

Expedition 374 Ross Sea: U1523 Site: A Hole: 1H Core: 4-cc 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	1/29
4	0	↑										Dark grayish-brown interbedded silt + mud (fram - bearing) 0-150cm	AES	1/29
	20													
5	0	↑										interbedded silty mud to sandy mud 0-9, 16-54 9-16 clay-rich sandy diamict 54-60 grayish brown	AES	1/29
	20													
6	0	↑										Lonestone: 6 cm shell frags 58 cm 42 → mica Cm to Dm scale interbedded silty mud + mud	AES	1/29
	20													
Ce	0	↑										22-25 Pal	AES	1/29
	20													

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

Major Lithology: Minor Lithology:

Section	Offset (cm)	Drilling disturb.	Lithology C St Sd G	Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
										AES 1/29
1	0			5/2						
	20			4 1/2		80	↑ 4		8-18: sandy mud → sharp contact	
	40			5/2		▲▲▲36			18-33: foram rich muddy sand	
	60								Bioturb contact	
	80								33-120: stratified dark-rich muddy diamict	
	100									
	120								mud clast 33	
	140								lonestone: 125-129 (ig?)	
									109-112	
									134	
									120 } foram-rich muddy sand	
									12	
	2	0					80			
20						▲▲▲36	↓		15: clast	
40									6-8 mud clast (greenish)	
60									12-27: laminations	
80									80-84: lonestone (CaCO ₃ mudstone)	
100									101	
120										
140										
3 (Dist)		0								
	20									
	40									
	60									
	80								75-77: lonestone (CaCO ₃ mudstone)	
	100								80	
	120									
	140									

Stickers (Disturbed)

Expedition 374 Ross Sea: V1523 A 4F 1-3 0
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: Diatom-bearing Mud with dispersed clast Minor Lithology: Fine to coarse sand
? looks it in photo

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					1/4 hazy					Mud with dispersed clasts Dark greenish grey	
	20	W											
	40	W										Diatom-bearing (Broken)	
	60											Lenses: 8-12, 14-18, 18-22	
	140											Mud clast: 33-34, 39 Bioturbation: high or low?	
2	0											Fine Foram Bearing Sand: 11-17 (Foram Bearing) 27-32 * upper sand bands hard to tell lower boundaries sharp	
	20												
	40											Massive Muddy bed - 32-88 with dispersed clasts	
	60											Lenses: 15-16 (Mud clast) 27-28, 28-29, 32-36 (granitoid), 97-98, 108-110, 129-129	
	140											88-138 physical intermixing of sand and mud (Coarse to Fine) with dispersed clasts Sandy Mud	
3	0											interlaminated (color, darker grey, Sandy content) (0-32)	
	20												
	40											32-58: Massive mud with dispersed clasts 58-85: intermixed muddy sand (lens) with dispersed clasts (Sandy mud)	
	60											109-111: void 85-109: Massive mud	
	140											101-126: Massive mud Lenses: 49-51 (chert nodules (chert layer on shell) rounded) 55 Diatom-bearing, 55 carbonate sand Base of void is a mm-scale Sand laminae.	

53: Shell Fragment

NOT BIOGENIC

Expedition 374 Ross Sea: V522 Site: A Hole: 4F Core: CC Sections: 0 Top Depth:

Diatom-Bearing

Major Lithology: Mud w/ dispersed clasts Minor Lithology: Fine to coarse sand

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, recommended photos, other	Logged by: Date:
			C	St	Sd	G							
CC	0						↓	↓			<u>Faintly interlaminated mud with dispersed clasts</u>		
	20												
	30												
	34.5												
	40												
	60												
	80												
	100												
	120												
	140												
		0											
		20											
		40											
		60											
	80												
	100												
	120												
	140												

30
PA-L

12.5-13: Sand laminae

Lamination: 17,
0-10cm: partly to faintly laminated

13-34.5: mottling

34.5

Expedition 374 Ross Sea: V1523 Site: A Hole: 6F Core: 1-3 Top Depth: 0

Major Lithology: Diatom-beavy Interlaminated Mud With disperse clast Minor Lithology: Sand mottles

Section	Offset (cm)	Drilling disturb.	Lithology				Color	Sec. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
			C	St	Sd	G							
1	0	↑	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	0-14: Diverse clasts (granitoids, Meta sedimentary) Sandy mud with dispersed clasts		
	14-38: mottled? Fine Sand stringers Mud w. (i)												
2	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	38-58: Intermix of sand and mud lamina		
	58-65: Dark greenish grey to black												
3	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	65-119: Interlaminated mud (color) with sand stringers and sand lamina (planar) dispersed clasts		
	119-133: Sand bed, Intermix of sand and mud with gravel (sand or mud)												
3	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	133-149: interlaminated mud (color)		
	149-155: SECTION 2												
3	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	15-25: Intermix of mud with fine Med. sand		
	25-35: Sand mottles? stringers												
3	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	Interlaminated mud With sand beds (color)		
	35-72: sand bed (sharp)												
3	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	119-130: sand mottles & stringers		
	130-145: Lonestones: 34, 57, 61, 63, 68, 83, 86, 92, 101, 121, 136, 145												
3	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	Interlaminated mud (color)		
	0-35: higher content of Lonestones than below												
3	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	35-72: Sand stringers decrease		
	72-135: Lonestones: 3, 4, 9, 11, 15, 24, 26, 33, 40, 67												
3	0	↓	[Lithology sketch]			[Color sketch]	[Sec. Structures sketch]	[Lith. Accessories sketch]	[Bioturb. sketch]	[Samples sketch]	135-145: Dark black sandy patch		

Expedition 374 Ross Sea: U1523 Site: A Hole: 6F Core: 4-CC Sections: Top Depth:

Diatom-bearing

Major Lithology: Interlaminated mud with disperse clasts Minor Lithology: Sandy mottles

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	+					black / grey / white			5nd-4th	14-55: Highly disturbed Diatom-bearing Interlaminated mud with dispersed clasts		
	20	T											
	40	W											
	60	L											
	80												
	100												
	120												
	140												
CC	0									Same as section above			
	20												
	40												
	60												
	80												
	100												
120													
140													

76

12
17

Expedition 374 Ross Sea: U1523 A 2F 1A-CC 0
 Site: Hole: Core: Sections: Top Depth:

Major Lithology: Diatom-bearing 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						GREY 10Y 4/1					Diatom bearing mud with dispersed clasts	
	20												
	40												
	60												
	80												
	100												
	120												
	140												
	100												
	120												
	140												
	100												
	120												
	140												
2	0											Same as above. Heavily disturbed	82.5 b 12
	20												
	40												
	60												
	80												
	100												
	120												
	140												
	100												
	120												
	140												
	100												
	120												
	140												