

Expedition 374 Ross Sea:

41521 A IR 1A 0 cm

Rachel Notes

Major Lithology: *Sandy mud w/ disp. clasts* Minor Lithology: *Diatome-rich mud*

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							PR/MP	17/1
0	Slightly disturbed												
10						5Y-5/3				SS	Some flow in at the base of the section Olive Diatome-rich mud		
20						5Y-6/1 *				SS	* NG Gray Diatome bearing clay Mud		
30													
40						5Y-6/1 Gray					SS	Sandy mud Clasts, dispersed Smear slide	
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Sandy mud

Mud:
* 5Y-4/1 dark gray
Clasts, common, clay clasts

Expedition 374 Ross Sea: U1521 A 1R 2A 0.5 cm
 Site: Hole: Core: Section: Top Depth:

Rachel Notes

Major Lithology: Mud with clay clasts Minor Lithology: Dark grayish brown mud w/clasts

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							DL/MP	17/1	
0	Extremely disturbed					*					* 5Y-4/1 Dark gray 6cm, dispersed clasts, clay clasts, mud			
10														
20														
30														
40														
50														
60														
70														
80														
90														
100														
110												107cm Dark grayish brown clasts common - rich mud		
120														
130												127-131 cm		
140												Gray mud		
150														

clay clasts

Expedition 374 Ross Sea: U1521 A IR 3A 0.5
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Massive gray mud Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>DL/HP</u>	Date: <u>17/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40									SS				
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

↑
 ← NG Gray
 ↓

Massive gray mud
 Diatome bearing

Expedition 374 Ross Sea: UIS21 A 2R 1A 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: clast-rich muddy clay Minor Lithology:

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	Fall-in									Fall-in of clasts (marble, ^{pink} granite, diorite?, quartzite, metam. (fine grain)?)		
10												
20												
24										24cm		
30										Dark gray, clast rich muddy diamictite with "shear zones" (24-80cm)		
40							1/4					
50										SS (clast) Clasts randomly distributed, of various composition and subangular to subrounded - high angle faulting		
60												
70												
80							2.5X-4X			24-80 cm: inclined, iridescent gray mud (NB) zones including "clast" of the surrounding lithology (also diatom-rich mud clasts)		
90												
100										100cm @ 48cm, 82cm		
110												
120												
130												
140												
150												

1/4 post sedimentary Microfault

Expedition 374 Ross Sea: U1521 A 2R CC OC
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

6cm Fall-in (of c/b/s)

Expedition 374 Ross Sea: U1521 Site: A Hole: 3R Core: 1A Top Depth: 0cm

Major Lithology: Minor Lithology:

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	Fall-in												
10											clast. fall-in (gneiss, meta pelite?)		
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

// Post-sedimentary microfossils/brecciation (en echelon)

mud? - smear slides?
physically interaxial lithologies: of diamictite (major) & mudstone (minor) feature

2.5X-4/1

(subtle)

133 VOID 136

Expedition 374 Ross Sea: U1521 Site: A Hole: 3R Core: 2A Section: 0cm Top Depth:

Rachel notes

Major Lithology: Minor Lithology:

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										0-60 is ^{diatom-rich} sandy diamicton at		
10										Dark gray, clay-rich muddy diamicton with "shear zone" of diatom-rich mud		
20										Classes randomly distributed, of various composition and subangular to subrounded.		
30												
40												
50										48 - bottom of section: "intermixed shear zone"		
60										<u>60-75cm DIATOM OOZE</u>		
70										Slightly fractured light brownish gray mud with lenses of gray mud	"inclined" contact	
80												
90												
100												
110												
120												
130												
140												
150												

"inclined" contact

Expedition 374 Ross Sea: UIS21 Site: A Hole: 4R Core: 1A Section: 0 cl Top Depth:

Major Lithology: Minor Lithology:

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							JPL/MP	17/11
0	slightly fractured					Light olive gray				<p><u>Diatom ooze</u> Light olive gray mud with abundant clasts and post-sedimentary microfaults at several levels Slightly fractured to 0-25cm - some residual bedding as defined by colour - mottles may be bioturb</p>			
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

?

SY - 6/2

shells!

⊗

⊗

Expedition 374 Ross Sea: U1521 Site: A Hole: 4/R Core: 2A Section: 0cm Top Depth:

Major Lithology: Minor Lithology:

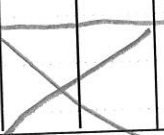
Offset (cm)	Drilling disturb.	Lithology				Color	Sed Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by:	Date:
		C	St	Sd	G							BLMP	12/1
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Slightly fractured

5X-6/2 Light olive gray

Mudbearing Diatom ooze
 Light olive gray mud with common to abundant clasts and post-sedimentary microfaults at several levels
 Slightly fractured
 No-1 33-73 cm

SS



Expedition 374 Ross Sea: U1521 A 4R 3A 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140	↓											
150												

Mud bearing bottom ooze
 Gray mud with common clasts and post-sedimentary micro-faults at several levels
 Slightly fractured
 ss
 10L 53-81cm
 Shell frags @?

Slightly fractured

SY-511 Gray

δ
 //
 //
 //

*

X

Expedition 374 Ross Sea: VIS21 Site: A Hole: 5R Section: 1A Top Depth: 0cm

Major Lithology: mud-bearing Diatom ooze Minor Lithology: mud-rich Diat ooze

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	1/17
0										3 cm - limestone → in situ?			
10					5y 6/2					16 olive gray to 9/10y to			
20					5y 4/1					17-20; fall-in low stone			
30					gray			4		① - 78 cm mottled (olive gray w/dfact)			
40										Diatom-rich mud mud-bearing Diat ooze			
50										Burrows + primary structures obscured by post-sed. microfaulting to			
60										Gradational Bioturb. Contact 78 to 86			
70										mud-rich Diat. ooze diatom-bearing mud			
80										with increasing sand			
90					5y 5/1					from 129 to 140 cm			
100					gray								
110								3					
120													
130					132- 5y 4/1								
140										133-134 - Angular (qn) limestone			
150										141 cm			

Expedition 374 Ross Sea: U1521 Site: A Hole: 5R Core: 2A Section: 0 cm Top Depth:

Major Lithology: clast rich sandy diamict Minor Lithology: clast poor muddy diamict

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							ATES	1/1
0													
0-4					1 5/n				↑ 3 ↓		gray Bioturb. diatom bearing sandy mud to 4 cm.		
4-14					1 5/oy						4-14 cm: clast rich sandy diamict		
14-66					1 7/n 1 5/oy						14-66 cm: clast-poor muddy diamict w/ CaCO ₃ cement greenish gray to + vein network (Lithified) lt gray to gray		
17-18					1 6/n						17-18 cm Bioturbated diatom-bearing mud lamin. w/ wavy		
58-59					1 5/n					SS 58-59 cm			
66-67											66-67 cm: inclined contact		
67-151											Dark gray 67-151 cm: clast rich sandy diamict		
97-98										SS 97	97-98 cm: diatom mud duff → SS from D. clast		
109-110											109-110 cm: pebble w rimmed halo/coating - does not fizz		

Expedition 374 Ross Sea: U1521 Site: A Hole: 5R Core: 3A + CC Section: 0 cm Top Depth:

Major Lithology: clast rich sandy diamict Minor Lithology:

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	1/17
0											Dark gray 0-84 cm: clast-rich sandy Diamict.		
10													
20													
30													
40													
50	↑ 42 ↓ 50												
60													
70													
80													
84													
84-85													
85-86													
86-87													
87-88													
88-89													
89-90													
90													
90-91													
91-92													
92-93													
93-94													
94-95													
95-96													
96-97													
97-98													
98-99													
99-100													
100													
100-101													
101-102													
102-103													
103-104													
104-105													
105-106													
106-107													
107-108													
108-109													
109-110													
110-111													
111-112													
112-113													
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114-115													
115-116													
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117-118													
118-119													
119-120													
120-121													
121-122													
122-123													
123-124													
124-125													
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126-127													
127-128													
128-129													
129-130													
130-131													
131-132													
132-133													
133-134													
134-135													
135-136													
136-137													
137-138													
138-139													
139-140													
140-141													
141-142													
142-143													
143-144													
144-145													
145-146													
146-147													
147-148													
148-149													
149-150													

Dark gray
0-84 cm: clast-rich sandy
Diamict.

Downstore 50-51 cm may not be in situ?
But similar lithology to
in situ at 80 cm.

SS 65 cm

65 cm } Diatom mud clast
78 cm }

PAL

ROSS SEA IODP Exp.318
 Wilkes Land
 Clast Abundance


374 1521A 5R 0
 Site Hole Core Top Depth
 BAK
 Observer Date 1-17-18

length (cm)	Sec.1	Sec. 2	Sec.3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
10	0	6	3					4	
20	0	5	3						
30	0	8	5						
40	0	4	4						
50	0	3	4						
60	0	2	1						
70	0	2	5						
80	1	3	6						
90	0	5	5						
100	0	5							
110	0	5							
120	0	4							
130	0	5							
140	2	6							
		6							

Expedition 374 Ross Sea: U1521 A 6R CC

Site: _____ Hole: _____ Core: _____ Section: _____ Top Depth: _____

Major Lithology: oldest poor muddy diatite Minor Lithology: _____

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Su Kim</u>	Date: <u>17/1</u>
		C	St	Sd	G								
0						<u>14/N</u>					<u>Asp (carbonate cementation) clast poor muddy diatite *</u>		
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

carbonate cemented!

Expedition 374 Ross Sea: 41521 Site: A Hole: 8R Section: 1A

Major Lithology: clast poor muddy diamict Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sec. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Sungham Kim</u>	Date: <u>19/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

clast poor sandy diamict
massive
clasts at 24, 25, 37, 91-92,
96-107 cm

4/N

130m

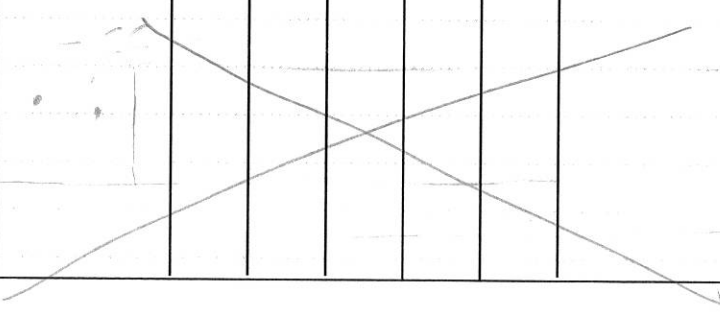
Expedition 374 Ross Sea: U1521 A 8R 2A
 Site: _____ Hole: _____ Core: _____ Section: _____ Top Depth: _____

Major Lithology: clay poor sandy diamict Minor Lithology: _____

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Wingham</u> <u>KIM</u>	Date: <u>17/11</u>
		C	St	Sd	G								
0	↑												
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120	↓												
130													
140													
150													

0-121 dark grey
 clay poor sandy diamict
 clasts at 2, 7, 7, 42,
 46, 47, 48, 53, 55, 57, 64,
 79, 81, 85, 90, 92, 95, 97,
 108, 113, 115, 116cm
 moderately bioturbated.

121
 120



Expedition 374 Ross Sea: U1521 A 8F CC
 Site: Hole: Core: Section: Top Depth:

Major Lithology: chre poor sandy diamict Minor Lithology:

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													
10													
20													
27													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

27 cm

PAL

dark gray
 chre poor sandy diamict
 clasts at 2, 3, 6, 11, 15, 16, 18 cm

Logged by: Kingham Date: 17/1
Kim

Expedition 374 Ross Sea: UIS21 A 9R 2A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Last pair sandy Diatom Minor Lithology: Diatom - Sandy mud

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	1/17	
0	↑ ↓									Diatom-bearing sandy mud bioturbated w/ shell frag Greenish gray				
10														
20														
30														
40										Chaotic Banding 40 Dark gray Clot for sandy diatom				
50														
60														
70														
80														
90														
100														
110														
120														
130														
140														
150														

149 cm

81,88 cm → shell frag.

Expedition 374 Ross Sea: 01521 A 9R CC 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

carb cement nodule 2-4 cm
 in clast-poor sandy diamict
 16 cm



16cm

IODP Exp.318
 Wilkes Land
 Clast Abundance

374 1521 9R 0
 Site Hole Core Top Depth

BAK 1-17-18
 Observer Date

length (cm)	Sec.1	Sec. 2	Sec.3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
10	4	1						1	
20	4	5						2	
30	3	1							
40	4	5							
50	2	5							
60	4	9							
70	1	7							
80	1	6							
90	5	6							
100	1	5							
110	0	9							
120	0	3							
130	0	>10							
140		8							
		9							

Expedition 374 Ross Sea: 41521 A 10R 1A 0

Major Lithology: *clast poor sandy diamict* Site: Hole: Core: Section: Top Depth:
 Minor Lithology: *diatom-rich mud*

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <i>inghan</i> <i>KRM</i>	Date: <i>17/1</i>
		C	St	Sd	G								
0													
10	<i>slight</i>												
20									<i>5/10</i>				
30									<i>5/10</i>				
40													
50													
57	<i>57m</i>												
60													
64	<i>64m</i>												
70													
80													
90													
100													
110	<i>115m</i>												
120													
130													
136													
140													
150													

136 cm

0 - 115 cm
 Mechanically Disturbed
 diamict w. diatom- muds
 irregularly interbedded w
 clast poor sandy diamict
 - dark greenish gray
 diatom-rich muds
 - greenish gray
 * clasts are fine
 clast poor sandy diamict
 • 53 cm sharp contact
 • 13 cm, 20 cm, 24 cm, 57 cm,
 66 cm, 70 cm, 80 cm, 112, 115 cm
 ; wavy, irregular boundary
 115 - 136 cm
 diatom-rich mud
 with mud clast.
 0 - 59 cm slightly laminated
 59 - 67 cm moderately "
 70 cm, 86 cm, 115 cm, 117 cm - shell fragments

Expedition 374 Ross Sea: U1521 A 10R CC 0

Major Lithology: diatom-rich mud Site: Hole: Core: Section: Top Depth:

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													
10		---	---	---	↑								
12		---	---	---	5/4				PAL	greenish gray diatom rich mud 0-12 cm	Suzhen Kim	17/1	
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

17 (m)

Expedition 374 Ross Sea:

41521

A

12R

1A

0

Major Lithology: *olive gray Diatom rich mud* Site: Hole: Core: Section: Top Depth: *0*

Minor Lithology: *pale olive gray diatom rich mud*

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <i>Singhan Kim</i>	Date: <i>17/1</i>
		C	St	Sd	G								
0										0-144 cm Diatom rich mud olive gray.			
10													
20											94-100 cm pale olive gray ^{beating} diatom rich mud with authigenic carbonate (~25-50%)		
30													
40						5Y							
50						5Y							
60		<i>Mud</i>											
70													
80													
90													
100						5Y 8/3							
110						5Y							
120						5Y							
130													
134													
140													
150													

134 cm

Expedition 374 Ross Sea: U1521 A 12R 4A 0
 Major Lithology: diatom rich Site: mud Hole: Core: Section: Top Depth:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Singhan</u> <u>KRM</u>	Date: <u>17/1</u>
		C	St	Sd	G								
0	8 mole rate										olive gray 0-151 cm diatom rich mud shd fragments at 71 cm		
10													
20													
30													
40													
50													
60						5Y 5/2			2				
70													
80													
90													
100													
110													
120													
130													
140													
150													

151 cm

Expedition 374 Ross Sea: U1521 A 12R 5A 0

Major Lithology: diatom rich mud Site: Hole: Core: Section: Top Depth:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Sunghan Kim	Date: 17/1
		C	St	Sd	G								
0													
10	○ slightly										olive gray diatom rich mud		
20													
30					5Y								
40	✕				5/2								
50	○ mod							2					
60													
70	✕												
80	✕												
90	○ heavy												
100	✕ 0.4 cm												
110	○ slightly												
120	✕												
130	○ heavy												
140	✕												
150	○ mod												

120
130
140
150

Expedition 374 Ross Sea:

U1921

A

12R

6A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

diatom

rich

mud

Minor Lithology:

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											olive gray diatom rich mud 5Y 5/2 2 80 Md.	
10												
20					5Y							
30					5/2							
40												
50								2				
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

145 cm

Expedition 374 Ross Sea:

U1924

A

12R

cc

0

Major Lithology:

diatom rich mud

Site:

Hole:

Core:

Section:

Top Depth:

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													
10					5Y 5/2					olive gray diatom rich mud	Kinghan	17/1	
20	PAL								PAL		Kim		
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

18
22

IODP Exp.318

Wilkes Land

Clast Abundance

374

Site

1521

Hole

12

Core

0

Top Depth

BAK

Observer

1-17-18

Date

length (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
10	1	0	0	0	0	0		0	
20	0	0	0	0	0	0			
30	0	0	0	0	0	0			
40	0	0	0	1	0	0			
50	0	0	0	0	0	0			
60	0	0	0	0	0	0			
70	0	0	0	0	0	0			
80	0	0	0	0	0	0			
90	0	0	0	0	0	0			
100	0	0	0	0	0	0			
110	0	0	0	0	0	0			
120	0		0	0	0	0			
130	0		0	0	0	0			
140	0		0	0	0	0			

Expedition 374 Ross Sea: UB21 Site: A Hole: BR Core: 1A Section: 0 Top Depth:

Major Lithology: Diatomaceous Mud Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/17
		C	St	Sd	G								
0	↑												
10													
20					5Y								
30					5/2								
40							b						
50	///												
60													
70								4					
80													
90													
100													
110	↓												
120													
130													
140													
150													

olive gray
Diatom- mud
Bioturbated (heavy)

shell frag @ 34 cm

68-69 cm: gray burral

shell frag @ 90 cm

110 cm = TD

Expedition 374 Ross Sea: U1521 Site: A Hole: 13R Core: 2A Section: G Top Depth:

