**Expedition 374 Ross Sea:** U1522 A 1R 1 0

*Site: Hole: Core: Sections: Top Depth:*

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

Section: .....

| Offset (cm) | Drilling disturb. | Lithology C St Sd G | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Sangin Han Date: 22/1 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | | 2.5Y 7/6 | | | | SS 4cm | olive yellow sandy mud to muddy sand (0-2 cm) | |
| 20 | | | | normal | | | | overlying gray sandy mud to muddy sand with clasts | |
| 40 | | | | | | | | | |
| 60 | | | Gley1 5N | | | | | lowstone: 7, | |
| 80 | | | | | | | | | |
| 100 | | | | | | | | diam. 1cm sandy mud to muddy sand | |
| 120 | | | | | | | SS 130 | diam. 1cm sandy mud to muddy sand | |
| 140 | | IW | | | | | | | |

142 cm

Section: 2A

| Offset (cm) | Drilling disturb. | Lithology C St Sd G | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other |
|---|---|---|---|---|---|---|---|---|
| 0 | | | 2.5Y 7/6 | | | | | gray sandy mud with clasts |
| 20 | | | | | | | | * 0-8 cm olive yellow may be due to oxidizing during the top sediment. |
| 40 | | | | | | | | |
| 60 | | | Gley1 5N | | | | | |
| 80 | | | | | | | | lowstone: 22, 104-110 |
| 100 | | | | | | | SS 100 | diam. 1cm sandy mud |
| 120 | | | | | | | | |
| 140 | | | | | | | | |

126 cm

Section: CC

| Offset (cm) | Drilling disturb. | Lithology C St Sd G | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other |
|---|---|---|---|---|---|---|---|---|
| 0 | PA | L | | | | | PA | same as section 2A |
| 20 | | | | | | | | lowstone 2-11 (Th 4444?) |
| 40 | | | | | | | | |
| 60 | | | | | | | | |
| 80 | | | | | | | | |
| 100 | | | | | | | | |
| 120 | | | | | | | | |
| 140 | | | | | | | | |

# Expedition 374
# Ross Sea

Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 1R-6R | 0 |

Observer: BAK

Date: 1-22-18

| Offset (cm) | Sec. 1 | Sec. 2 | ~~Sec. 3~~ (CORE 2) | ~~Sec. 4~~ (CORE 3) | ~~Sec. 5~~ (4) | ~~Sec. 6~~ (5) | ~~Sec. 7~~ (6) | CC | Memo |
|---|---|---|---|---|---|---|---|---|---|
| 0–10 | 1 | 0 | N/A | | | | | | |
| 10–20 | 0 | 0 | ← WASHED → | | | | | | |
| 20–30 | 0 | 0 | | GRAVEL. | | | | | |
| 30–40 | 0 | 0 | | CLAST | | | | | |
| 40–50 | 0 | 0 | | COUNT | | | | | |
| 50–60 | 0 | 0 | | MEANING- | | | | | |
| 60–70 | 1 | 0 | | LESS? | | | | | |
| 70–80 | 1 | 0 | | see | | | | | |
| 80–90 | 0 | 0 | | photos. | | | | | |
| 90–100 | 0 | 0 | | | | | | | |
| 100–110 | 0 | 0 | | | | | | | |
| 110–120 | 0 | 0 | | | | | | | |
| 120–130 | 0 | 0 | | | | | | | |
| 130–140 | 0 | 1 | CC | | | | | | |
| 140–150 | 0 | | | | | | | | |

**Expedition 374 Ross Sea:** 41522 A 3R 1A

*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: Sanghee Kim | Date: 2/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | completely crushed! | | |
| 10 | | | | | | | | only cm scale rocks remained. | | |
| 20 | | | | | | | | | | |
| 25 cm | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 40 | | | | | | | | | | |
| 50 | | | | | | | | | | |
| 60 | | | | | | | | | | |
| 70 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 90 | | | | | | | | | | |
| 100 | | | | | | | | | | |
| 110 | | | | | | | | | | |
| 120 | | | | | | | | | | |
| 130 | | | | | | | | | | |
| 140 | | | | | | | | | | |
| 150 | | | | | | | | | | |

