavy Minor Lithology: mud with dispersed clast
 Top Depth:

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							MOP	
1	0	↓ NW 00	-	-	-	-	-	-	-	-	-	-	-	
	20													
1	40	* +	-	-	-	-	-	-	-	-	-	-	-	
	60													
1	80	+	-	-	-	-	-	-	-	-	-	-	-	
	100													
1	120	-	-	-	-	-	-	-	-	-	-	-	-	
	140													
CC	0	↑ W	-	-	-	-	-	-	-	-	-	-	-	
	20													
CC	40	-	-	-	-	-	-	-	-	-	-	-	-	
	60													
CC	80	-	-	-	-	-	-	-	-	-	-	-	-	
	100													
CC	120	-	-	-	-	-	-	-	-	-	-	-	-	
	140													

(0-8)ropy → Diatom-rich
 (8-11) Flow in
 (84) color change
 massive mud with dispersed clast
 (8-56) faintly mottled in color
 Diatom-beavy rich
 Core samples: 14, 18, 21, 25, 44.5, 50, 59, 65, 65.5, 68, 80, 88, 91

(0-6) same as Section I
 (6-12) sand & gravel

111

Expedition 374 Ross Sea: V1523 B 10F 1-3 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							
1	0	W									0-18) soupy - ^{sandy} mud (dark greenish gray)	141	
	20					19S/5				DRM	(18-22.5) - mud with sand stringers, mud clast (21.5)		
2	40					1/4 - 1/5				S2	(22.5-77) laminated (Diatom-beary Diatom rich) with dispersed clast, color mottling (44-52)	136	
	60					1/4 - 1/5				DRM	(77-100) massive mud dispersed clast		
3	80					1/4					(100-132) massive mud with color mottling (bley 10y 5.4-4/1) => Bioturbated mud clasts (dispersed clasts)	96	
	100					1/4					(0-7) void Diatom Rich		
1	120					1/4					(7-14) massive mud w/ color mottling same as above	117	
	140					1/4					(14-58) sand stringers (fine sand) with dispersed clasts		
2	0	W	VOID								(58-76) 65-72: clast cluster	117	
	20					1/4					(77-136) massive mud with dispersed clasts (color mottling)		
3	40					1/4					58-64: fine sand (muddy)	117	
	60					1/4					64-72: coarse grained gravel		
1	80					1/4					72-76: mud (bley 1 5/1)	117	
	100					1/4					(0-3) VOID Diatom Rich		
2	120					1/4					3-43: laminations, color mottling pyrite	117	
	140					1/4					43-47: sand bed with clasts		
3	0		VOID								47-96: massive mud (bley 1 5/1)	117	
	20					1/4							

Lonestones: 1-3, 83, 124, 117

Lonestone: 45, 49 (clast & sediment) 78, 93, 115 (mud clast)

Expedition 374 Ross Sea: U1523 B 11F 1-3 0
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: Flexin (sand) Minor Lithology: mud w/clasts

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	↑									Greenish gray massive sand w/ common clasts Flow in Shells frags throughout @ 47.4g. Forams visible throughout Limestone: 29, 48-50 Grav. size	58	
	20	↓								DBM 25			
2	0	↑									Light olive brown mud with common clasts mottled (bioturb?) Shells frags throughout → 17, 33 Limestone (gravel size): 26, Mottled + possibly bioturb. 22-68cm	70	
	20	↓								20 56			
3	0	↑									Flow in & Soapy Shell fragments throughout → worm tube / Corals / bryz With same as above in sec 2	71	
	20	↓								2.5Y 4/3 36			

Expedition 374 Ross Sea:

01523

B

18X-CC

19X-CC

Site:

Hole:

Core:

Sections:

Top Depth:

Major Lithology:..... Minor Lithology:.....

18X
-CC

19X
-CC

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								
26	0	20					grey				greenish grey clay part muddy	S. Kim	3/1/1	
	20					5/60g				10 21	disturb			
	40										massive at 21-26			
	60										muddy.			
	80													
	100													
	120													
	140													
	0													greenish grey clay part muddy
	20													Matrix with rubble gravel
	40													(crushed ...)
	60													
	80													
	100													
120														
140														

Hiatus

Expedition 374 Ross Sea: V1523B Site: 21F Hole: 1- Core: 1- Sections: 1 Top Depth: 149

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	1/31
1	0		Fossiliferous							3	100cm 95 95 120 140	ooze	AES	1/31
	20		Glycol									bioturbated diatom bearing mud with abund. clasts		
2	40		Glycol							3	110-112 muddy diamict from 85-96 cm diatom rich mud 127, 140 149 TD	AES	1/31	
	60		Glycol											pink staining throughout + glauconite staining
3	80		Glycol							3	thin (<1cm) diatom oozes interbedded w diatom muds with abundant clasts to 43cm and sandy mud w/ abund. clasts 51-85 Lonestone: 35-37. 85 TD	AES	1/31	
	100		Glycol											22
C	120		Glycol							2	Diatom rich mud w/ dispersed sandy diamict 72-81 Clasts 0-72 w/ Bioturb. lower contact + glauconite Lonestone: 3, 64, 72-74 93	AES	1/31	
	140		Glycol											3
C	120		Glycol							3	sandy mud to mud Lonestone 16-18 5 10	AES	1/31	
	140		Glycol											3

Expedition 374 Ross Sea: 1523 B-24X 1-CC 0
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: sandy (diatom-bearing) mud Minor Lithology: sand rich diamict, mud

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							BAK	1-31-18											
1	0						5/10Y		...			0-9cm fall-in	BAK	1-31-18											
	20						5N 5BAY								0-12cm greenish gray mud										
	40						5/10Y								VOID	12-23cm mottled gray mud with dispersed clasts extremely disturbed									
	60																								
CC	0								...			greenish gray clast rich sandy diamict	BAK	1-31-18											
	20						5/10Y								" " diamictite										
	40														clasts 2-5, 10, 16										
	60														gravel bed 16cm glauconite staining? 10cm visible throughout										
	0												BAK	1-31-18											
	20																								
	40																								
	60																								

Rich sand

diatom bearing sandy mud

first evidence of laminated diamict