Major Lithology: Diatom-bearing Mud Minor Lithology:

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							AES	1/17
0													
10											Olive gray diatom-bearing mud w/ bioturbation (heavy)		
20											fine lam @ 4.5 cm		
30						5Y					shell frag @ 18.5 cm		
40						5/2							
50													
60													
70													
80											72-74 cm: larger burrow		
90											97-110 cm: huge 3 cm wide burrow		
100											bivalve (on end) from 93-94 cm		
110													
120													
130											125-130 cm: cross sect. of shell (bivalve)		
140											Burrow → gray above shell (bivalve)		
150											151 cm = TD		

Expedition 374 Ross Sea: U1521 Site: A Hole: 13R Core: 4 Section: 0 Top Depth:

Major Lithology: Diatom mud Minor Lithology:

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							AES	
0													
10													
20	///												
30					SY								
40	X				5/2		∅	4					
50	X						∅						
60													
70													
80													
90	///												
100													
110													
120													
130													
140													
150													

olive gray diatom-bearing mud
Bioturbated (4 many)

31cm shell frags
50cm }
87 }
95cm }
120 }
122 }

SS (stringer)
76-77 cm: stringer w/ sharp top + bottom contact
81 cm: "

151 cm TD

Expedition 374 Ross Sea: U1521 A 14K 1A 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							YX/HP	18/1
0	↑ // ↓					↑ 5Y			1		Olive gray diatom bearing mud 22.5 cm		
10						5/2			3				
20						↓				26 cm			
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Expedition 374 Ross Sea:

U1521

A

16R

3A

0cc

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology: Minor Lithology:

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							TL/MP	18/1
0	↑												
10	↑												
20	↑												
30	↑							2					
35	↑												
40	↑												
45	↑												
50	↑												
60	↑												
70	↑												
80	↑							3					
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Olive gray diatom rich mud

Drilling disturbance: 1

105 cm

SY
sh

φ

Expedition 374 Ross Sea: U1521 Site: A Hole: 17R Core: 5A Section: 0c Top Depth:

Major Lithology: Minor Lithology:

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													
10													
20					SY	∅							
30	L				S _{1/2}			3					
40													
50													
60													
70													
80													
87													
90													
100													
110													
120													
130													
140													
150													

Olive gray diatom rich mud

Drilling disturbance: 2

87 cm

Expedition 374 Ross Sea:

U1521

A

18R

1A

0cm

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology: Diatom Rich Mud

Minor Lithology:

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	↑												
10									SS				
20										Olive gray diatom rich mud			
30					SY								
35					S/R								
40								3					
50	///												
60													
70													
80													
90	↓												
100	↑												
110	///												
120	↓												
130													
140													
150													

Core disturbance:
1 except for 89-98 cm : 2

126 cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 18R Core: 2A Section: OCL
 Top Depth: 0

Major Lithology: Diatom Rich mud Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sec. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>PL</u>	Date: <u>18/1</u>
		C	St	Sd	G								
0	↑												
10					SY								
20	///				S _{1/2}	φ		3					
30													
40	↑												
50													
60	///												
70													
80	↓												
90	↓												
100													
110													
120													
130													
140													
150													

Olive gray, diatom rich mud

Core disturbance: 1 except for 35-40 cm

90 cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 18R Core: GR Section: 0cm Top Depth:

Major Lithology: Diatom bearing mud Minor Lithology:

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												
10	L							?				
20										Olive gray diatom bearing mud		
30						SY 5/2						
37							▲				Limestone at 37 cm	
40												
50												
55												
60								2				
70												
80												
90												
100												
105												
110	L						▲	?				
120												
125.5												
130											125.5 cm	
140												
150												

Disturbance
 0-33cm : 2
 33-99cm : 1
 99-125.5 : 2

Expedition 374 Ross Sea: U1521 A 19R 24 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>DL/MP</u>	Date:
		C	St	Sd	G								
0													
10													
20					SY	⊗					Olive gray diatom rich mud		
30					S/2								
40								3					
50													
60													
70													
80						⊗							
90													
100													
110													
120													
130													
140													
150													

109cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 19B Core: 3A Section: 0cm Top Depth:

Major Lithology: Minor Lithology:

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												
10	///											
20	└											
30												
40					5/1							
50					5/2							
60								3				
70	///											
80												
90												
100												
110												
120												
130												
140												
150												

Olive gray diatome rich mud

→ smear slide?
→ laminae vein?

Expedition 374 Ross Sea: U1521 A 19R 4A 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40	///				SY	Φ		3				
50					S/2							
60												
70												
80												
90												
100												
110								2				
120												
130												
140	///					Φ		3				
150							X					

Olive gray diatom rich mud

146 cm

Expedition 374 Ross Sea: U1521 A 20R 1A 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							<i>PLMP</i>	<i>12/1</i>
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
133													
140													
150													

Olive gray diatom rich mud

Secondary mineralization associated with some of the bioturbation (most pronounced at 87-93 cm)

133cm

Expedition 374 Ross Sea: 41521 Site: A Hole: 20R Core: SA Section: 0cm Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sec. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>PLUP</u>	Date: <u>18/11</u>
		C	St	Sd	G								
0													
10													
20													
30													
40						SY							
50						S $\frac{1}{2}$							
60													
70													
80													
90													
100													
110						SY							
120						S $\frac{1}{1}$							
130													
140													
150													

Gradual transition in color below ~100cm from olive gray to dark gray diatom rich mud

150 cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 20K Core: 7A Section: 0cm Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>JA</u>	Date: <u>8/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Olive gray diatom rich mud

SY
S/2

3

SS

150 cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 21R Core: 1A Section: 0 cm Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>YSC</u>	Date: <u>12/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40					SY								
50					S/2				5				
60													
70													
80													
90													
100													
110													
120													
130													
140													
150									SS			151 cm	

Olive gray diatome rich clay

Expedition 374 Ross Sea: UIS21 A 21R 3A 0CL
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Dark gray diatome bearing mud

SY
4/1

S

88cm

SY
6/1

Gray clay 144cm →

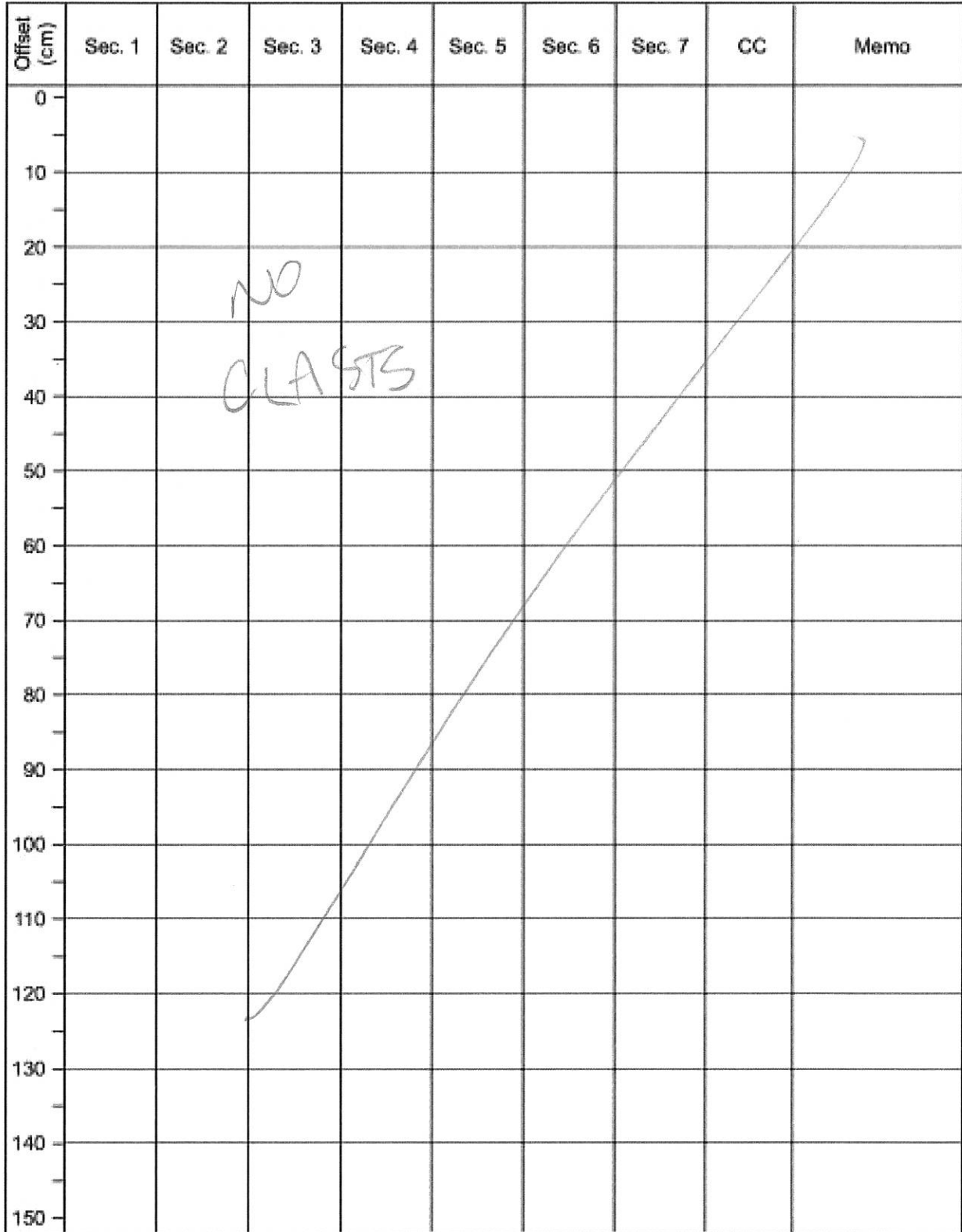
Expedition 374 Ross Sea: U1521 A 21K SA 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30					SY					Dark gray diatoms bearing mid		
40					4/1							
50								4				
60												
70												
80					SY					Some mixing of gray clay 72-78 cm		
90					4/1							
100												
110					4/1							
120						φφ				119, 120 cm		
130												
140												
150										151 cm		

Expedition 374
Ross Sea
 Clast Abundance

U1521 A 21R
 Site Hole Core Top Depth
IS
 Observer 22101
 Date



Expedition 374 Ross Sea: 41521 Site: A Hole: 22R Core: 1A Top Depth: 0
 Major Lithology: Diatom rich mud Minor Lithology:

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											suphan kim	18/1
10											Dark gray, highly bioturbated diatom rich mud	
20											+ abundant burrows (few mm to 1cm wide)	
30	4/10					5R 4/1				SS 25cm	+ shell fragments at 61, 93, 101, 111 cm	
40												
50									4			
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

122
22

Expedition 374 Ross Sea: 01521 A 22R 3A 0
 Major Lithology: ^{dark gray} diatom rich mud Site: Hole: Core: Section: Top Depth:
 Minor Lithology: diatom rich mud

Offset (cm)	Drilling disturb.	Lithology				Color	Sec. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: syzhan Kim	Date:
		C	St	Sd	G								
0													
10					5Y						0-30 cm olive gray diatom rich mud.		
20					5/2		φ				30-68 cm olive gray diatom rich mud		
30					5Y						60-151 cm dark gray diatom rich mud		
40					4 1/2						shell fragments at 16, 61, 68 cm		
50							φ						
60							φ	4					
70							φ						
80					5Y								
90					4 1/1								
100													
110													
120													
130													
140													
150													

gradient ↓

151 cm

Expedition 374 Ross Sea: U 1521 Site: A Hole: 22R Core: 4A Section: 0

Major Lithology: Dark rich mud Minor Lithology: _____

Offset (cm)	Drilling disturb.	Lithology				Color	Sec. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Young beam</u>	Date: <u>10/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Dark rich mud.
dark gray.
shell fragments at 58 and 100cm

54
4/1

4

φ

φ

126
(32)

Expedition 374 Ross Sea: U1521 A 22R CC 0

Major Lithology: Diatom rich mud Site: Hole: Core: Section: Top Depth:

Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Longhorn</u> <u>KEM</u>	Date: <u>18/1</u>
		C	St	Sd	G								
0													
5													
10													
15													
20	<u>PHL</u>												
25													
30													
35													
40													
45													
50													
55													
60													
65													
70													
75													
80													
85													
90													
95													
100													
105													
110													
115													
120													
125													
130													
135													
140													
145													
150													

20cm

Diatom rich mud.
dark gray

PHL

PHL

↑
5+
4+
↓

↑

Expedition 374
Ross Sea
Clast Abundance

374 1521 22 0
 Site Hole Core Top Depth
BAX 1-18-18
 Observer Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	0	0	0	0				0	
10	0	0	0	0				0	
20	0	0	0	0					
30	0	0	0	0					
40	0	0	0	0					
50	0	0	0	0					
60	0	0	0	0					
70	0	0	0	0					
80	0	0	0	0					
90	0	0	0	0					
100	0	0	0	0					
110	0	0	0	0					
120	0	0	0	0					
130	0	0	0	0					
140			0						
150			0						

Expedition 374 Ross Sea: U1521 A 23R 1A 0

Major Lithology: diatom-bearing clast poor sandy diamict Minor Lithology: diatom-rich mud

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	1/18
0													
10					SY								
20					4/2								
30													
40													
50					Gray								
60					4/N								
70													
80													
90													
100													
110													
120													
130													
140													
150													

olive gray heavily Bioturbated Diatom-rich mud 0-17 cm

Shell frags: 2-3, 12 cm

clast poor sandy diamict Slightly stratified w/ tilted beds

light black lamin at 41 cm (possible burrow?)

56-68 cm: interbedded diamict + muds → laminated (10?)

69-70 cm: black burrow/mottles

74-75

83-84

104-105 → possibly Pyrite filled burrows (2x)

62-203 cm: Basalt clast

Shell frags in diamict

SS 133] cm

136 cm TD

Expedition 374 Ross Sea: U1921 Site: A Hole: 24R Core: 1A Top Depth: 0

Major Lithology: diatom bearing mud Minor Lithology: Diatom rich mud

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Kingham</u> <u>Kan</u>	Date: <u>18/11</u>
		C	St	Sd	G								
0													
3-129											0-3, heavily mixed.		
10											Dark greenish grey		
20											diatom bearing mud		
26-34											thin interbedded laminations		
30											at 30-31 5/100 greenish grey		
40											at 4/100 dark greenish grey.		
50											diatom bearing mud		
55											irregular laminations of pale grey mud		
60											at 48, 54, 61-62, 72, 123-05 (m)		
68											SS 68cm → Diatom bearing mud		
80											bank clay at 80m		
88											SS 88m → Diatom rich mud		
100													
120													
123-05												planar sharp contacts (contact?)	
130													
140													
150													

129

139

Expedition 374 Ross Sea: 41521 Site: A Hole: D4R Core: 2A Section: 0 Top Depth:

Major Lithology: diatom bearing interbedded mud with siltstone Minor Lithology:

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							Junghans	10/1
0										0-12 cm dark greenish gray diatom bearing mud	Junghans	10/1	
10										12-114 cm dark gray interbedded clay siltstone sandy diatomite with diatom bearing mud.	Junghans	10/1	
20													
30						4/100							
40													
50													
60						4/N							
70													
80													
90													
100													
110													
114													
120													
130													
140													
150													

Classes (including basites):
 27, 33, 74, 39, 46, 53, 54, 59-60,
 71-72, 76, 78, 94, 95, 76, 101,
 103, 106, 109, 111, 112 cm
 still flagstone at 12 cm
 cretaceous nodule with 1 cm diameter.
 69-70
 Diatom-bearing mud

114 cm

Expedition 374 Ross Sea:

41521

A

24R

3A+CC

0

Major Lithology: ^{juvenile} *clast poor sandy diamict* Site: Hole: Core: Section: Top Depth:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <i>Sunghun Kim</i>	Date: 18/1
		C	St	Sd	G								
0	↑			○		↑				0-45 cm clast poor sandy diamict dark gray			
10	↑			○		4/12				clasts (including basalt)			
20	↑			○						; 6, 7, 9, 16, 17, 20, 22, 31, 33 cm			
30	↑			○						juvenile			
40	↑			○									
45													
50													
60													
65													
70													
75													
80													
85													
90													
100													
110													
120													
130													
140													
150													

45 cm

0

12

17-2

18-2

Expedition 374 Ross Sea: U1521 Site: A Hole: ZSR Core: 1A Section: 0 Top Depth:

Major Lithology: clast... poor sandy diamict Minor Lithology:

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	1/18
0	↑												
10	×												
20	↓												
30	↓												
40													
50													
60													
70													
80													
90													
100													
110													
120	↓												
130													
140													
150													

Dark gray massive clast
 poor sandy diamict
 Massive.
 Basalt concretions @ 30, 47, 48
 70, 121, 124
 mud clast @ 35
 shell frag @ 45
 125-TD

Glet
 4/12

Expedition 374 Ross Sea: U1521 Site: A Hole: 25R Core: 4A+CC Section: 0 Top Depth:

Major Lithology: clast poor sandy diamict Minor Lithology:

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>1/18</u>
		C	St	Sd	G								
0	↑												
10	≡												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Dark gray massive clast poor sandy diamict massive

Basalt clast: 23, 29, 81 (not insitu?)