**Expedition 374 Ross Sea:** 41522 A 4R 1A + CC

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: [illegible] Date: [illegible] |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | completely washed | |
| 10 | | | | | | | | Only cm-scale rocks remained | |
| 20 | (E) | | | | | | | 36-45cm muddy remained | |
| 30 | | | | | | | | gray sandy mud to muddy sand with clast | |
| 40 | | | 36cm | Sing | | | | | |
| 43 cm | | | | | | | | | |
| 50 | | -CC- | | | | | | | |
| 0 | | | | | | | | same as section 1 | |
| 60 | | | | | | | | | |
| 16 | | | | | | | | | |
| 19 70 | PAL | | | | | | PAL | | |
| 80 | | | | | | | | | |
| 90 | | | | | | | | | |
| 100 | | | | | | | | | |
| 110 | | | | | | | | | |
| 120 | | | | | | | | | |
| 130 | | | | | | | | | |
| 140 | | | | | | | | | |
| 150 | | | | | | | | | |

**Expedition 374 Ross Sea:** 41522 A 5R CC

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: |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | Completely washed; only 1cm-scale rocks remained. 11-23cm remaining and is very sandy and is muddy | |
| 10 | | | | | | | | | |
| 20 | | | | | | | | | |
| 23 cm | | | | | | | | | |
| 30 | | | | | | | | | |
| 40 | | | | | | | | | |
| 50 | | | | | | | | | |
| 60 | | | | | | | | | |
| 70 | | | | | | | | | |
| 80 | | | | | | | | | |
| 90 | | | | | | | | | |
| 100 | | | | | | | | | |
| 110 | | | | | | | | | |
| 120 | | | | | | | | | |
| 130 | | | | | | | | | |
| 140 | | | | | | | | | |
| 150 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 A 6R CC

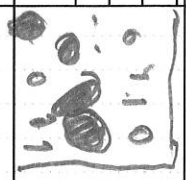
Site: Hole: Core: Section: Top Depth:

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: Singhan Date: 2/1 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | Completely washed, only cm-scale rocks reached. | |
| 10 | | | Gley1 5/N | | | | | | |
| 12 cm | | | | | | | | stained mud on o-ring rock | |
| 20 | | | | | | | | ⇒ gray sandy mud to muddy sand with clasts. | |
| 30 | | | | | | | | | |
| 40 | | | | | | | | | |
| 50 | | | | | | | | | |
| 60 | | | | | | | | | |
| 70 | | | | | | | | | |
| 80 | | | | | | | | | |
| 90 | | | | | | | | | |
| 100 | | | | | | | | | |
| 110 | | | | | | | | | |
| 120 | | | | | | | | | |
| 130 | | | | | | | | | |
| 140 | | | | | | | | | |
| 150 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 7R (Core:) CC (Sections:) 0 (Top Depth:)

Major Lithology: Clast-rich muddy Diamict Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| CC | 0–140 | ↑ ↓ |  | 2.5Y 4/1 | | | | | (0-39)<br>34-39 PAL<br>Dark gray<br>Clast-rich Muddy Diamict<br>1-4cm ⇒ low grade metamorphic clast<br>8-11.5cm ⇒ Arkose sandstone<br>13-19.5cm ⇒ low grade metamorphic<br>20-27.5 ⇒ granite<br>31-34 ⇒ Meta sedimentary | |
| | 0–140 | | | | | | | | | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 7R | 0 |

Observer: Jeanine

Date: 1-22-2018

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 9R (Core:) 1-3 (Sections:) 0 (Top Depth:)