62-66 cm: Carbonate cemented diamict clast

98 cm TG

16
21

PAL

CC

0

10

20

Expedition 374
Ross Sea
 Clast Abundance

1521

Site

374

Hole

25A

Core

0

Top Depth

BAK

Observer

1-18-16

Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	1	1	1	1				0	
10	4	2	2	1				<u>0</u>	
20	1	1	3	2					
30	4	1	0	1					
40	4	2	1	2					
50	2	4	2	0					
60	5	3	1	3					
70	2	3	1	2					
80	1	2	2	3					
90	3	0	2	1					
100	2	2	0						
110	3	<u>0</u>	3						
120	<u>1</u>		0						
130			0						
140			0						
150			0						

Expedition 374 Ross Sea: U1521 Site: A Hole: 26R Section: 1A

Major Lithology: clast poor sandy diamice Minor Lithology: _____

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>singleman</u> <u>KRM</u>	Date: <u>18/1</u>
		C	St	Sd	G								
0													
10													
20													
30	X												
40													
50													
60													
70	X												
80													
90													
100													
110													
120													
130													
136													
140													
150													

136 cm

Dark gray
clast poor sandy diamice
limestone (including banded)
21, 11, 20, 24, 27, 36 (in situ?),
426 m (in situ?), 46, 52, 53, 64,
68, 80, 107, 109, 110, 114, 120, 21,
126, 130, 133 cm.
mud clast:
96 cm

Expedition 374 Ross Sea: 41521 Site: A Hole: 26R Core: 2A Top Depth: 0
 Major Lithology: Diatom-bearing clast poor sandy diamict Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: J. King	Date: 12/1
		C	St	Sd	G								
0													
10													
20													
30													
40					4/11								
50													
60													
70													
80													
90													
100									55 100 cm				
110													
120													
130													
140													
150													

Dark gray Diatom-bearing
 clast poor sandy diamict
 clasts (including basalt)
 23, 29, 11-14, 16, 17, 25, 32, 34
 44, 47, 54, 58, 72, 81, 91, 104, 107,
 116, 119, 124, 127-128, 130, 136, 137,
 143, 146.
 (31, 112, 144) - mud clast
 66 - concretin nodule

149
cm

Expedition 374 Ross Sea: U1521 A 26R 3A 0

Major Lithology: clase poor sandy diamict Minor Lithology:
 Site: Hole: Core: Section: Top Depth:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Engel</u> <u>NTZ</u>	Date: <u>18/1</u>
		C	St	Sd	G								
0	↑					↑		••			Dark gray		
10								••			clase poor sandy diamict		
20	///					↑		φ:			lime stones (including basalt)		
30						4/11		•			: 3, 5, 11-12, 13, 18, 31, 35, 38, 39,		
40								••			41, 43, 44, 47, 54, 69, 70, 75, 78,		
50								••			83, 85, 98, 102, 108, 114, 125, 132 cm		
60								•			mud clast: 20, 64-65, 124 cm		
70								••			55 - mud clast → calcocemented 65		
80								••			shell fragment: 18-19 cm		
90								••					
100								••					
110								••					
120								••					
130								•					
140													
150													

135 cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 26R Core: 4A Section: 0
 Major Lithology: clayey poor sandy diamite Minor Lithology: Top Depth:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Singh</u> <u>Kim</u>	Date: <u>8/1</u>
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
133	↑												
140	↑												
150	↑												

Dark gray
 clay poor sandy diamite
 line zones (including basalts):
 4, 10, 22, 24, 29, 42, 50, 52-53,
 55-57, 58, 68, 69, 71, 73, 74,
 79-80, 84-85, 86, 107, 109, 111,
 125, 130 cm
 mud clast: 3, 40, 112 cm
 shell frag nests: 40 cm

133
cm

Expedition 374 Ross Sea: 41521 A 26R 5A 0

Major Lithology: *clast poor sandy diamict* Site: Hole: Core: Section: Top Depth: Minor Lithology:

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							Singhan	18/1
0	↑	↑											
10	↑	↑											
20	↑	↑											
30	↑	↑											
40	↑	↑											
50	↑	↑											
60	↑	↑											
70	↑	↑											
80	↑	↑											
90	↑	↑											
100	↑	↑											
110	↑	↑											
120	↑	↑											
130	↑	↑											
140	↑	↑											
150	↑	↑											

Dark gray
clast poor sandy diamict

• corestones (including basalt):
9, 12, 22, 24, 25, 32, 35, 56, 68,
75, 76, 81-82 (in 5442), 84, 89,
93, 98, 101-103, 104, 125-126, 132,
135 (m)

• concretion module:
8, 50 (m)

• shell fragments: 17, 110, 123 (m)

110-125 vein network

141 (m)

Expedition 374 Ross Sea: 41521 Site: A Hole: 26R Core: CC Section: Top Depth: 0

Major Lithology: clay poor sandy diamict Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Sung-ho Kim	Date: 12/1
		C	St	Sd	G								
0													
0-5					1/4 N						clay poor sandy diamict		
5-10											line stone at 5cm		
10-12	PAL								PAL				
12-13													
13-150											dark gray		

7 cm

12

13

20

30

40

50

60

70

80

90

100

110

120

130

140

150

Expedition 374 Ross Sea: U.S. 12 Site: A Hole: 27R Core: 1A Section: 0 Top Depth:

Major Lithology: clast-poor sandy diamict Minor Lithology:

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>1/18</u>
		C	St	Sd	G								
0	↑												
10													
20	↓												
30													
40	↑												
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Dark gray clast-poor
Sandy Diamict
Massive

Basalt @ : 73-74 cm

129 cm

1W

139 cm

GLY
-
4/5

10
10
10

Expedition 374 Ross Sea: V1521 'A' 27R 2A 8
 Site: Hole: Core: Section: Top Depth:

Major Lithology: dark gray silty diamict Minor Lithology:

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	1/18
0													
10													
20						Gray							
30						4/n							
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Dark Gray massive clast - poor sandy diamict. (massive)

Limestones are faceted to flat side up: 35, 50, 66, 76, 97, 118 cm

mud clast: 27, 113 cm

scaphopod? @ 55 cm

122 cm TD

Expedition 374 Ross Sea: U1521 A 27R 4A 8
 Site: Hole: Core: Section: Top Depth:

Major Lithology: clast-poor sandy diamct Minor Lithology:

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	1/18
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
134													
140													
150													

Dark Gray massive clast-poor sandy diamct

GLY
1
4/m

Shell frags: 57, 79, 95, 123

Basalt Ls 108

Mud clast @ 115-116 cm

Shell frag @ 123 is large Benthic (Pyrsp?)

134 cm TD

Expedition 374 Ross Sea: 41521 Site: A Hole: 28R Core: 2A Top Depth: 0

Major Lithology: Diatom bearing clast-poor sandy diamict Minor Lithology:

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	1/18
0													
10													
20						Gley							
30						4/n							
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Dark gray massive, Diatom bearing clast-poor sandy diamict
Lith: 17, 30, 53, 55, 70, 136

Shell - 142 cm
146 cm TD

Expedition 374 Ross Sea: U1521 Site: A Hole: 28R Section: 3A Top Depth: 0

Major Lithology: clast poor sandy diamict Minor Lithology: mud rich Diatom - core

Offset (cm)	Drilling disturb.	Lithology				Color	Sec. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>AES</u>	Date: <u>1/8</u>
		C	St	Sd	G								
0													
10					Grey								
20					1/4								
30					Grey								
40					1/100								
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

0-30 cm: Diatom-bearing clast poor sandy diamict

Basalt: 13;

→ Radiolarians (~10%)

Sharp irregular contact @ 30 cm possibly flame structure

- greenish gray mud rich: Diatom

core Bioturb. green

Limestone @ 47-49 cm w/ laminae forming a "Galaxy" structure around the clast - other clasts also displaying this

Foram @ 59 cm Boundary uncertain due to drilling disturb.

65-126 cm: clast poor sandy diamict

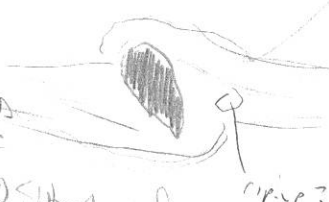
Faceted limestone 80-84 cm granodiorite (3cm ind.) (first time seen)

limestone: 95cm (black)

Foram: 117

126 cm TD

★ no baffle def. features uncertain if related to subglacial overmolds.



Expedition 374 Ross Sea: 01521 Site: A Hole: 28R Core: 4A Section: 0 Top Depth: 0

Major Lithology: clast. poor sandy diamict Minor Lithology: mud-rich foraminifera

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							ABS	1/13
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
42-45	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Dark Gray clast poor sandy diamict 0-44cm

streaks of mud → Bioturb? undulating (wavy lamination?) 30-33cm

mud-rich Bioturbated Diatom-coar. mud Irregular wavy contact

70-72cm Granodiorite lensstone 3cm wide Slightly faceted

TD 132 cm

Expedition 374
Ross Sea
 Clast Abundance

1521 A 28 0
 Site Hole Core Top Depth
BAK 1/18/18
 Observer Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	2	1	6	2	2			2	
10	3	3	4	2	2			0	
20	3	3	1	1	3				
30	2	5	0	1	1				
40	2	5	1	1	2				
50	4	3	1	2	1				
60	4	3	2	6	2				
70	3	1	3	0	2				
80	4	2	2	1	1				
90	4	2	4	1	<u>2</u>				
100	1	3	2	3					
110	1	7	2	0					
120	<u>0</u>	2	<u>2</u>	3					
130		2		<u>0</u>					
140		1							
150		<u>1</u>							

Expedition 374 Ross Sea: U1521 Site: A Hole: 29R Core: 1A Top Depth: 0

Major Lithology: dark grey sandy siltstone Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Rughin</u> <u>Km</u>	Date: <u>18/1</u>
		C	St	Sd	G								
0													
30	↑										0-3 cm ? fall in		
10	↑										Dark greyish grey		
20	↑										fine por... sandy siltstone		
30	↑												
40	↑										fine horizontal at 26cm		
50	↑										inclined contact at 42, 45cm		
60	↑										laminated low fines at 13, 23, 55, 115-117cm		
70	↑										low fines:		
80	↑										60, 16, 30, 57, 71, 87, 90, 107, 120 cm		
90	↑										mid-clust 9-81 cm		
100	↑												
110	↑												
120	↑												
130													
140													
150													

121 cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 29R Core: 2A Top Depth: 0

Major Lithology: clay part sandy diamicite Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Singh</u>	Date: <u>18/1</u>
		C	St	Sd	G								
0	↑												
10													
20						Glg 1							
30	///					4/104	⊗						
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

7-8cm
 0-72 cm
 dark greenish grey
 clay part sandy diamicite
 with faint vls network
 72-117 cm
 Inters. of clay part
 sandy diamicite with mud
 limestones (basals): 8, 9, 21, 22,
 29, 49, 53, 57-60 cm (mud?)
 66, 69, 85, 100 cm & many: faceted flat
 mud clast
 72-74 cm sharp mud contact
 90-91 cm mud blob
 92-93 cm mud contact

disturb
 due to disturbance
 upward
 92 cm

117
 cm

Expedition 374 Ross Sea: 41521 Site: A Hole: 29R Core: 3A Top Depth: 0

Major Lithology: dust poor sandy diorite Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Sung Kim</u> <u>km</u>	Date: <u>18/1</u>
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Dark greenish gray
dust poor sandy diorite
limestone (barite) : 8, 10, 14, 17,
22, 26, 69, 74, 110, 122, 126 cm

mud clast : 33, 61-62 (Several thin specks)
120 cm

131 cm

Expedition 374 Ross Sea: 41921 Site: A Hole: 29R Core: 4A Top Depth: 0

Major Lithology: ~~dark greenish gray~~ sandy diamict Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Sunghun Kim	Date: 10/1
		C	St	Sd	G								
0	↑					↑					Dark greenish gray		
10	↑										dark poor sandy diamict		
20	↑					6/9/1 4/10/2					20-24 cm black button (?) Pyrite		
30	↑						✓				lonosponges (basals); 11, 17, 60, 81-83 (in situ?), 87, 111-112 cm		
40	↑												
50	↑												
60	↑												
64	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
149	↑												
150	↑												

149 cm

Expedition 374 Ross Sea: 11521 A 29K 5A 0
 Site: Hole: Core: Section: Top Depth:
 Major Lithology: *clast poor sandy diamite* Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <i>Singhan</i>	Date: <i>18/1</i>
		C	St	Sd	G								
0	↑												
10	↑					<i>5/64</i>							
20	↑					<i>4/564</i>							
30	↑ <i>mod.</i>												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
93	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

12. ←

93
cm

Dark greenish gray
clast poor sandy diamite
lone stones (basalt):
2, 3, 5, 15, 17, 20, 25, 29, 37,
43, 47, 85, 86 cm
mud close: 30 cm

Expedition 374 Ross Sea: 41521 A 29R 6A+11 0

Major Lithology: *clay poor silty diamict* Site: Hole: Core: Section: Top Depth:

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	↑										S. Grayson 10/1 KEM	
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

Dark greenish gray
clay poor sandy diamict
shell frag mts: 4, 13-14, 47 (only in the w-half)
limestone (basalt): 10, 22, 31, 35, 37, 59-62cm

Gastropod

CC

Dark greenish gray
clay poor sandy diamict
- basalt matrix

I

65 cm

0

120

Expedition 374 Ross Sea: U1521 A 30R 1A 0

Major Lithology: Park grey conglomerate Site: Hole: Core: Section: Top Depth: Minor Lithology: Dark grey mud

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Dark grey Diatom-bearing conglomerate including lithified and mud clasts (0-89)

Basalt clays at 14.5, 20, 31, 56, 107.5, 111

Physically interbedded faint laminations of Diatom-bearing mud (89-123) (94-98) incomplete laminations that flame at the end with near complete laminations above and below

Thin interbeds of Dark grey Diatom-bearing conglomerate beds 107-112, 116-123

Color mottled or internal mixing of conglomerate above and muds below

very dark grey Diatom-bearing mud (123-139)

139cm

SS (90) (95)

SS (118)

SS (139)

N4

N4

N4

N3

N3

///

↓

///

89

107

116

123

Expedition 374 Ross Sea: V1521 Site: A Hole: 30R Core: 3A Top Depth: 0

Major Lithology: Diatom-rich clay, poor diamictite Minor Lithology: _____

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												
10												
20												
30												
40												
48												
50	1/r											
60												
70												
80												
86												
90												
100												
110												
120												
130												
133											133 cm	

clay poor muddy diamictite
 with intervals of physically
 intermixed irregular olive grey / ^{Diatom-rich} / massive
 48-55, 63-73, 104-111 (mud clasts),
 116-117, 131 to base of core
 (54 5/2) = lamina

lonestones: ○
 86-88cm, 107, 48, 4

Basalt: ●
 72.5, 24

Expedition 374 Ross Sea: U1521 Site: A Hole: 30 Core: 4A Top Depth: 0

Major Lithology: Diatom bearing dark grey clay sandy diamictite Minor Lithology: Dark grey diatom-rich mudstone

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	↑ ↓											
10											Diatom bearing dark grey clay sandy diamictite (0-55)	
20											Mud/clay clasts at 36.5, 39-40, 42-43.	
30											Basalt clasts: 21.5, 2, 33.5, 83, 82, 106, 112	
40												
50												
60											Dark grey diatom-rich mudstone (55-81)	
70											Dark grey diatom-bearing clay sandy diamictite (81-118.5)	
80											81-86 chert nodules	
90												
100											91.5-95 chert nodules	
110												
120												
130												
140												
150												

118.5

Expedition 374 Ross Sea: V1521 Site: A Hole: 30 Core: 5A Section: 0 Top Depth:

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

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

Dark grey diatom-bearing
clast poor sandy
diamictite throughout

With Basalt clasts at
4cm (ripup?), 18, 56,
95, 86, 78

Dropstones: 64, 8, 93, 109

mud clast: 58

114

Expedition 374 Ross Sea: V1521 Site: A Hole: 30 Core: 18 Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↔ ↓					BN	D					
20	PAL											
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Dark grey diatom-bearing clay poor sandy diamictite
Intact shell Bivalve 5-7

15.5
21

Expedition 374 Ross Sea

Clast Abundance

1521

Site

4

Hole

30R

Core

Top Depth

Romans

Observer

19/01/18

Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	CC Sec. 6	Sec. 7	CC	Memo
0	>10	2	1	3	4	4			
10	>10	2	2	3	6				
20	>10	2	4	2	3				
30	>10	3	0	5	2				
40	>10	2	2	3	3				
50	>10	4	1	1	3				
60	>10	4	2	0	5				
70	>10	3	1	0	6				
80	>10	2	3	7	5				
90	6	5	0	>10	5				
100	>10	9	1	3	4				
110	>10	0	2	3	2				
120	1	2	0						
130	3	0	0						Sec 1 mud clasts
140									
150									

139

Expedition 374 Ross Sea: U1521 Site: A Hole: 31R Core: 1A Section: 0 Top Depth:

Major Lithology: Dark gray diatom rich Minor Lithology: bioturbated mud

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												
10												
20						⊙						
30												
40												
50												
60												
70									SS			
80												
90												
100												
110												
120												
130												
140												
150												

Dark gray diatom rich mud
 Chert nodule
 16-24 cm
 Drilling disturbance
 Washed

68-82 cm: irregular laminae of light olive gray mud (SY-16/2)
 Two shell fragments ab 79 cm

101.5 cm

N/S

SS

2

|||||

⊙



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↑

~~XXXXXXXXXX~~

Expedition 374 Ross Sea: U1521 Site: A Hole: 31K Core: CC Section: 0c Top Depth:

Major Lithology: Minor Lithology:

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												
10	///					N6				Chert nodules 0-20cm		
20										20cm		
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Expedition 374 Ross Sea: U1521 Site: A Hole: 32R Core: CC Section: Ocu Top Depth:

Major Lithology: Minor Lithology:

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	→ ←						▽				Washed chert nodules	
10												
20											20cm	
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Expedition 374 Ross Sea: U1521 Site: A Hole: 33R Core: 1A Section: Oc Top Depth:

Major Lithology: Minor Lithology:

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	↑ ○○ ↓					N4	○		2		Washed chert nodules except for dark grey mudstone at 0-1 and 5-8 cm Up to 12 cm, measured along longest axis	
10						N4	○		2			
20												
30												
40												
50												
60												
70												
80										74.5cm		
90												
100												
110												
120												
130												
140												
150												

Expedition 374 Ross Sea: U1521 Site: A Hole: 33R Core: CC Section: 0c Top Depth:

Major Lithology: Minor Lithology:

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	PAZ											
10	↑					○				Washed chert nodules, up to 8.8 cm (along longest axis)		
20	↓									21 cm		
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Expedition 374 Ross Sea: U1521 A 342 1A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑ ↓					N4							
10						N4	⊙				5		
20						N4	⊙				16		
30						N4	⊙				25.5		
40						N4	⊙				34.5		
50						N4	⊙			SS	41		
60					N4	⊙				46			
70										55			
80										60			
90										64			
90										85.5 cm			
100													
110													
120													
130													
140													
150													

Expedition 374 Ross Sea: U1521 A 34R CC 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

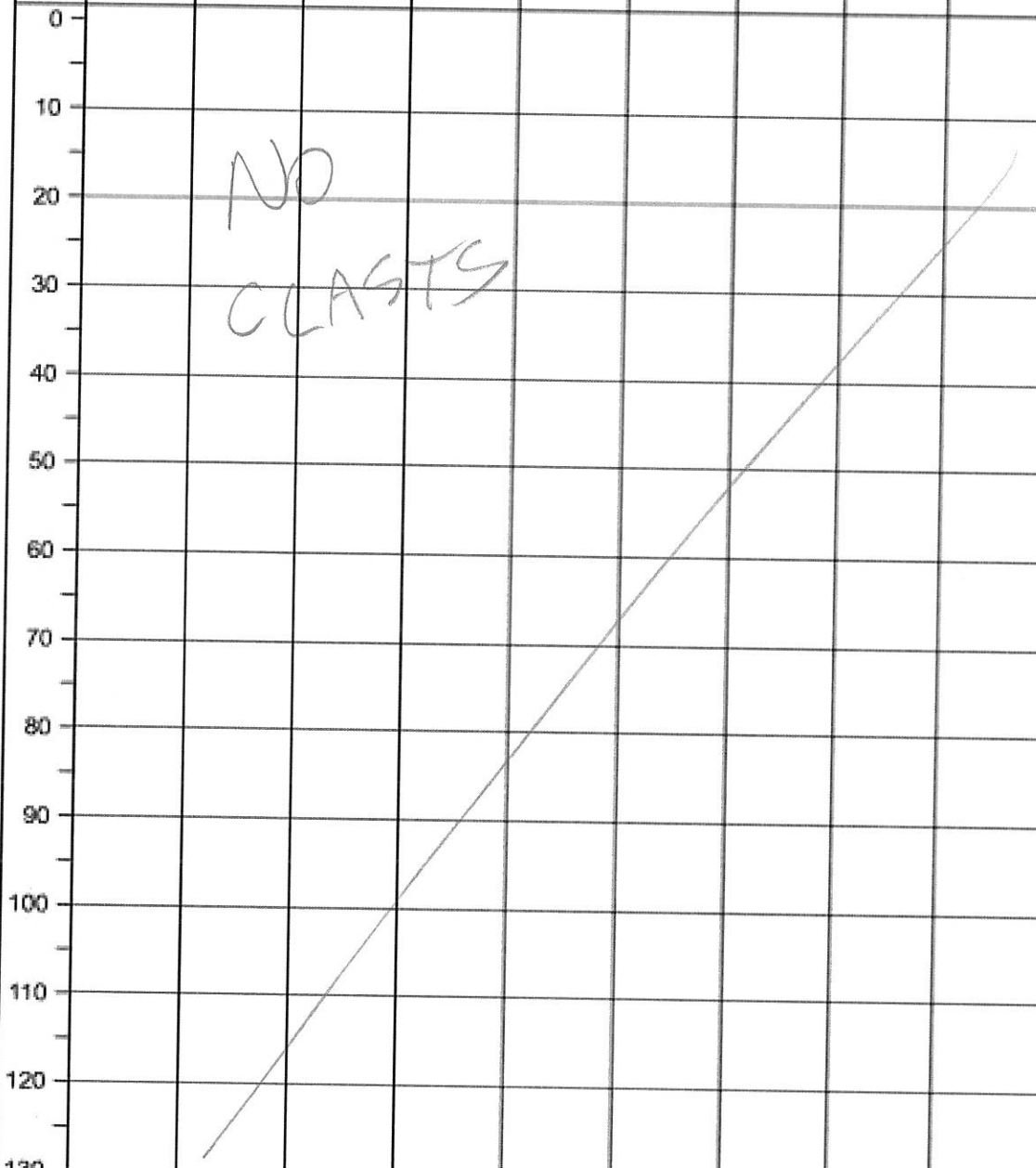
Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
		C	Si	Sd	G							
0	→ OO					N/G					Washed chert nodules max 7.2 cm along longest axis	
10												
20										24cm		
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Expedition 374
Ross Sea
Clast Abundance

V1521 A 34R _____
 Site Hole Core Top Depth
IS _____ 22/01 _____
 Observer Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0									
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

NO
 CLASTS



Expedition 374 Ross Sea: U1521 A 3SR 1A 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
		C	SS	SL	G							
0										Washed chert nodules up to 5.5 cm Gray mudstone chertone rich?		
10												
20						SY						
30						S/I						
40												Washed chert nodules up to 5.5 cm.
50												Carbonate-semented clast-rich muddy diamictite
60											SS (59)	
70										68.5 cm		
80												
90												
100												
110												
120												
130												
140												
150												

Alternative:
silica cemented
mudstone

Expedition 374 Ross Sea: U1521 Site: A Hole: 3SR Core: 2A Top Depth: 06m

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
		C	Sl	Sd	G							
0	↑					SY					Dark gray muddy diamictite grading into sandy diamictite Washed chert nodules ↓ 4.7cm Dark gray sandy diamictite Thin layer of mud at 43cm Washed chert nodules ↑ 8.1cm → Silicacemented <u>mudstone</u> Basalt 10cm, 7cm	
10						4/1						
20												
30												
40						SY						
50						4/1				SS (42)		
60												
70												
80												
90												
100	↓					SY				Dark gray sandy diamictite		
110						4/1						
120												116cm
130												
140												
150												

Expedition 374 Ross Sea: U1521 A 35R 3A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
		C	St	Ed	G							
0	↑ ↓						▽					
10						SY 4/1	▽			Silicemented mudstone Dark gray sandy diamicton Silicemented mudstone		
20						SY 4/1				Dark gray sandy diamicton		
30						SY 4/1						
40						SY 4/1	▽				Silicemented mudstone	
50						SY 4/1					Dark gray sandy diamicton Silicemented mudstone	
60							▽					
70											Lowstone, granite 8cm	
80						SY 5/1					Gray muddy diamicton	
90												
100										101.5cm		
110												
120												
130												
140												
150												

Expedition 374 Ross Sea: U1521 Site: A Hole: 3SR Core: CC Section: _____ Top Depth: _____

Major Lithology: _____ Minor Lithology: _____

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
		C	Si	Sd	G							
0	↑ ○ ↓	○	○	○	○	Sy S/L					Gray muddy diamicton	
10	PAL											
20	↑ ○ ↓	○	○	○	○	Sy S/L					Gray muddy diamicton	
30											24cm	
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Expedition 374 Ross Sea: U1521 A 36R 1A OCL
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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:	
									YBL	19/11	
0	↑ ↓							Gray silica cemented mudstone			
10			N6								
20									Gray, clast-rich sandy diamicton weakly stratified		
30											
40											
50				SY S/1					19-29 intermixed intraclasts layer with grains elongated		
60											
70									60-82 cluster of large diverse clasts that range from subangular to subrounding with faint stratification		
80											
90											
100											
110											
120				N6					Gray silica cemented mudstone		
130				SY S/1					Gray, clast-rich sandy diamicton		
140									135 cm		
150											

Expedition 374 Ross Sea: U1521 Site: A Hole: 36R Core: 2A Section: OC Top Depth:

Major Lithology: Minor Lithology:

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	↑ ↓					NS							
10						N6					intermixed 0-18cm <u>clast rich sandy diamictite</u> → and muddy diamictite Faint stratification of clasts		
20						NS					12-13 dropstone		
30						N6					18-36cm <u>clast rich muddy diamictite</u>		
40						NS					36-44cm <u>clast rich sandy diamictite</u>		
50						N6					44-53cm <u>clast rich muddy diamictite</u>		
60						NS					53-84 <u>intermixed clast rich muddy and sandy diamictite</u>		
70						N6					53-54.5 cm <u>vesicular dropstone</u>		
80						NS					84-116 <u>clast rich sandy diamictite</u>		
90						N6					116-148 <u>clast rich muddy diamictite</u>		
100						NS					Basalt clast: 7, 32, 132.5		
110						N6							
120						NS							
130													
140													
150												148 cm	

- Clasts range from subangular to subrounded
- clasts are diverse in composition ^{igneous metamorphic & sedimentary} with less basalt and more vesicular
- Decimeter scale interbeds of clast rich muddy and sandy diamictite
- trace carbonate and biogenic silica
- Silica cemented (no fizz)

METHODS-C-F1

Expedition 374 Ross Sea: V1521 Site: A Hole: 36A Core: 3A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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															
10														0-30cm clast rich muddy diamictite	
20														30-48cm clast rich sandy diamictite that grades into clast rich muddy diamictite at 47cm.	
30														47-56 clast rich muddy diamictite	
40														56-82 clast rich sandy diamictite	
50														82-86 intermixed clast rich sandy and muddy diamictite	
60															
70															
80															
86															86cm
90															
100															
110															
120															
130															
140															
150															

→ clast characteristics similar to section 2A
 → continuation of ~~the~~ scale interbeds of clast rich muddy and sandy diamictite

Expedition 374 Ross Sea: V1521 Site: A Hole: 36R Core: CC Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑ 00 ↓									Siliceous cemented nodules from core disturbance		
10												
20												
30		PAL									30	
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

→ Drilling disturbance is washed

Expedition 374
Ross Sea
 Clast Abundance

U521 A 36K 0
 Site Hole Core Top Depth
 Jca _____ R101/2018
 Observer Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0		>10	>10						
10		>10	>10						
20	>10	>10	>10						
30	>10	>10	>10						
40	>10	>10	>10						
50	>10	>10	>10						
60	>10	>10	>10						
70	>10	>10	>10						
80	>10	>10	>10						
90	>10	>10	>10						
100	>10	>10							
110	>10	>10							
120	>10	>10							
130	>10	>10							
140	>10	>10							
150		>10							

Expedition 374 Ross Sea: U1521

Site: A

Hole: 37

Core: 1A

Section: 0

Top Depth:

Major Lithology:

Minor Lithology:

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	1/19
0	↑												
10	↓ 8cm										dark greenish gray		
20							□				Bioturbated diatom-bearing mudstone with silica cemented intervals + shell fragments throughout		
30							□				light gray (Gley 7/1)		
40							□				Silica cement: 19-20cm		
50							□				29-35 cm, 42-46		
60	X						□				72-80, 86-90, 110-123, 131-137		
70							□				Shell frags: 25 cm, 36, 59, 62, 81		
80							□				93, 96 → 137, larger @ 132 cm		
90							□				Lonestone: 86-87		
100							□						
110	↑ 115						□						
120	↓ 123						□						
130							□						
140												137cm TD	
150													

Expedition 374 Ross Sea: U1521 A 37R 2A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/19
0													
10													
20					Gley						Light greenish gray 0-32 - mudstone w/ mod. bioturbation		
30					S/10x								
40					Gley						Bioturbated contact @ 32 cm		
50					6/n						Lonestone: 41, 50		
60											32-61 Gray Sand-rich mudstone w/ lonestones laminated/stratified		
70											color change + undulating contact @ 61		
80											lt gray clast poor muddy diamict		
90					Gley						Lonestone: 67, 81, 89, 92 94, 99-101, 107, 109, 120		
100					7/n								
110													
120													
130					Gley						131 Gray clast poor sandy diamict		
140					6/n								
150											141 cm		

Expedition 374 Ross Sea: U1521 A 37R 3A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Interbedded sand + mud diamictite Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by:	Date:	
		C	Sl	Sd	G							AES	1/19	
0	↑ ○○○ ↓					grey					Interbedded sand + mud diamictite			
10						slty					0-19 massive. clast-rich sandy diamictite			
20		////				grey	///	→			19-26	clast rich muddy diamictite		
30		////				grey	///	↕			26-42	clast rich sandy diamictite		
40		////				grey	///	↑			42-50	clast poor muddy diamictite		
50		////				grey	///	↓			50-64	clast rich sandy diamictite		
60		○○○				gn		φ				Shell frag @ 55		
70		////				grey	///	↕			64-70	clast poor muddy diamictite		
80		////				grey	///				70-100	clast rich sandy diamictite		
90		////				gn					100-129	clast rich muddy diamictite		
100		////				grey	///	↑			129-139	clast poor sandy diamictite		
110		////				grey	///	↕				Longstone: 112-113 (light)		
120		////				grey	///	↓						
130		////				grey	///							
140					grey	///				138cm				
150														

Expedition 374 Ross Sea:

U1521

A

38R

1A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology: *int. bedded muddy + sandy diamictite* Minor Lithology: *massive*

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/19
		C	St	Sd	G								
0													
0-15					Gt/n								
15-48					G/n								
48-65					S/n								
65-138					G/n								
138-140					G/n								
140-150					S/n								

0-15 clast rich muddy diamictite with silt cement, massive

15-48 cm clast-rich sandy diamictite massive

44 - Shell frag

48-65 clast rich muddy diamictite massive

lonestone: 58-59 cm } ign.
60-64 cm }

65-138 clast-rich sandy diamict

Vein network 77-91

102-103 cm → slight stratification? shadowing

lonestone: 104, 109-111, 119-121 } facted.

→ Muddy interval forming boudin-like around two clasts

139
IW

Expedition 374 Ross Sea: U1521 Site: A Hole: 38R Core: 2A Top Depth: 0

Major Lithology: massive sandy clast rich diamictite Minor Lithology:

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	1/19
0													
10											massive clast rich sandy diamictite w si cement		
20						G-lvl 6/n							
30													
40											36-37 - lense stone		
50											78-79 - lense stone		
60											more cemented above 54 cm		
70											83-95: si cement		
80											massive clast rich sandy diamictite		
90						G-lvl 5/n							
100													
110													
120													
130													
140											Rubble → maybe lense stone?	136-140	
150											-145 cm		

Expedition 374 Ross Sea: UISZI A 40R 1A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: clast-rich sandy diamictite Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/19
		C	St	Sd	G								
0													
10	↓												
20													
30													
40													
50													
60	↓												
70													
80													
90													
100													
110													
120													
130													
140													
150													

Massive clast rich
 sandy diamictite
 w/ intervals of siltment
 siltment 92-103 cm

58-65 cm - mod fract Drilling Dist

144 cm

Expedition 374 Ross Sea: VIS21 A 40R 2A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

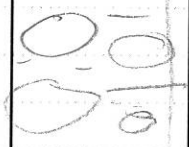
Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/19
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

massive clast-rich sandy diamictite

24-25 fine mud laminae

59-64 cm si cement

121 TD



61cm
3ln
4ln



Expedition 374 Ross Sea: 01521 Site: A Hole: 41 Core: 2A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑										AES	1/19	
10													
20	L									massive clast rich sandy diamictite w/ intervals of si cement			
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

massive clast rich sandy diamictite w/ intervals of si cement

Glex
B/n

Glex
Sn

114-142: Si cementing

142 cm TD

Expedition 374 Ross Sea: DIS21 A 41R 3A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/19
0													
10													
20													
30													
40													
50	///	oio			grey								
60					4n								
70													
80													
90													
100													
110													
120					grey								
130					5n								
140													
150													

massive clast rich sandy diamictite w intervals of Si cement

Si cement 97 - 121 cm

121 cm TO

Expedition 374 Ross Sea: U1521 A 41R 4A+CC ①
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/19
0	↑												
10													
20													
30	///												
40		○											
50													
60													
70													
80													
90													
100		CC											
110		○											
120													
130													
140													
150													

massive clast rich sandy micaceous

concretion? Si 43-46 cm

80 cm TO

Si cement 0-10 cm

PAL 15

Gley 4/n

Gley 7/n

Gley 4/n

Gley 4/n

Expedition 374 Ross Sea:

U1521

Site:

A

Hole:

42R

Core:

1A

Section:

0

Top Depth:

Major Lithology:

Minor Lithology:

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	1/19
0	↑												
10	↑ ↓												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130													
140													
150													

clast-rich sandy diamictite
massive w/ si cementing

25-32: }
63-75 } si-cementing
107-119 }

118 cm

Expedition 374 Ross Sea: U1521 A 42R 2A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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											AES	1/19	
10										massive clast-rich Sandy diamictite			
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

73 cm Basalt

147 cm

Gley
H/n

Expedition 374 Ross Sea: 01521 A 42R 3A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/19
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

massive clast rich sandy diamictite w variable clast lithology

Sand stringers 91-97 cm
 microfault 97cm 128-129
 Fawnish - sandy bleb lens 103-105cm
 discant mud laminae 108-111 cm
 112-115 cm truncation
 138cm muddy

Same as Above! 13 cm

Expedition 374 Ross Sea

Clast Abundance

Site: 1521
Hole: 42
Core: A
Top Depth: 0
Observer: BAK
Date: 1-18-18

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	3	>10	7					>10	
10	7	>10	>10					<u>2</u>	
20	>10	>10	>10						
30	8	>10	>10						
40	>10	>10	>10						
50	>10	>10	>10						
60	>10	>10	>10						
70	9	>10	>10						
80	>10	>10	>10						
90	>10	>10	>10						
100	>10	>10	>10						
110	>10	>10	>10						
120		>10	>10						
130		>10	>10						
140		>10							
150		<u>>10</u>							

Expedition 374 Ross Sea:

U1521

A

43R

JA

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Sanghan KTM	Date: 19/1
		C	St	Sd	G								
0													
10					blgy 5/10Y					0-7 cm greenish gray clay rich sandy diamite			
20					6/10 9Y					7-48 cm inter laminated sandy diamite with mud.			
30										42-50 soft sediment deformation flame structure with 6mm cementing			
40										50-149 cm dark greenish gray massive clay rich sandy diamite with 5-6mm cementing			
50													
60													
70													
80					6/10 4/5GY					flame structure in other laminae as well			
90													
100													
110										5-10 cement: 90-106 cm 145-149 cm			
120													
130													
140													
150													

149 cm

Expedition 374 Ross Sea: 41521 Site: A Hole: 43R Core: 2A Top Depth: 0

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>W. J. King</u>	Date: <u>19/1</u>
		C	St	Sd	G								
0													
10		oo				Grey							
20	///					4/400							
30													
40													
50													
60													
70													
80		ooo											
90													
100													
110													
120													
130													
140													
150													

Dark greenish gray. matrix
 coarse with sandy driller
 with 51 cement

51 cement: 65-71 cm

~~conglomerate~~
 Coarse sand - gravel stringer at 91-92 cm
 with fine mud laminae at 94-98 cm
 chaotic coarse sand - gravel patches
 at 82-85, 100-104 cm

~~inclined~~ gradual or unclear
 contact at 94-98 cm

114 cm

Expedition 374 Ross Sea: 41921 A 44R 1A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Singhani 4/21	Date: 19/1
		C	St	Sd	G								
0													
10	↑												
20						Gly 1 3/10X							
30													
40													
45													
50													
55													
60													
65													
70													
75													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray
 silt mud laminae
 clay rich sandy diatomite
 dark
 42-47 m vein network
 64-74
 115-124 cm
 longiferae: 40-42, 55, 122-123 cm
 mud clast: 51, 104
 shell frags: 102 cm

138
 cm

Expedition 374 Ross Sea:

U1521
Site:

A
Hole:

44R
Core:

2A
Section:

0
Top Depth:

Major Lithology:

Minor Lithology:

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	1/19
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

massive w
interbeds of clast-poor +
clast-rich diamictites

w vein network throughout
(faint)

77 on shell fragments
123

φ

φ

148 cm

Expedition 374 Ross Sea: U1521 A 44R 4A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/19
0	↑												
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Clast poor sandy diamictite
 w/ vein network throughout
 24 cm pink concretions small

85 cm: fossiliferous limestone (conglomerate)

105 cm Shell frag

150 TD

Expedition 374 Ross Sea: U1521 A 44R 6A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/2
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
125	↑												
130	↑												
140	↑												
150	↑												

Massive clast-rich sandy diamictite

vein network throughout

64 shell frag.