Major Lithology: Clast-rich Massive diatom-bearing Muddy Diamict Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | 2.5Y 4/1 | | | | | Dark gray Clast-rich Muddy Diamict<br>Lonestones at<br>34-36 ⇒ Meta Sed.<br>82-84 ⇒ igneous<br>132-134 ⇒ low grade meta. | 150 |
| 2 | 0–140 | | | | | | | | Dark gray Clast-rich Muddy Diamict<br>Lonestones at<br>92-95: Meta. Sed.?<br>105.5-106.5: Diorite? | 141.5 |
| 3 | 0–140 | | | | | | | | Dark gray Clast-rich Muddy Diamict<br>Lonestones at<br>40-64: low grade meta.<br>78-82: Low grade meta.<br>136-138: Low grade meta<br>125-126.5: Granite | 150 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 9R (Core:) 4 & 5 (Sections:) 0 (Top Depth:)

Major Lithology: Clast-rich massive muddy Diamict Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–120 | // | | 2.5 Y 4/1 | | | | | Dark gray clast-rich muddy diamict<br>Lone stones at 113-121: granitoid? | 121 |
| | 120–140 | | | | | | | | | |
| 5 | 0–140 | | | | | | | | wash out | 10 |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| U1522 | A | 9R | 0 |
|---|---|---|---|
| Site | Hole | Core | Top Depth |

| JLA | 1-22-2018 |
|---|---|
| Observer | Date |

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 10R (Core:) 1-3A (Sections:) 0 (Top Depth:)

Major Lithology: Dark grey Massive Diatom Bearing Clast-rich Muddy Diamict Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | 35; 83; 130 | | 2.5 Y 4/1 | | | | | Dark grey Clast-rich muddy Diamict<br>Lonestones at: 31-32: meta (Mica bearing)<br>82-88 meta. sed.<br>88-100 meta. sed.<br>100-108.5 Granite<br>109-111 meta. sed.<br>113-124 Granite<br>124.5-130.5 Low grade meta. | 140 |
| 2 | 0–80 | | | 2.5 Y 4/1 | | | | | Dark grey Clast-rich Muddy Diamict<br>Lonestones at:<br>68-71: meta sed.<br>16.5-20:<br>49.5-52<br>65-66.5 | 81 |
| 3 | 0–80 | | | 2.5 Y 4/1 | | | | SS | Dark grey Clast-rich muddy Diamict<br>Lonestones at:<br>24-26<br>SS => ≤10% diatoms Diatom Bearing | 75 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 10H (Core:) CCA (Sections:) 0 (Top Depth:)

Major Lithology: Dark gray Massive Clast-rich muddy diamict Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| CC | 0 | // | 10 0 0 | 2.5Y | | | | | clast-rich muddy Diamict. (Dark gray) | |
| | | | PAL | | | | | | | 19/3 |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 | A | 10R | 0
Site | Hole | Core | Top Depth

JLA | 1-22-2018
Observer | Date

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 11R (Core:) 1-3 (Sections:) 0 (Top Depth:)

Dark grey Massive

Major Lithology: Clast-rich Muddy Diamict. Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–120 | | | 2.5Y 4/1 | | | | | Dark Grey Clast-rich Muddy Diamict<br>Lonestones: 55-57 | 127 |
| | 140 | | | | | | | | | |
| 2 | 0–140 | | | 2.5Y 4/1 | | | | | Dark grey Clast-rich Muddy Diamict<br>Lonestones: 12-17, 81-85, 125.5-120, 133-135 | 150 |
| 3 | 0–100 | | | 2.5Y 4/1 | | | | | Dark grey Clast-rich Muddy Diamict<br>Pyrite veins (40-45)<br>Pyrite nodule (46)<br>Lonestones: 58-59.5, 60-62, 62-64, 70-72 | * 97 |
| | 120, 140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 11R (Core:) 4-CC (Sections:) 0 (Top Depth:)