125 cm TD



grey
3/10x



Expedition 374 Ross Sea: U1521 A 44R 7A+CC 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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											AES 1/19	
10												
20												
30												
40												
50												
52										52cm TD		
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

massive
 Clast poor sandy diamictite
 w/ root network throughout

38-48 fine mud laminae

52cm TD

Gley
 s/lay

Gley
 3/lay

PAL

0
 10
 16

Expedition 374 Ross Sea: U1512 A 4SR 1A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑												
10													
20													
30													
40													
45						deyl 3/104	XXX	δ					
50													
55													
60													
65													
70													
80													
90													
100													
110													
115													
117													
120													
130													
140													
150													

Possible fall in to 7 cm?
 massive
 clast-poor sandy
 diamictite w/ faint
 vein network.
 40 shell frag

117 cm TO

Expedition 374 Ross Sea: U1521 Site: A Hole: 45R Core: 2A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	1/19
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

clast poor sandy diamictite w/vein network

Glet
3/104

117 shell frag

150cm TD

Expedition 374 Ross Sea: U1521 A 45R 5A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/19
0	↑												
10	↑												
20	↑												
30	↑						XX						
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
125	↑												
130	↑												
140	↑												
150	↑												

massive
 clast poor sandy diamictite
 w/ vein network

fine laminations from
 49-61 cm

limestone 73-74 w/ pink
 staining around.

fine laminar
 carb. concretion
 inclined sharp contact? 81-83cm

Faceted limestone 124-125cm
 125cm TD

Expedition 374 Ross Sea: U1521 A 46R 1A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							Singham	19/1
0	↑										v. dark greenish gray massive clast poor sandy diamictite faint vein structure 0-12.9 cm carbonate 32 cm v. concretion shell fragment at 47 cm (Lanthe (Lion))		
10	↑												
20	↑												
30	↑					Glog / 3/104		⊙					
40	↑						⊗						
50	↑						⊕						
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140													
150													

124
3

Expedition 374 Ross Sea: U1521 Site: A Hole: 46R Core: 2A Top Depth: 0

Major Lithology: Minor Lithology:

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							Singhan	12/11
0	↑												
10													
20					Gray								
30													
40	///												
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

↓ *Discostinoides*
 19, 20 cm faint laminae
 Very dark greenish gray
 massive & last poor sandy
 distinct (0-142 cm)
 45 cm calc. concretion

100-105 cm faint laminae

137-134 cm faint laminae

142 cm

Expedition 374 Ross Sea: U 1521 A 46R 3A 0
 Site: _____ Hole: _____ Core: _____ Section: _____ Top Depth: _____

Major Lithology: _____ Minor Lithology: _____

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											V. dark greenish gray massive clay poor sandy diamictite 0-32, 45-86 cm laminae at 5, 7, 32-45 cm clear vein network with cemented carbonate limestone at 50-52 cm	Sungkan 19/1 km
10												
20												
30												
40												
50												
60												
70												
80												
86												
90												
100												
110												
120												
130												
140												
150												

86 cm

Expedition 374 Ross Sea: U1521 A 46R 4A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							Wen	19/1
0	↑	↑								V. dark greenish gray	Wen	19/1	
10	↑	↑								clay poor sandy diamicrite			
20	↑	○			6/10					0-35cm			
30	↑	○			4/10					inclined contact at 2-7cm			
40	↑												
50	↑												
60	↑									limestone at 40-41cm			
70	↑									6cm last laminae			
80	↑												
90													
100													
110													
120													
130													
140													
150													

85 cm

Expedition 374 Ross Sea: U1521 4 46R 1C
 Site: _____ Hole: _____ Core: _____ Section: _____ Top Depth: _____

Major Lithology: _____ Minor Lithology: _____

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	↑ ↓	--○				6/10/1					v. dark greenish gray dark poor sandy dark etc	Sample 19/1 4/11
10		○--				4/10/1						
17 cm		PAL								PAL		
22 cm												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Expedition 374 Ross Sea: U1521 A 47R 1A 0
 Site: Hole: Core: Section: Top Depth:

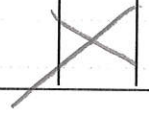
Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>ja</u>	Date: <u>19/11</u>
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
30	↑												
35													
40													
45													
50	///												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
145													
150													

Dark gray, massive, clay-rich muddy diamictite

NCI

142.5



Expedition 374 Ross Sea: U1521 Site: A Hole: 47R Core: 2A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

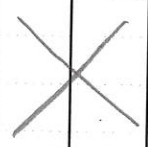
Dark gray, massive, clay-rich muddy diamictite
 Foram fragments at 26cm?

Shell fragment at 49.5cm?

shell frag at 109cm?

135cm

N4



Expedition 374 Ross Sea: U1521 Site: A Hole: 4AR Core: 4A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

Dark gray, massive - weakly stratified, clast-rich muddy diamictite

Weakly stratified:
 - 25 + 90 cm
 - 22 - 91 cm

131 cm

N4

Expedition 374 Ross Sea: U1521 Site: A Hole: 47R Core: SA Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Dark gray, massive clay-rich muddy diamictite with cm thick intervals of weak stratification

Weakly stratified:
53-65 cm
5-14 cm

145 cm

X

Expedition 374 Ross Sea: U1521 Site: A Hole: 47R Core: 6A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
35												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Dark gray, massive
clast-rich muddy
diamictite with
cm-thick intervals
of weak stratification

Weakly stratified:
-68-99 cm
-122-133 cm

N4

145 cm

Expedition 374 Ross Sea:

V1521

A

48B

1A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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	↑												
10	↑												
20	↑			●									
30	↑			●									
40	↑												
50	↑												
60	↑	○		●									
70	↑	○		●									
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Very dark greenish grey
Massive to very weakly interbedded (cm)
of clast poor to clast rich
Sandy diamictites

Foram fragments: 9, 17(?),
138 (cross section view)

mud clasts: 24, 112, 15

Shell fragment: 77, 14 (in crack)

clay composition diverse

limestone: 18, 57, 112

bleys: 3/N

138cm

Clast poor?

Expedition 374 Ross Sea: V1521 Site: A Hole: 4BA Core: 4A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

very dark greenish grey
Massive clay poor to
clay rich sandy
diamicite

0.0:0.0
1.1:0.10

clay I 3/4

Lone Stone: 61-62, 80-82,
35.5-37, (rip up?)

Shell Fragments: 49,

Mud clasts:

Foram Fragments: 14.5

carbonate concretions

149cm

Expedition 374 Ross Sea: V1521 Site: A Hole: 48A Core: 5A Section: ① Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑	0.1.0	0.0.1	0.1.0								
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

very dark greenish grey
massive, clast part to
clast rich sandy diamictite
→ with
gradational
interbeds
[Signature]

Mud clasts: 21
Foram frags: 52.5
Carbonat concretions

143.5

Expedition 374 Ross Sea: VISZ1 A UBA 6A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10												
20												
30												
40												
50												
60	///											
70												
80												
90												
100												
110												
120	↓											
130												
140												
150												

very dark greenish grey
 Massive with gradational
 interbeds of clay poor
 to clay rich sandy diamictite

Faint
 vein network: 0-18?

Limestones: 19.5-21.5, (Granite)
 15-16 (Granite)

Fossil Fragment: 76.5

Pyrite grain: 16.5, 88.5

→ Fossil What?

120.5

Expedition 374 Ross Sea: UISZ1 Site: A Hole: 48A Core: 7A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	≡											
40	↑											
50	↑											
60	↑											
70	↑											
75												
80												
90												
100												
110												
120												
130												
140												
150												

very dark greenish grey
massive clast rich sandy
Diamictite

60% 1 3/4

Fossil frag: 13.5, 66.5

↳ What?

75cm

Expedition 374 Ross Sea: V1521 Site: A Hole: 49R Core: 1A Section: 0
 Major Lithology: Minor Lithology: Top Depth:

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	↑	↑										
10												
20												
30												
40												
50												
60		0.0.0.0										
70												
80												
90												
100												
110												
120												
130												
140												
150												

Very dark greenish grey
 Massive clast poor to clast
 rich sandy diamictite

level 3/N

Foram Frag: 6,

Carbonate concretions at 104cm,
 70

110.5

Expedition 374 Ross Sea: U1521 Site: A Hole: 49R Core: 2A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑									Very dark greenish grey		
20	↑									Mussive to weakly stratified		
30	↑									clast poor to clast rich		
40	↑									Sandy diamictite		
50	↑											
60	↑											
70	↑									lonestones: 52, 95		
80	↑									Foram Fragment: 64		
90	↑									What		
100	↑									Fossil fragments: 121, 103.5, 29		
110	↑											
120	↑									carbonate concretion: 125, 112,		
130	↑											
132.5												
140												
150												

clay 1 3/M

What

Expedition 374 Ross Sea: VISZIA Site: A Hole: 49K Core: 3A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑									very dark greenish gray massive to very weakly interbedded clast poor to clast rich sandy diamictite		
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑									Love stones: 95, 98.5		
90	↑									(Fossil) Fragments: 93		
100	↑									Carbonate concretions: 80, 63.5, 67, 77, 91.5		
110	↑											
120	↑											
130	↑										131cm	
140	↑											
150	↑											

What

Expedition 374 Ross Sea: V1521 Site: A Hole: 49A Core: 4A Section: 0
 Top Depth: _____

Major Lithology: _____ Minor Lithology: _____

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	↑											
10	↑									very dark greenish grey massive clast poor to clast rich sandy diamictite		
20	↑											
30	↑											
40	↑									Lonestone: 15, 79, 121.5, 129.5		
50	↑											
60	↑									Carbonate cementation 61,		
70	↑									Faint vein network: 36-44		
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

149cm

Expedition 374 Ross Sea: V1521 Site: A Hole: 49R Core: 5A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10											Very dark greenish grey massive clast-poor to clast-rich sandy diamictite	
20												
30												
40												
50												
60												
70											Core Stone: 12-13, 72-73, 77-80.5	
80											Feram Frag: 36, 108	
90											Fossil Fragment: 68	
100												
110											Bivalve Fragment: 27-28	
120												
125												125 cm
130												
140												
150												

What?

igneous

6/ey I 3/N

Expedition 374 Ross Sea: V1521 Site: A Hole: 49R Core: 6A Top Depth: 0

Who →

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Who</u>	Date:
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Very dark greenish grey massive clast-poor to clast-rich sandy diamictite

Lonesponges: 85-86, 95-101

Fossil fragment: 105.5

What →

6ley I 3/N

15 cm

Expedition 374 Ross Sea: V1521 Site: A Hole: U9A Core: 7A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑	↑				↑				Very dark greenish grey Massive clay-rich to clay poor sandy diamictite		
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Gley I 3/10

Fossil Fragment: 22-23,

Limestone: 24, 25.5, 53-55

carbonate concretions: 29.5,

88cm

Expedition 374 Ross Sea: V1521 Site: A Hole: 49A Core: 8A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

very dark greenish grey
massive clast rich to
clast poor sandy diamictite

Fossil fragment: 49.5
Carbonate concretin: 28.5

6ley I 3N

69

Expedition 374 Ross Sea:

U1521

A

SOR

1A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

Very dark greenish grey
Massive clast-rich to clast-poor
sandy diamictite

Faint vein network throughout

Love tubes: 97-98, 110.5-111.5

Fossil fragments: 82, 125.5

61ey I 3/104

152 cm

Expedition 374 Ross Sea: V1521 Site: A Hole: SOR Core: ZA Section: 0 Top Depth: 0

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

very dark greenish grey
 Massive clay-rich to clay-poor sandy diamictite
 ss (0-17 & 23.5-150.5)
 ss = 19cm
 inclined (17-23.5) Bed of clay 5/4
 Dark greenish grey mudstone intermixed with flame structures at the top with an wavy sharp contact at the base. The top is also a sharp contact.

Fossil Frag: 127.5, 123.5, 124

limestone: 101 (extr. igneo), 98-99, 60.5-65.5
 56.5-58, igneous

Foram: 123 (or small concretion)

Extrusive mafic

28
3

mafic igneous

igneous

150.5

Expedition 374 Ross Sea: 01521 Site: A Hole: SOR Core: 3A Top Depth: 0

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Very dark greenish grey massive clast-rich to clast poor sandy diamictite with interbeds of dark greenish grey mudstone.

(19-21) intermixed mudstone

(23.5-29) bed of mudstone with ^{upward} flame structures on upper boundary with sharp bottom boundary

(34-47) bed of mudstone with sharp upper boundary and wavy base with flame structures

limestone: 30.5-32

Faint vein network throughout

128.3

29-34 clast poor sandy diamictite

clast poor sand

Expedition 374 Ross Sea: V1521 Site: A Hole: SOR Core: 7A Top Depth: 0

Major Lithology: Minor Lithology:

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	↑						↑				Dark greenish grey sandy MVD with dispersed clasts.	
10							↑				interlaminated throughout where laminations are offset and display shearing in lower portion starting at (34) and planar above that	
20							↑				intermixing of sandy mudstone with dispersed clasts	
30							↓					
40							↓					
50							↓					
60							↓					
70							↓					
80							↓				Carbonate cement: 39	
90							↓				Dropstones: 31-34 (granite), 63-65, 121	
100							↓				Fossil Fragments: 59-60	
110							↓					
120							↓					
130							↓					
140							↓					
150	↓						↓					

Expedition 374 Ross Sea: V1521 A SOR CC 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑ // ↓	[Handwritten symbols]				N/C T-21A					Sandy mudstone with dispersed clasts (dark greenish grey)	
10		PAL										
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

17

Expedition 374 Ross Sea:

01521

SIR

1

A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Dark greenish gray sandy mudstone ~~to 100 cm~~

m/z 1 layer

Ironstone: 43-45, 73, 101,

Fossil Fragment: 46, 85, 5

Expedition 374 Ross Sea: V1521 SIR Z A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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						clay / siltstone					Dark greenish grey Sandy mudstone	
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Lonestones: 17, 20.5,
 Carbonate concretions: 35-37 (x2),
 66.5

74

Expedition 374 Ross Sea:

U1521

SIR

2

CC

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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							
0	↑											
10	W ↓											
20						Color 1 10-10						
23											1-8	
25											73	
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

PAL

Dark greenish grey sandy
Mudstone ~~clay part~~

Expedition 374 Ross Sea: U1521 Site: ATA Hole: 52R Core: NA Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑									Dark greenish grey → interbedded w/ sandy mudstone to last por. Diamicite		
20	↑									interbed of carbonate cement sandy mudstone with dispersed clasts at (84-96)		
30	↑											
40	↑											
50	↑									Faint vein network throughout		
60	↑									lonestones: 30-31, 118-120		
70	↑											
80	↑									carbonate concretions: 49.5, 17, 48, 79, 118-120		
90	↑											
100	↑									fossil fragments: 36.5		
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

interbedded w/

141

Expedition 374 Ross Sea: V15211

A

52R

ZA

Site: _____ Hole: _____ Core: _____ Section: _____ Top Depth: _____

Major Lithology: _____ Minor Lithology: _____

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	↑											
10	↑									Dark greenish grey Sandy mudstone class poor		
20	↑											
30	↑											
40	↑									Faint vein network throughout		
50	↑											
60	↑											
70	↑									limestone: 135, 27, 19		
80	↑									Fossil frag: 61-61.5, 45-46 (s)		
90	↑											
100	↑									carbonate concretions: 101-104, 42.5		
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

143

Expedition 374 Ross Sea: V1521 Site: A Hole: 52R Core: 3A Top Depth: 0

Major Lithology: Minor Lithology:

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												
10											Dark greenish grey Sandy mudstone clast poor	
20												
30												
40												
50												
60											Faint vein network throughout	
70												
80												
90												
100											limestone: 84-85, 88, 5, 19.5, 81,	
110											Fossil Frag: 45,	
120											carbonate concretions: 101, 24 101, 102, 103, 104, 105	
130												
140												
150												

Expedition 374 Ross Sea: V1521 Site: A Hole: 52R Core: 4A Section: 0
 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10		●									Dark greenish grey clast	
20		●									poor sandy mudstone	
30												
40												
50							X				Faint vein network throughout	
60	///											
70		■									Lonestone: 6, 17, 63, 64, 68, 113.5	
80												
90												
100												
110												
120		●										
130												
140												
150												

128

Expedition 374 Ross Sea: V1521 Site: A Hole: S2R Core: SA Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑										Dark greenish grey - last poor sandy mudstone	
20	↑											
30	↑											
40	↑											
50	↑										Faint vein network	
60	↑											
70	↑											
80	↑											
90	↑											
100	↑										Limestone: 33-34, 52-53, 133, 141	
110	↑											
120	↑										Carbonat concretions: 9 small 58.5-63 (Dispersed), 109	
130	↑											
140	↑											
150	↑											

Expedition 374 Ross Sea: V1521 Site: H Hole: 52R Core: 6A Section: 0 Top Depth:

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												
10										Dark greenish grey clast-poor sandy mudstone		
20												
30												
40												
50										Faint vein network throughout		
60												
70												
80										Ironstones: 14, 26.5, 109.5		
90										Gastropod? 93 101.2		
100										Carbonate concretions: 3, 54, 93, 10		
110												
120											115	
130												
140												
150												

V1521

H

52R

6A

0

115

Expedition 374 Ross Sea: V1521

Site: A

Hole: 53R

Core: 1A

Section: 0

Top Depth: 0

Major Lithology:

Minor Lithology:

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	1/20
0	↑	↑								Dark greenish grey clast, poor sandy diamictite massive. w/vein network			
10	↑	↑											
20	↑	↑								CaCO ₃ conc: 27, 34, 92			
30	↑	↑			Grey	×	⊖						
40	↑	↑			3/10					shell frag: 62			
50	↑	↑											
60	↑	↑					⊖		SS				
70	↑	↑											
80	↑	↑											
90	↑	↑					⊖						
100	↑	↑											
110													
120													
130													
140													
150													

101 cm TD

Expedition 374 Ross Sea: U1521 A 53R 2A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/20
0													
10											massive clast poor sandy diamictite		
20													
30													
40											CaCO ₃ conc: 53, 72		
50													
60													
70													
80													
90													
100													
110													
120													
130													
140											139-143: vein networks Cement		
150											143 cm TD		

Expedition 374 Ross Sea:

UIS21

A

53R 7

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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	1/20
0	↑										massive clast-poor Sandy diamictite w faint vein network		
10	↓												
20	↕												
30	↕												
40	↕										CaCO ₃ conc: 43 121		
50	↕												
60	↕												
70	↕												
80	↕												
90	↕												
100	↕												
110	↕												
120	↕												
126													
130											126 TD		
140													
150													

Gley
3/10x

126 TD

Expedition 374 Ross Sea: V1521 A 53R 8+CC 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/20
0	↑										massive clast-poor Sandy diamictite w/ faint ven network		
10	○												
20	↓												
23	↑												
30	↑												
40	↓					Grey 3/10y	⊗				Shell frag: 82 cm		
50	○												
60	↓												
63	↑												
70	○												
80	↓												
83	↑												
90	⊗												
100	↓												
110											108 cm TD		
120	CC												
130	⊗					Grey 3/10y	⊗						
140	↓												
150	○												
28													

PAL 34

Expedition 374
Ross Sea
 Clast Abundance

Site 521 Hole A Core 53 Top Depth ⊙
 Observer BAK Date 1-20-18

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	8+ CC	Memo
0	6	4	4	3	3	5	6	1	
10	5	4	2	3	7	6	4	5	
20	3	4	8	6	7	5	4	6	
30	4	5	3	6	4	6	4	2	
40	1	6	6	9	6	7	6	8	
50	1	4	4	2	1	6	6	4	
60	6	2	5	5	5	4	7	5	
70	2	5	9	6	4	5	4	4	
80	7	3	5	9	4	5	8	3	
90	8	6	4	7	5	5	3	6	
100		3	0	8	6	8	7	5	
110		4		1	3	2	4	cc	
120		3			>10	3	4	0	o
130		4			7	4		1	
140		0							
150					2				

Expedition 374 Ross Sea: 11521 Site: A Hole: S4R Core: 2A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/26
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
30	↑					Grey 3/10y							
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
126													
130													
140													
150													

Massive clast poor diamonite
w/ faint vein network

126 cm TD

Expedition 374 Ross Sea:

U1521

A

54R

3A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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	1/20
0	↑										massive clast-poor Sandy diamictite + faint ven network		
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Grey
3/10Y

CaCO₃ conc: 88

Shell: 97
frag

112-114 Limestone
118cm

Expedition 374 Ross Sea:

01521

A

54R

5A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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	1/20
0											massive Clast-poor sandy Diamicite w/ faint vein network		
10													
20													
30													
40						Gley							
50						3/10y							
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

142 cm TD

concretion: 10

Shell frag: 76 cm, 89

CaCO3 conc: 121, 132

Expedition 374 Ross Sea: 41521 A 55R 1A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

v. dark greenish gray
 close por sandy diamict
 with intervals of vein structure

shell frags: 14 cm

CaCO₃ concretions: #
 : 38, 84-86 cm

Logged by: Date:
 HMM 20/1

140
 (cm)

Expedition 374 Ross Sea: 41521 A 55R 2A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Seq. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
		C	St	Sd	G							
0	↑	↑									V. dark greenish gray massive clay poor sandy diatomite with rare v. network CaCO ₃ concretions : 11-12, 64, 85, 112 shell fragments : 4, 18, 101 limestone: : 18-20,	20/11 km
10	↑				grey		⊕					
20	↑				grey		⊕					
30	↑					X						
40	↑											
50	↑											
60	↑						⊕					
70	↑											
80	↑											
90	↑						⊕					
100	↑						⊕					
110	↑						⊕					
120	↑											
130	↑											
140	↑											
150	↑											

25
cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 55R Core: 3A Top Depth: 0

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Boyer</u> <u>4/9/01</u>	Date:
		C	St	Sd	G								
0	↑												
10						Flag							
20						3/10/01							
30							X						
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

V. dark greyish gray massive
 clay poor sandy diamictite
 with sand vein network

1.0 m scale 108-110 cm

shell frag. 135 cm

150
cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 55R Core: 44 Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑										V. dark greenish grey massive	KSM 20/1
10	↑					grey					clay part sandy siltstone with fine root network	
20	↑					grey					line shales: 0-4, 25-26 cm	
30	↑										CaCO3 concretions: 57 cm	
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

95

Expedition 374 Ross Sea: U1521 A 55R 54 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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											V. dark greenish gray massive clay poor sandy diatoms	Sungler 20/1 nan
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

44
cm

Expedition 374 Ross Sea: 41521 Site: A Hole: 56R Core: 1A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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											V. dark greenish gray massive clay poor sandy diatomite with some thin reticulated structure	Kasper 20/1
4												
10												
20												
30												
34												
36												
40												
42												
44												
46												
48												
50												
52												
54												
56												
60												
70												
80												
90												
100												
110												
120												
130												
140												
149												
150												

149 cm

Expedition 374 Ross Sea: 41521 A 56R 2A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							Wen	20/1
0													
10					6/02						v. dark greenish grey massive clay part sandy diamictite with large lens network 0-105cm		
20					3/02						shell fragments		
30											12, 17, 84cm		
40													
50											105-170		
60											v. dark greenish grey clay part muddy diamictite with laminae		
70													
80													
90													
100													
110											irregular unclay contact at 103-105cm		
120											laminae at 122-124		
130													
140													
150													

150 cm

Expedition 374 Ross Sea: 41521 A 56R 3A

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑										V. dark greenish gray interbedded clay poor muddy diametric with clay poor mdy diametric	Suggan 30/1
10	↑											
20	↑					big / flow						
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

25
12m

CO₂ concentration
42, 68 cm, 116 cm
shell fragments
68 cm, 79

luminescence 115-116 cm

Expedition 374 Ross Sea: U1521 A 56R 4A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							KSM	20/1
0											V. dark greenish gray		
10											interbedded clay-poor sandy		
20											diatomite with clay poor		
30											muddy diamictite		
40	I										with vein structure.		
50											60% concretions		
60											? 23, 20, 63, 114		
70											55-60 percent concretions		
80											low zone 80-82 (in situ? due to		
90											drilling disturbance)		
100											* caution:		
110											"Disturbed" was scratched		
120											on the cap!		
130													
140													
150													

120 =

Expedition 374 Ross Sea: 41521 Site: A Hole: 56R Core: 5A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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							<i>km</i>	<i>20/1</i>
0	↑	↑									V. dark greenish gray interbedded clay part sandy diatomite with clay part muddy diatomite with ret. network	<i>km</i>	<i>20/1</i>
10	↑	○			Glegl	↑							
20	↑	○			3/104	↑							
30	↑					↑							
40	↑					↑							
50	↑					↑							
60	↑					↑							
70	↑					↑		φ			shell frag. at 69 cm		
80	↑					↑					& Note: "disturbed" shell on the cap.		
90													
100													
110													
120													
130													
140													
150													

80 cm

Expedition 374 Ross Sea: U1521 A 56R 6A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							Jughin	20/
0													
5	↑												
10	↑												
20	↑												
30	↑												
40	↑												
43													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

V. dark greenish gray
 clay poor muddy siltstone
 with large foraminifera

13-31cm faint laminations with
 sharp bedded contact at 31cm
 calc concretin at 29cm

* Note
 "Disturbed" section
 was attached on the cap.

Expedition 374 Ross Sea: 41521 A 56R 2A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Seq. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by:	Date:
		C	St	Sd	G							7/10/01	30/1
0													
10	XXXX					grey							
20	L					grey							
30													
40													
50	53												
60	54												
70	55												
80	56												
90													
100													
110													
120													
130	10					grey							
140	16					grey							
150	20												

V. dark greenish grey interbedded
 clay poor muddy diamictite
 (15-30, 60-100cm) with clay
 poor sandy diamictite (0-15,
 30-60cm)

46-52 ^{thin} fine wavy laminae
 13-15

64-100 - ^{parallel} laminar

shell lag
 19, 23,
 100% concretum
 81cm

V. dark greenish grey clay
 poor muddy diamictite with
 fabric network.

127
 0
 16
 20
 cm

PAL

Expedition 374 Ross Sea: 41521 Δ 37R 1A

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑										V. dark greyish gray clay w/ muddy laminae with vein structure throughout the core shell fragments: 8, calc. concretions: 3, 114 cm lone stone: 94-95	Mughal 20/1 1/1
10	↑				grey / blue	↑	⊙					
20	↑					↑						
30	↑					↑						
40	↑					↑						
50	↑					↑						
60	↑					↑						
70	↑					↑						
80	↑					↑						
90	↑					↑						
100	↑					↑						
110	↑					↑						
119	↑					↑	⊙					
120												
130												
140												
150												

119 cm

Expedition 374 Ross Sea:

41521

A

42R

2A

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

148 cm

v. dark green to gray. interbedded
 clay poor muddy diamictite with
 clay poor sandy diamictite
 with vein network
 fine
 core some: 4-6,
 shell fragments: 32, 56, 128
 rubble rock: 113

Logged by: *Seigler* Date: *20/1*

Expedition 374 Ross Sea: 41921 Site: A Hole: 57R Core: 3A Section: _____ Top Depth: _____

Major Lithology: _____ Minor Lithology: _____

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>W. H. ...</u>	Date: <u>20/11</u>
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
123													
130													
140													
150													

V. dark greenish gray
 clay poor muddy diamicite
 with vein network

Calcs concretions: 34, 69, 90-99

shell frag: 40, 50, 103, 105

123 cm

Expedition 374 Ross Sea: 41521 Site: A Hole: 57R Core: 4A Section: Top Depth:

Major Lithology: Minor Lithology:

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							smghan	20/1
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

V dark greenish gray
 clay part muddy / fine
 with vein network
 fine
 calc. concretions: 3,
 shell fragments: 115, 117

①

Gly /
 fiber

X

dp

115
 m

Expedition 374 Ross Sea: 41521 A 47R 5A

Site: _____ Hole: _____ Core: _____ Section: _____ Top Depth: _____

Major Lithology: _____ Minor Lithology: _____

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												
10					grey!							
20					3/104							
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
125												
130												
140												
150												

V. dark greenish gray clay
 poor muddy diamictite (0-125 cm)
 overlying clay poor sandy
 diamictite (125-148 cm)
 with vein network
 shell frag: 1, 64 (large)
 limestone i 38,

125 sharp planar contacts

148
(2)

Expedition 374 Ross Sea: 41921 A 528 64
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Mungham</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0	↑												
10	↑					slg/ 3/10	↑				V. dark greenish gray		
20	↑						↑				clay poor muddy diamicte (0-78 cm, 100-142 cm)		
30	↑						↑				with clay poor sandy diamicte (78-100 cm)		
40	↑						↑						
50	↑						↑						
60	↑						↑						
70	↑						↑				72 - indurated carbonate		
80	↑						↑				78-88 - sediment deformation (?)		
90	↑						↑				88-100 - bio indurated		
100	↑						↑				95-100 cm - irregular boundary		
110	↑						↑				85-88 - irregular boundary with plane structure		
120	↑						↑						
130	↑						↑						
140	↑						↑						
150	↑						↑						

142 cm

Expedition 374 Ross Sea:

U1521

A

57R

7A+CC

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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							Strayhorn	20/1
0													
10													
20													
30													
40													
50													
60													
68													
70													
80													
90													
100													
106													
110													
118													
120													
130													
140													
150													

V. dark greenish gray
 clay part muddy diamictite
 with vein structure (0-61cm)
 61-68cm clay part sandy
 diamictite
 breccia: 15,
 61cm magnetic contact.

V. dark greenish gray
 clay part sandy diamictite
 1-2m inclined contact
 with flame structure(?)

68
 0
 6
 110
 11

PAL

PAL

Glycl
 3/104

Expedition 374

Ross Sea

Clast Abundance

1521

Site

57

Hole

A

Core

0

Top Depth

BAK

Observer

1-20-18

Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	4	3	1	1	2	2	2	0	
10	1	1	2	4	4	2	3		
20	7	3	1	2	5	1	1		
30	1	3	1	1	3	1	2		
40	3	1	0	2	5	4	2		
50	3	0	3	1	1	4	0		
60	3	6	4	4	6	2	0		
70	3	2	3	3	3	5			
80	2	2	2	2	2	7			
90	3	3	2	1	1	2			
100	2	2	2	1	1	4			
110	3	2	3	5	4	4			
120		2	0	2	2	2			
130		2		3	4	3			
140		2		2	1				
150		2		2	1				

Expedition 374 Ross Sea: V152 Site: A Hole: 58R Core: 1A Section: 0 Top Depth:

Major Lithology: mudstone Minor Lithology:

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	1/20
0													
10													
20													
30													
35													
40													
45													
50													
60													
70													
80													
85													
90													
100													
110													
120													
130													
140													
150													

very dark greenish gray heavily bioturbated mudstone

⬡ 2-5 cm carbonate conc

mud w/ flame structures - 81 cm - lighter lam. w/ sharp ^{inclined} bottom contact at 83 cm

113-115 cm sand stringers

Shell frag 120 cm

130 cm TD

Expedition 374 Ross Sea:

U1521

A

58R

2A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology: mudstone

Minor Lithology:

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	1/20
0													
10													
20													
30									4				
40						Grey							
50						3/lay							
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

tan greenish gray mudstone interbedded w thin sand beds.

Carbonate: 8, 24

Shell frag: 25, 46, 51, 63, 67 (Forams etc) 82-110 cm

Silica cement: 60-64, 72, 78

sand lens? chaotic boundaries 113, 116

135-142 cm: silty sandstone to sandy saltstone

142 cm: TD

Expedition 374 Ross Sea: US21 Site: A Hole: SBR Core: 3A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	1/20
0													
10													
20													
30													
40													
50					gray								
60					3/10y								
70													
80													
90													
100													
110													
120													
130													
140													
150													

v Dark greenish gray bioturbated mudrich sandstone to silty-rich mudstone to 38 cm

lonestones: 25-26, 27, 30

Shell frag: 41, 112-115

rein network } 57-65 cm
silica cement

v Dark greenish gray mudstone

SS mud
113a

140 →
mudrich ss to silty mudstone
150 cm

Expedition 374 Ross Sea:

U1521

A

58R

4R

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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	1/20
0											Very dark greenish gray 0-30 cm muddy sandstone to silty Mudstone		
10													
20													
30									2				
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray
0-30 cm
muddy sandstone to silty
Mudstone
Limestones: 7, 43, 65, 100, 101

41 sand stringer → 41, 110, 117, 129
gradational boundary: 43-50 cm

50-60 cm: mudstone

60-118 cm: muddy sandstone

TD: 132 cm

Expedition 374 Ross Sea: 11521 Site: A Hole: 59R Core: 1A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Seq. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
		C	St	Sd	G							
0											AES	1/20
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Dark greenish gray bioturbated mud-rich-ss to silt rich mudstone

SS 23cm mud.

sandstone 43-54
Fine sand laminae w/ gravel.