Major Lithology: Massive Clast-rich Muddy Diamict Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–40 | // | | 2.5 Y 4/1 | | | | | Dark grey Clast rich muddy Diamict | |
| | 60–140 | | | | | | | | Corestones: 42-47, 47-49.5 | 57 |
| CC | 0 | // | PAL | | | | | | C | 9 |
| | | | | | | | | | Dark grey clast-rich muddy Diamict | 17 |
| | 20–140 | | | | | | | | 14-17 washout corestone | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 (Site) A (Hole) 11R (Core) 0 (Top Depth)

JLA (Observer) 1-22-2018 (Date)

| Offset (cm) | Sec. 1 | Sec. 2 | Sec. 3 | Sec. 4 | Sec. 5 | Sec. 6 | Sec. 7 | CC | Memo |
|---|---|---|---|---|---|---|---|---|---|
| 0 | >10 | >10 | >10 | 9 | | | | 4 | |
| 10 | >10 | >10 | >10 | 9 | | | | 6 | |
| 20 | >10 | >10 | 10 | 9 | | | | | |
| 30 | >10 | >10 | >10 | >10 | | | | | |
| 40 | >10 | >10 | >10 | >10 | | | | | |
| 50 | 10 | >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 | | | | | | | |
| 140 | | >10 | | | | | | | |
| 150 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 12R (Core:) 1A (Sections:) 0 (Top Depth:)

Major Lithology: Dark grey Massive clast-rich Muddy Diamict Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–60 | | | 5Y 4/1 | | | | | upper 17cm is Dark grey clast-rich Muddy Diamict. Below 17cm is washed out clasts (Meta. sed & granite) | 70 |
| | 80–140 | | | | | | | | | |
| | 0–140 | | | | | | | | | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 12R | 0 |

| Observer | Date |
|---|---|
| JLA | 1-22-2018 |

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 13A (Core:) 1-cc (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | 1/1; 46; 51; 1/1; 108; 5Y | ↑ 0 G 0 0 0 0 ↓ | 5Y 4/1; 1/4 1; 5Y/4/1 | | | | | Massive Dark grey clast-rich muddy Diamict. Lower 108cm is washed out with large clasts of granitoids; wash out with same matrix as Sect 1 and granitoid clasts | 127 |
| CC | 0 | 1/1 | PAL | | | | | | | 13 |
| PAL | | | | | | | | | | 14 |
| | 0–140 | | | | | | | | | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 | A | 13R | 0
Site | Hole | Core | Top Depth

JLA | 1-22-2018
Observer | Date

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

**Expedition 374 Ross Sea:** U1522 | A | 14R | CC

*Site:* *Hole:* *Core:* *Sections:* *Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: Tunghan Kim |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | 2.5Y 4/1 | | | | | Dark gray clast rich sandy diamicte | |
| | 20 | | | | | | | | lorestone) | |
| 26 | 40 | | | | | | | | 0-3, 4-7, 10-14 cm | |
| | 60 | | | | | | | | 22-25 cm | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 14-18 | |

| Observer | Date |
|---|---|
| BAK | 1-23-18 |

| Offset (cm) | 14CC ~~Sec. 1~~ | 15CC ~~Sec. 2~~ | 16-1 ~~Sec. 3~~ | 16-CC ~~Sec. 4~~ | 18-1 ~~Sec. 5~~ | Sec. 6 | Sec. 7 | CC | Memo |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 7 | >10 | 9 | >10 | 1 | | | | |
| 10 | 9 | 3 | 2 | 9 | 2 | | | | |
| 20 | 1 | 1 | >10 | Ø ppk | 1 | | | | |
| 30 | | Ø | >10 | | 1 | | | | |
| 40 | | | >10 | | 1 | | | | |
| 50 | | | >10 | | | | | | |
| 60 | | | 3 | | | | | | |
| 70 | | | >10 | | | | | | |
| 80 | | | 9 | | | | | | |
| 90 | | | | | | | | | |
| 100 | | | | | | | | | |
| 110 | | | | | | | | | |
| 120 | | | | | | | | | |
| 130 | | | | | | | | | |
| 140 | | | | | | | | | |
| 150 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 15R (Core:) CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Singhan Yan | Date: 23/1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | 2.5Y 4/1 | | | | | Dark grey clast with sandy diamict (drop stone!) | | |
| | 20 | | | | | | | PAL | lonestone at 0-4, 7-8, 9-11, 11-20, 20-27 cm | | |
| 26 cm | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | washed rubble gravel | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| | 0 | | | | | | | | | | |
| | 20 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| | 0 | | | | | | | | | | |
| | 20 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |

**Expedition 374 Ross Sea:** 41522 | A | 16R | 1A+CC

Site: | Hole: | Core: | Sections: | Top Depth:

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Sung Han Kim | Date: 23/1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | 2.5Y 4/1 | | | | | Dark gray clase-rich sandy diamicton | | |
| | 20 | | | | | | | | | | |
| | 40 | | | | | | | | limestone: 2, 5-13, 17-20, 20-24, 49-52, 59-61, 61-65, 66-70 cm | | |
| | 60 | | | | | | | SS 34 | | | |
| | 80 | | | | | | | | diamicton having sandy mud | | |
| 81 cm | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| CC | 0 | | | 2.5Y 4/1 | | | | | same as sec. 1A | | |
| | 15 | | | | | | | | | | |
| | 20 | PAL | | | | | | PAL | limestone at 4-8, 8-9 | | |
| 21 cm | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| | 0 | | | | | | | | | | |
| | 20 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 A 18 1A

*Site: Hole: Core: Sections: Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | ↑ | | | | | | | Washed gravel. | |
| | 20 | ≥ | | | | | | | 0-8cm - diamicte(?) | |
| | 40 | ↓ | | | | | | | 19-48cm - marble. lateral fracture/ striae (?) | |
| 41 cm | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 A 21R 1A

*Site: Hole: Core: Sections: Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Anghuan Kim | Date: 23/1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | | | | | | washed gravel. | | |
| | 20 | | | | | | | | rubble gravel. | | |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| 21 cm | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| | 0 | | | | | | | | | | |
| | 20 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| | 0 | | | | | | | | | | |
| | 20 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 21 | 0 |

Observer: BAK

Date: 1-23-18

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 22R (Core:) 1–3A (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: Sugarman & Sa 231 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | 2.5Y 4/1 | | | | | Dark gray clast rich sandy diamict with (large) amt of silt module throughout. ↓ Clast<br>Clast?<br>silica nodule: 19, 38-40, 122, 136<br>limestone: 47-49, 68-71, 81-82, 88-90, | |
| 2 | 0–140 | | | | | | | | Clast<br>silica nodule: 40-42<br>limestone: 22, 58-59, 64-65, 69-71, | |
| 3 | 0–140 | | | | | | | 55 66cm | Clast?<br>silica nodule: 39-40, 116, 118, 132, 145<br>limestone: 10-13,<br>muddy clast: 75-77, 146<br>diatom-bearing mud (25%) | |

150

150

148

PAL

42 SW

**Expedition 374 Ross Sea:** U1522 A 22R 4 +CC

Site: Hole: Core: Sections: Top Depth:

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: Slaughter 23/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0 | | | 2.5Y | | | | | Dark gray clast-rich sandy diamict with st nodule throughout | |
| | 20 | | | 4/1 | | | | | | |
| | 40 | (1/1) | | | | (51) | | | lone stone: 22-24, 130-133, 135-138 | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | stain nodule: 51-52 | |
| | 100 | | | | | | | | Clast? | |
| | 120 | | | | | | | | | |
| 138 | 140 | | | | | | | | | |
| CC 15 cm | 0 | (5) | | | | | | | cobble gravel (washed gravel) | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 22 | Ø |