Ironstones #9¹²⁰ in 137

mottling → Py

54-145: mud-rich ss to silt rich ms

146 cm TD

Expedition 374 Ross Sea:

U1521 A 59R 3A

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/20
0	↑												
10	↑												
20	↑												
30	↑					grey 3/10y							
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
122													
130													
140													
150													

v. Dark greenish gray
interbedded clwt-poor
mud to sandy Diamicite

Slight stratification 0-13cm
73-78

concretion: 97-100cm
114-116

pyrite filled burrow @ 76

122 cm

Expedition 374 Ross Sea: VIS21 Site: A Hole: 59A Core: 4A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/20
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
135													
140													
150													

Drk Greenish Gray
clast poor sandy diamictite
w/ stratified intervals

Stratified: 4-20 cm
53-68
76-81

Carbonate: 5cm

faint vein network throughout

Limestone: 127 (mostly R2 St3)

135 cm

Expedition 374 Ross Sea: UIS21 Site: A Hole: 59R Core: 5A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/20
		C	St	Sd	G								
0	↑												
10	↑									v. Dark green clast poor sandy			
20	↑									diamicite			
30	↑									→ slightly stratified or			
40	↑									faint vein network (x-ray?)			
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Shell at 32 cm?, 99

106 cm TD

Expedition 374 Ross Sea:

U1521

A

59R

6A+CC

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/20
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
87													
90													
100	↑												
110	↑												
119													
120													
130													
140													
150													

v. Dark green
clast poor sandy diamictite

Grey
3/10/17

clast cluster 73-75cm

87cm

PAL

9cm

Expedition 374
Ross Sea
 Clast Abundance

1521 Site A Hole 59 Core 0 Top Depth
BAK Observer 1-20-18 Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	0	1	5	7	5	6		9	
10	0	6	8	9	4	>10			
20	2	5	3	9	>10	3			
30	1	3	9	>10	>10	7			
40	7	5	9	6	9	>10			
50	4	3	5	6	7	4			
60	2	3	8	9	9	5			
70	2	5	5	>10	7	9			
80	0	>10	8	8	6	<u>3</u>			
90	0	4	4	6	9				
100	0	9	>10	6	6				
110	1	3	>10	5					
120	2	5		5					
130	2	6		<u>2</u>					
140	0								
150	<u>0</u>	<u>2</u>							

Expedition 374 Ross Sea: 41521 Site: A Hole: 60R Core: 2A Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Junglun</u> <u>KSM</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0	↑												
10	↑												
20	↑												
25	↑					9/62							
30	↑					3/07							
35	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
133	↑												
140	↑												
150	↑												

B3
(m)

v. dark greenish gray massive
 chert poor sandy d'Almeida
 detritus at 39, 37, 43,
 91, 95 cm

Expedition 374 Ross Sea: 41921 Site: A Hole: 60R Core: 3A Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10					Glyc 3/104						V. dark greenish gray massive clay per sandy laminae	
20												
30											shell fragments at 22, 64, 118 cm	
40											limestone at 62, 109-110 cm faceted	
50											CaCO ₃ concretions - 63, 69, cm	
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

72 cm

Expedition 374 Ross Sea: 41521 A 60R 5A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑									V. dark greenish gray massive	Singh 2/1	
10	↑									clay part sandy granitic		
20	↑				Gley							
30	↑				gray					low stone		
40	↑									61-23, 52-64, 113, 121-123 128-130		
50	↑									shell fragments		
60	↑									20122, 74, 112		
70	↑									CaCO ₃ concentration		
80	↑									70-71		
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

124 m

Expedition 374 Ross Sea: U1521 Site: A Hole: 60K Core: 6A Section: Top Depth:

Major Lithology: Minor Lithology:

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							Singhan	20/1
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

V. dark green gray massive
 base poor sandy diamictite
 (27-152cm)
 0-27cm
 clay-rich sandy diamictite
 46-52cm wavy laminated
 low stone
 74-75,
 96th fragment
 108, 114

Clay
 3/108
 74-75
 96
 108

0-10
 0-10

Expedition 374 Ross Sea:

41521

A

602

7A TIC

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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							Sayfan	20/1
0													
10						slayl 3/104	↑ ○ ↓				v. dark greenish gray clay poor sandy diamicrite		
20											4-20: chaotic contact		
30											loestone at 4-4m, 89-94		
40											slab fragment.		
50											78, 74		
60													
70													
80								φ					
90								φ					
100								●					
110													
120													
130													
140						slayl 3/104							
150													

108

0

8cm

13

CC

v. dark greenish gray
clay poor sandy diamicrite

PAL

Expedition 374
Ross Sea
 Clast Abundance

1521 A 60 0
 Site Hole Core Top Depth
 BAK/JAI 1-20-18
 Observer Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	6	7	6	6	8	10	3	4	
10	8	5	8	9	>10	10	7		
20	5	8	6	>10	6	>10	6		
30	8	9	7	3	5	5	9		
40	4	>10	5	7	9	4	7		
50	8	8	4	5	7	6	>10		
60	8	7	8	2	4	7	4		
70	8	8	4	>10	4	8	4		
80	6	6	8	>10	5	7	3		
90	6	6	7	3	6	6	3		
100	4	5	3	5	4	6	3		
110		3	3	4	6	9			
120		3	8	2	8	6			
130			1		1	6			
140						3			
150									

Expedition 374 Ross Sea: V1521 Site: A Hole: 61R Core: 1A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑						X					
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

Very dark greenish grey
Massive clast poor
Sandy diamictite
with faint vein
network

Color 3/10Y

concrete: 83-84.5,
111.5-112.5

Carbonate conc: 92,

shell frag: 5

Expedition 374 Ross Sea: V1521

A

61R 2A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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													
10	↑												
20													
30													
40													
50													
60							X						
70													
80													
90													
100													
110													
120													
130	↓												
140													
150													

Very dark greenish grey massive clast poor sandy diamictite with faint vein network

Clay 1 clay

Core stage: 125.5-126.5, 38-40, 42-43.5

Expedition 374 Ross Sea:

V1521

Site:

A

Hole:

61R

Core:

3A

Section:

0

Top Depth:

Major Lithology:

Minor Lithology:

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	↑												
10													
20													
30													
40													
50													
60													
70	⦿												
80													
90													
100													
110													
120	↓												
130													
140													
150													

Very dark greenish grey massive clay-poor sandy diamictite with faint vein network

10.0
10.0
10.0

6 cm I
3/104

CaCO₃ cont: 54

Shell frag: 64.5, 31, 104.5

125

Expedition 374 Ross Sea:

01521

A

61R

4A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Very dark greenish grey
massive clast-poor
sandy diamictite with
faint vein network

Weakly stratified by
color (28-124) with
alternately very dark greenish
grey to grey (lamina)

loestone: 55.5-56.5,
37-38, 18.5-20, 4-5

carbonate concretions: 47.5

110
100
90
80
70
60
50
40
30
20
10
0

6/len 1
3/104

133

Expedition 374 Ross Sea: V1521 Site: A Hole: 01R Core: 5A Section: 2 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
127	↑											

very dark greenish grey
massive clast-pow
Sandy diamictite that is
weakly crystallized by
color 22-127 altering
very dark greenish grey to
grey

Planar
to
slightly
titled

Microfaunal structures?
Boundary of laminations
slightly wavy & tilted in places

Lone Stone: 25-28.5

Shell Fragment: 97, 49.5,

127

Expedition 374 Ross Sea: V1521 Site: A Hole: 61K Core: 6A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

very dark greenish grey
 clast-poor sandy
 diagenetic that is
 weakly stratified by
 color throughout.

Boundaries slightly inclined
 and wavy in places

clean 1 3/16y

concretion: 127-129, 87-89

144.5

Expedition 374 Ross Sea: U1521 Site: A Hole: 61R Core: 7A Section: 0 Top Depth:

Major Lithology: _____ Minor Lithology: _____

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

Very dark greenish grey massive clay poor sandy diagenetic

Faint vein network throughout

level 1 s/10y

Very weakly stratified by color at 34-61

Shell Frag: 51

Carbonate calcination: 79.5-81.5

bone store: 64-65, 29-30

clast cluster: 52-37

117.5

Expedition 374 Ross Sea: V1521 Site: A Hole: 61R Core: 8A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑	↑	0.1	0.1	grey / clay	↑	X	□			very dark greenish grey Massive clay poor Sandy diamicite Fairly vch network through out	
10												
20												
30												
40												
50												
54												54
60												DATE
70												
80												
90												
100												
110												
120												
130												
140												
150												

Calcareous concretions: 27.5

Expedition 374

Ross Sea

Clast Abundance

374

Site

A

Hole

G1R

Core

0

Top Depth

IS

Observer

21/01

Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	Sec. 8	CC Memo
0	4	10	4	7	7	5	4	6	7
10	3	4	10	4	7	4	6	1	5
20	4	6	6	5	4	6	6	10	
30	7	7	10	7	5	4	5	3	
40	6	6	7	5	6	5	5	7	
50	6	7	5	6	>10	5	8	2	
60	4	7	6	7	6	3	9		
70	10	5	6	7	6	>10	3		
80	8	6	4	5	3	6	6		
90	9	5	3	7	1	2	6		
100	6	5	5	4	6	7	5		
110	7	5	6	7	2	7	3		
120	7	4	3	3	5	>10			
130	4	8		0		3			
140	2					3			
150						3			

Expedition 374 Ross Sea: V1521

Site: _____

Hole: A

Core: VZR

Section: 1A

Top Depth: 0

Major Lithology: _____

Minor Lithology: _____

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													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish grey
 Clast poor sandy diamictite
 (massive)

Faint vein network
 throughout

Very weakly stratified
 0-30 cm by color (dark
 greenish grey to greenish
 grey)

Lone clast: 4-6, 77.5-78.5,
 81, 82, 71.5-72.5

Shell Frag: 119.5, 72.5,
 73.5

133.5

Expedition 374 Ross Sea: V1521 Site: A Hole: 62R Core: 2A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120												
130												
140												
150												

very dark greenish gray massive
clast poor sandy diamictite

Faint vein network
throughout

very faint color stratification
between 62-69.

Lamination: 21.5-22.5,
51-52, 53-55, 75-76, 110-112

Layer 1 2/100g

Hand-drawn sketches of sedimentary structures, including small circles and irregular shapes.

112

Expedition 374 Ross Sea: V1521 Site: A Hole: 62R Core: 3A Top Depth: 0

Major Lithology: _____ Minor Lithology: _____

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							
0												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Very dark greenish grey clast poor massive sandy diamictite

Faint vein network
Faint interlamination throughout most pronounced at 92

Limestone: 93-95, 61-62

← sharp boundary at ~92 cm of bed of greenish grey mudstone that grades 113-123 back to diamictite. Appears mottled or intermixed

137

Expedition 374 Ross Sea: V1521 Site: A Hole: 62R Core: 4A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑									very dark greenish gray massive clark fine sandy diamictite		
20	↑											
30	↑									Faint vein network throughout		
40	↑											
50	↑						*					
60	↑											
70	↑											
80	↑											
90	↑											
100	↑									lonestarc: 121-123, 99-100, 113-114.		
110	↑											
120	↑											
123											123	
130												
140												
150												

0.00-1.00
 clay 1
 3/104

Expedition 374 Ross Sea:

V1521

A

62R

SA

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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												
10											Very dark greenish gray massive clast poor sandy diamictite	
20												
30											Faint veiny network throughout	
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

0.010.0
0.010.0
0.010.0
0.010.0

blew 1 3/104

#

PO

132-143
-inclined mudstone beds
(cm-scale)
w/ dispersed clasts
RM

Limestone: 108-109

Carbonate concretions: 7, 11.5

144

Expedition 374 Ross Sea: U1521 A 02R GA 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑									very dark greenish gray massive clast poor Sandy diamictite		
20	↑									Faint vein network		
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

Glen 2 3/107

Low core: 100.5-102, 84.5-85.5, 94.5-96

(98-113) Sharp wavy/irregular Inclined Boundary into ^{Sandy} Mudstone ^{with dispersed clasts} overlying Diamictite below

129

Expedition 374 Ross Sea: V1521

Site: A

Hole: 62R

Core: 7A

Section: 0

Top Depth: 0

Major Lithology:

Minor Lithology:

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	↑						X				Very dark greenish grey Massive clast-poor Sandy diamictite	
10							~		SS			
20	↑						↑				(8-20) sharp ^{wavy} inclined boundary boundary of fine mudstone with dispersed clasts.	
30												
40							X					
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

you can't have the lithology it equals diamictite - suggests it is mudstone w/ clasts

Shell frags: 78

Lowstone: 80-81, 72-73, 137-138, 64.5-65.5

carbonate concretions: 140

150+

Expedition 374

Ross Sea

Clast Abundance

374

Site

A

Hole

622

Core

0

Top Depth

IS/JLA

Observer

21/01

Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	7	4	4	1	5	5	2	2	
10	3	5	>10	4	4	3	3		
20	4	8	7	7	5	4	6		
30	7	6	7	6	7	7	4		
40	7	10	6	4	5	3	6		
50	3	10	4	6	5	6	2		
60	6	6	4	3	8	9	6		
70	5	2	10	2	7	7	7		
80	4	7	7	6	7	6	5		
90	2	6	9	4	2	5	9		
100	3	4	2	5	10	4	2		
110	6	<u>1</u>	5	7	4	4	5		
120	3		5	<u>1</u>	5	4	7		
130	<u>4</u>		3		4	<u>1</u>	2		
140					<u>3</u>		7		
150									

1

Expedition 374 Ross Sea:

V1521

Site:

A

Hole:

63K

Core:

1A

Section:

0

Top Depth:

Major Lithology:

Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Very dark greenish grey
Massive clast poor
Sandy diamictite

distinct inter
(17-25) inclined laminations
of very dark greenish grey
to greenish grey ~~stone~~
~~heavy~~ mudstone

Faint vein network
throughout

Lonestone: 53-54.5

Expedition 374 Ross Sea: V1521 Site: A Hole: 63R Core: ZA Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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							
0	↑											
10	↑											
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150	↓											

Color 1 3/104

very dark greenish grey
massive cleft poor
sandy diamictite

Paint vein network
throughout

Low Store: 32-34

(91-109) sharp inclined
interlaminations of colors
(very dark greenish grey to
greenish grey ~~contact band~~
~~and/or ore~~)

SS

Expedition 374 Ross Sea: V1521 Site: A Hole: 63R Core: 5A Top Depth: 0

Major Lithology: Minor Lithology:

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	↑											
10	↑ ↓											
20	↑											
30	↑											
40	↑											
50	↑											
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110												
120												
130												
140												
150												

Massive Very dark greenish grey clay-rich sandy diamicrite

Vein network more pronounced than previous section. Most obvious at 68-97cm

Limestone: 77.5-100.5, 38.5-41.5, 46.5-47.5, 41.5-42.5

blue 1 3/104

100

Expedition 374
Ross Sea

Clast Abundance

4521
Site
JLA
Observer

A
Hole

63R 0
Core Top Depth
1-21-2018
Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	6	6	8	7	3			>10	
10	7	6	7	4	6			>10	
20	>10	6	6	5	5				
30	5	4	3	4	7				
40	6	3	5	3	6				
50	5	4	>10	4	2				
60	4	2	3	6	>10				
70	8	6	1	4	8				
80	6	4	3	4	9				
90	5	2	1	<u>3</u>	7				
100	3	4	1		<u>1</u>				
110	6	2	<u>0</u>						
120	5	3							
130	3	5							
140	2	3							
150									

1

Expedition 374 Ross Sea: U1521

Site: _____

Hole: A

Core: 64R

Section: 1A

Top Depth: 0

Major Lithology: _____

Minor Lithology: _____

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	oo p										very dark greenish grey	
10											clast poor sandy diamictite	
20												
30												
40											Faint vein network throughout	
50											(not as pronounced as the base of ^{core} 63)	
60												
70											Lonestone: 88-89	
80											carbonate concretions: 72	
90												
100												
110												
120												
130												
140												
150												

136

Expedition 374 Ross Sea: V1521 Site: A Hole: 64R Core: ZA Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	↑											
10	↑											
20	↑											
30	↑											
40	↑											
50	↑						✕					
60	↑											
70	↑											
80	↑											
90	↑											
100	↑											
110	↑											
120	↑											
130	↑											
140	↑											
150	↑											

very dark greenish grey
clast-rich sandy diamicite

Faint vein network
most pronounced @ 46-50

100%
100%
100%
100%
100%
100%
100%

clean 1
3/109



Expedition 374 Ross Sea:

V1521

A

64R

3A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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	↑												
10	↑									very dark greenish grey			
20	↑									clast-rich sandy diamictite			
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

clay 3/104

Core zone: 27.5-32, 73-74, 107-115

1/6

Expedition 374 Ross Sea:

U1521

A

64K 4A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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							yjl	20/1
0													
10													
20													
30													
40	///												
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clast-rich sandy diamictite

GLCY 1 3/107

Loustone: 31, 37, 47-48, 89, 108, 112

114c

Expedition 374 Ross Sea: U1521 Site: A Hole: 64R Core: 5A Section: 0 Top Depth:

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

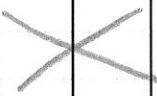
Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by:	Date:
		C	St	Sd	G							<i>YJC</i>	<i>20/1</i>
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clay-rich sandy diamictite

Lonestone: 37, 83-94!