| Observer | Date |
|---|---|
| BAK | 1-23-18 |

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

**Expedition 374 Ross Sea:** U1522 | A | 29R | 1-3 A

*Site:* *Hole:* *Core:* *Sections:* *Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Bingham / Date: 23/ |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | (2) | | | | | | | Dark greenish gray clast with sandy matrix | |
| | 20 | | | | | | | | | |
| | 40 | | | Gley 1 4/5GY | | | | | 1 one stone: 0-7, 41-43, (fallen?) | |
| | 60 | | | | | | | | 5: concretion 102 cm | |
| | 80 | 1, | | | | | | | | |
| | 100 | (3) | | | | (5) | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| 2 | 0 | | | | | | | | Same as sec. 1. | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | 1 one stone 110 cm | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| 114 | | IW | | | | | | IW | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| 3 | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | 1 one stone: 100, 102-104, 113, 119-138 | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 130 | | | | | | | | | |
| | 140 | 3 | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 | A | 23R | 4+CC

Site: | Hole: | Core: | Sections: | Top Depth:

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: KM Date: 23/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0 | | | Gly | | | | | Dark greenish gray clay with sandy diamict (0-94) overlying clay poor sandy diamict (to CC) | |
| | 20 | (↕) | | 4/5GY | | | | | mud clast (9, | |
| | 40 | | | | | | | | line #s 42 (located), 58-59 (located) | |
| | 60 | | | | | | | | 82 | |
| | 80 | (↕) | | | | | | | 42-59: faint vein network | |
| 90 cm | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| CC | 0 | | | | | | | | clay-poor sandy diamict | |
| 22 | 20 | | | | | | | | | |
| 27 cm | 40 | | PAL | | | | | PAL | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
## Ross Sea
Clast Abundance

| U1522 | A | 23R | 0 |
|---|---|---|---|
| Site | Hole | Core | Top Depth |

| JLA | 1-23-2018 |
|---|---|
| Observer | Date |

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 24R (Core:) 1-3A (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Sam | Date: 23/1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | | | | | | | Dark greenish gray clast poor sandy diamicte with faceted limestones | | |
| | 20 | | | only 1 | | | | | | | |
| | 40 | | | | | | | | Sr concretion 8 | | |
| | 60 | | | | | | | | limestone 53, 105-107, | | |
| | 80 | | | | | | | | Calcite concretion 82 | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| 2 | 0 | | | | | | | | Same as section 1 | | |
| | 20 | | | | | | | | limestone: 22, 30-38, 57, | | |
| | 40 | | | | | | | | mud clast: 50 | | |
| | 60 | | | | | | | | Sr concretion: 142-144 | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| 3 | 0 | | | | | | | | Same as sect 1 | | |
| | 20 | | | | | | | | limestone: 0-4, 4, 12-16, 64, 82-84, 96-92 | | |
| | 40 | | | | | | | | Sr concretion: 71 144-146 | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 | A | 24R | 4A

*Site:* *Hole:* *Core:* *Sections:* *Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: S. Kan Date: 23/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | Gley1 | | | | | Rock generally gray clay | |
| | 20 | | | 4/GY | | | | | poor muddy structure | |
| | 40 | | | | 47 | | | | | |
| | 60 | | | | 56 | | 66 31 | | Lonestone: 1, 14, 39-40 | |
| 22 (m) | 80 | | | | | | | | microcracks: 35, | |
| | 100 | | | | | | | | Ca " : 68-71 cm | |
| | 120 | | | | | | | | 43-56 laminated with network | |
| | 140 | | | | | | | | mud clast: 40 cm | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 — Site
A — Hole
24R — Core
0 — Top Depth
JLA — Observer
1-23-2018 — Date

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

3

**Expedition 374 Ross Sea:** V1522 A 26R 1A 0

Site: Hole: Core: Sections: Top Depth:

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–20 | ↑ // ↓ | | olive 1 4/5GY | | | | | Park greenish gray clay poor sandy Diamicts | | 34.5 |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| 2 | 0 | ⊥ | PAL 5 | | | | | | gravel / cobble | | 12.5 |
| | 20 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |
| | 0 | | | | | | | | | | |
| | 20 | | | | | | | | | | |
| | 40 | | | | | | | | | | |
| | 60 | | | | | | | | | | |
| | 80 | | | | | | | | | | |
| | 100 | | | | | | | | | | |
| | 120 | | | | | | | | | | |
| | 140 | | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 — Site
A — Hole
26R — Core
0 — Top Depth
JLA — Observer
1-23-2018 — Date

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

**Expedition 374 Ross Sea:** U1522 | A | 27R | 1-3A | 0

Site: Hole: Core: Sections: Top Depth:

Major Lithology: massive dark greenish gray clast-poor Sandy Diamictite Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | 10YR 4/5GY | | | | | Dark greenish gray clast poor Sandy Diamictite<br>cut surface is sandy but appears much more muddy internally!<br>Si concretion:<br>35-38<br>36-41<br>99.5-103<br>Coneskare<br>78-32 (granitoid), 117-120?<br>22-24 " " | 150 |
| 2 | 0–140 | | | | | | | | Dark greenish gray clast poor Sandy diamictite<br>Coneskare:<br>51-53<br>90-91<br>137.5-138.5 (granitoid)<br>Si concretion:<br>73-76 | 150 |
| 3 | 0–140 | | | | | | | | Dark greenish gray clast poor Sandy diamictite<br>Coneskare:<br>33.5-35<br>81.5-83<br>126.5-127.5<br>143-144 | 150 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 27A (Core:) 4-CC (Sections:) 0 (Top Depth:)

Major Lithology: Massive dark gray clast-poor sandy diamict Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | Dark 1 4/5GY | | | | | Dark greenish gray clast poor sandy diamictite (see comments above section 1 on texture) Lonestones at: 69-70, 87-89 | |
| 5 | 0–140 | | | | | | | | Dark greenish gray clast-poor sandy diamictite Lonestones at: 59-60.5 | |
| CC | 0–140 | | PAL | | | | | | Dark greenish gray clast poor sandy diamictite 0–15 | |

# Expedition 374
# Ross Sea
## Clast Abundance

| U1522 | A | 27R | 0 |
|---|---|---|---|
| Site | Hole | Core | Top Depth |

| JLA | 1-23-2018 |
|---|---|
| Observer | Date |

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

0

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 28R (Core:) 1-3 (Sections:) P (Top Depth:)

Massive Dark greenish gray

Major Lithology: Clast-poor Sandy Diamictite Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Olive 1 / 4/5GY | | | | | Dark greenish gray clast-poor Diamictite<br>Starting to feel more muddy than sandy<br>Shell Frag: 35<br>Silica concretion: 52-55.5<br>Lonestones at: 122.5-126, 55-58, 49.5-51, 0-4 (Fall in?) | 150 |
| 2 | 0–140 | | | | | | | | Dark greenish gray clast-poor Diamictite<br>Lonestones: 48-49, 81-83 granitoid; (Granitoid) 62-64.5, 87-88 "; Mudstone 12-13, 91-93 "; 77-81 | 150 |
| 3 | 0–80 | | | | | | | | Dark greenish gray clast-poor Diamictite<br>Lonestone: 73-75, 7-9 | 80.5 |
| | 100–140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 28R (Core:) CC (Sections:) 0 (Top Depth:)

Major Lithology: cobble & gravel Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| E.o. | 0 | E.o. | PAL | | | | | | Cobble gravel | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

10

15

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 28R | 0 |

Observer: JLA

Date: 1-23-2018

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 29R (Core:) 1-3 (Sections:) 0 (Top Depth:)

Major Lithology: Massive very dark gray clast-poor muddy Diamictite

Minor Lithology: very dark greenish gray clast poor diamictite to Greenish gray mudstone