MOC

GLCY 1 310Y



Expedition 374 Ross Sea: U1521 Site: A Hole: 64R Core: 6A Section: 0 Top Depth:

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

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>YPL</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0	↑ ↓												
10											Very dark greenish gray clay-rich sandy diamictite Lower core: 22, 31, 57, 60, 62, 66'		
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

GLCY 1 3/10X

0:1
1:0
1:0

96 cm

Expedition 374 Ross Sea: 41521 A 65R 1A OCL
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>YK</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish grey clay rich sandy diamictite

Limestone: 3-4, 11, 18, 73, 88-89, 115, 136, 147-149

117-121 cm: very faint color lamination (physically interbedded)

GLEXY 1 3/10Y

|||

150 cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 6SR Core: 2A Top Depth: 0cm

Major Lithology: Minor Lithology:

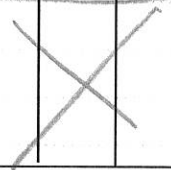
Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>YJ</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40	///												
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clay-rich sandy diamicite

GREY 1
3/10 Y

Limestone: 16-17, 56, 131

134 ch



Expedition 374 Ross Sea: U1521 Site: A Hole: 6SR Core: 3A Section: 0cm Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Very dark greenish gray clast-rich sandy diamictite

Louestone: 68-69, 83, 103, 137-139, 127-128

Fault van noorden 60-80cm

GLEXY 1 3/10Y
~~1-1~~

141.5cm

Expedition 374 Ross Sea: UIS21 Site: A Hole: 6SR Core: 4A Section: OCL Top Depth:

Major Lithology: Minor Lithology:

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							JRC	20/1
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clay-rich sandy diamictite

Faint vein network 100-113 cm

Laminations: 17, 46, 47, 59, 86-87, 110, 121

GLCY 1 3/10X

1#1

128cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 65R Core: SA Section: 0cm Top Depth:

Major Lithology: Minor Lithology:

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							JSC	20/1
0													
10													
20													
30	///												
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

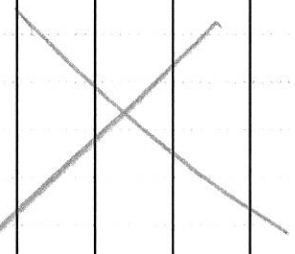
Very dark greenish gray clay-rich sandy diamictite

Lowstone: 21, 52, 66, 67,

Carbonate concretions 65-66

118 cm

GLERY 3/10Y



Expedition 374 Ross Sea: U1521 Site: A Hole: 66R Core: 1A Section: Och Top Depth:

Major Lithology: Minor Lithology:

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							<i>JA</i>	<i>20/11</i>
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish
silty clast-rich
sandy diamicton

Lowstone 35, 42-43,
63-64, 111, 126-127

Faint network of
veins throughout
the section

GLEXY 3/10Y

142cm

Expedition 374 Ross Sea: U1521 A 66K 3A 002
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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>20/11</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clay-rich sandy diamictite

Limestone: 15-16, 60-61, 68-69, 93, 97, 123

Carbonate concretions 95

GLCY 1 3/10X

131 cm

Expedition 374 Ross Sea: U1521 Site: A Hole: 66R Core: 4A Section: 0cm Top Depth:

Major Lithology: Minor Lithology:

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							<i>JL</i>	20/1
0													
10													
20													
30	///												
40							⊗						
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clast-rich sandy diamicite

Lowstone: 13, 15, 47, 51, 65, 92

Faint vein network throughout

GLEY 1 3/10Y

108c

Expedition 374 Ross Sea: U1521 Site: A Hole: GGK Core: 5A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>JX</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clast rich sandy diamictite
 Ven network 0-60cm

Lonestones: 35, 51, 57-58, 68, 74, 75-77, 100, 107

GLCYT 3/10Y

118cm

Expedition 374 Ross Sea: U1521 A 66K 6A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <i>[Signature]</i>	Date: <i>20/1</i>
		C	St	Sd	G								
0													
10													
20	///												
30													
40													
50													
60	+												
70													
80	///												
90	///												
100													
110	+												
120	///												
130													
140													
150													

Very dark greenish
 gray clast-rich
 sandy diamictite

Vein network:
 34-53
 89-100

Laminations: 4-5,
 40, 76, 95-96,
 100-101,

120cm

GLCY 1 3/10Y

Expedition 374 Ross Sea: U1521 Site: A Hole: 66R Core: 7A Top Depth: 0

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>JC</u>	Date: <u>7/1</u>
		C	St	Sd	G								
0													
10													
20		—	0										
30		0	0										
40													
50													
60													
70													
80													
90													
100	+												
110													
120													
130													
140	XX												
150													

150.5 cu

Very dark greenish grey clay - rich sandy diamictite

50-86: vein network

Louestone: 34-35, 51-52,

Grey 1
3/10Y

Expedition 374 Ross Sea: U1521 Site: A Hole: 66R Core: CC Section: 0 Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>CP</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0													
10													
20	XX												
30													
40													
50													
60	PAL												
70													
80													
90													
100													
110													
120													
130													
140													
150													

Severely disturbed throughout

Very dark greenish grey clay - rich sandy diamicrite

GLCY 1 3110Y

57cc

62

Expedition 374

Ross Sea

Clast Abundance

374

Site

A

Hole

GG A

Core

Top Depth

IS

Observer

21/01

Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	9	5	8	4	8	5	10	3	
10	7	8	>10	9	10	>10	10	7	
20	6	>10	9	5	>10	6	8	3	
30	6	6	10	8	9	11	7	3	
40	9	8	>10	9	5	5	9	3	
50	5	9	6	8	>10	2	>10	<u>3</u>	
60	9	>10	11	8	6	9	7		
70	10	7	8	5	10	>10	>10		
80	9	6	9	7	8	10	10		
90	8	>10	9	7	6	9	7		
100	10	6	8	<u>8</u>	8	5	8		
110	8	>10	11		<u>7</u>	7	7		
120	5	5	9				7		
130	>10	<u>5</u>					5		
140	<u>3</u>								
150							4		

Expedition 374 Ross Sea: U521 Site: A Hole: 67R Core: 1A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>YJC</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40	///												
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150						X				148cm			

↑
10:1
11:1
0:0

GLCY 1 3/10X

Very dark greenish gray clast-rich sandy diamictite

Loudestones: 27, 55, 62, 65, 93-95, 111-112, 138, 140

Expedition 374 Ross Sea: U1521 Site: A Hole: 63R Core: 2A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <i>pl</i>	Date: <i>20/11</i>
		C	St	Sd	G								
0													
10													
20													
30													
40	///												
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

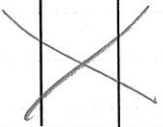
Very dark greenish gray clay-rich sandy diamictite

GLEXY 1 3/10Y

Lonestone: 28, 35, 84, 90, 92,

Foran: 66.5 cm

138 cm



Expedition 374 Ross Sea: U1521 A GAR 3A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>JR</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clast-rich sandy diamictite

Lowstones:
 4-5, 33, 34, 43, 104, 109

72-79cm: faint laminae seen
 No color alternations

GLEXY 1
 3/10Y

111cm

Expedition 374 Ross Sea: U1521 A 67R 4A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <i>PL</i>	Date: 20/1
		C	St	Sd	G								
0													
10													
20													
30													
40	///												
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clay-rich sandy diamictite

40-73 orientation of elongated clasts perpendicular to coring direction

Lonestones: 11, 16, 47, 58, 61, 73, 128, 140

73 → faint vein network

GLCY 1
3/10Y

145.5 cm

Expedition 374 Ross Sea:

U1521 A 67K SA 0

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

150.5cm

Very dark greenish gray clay-rich sandy diamictite

22-35 cm: physically interbedded, laminated interval as seen for color changes (darker gray)

35 → faint var. interbedded / intralamination

Lowstones: 33, 41, 64, 110, 112, 116, 124-127,

shell fragment within slightly lighter gray layer at 131cm

GLCY 7 3/10 Y

0 1 0 1 0 1 0 1

φ

//

Expedition 374 Ross Sea: U1521 A 67R 7A 0cm
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>JPL</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

↑
 1:0
 1:0
 1:0

GREY
 3/10Y

Very dark greenish
 gray clast-rich/poor
 sandy diamictite

Lowstones: 72,
 90-91, 122-123

Param fragment of
 Nodosarie or Dentalina
 at 14cm

143.5 cm

Expedition 374 Ross Sea: U1521 A 68K 1A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>JK</u>	Date: <u>20/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray clast-rich sandy diamictite

Lowstones: 16, 17-20, 23-24, 31-32, 35-37, 111-113, 128-129

83
Faint interlamination

Intabbedded gray clast-rich sandy diamictite

143 cm

* GLEY 1
3/10X

GLEY 1
S/N

*
X

Expedition 374 Ross Sea: U1521 A 68R 2A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Class of granite
 xxxxx

6LEY 1 3/10Y

Very dark greenish
 gray clay-rich
 sandy diamicite

Lowstones:
 19-60', 67-70

81-87: physically
 intercalated gray
 mud

128 cm

Logged by: *[Signature]* Date: 20/11

Expedition 374 Ross Sea:

U1521 A 68K 3A 0

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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												
10												
20												
30												
40												
50	///											
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Very dark greenish gray clay-rich sandy diamictite

Lowstones: 23-25, 48-49, 68-71, 80, 103, 122-124,

6EY1 3/10Y

148 cm

Expedition 374 Ross Sea:

U1521

A

68K

4A

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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												
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												

Very dark greenish gray clast-rich sandy diamictite

28-46: vein network

Lowstand: 5, 20, 32, 45-47, 64, 65, 81,

Carbonate concretions: 52, 70

119cm



GREY 3/10Y



Expedition 374 Ross Sea: U1521 A 68K SA 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>SM/SM</u>	Date: <u>2/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

V. dark greenish gray clay-rich sandy diamictite
 66-75: fine vein network
 limestone
 * 60, 61-63, 88-90, 61-104 (m)

127
 cm

Expedition 374 Ross Sea: 41521 Site: A Hole: 68R Core: 6A Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <u>Singh</u> <u>Ken</u>	Date: <u>2/1</u>
		C	St	Sd	G								
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

118

v. dark greenish gray
 clay - rich sandy shale
 lime stone;
 4-8, 16-17, 22-37, 109-112,
 113-114 cm
 7-37: clay: granodiorite(?)
 - lime vein network
 75-92 cm

Expedition 374 Ross Sea: 41521 A 68R 7A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							Engelhardt	2/1
0													
10					dg/								
20					3/ur								
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

interbedded

V. dark greenish gray clay - rich sandy diamictite (0-30, 132-139) with clay-poor silty diamictite (30-132)

30-35 m gradually clay-poor.

lensene:
13-14, 125-126, 135-137

139

Expedition 374 Ross Sea:

Site: U1521

Hole: A

Core: 69R

Section: 1/A

Top Depth: 0

Major Lithology:

Minor Lithology:

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							ABS	1/2
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

V. Dark greenish gray massive clayrich sandy diamictite

Fine laminae 22-23 cm
40

67-69: vein

67-85: stratified slight

Limestone: 121-122

110-~~121~~¹²¹: sandy mudstone to muddy siltstone w/ bioturbation

135 cm TD

Expedition 374 Ross Sea: U1521 A 69R 2A 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/21
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark greenish gray
 clast-poor sandy diamictite

27-29: weakly laminated
 stratified

carb cement around clast @ 96
 Limestone: 18-20, 48-49, 125

143 cm TD

Expedition 374 Ross Sea: U1521 Site: A Hole: 69R Core: 4A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	1/21
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

Very dark gray dust poor diamictite w/ zones of stratification

Slight stratification 10-30 cm

70-73: Aligned faceted limestones

94 - Benthic foram.
109 - shell frag

147 cm

Gray shaly

0.10
0.10

φ

φ

φ

Expedition 374 Ross Sea: VIS21 A 69R 5 0
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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	1/21
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

clast rich sandy diamictite
 faintly bioturbated
 with vein network 0-45cm
 Limestone: 105-112 cm

139 cm

Expedition 374 Ross Sea:

Site: VIS21

Hole: A

Core: C9R

Section: 6A + CC

Top Depth: 0

Major Lithology:

Minor Lithology:

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	1/21
0													
10											clast poor muddy diamictite w/ large limestones		
20											20-23: CaCO ₃ concretion		
30											7-36 = vein network		
40													
50											Limestones: 39-40 61-64 76-74		
60													
70													
80													
90													
100											102 = sharp inclined contact		
110											clast-poor sandy diamictite	102-120	
120											TDS=120cm		
130													
140											Same as above (sandy)		
150													

PAC

24

Expedition 374
Ross Sea
 Clast Abundance

1521 69 A 0
 Site Hole Core Top Depth
 BAK 1-21-18
 Observer Date

Offset (cm)	Sec. 1	Sec. 2	Sec. 3	Sec. 4	Sec. 5	Sec. 6	Sec. 7	CC	Memo
0	7	7	>10	8	5	7		6	
10	9	>10	>10	8	9	6		1	
20	>10	>10	>10	9	7	5			
30	>10	7	6	6	7	4			
40	7	>10	>10	6	7	6			
50	>10	8	8	6	>10	7			
60	>10	>10	>10	>10	4	5			
70	>10	9	7	>10	5	6			
80	>10	>10	9	7	>10	5			
90	>10	8	9	5	8	8			
100	>10	>10	>10	>10	9	3			
110	8	>10	8	9	>10	4			
120	>10	>10	8	5	>10				
130	5	9		8	8				
140		3							
150				5					

Expedition 374 Ross Sea: 41521 Site: A Hole: 70k Core: 1A
 Major Lithology: _____ Minor Lithology: _____

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											V. dark gray close pack sandy diamictite	Ingham 2/1 KTB
10					gray							
20					gray							
30												
40											limestone (Revised)	
50											34, 39, 40, 52, 55-57, 64, 65 (m)	
60											Shell fragments: 83, 125 (m)	
70												
80												
90												
100												
110												
120												
130												
140												
150												

127 cm

Revised

Expedition 374 Ross Sea: U1521 A 70R 2A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							Kunghor	21/1
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

133
cm

U. dark greenish gray
 chert poor sandy chert
 shell fragments: 12,
 limestone: 55-57, 88-89, 92-93
 83-107 wavy network
 or fine laminae
 118-131 wavy laminae

610g/1
3/104

83
107

Expedition 374 Ross Sea:

41521

A

70R

3A

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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							Singhan	21/1
0	↑					↑	→	φ			V. dark greenish gray		
10						6/9/1	⊙				clast poor muddy diamictite		(7-12,
20						3/10/4	⊙				" sandy "		(0-7, 12
30											shell fragments: 6,		-128)
40											11-23 diamictic lamination,		
50											Calca. crinoid stems: 13,		
60											limestone: 24, 37-39,		
70											118-135 clast poor sandy		
80											diamictic		
90													
100													
110											107-118 tilted laminae		
120													
130													
140											inclined sharp contact at 135cm		
150										135-142. heavy laminae with			
										reverse flame structure		(3)	

142

Expedition 374 Ross Sea:

01521

A

70R

5A

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: <i>Singh</i> <i>kn</i>	Date:
		C	St	Sd	G								
0													
10					6/10 3/10								
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

V. dark greenish gray Interbedded
 clay part sandy diamictite
 " muddg "
 10-5, 16-20, 29-57, 89-110, 135-145
 shell fragments: 11,
 20-38 cross bedding with grad. shal
 contact
 limestone at 69-71
 calc. concretions: 66cm
 110-145: faint vein
 network

(5-16, 20-29,
 57-89,
 110-135
 145)

145
 cm

Expedition 374 Ross Sea: 41521 A 70R 6A
 Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

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							King	21/1
0													
10					clay								
20					3/4								
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

100

V-dark greenish gray
 clay part sandy mantle

longer at 27 cm

57-71 stratified

82-93 cm light limestone

99 no carbonate cemented mudstone

Expedition 374 Ross Sea:

01521

A

FIR

1A

0

LAST Core

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

Offset (cm)	Drilling disturb.	Lithology				Color	Sed. Structures	Lith. Accessories	Bioturb.	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AES	Date: 1/21
		C	St	Sd	G								
0	↑												
10	↑									Possible fall in 0-10			
20										v. dark greenish gray sandy to muddy stratified diamictite			
30										weakly stratified throughout			
40										w/ oriented grains parallel to strat			
50										→ 35 cm halo around grain			
60										Limestone: 58, 86, 89			
70										↑ Faulted			
80													
90													
100													
110													
120													
130													
133										133 cm TD			
140										127 m			
150													

!!

Expedition 374 Ross Sea:

U1521
Site:

A
Hole:

71R
Core:

2
Section:

0
Top Depth:

LAST
CORE !!

Major Lithology:

Minor Lithology:

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	1/21
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

v. Dark greenish gray
interbedded clast-poor muddy
diamictite to clast-poor sandy
diamictite

7! Sharp color contact
clast poor
muddy diamictite gradually
grades to clast poor sandy
diamictite @ 126 cm

limestone: 20-21,

127 cm

6lex
3hor

Expedition 374 Ross Sea: U1521 Site: A Hole: 71R Core: 4A Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	1/21
0	↑									<p>Very dark greenish gray clay Poor bandy to muddy diamictite</p> <p>Weakly stratified: 29-45</p> <p>Limestone: 17-19, 51, 129-132</p> <p>Caseo-filid burrow @ 79 - like grade</p>			
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

-132 cm TD

Expedition 374 Ross Sea:

U1521

A

71A

SA

0

Site:

Hole:

Core:

Section:

Top Depth:

Major Lithology:

Minor Lithology:

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	1/21
0													
10													
20													
30													
40													
50													
60													
70													
80													
90													
100													
110													
120													
130													
140													
150													

V. dark green ^{clast poor stratified} sandy diamictite
 to ~95 cm + grades to massive
 sandier diamictite at ~98 cm

Stop
 3/9/16

138 cm TD

Expedition 374 Ross Sea: VIS21 Site: A Hole: 71R Core: 6A+CC Section: 0 Top Depth:

Major Lithology: Minor Lithology:

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	1/21
0	↑												
10	↑												
20	↑												
30	↑												
40	↑												
50	↑												
60	↑												
70	↑												
80	↑												
90	↑												
100	↑												
110	↑												
120	↑												
130	↑												
140	↑												
150	↑												

Berg dark greenish gray
 clast poor ^{moddy} diamictite w
 Large IRD clasts (~30cm scale)
 Limestone (igneous): 6-16 cm
 (metased): 17-40 cm

sandier w/ depth...
 76 cm ID

massive
 clast poor sandy diamictite
 11
 17

0
 20

CC

grey
 3/10y

FR