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Olive 7 5/5Y | | | | (55) | Massive very dark greenish gray clast-poor muddy diamictite<br>* Slight Fizzing of mud matrix<br>Shell Frag: 103,<br>carbonate cemented<br>Carbonate concretion: 125.5<br>Lonestones: 77-78, 85.5-86.5, 95-96, 122-124 | |
| 2 | 0–140 | | | | | | | | Massive very dark greenish gray clast-poor muddy diamictite<br>carbonate cement<br>Shell frag: 27.5<br>Lonestones: 10.5-12.5, 48.5-50.5, 123.5-124.5 | |
| 3 | 0–140 | | | Olive 7 5/5Y, Olive 1 5/5Y | | | | | (0-75) Massive very dark greenish gray clast poor muddy diamictite<br>(75-132.5) Sharp Boundary of intermixing of Diatom-Bearing greenish gray (5GY 5/1) mudstone (mottled)<br>Lonestones: 12-14, 30-33, 56-59, 85.5-86.5 | |

150

150

132.5

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 29R (Core:) 4 & CC (Sections:) 0 (Top Depth:)

Major Lithology: intermixing of very dark greenish gray clast-poor diamictite to greenish gray mudstone

Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–60 | // | | 5GY 4/5BG; 5GY 4/5BG | | | | SS | Intermixing of very dark greenish gray clast-poor muddy diamictite and greenish gray mudstone (mottled) Lonestar: 40-42.5, 17-18 | 69 |
| | 60–140 | | | | | | | | | |
| | 0–140 | | | | | | | | | |
| CC | 0–140 | // | PAL | " " | OBS | | | | Same as section 4 | 13 |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | ~~[illegible]~~ A | 29 A | 0 |

Observer: JLA

Date: 1-23-2018

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 30R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | olive 1 5/5y | | | | | greenish grey clast-poor muddy Diamictite (Dikran-bearing)<br>Lonestones: 18.5-23, 68-71, 104.5-105.5, 53-56, 8.5-10, 56 (elongate) | 150 |
| 2 | 0–140 | | | olive 1 4/6y | | | | SS<br>SS | greenish gray clast poor muddy diamictite at 37 sharp contact back into very dark greenish gray clast-poor muddy diamictite with interlaminations<br>interlaminations: faint Black planar to slightly inclined (57-69, 93.5, 144-145)<br>Lonestones: 107-110, 69.5-70.5, 14-15 | 150 |
| 3 | 0–140 | | | | | | | | very dark greenish gray clast-poor muddy diamictite<br>interlaminations @ 11-14, 45-64,<br>Lonestones: 21-22.5, 30-31, 42.5-43.5, 78.5-80, 94-97 | 150 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 30R (Core:) 4-CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–100 | ↕ | ↑ ↓ | 10YR 1 7/5Y | | | | | very dark greenish gray clay-poor muddy diamictite<br>Lonestones: 80.5 – 84.5 | 105 |
| | 120–140 | | | | | | | | | |
| CC | 0 | // | | " " | | | | | Same as above | 13 |
| | | | PAL | | | | | | | 19.5 |
| | 20–140 | | | | | | | | | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 30R | 0 |

Observer: JLA

Date: 1-23-2018

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 31R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: YSL Date: 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | ↑ | ↑ | GREY 1 10Y 5/1 | | | | | Greenish gray clast-rich muddy diamictite (diatom bearing) Lonestones: 1-2, 27, 37, 51, 79-80, 90, 93, 105, 114, 131, 135, 148-149 | |
| 2 | 0–140 | ↓ | ↓ | GREY 1 10Y 5/1 | | | | | Greenish gray clast-rich muddy diamictite (diatom bearing) Lonestones: 3, 17-19, 24, 28, 31, 39, 57, 58, 72-73, 94-95, 105, | |
| 3 | 0–140 | ↓ | ↓ | GREY 1 10Y 5/1 | | | | | Greenish gray clast-rich muddy diamictite (diatom bearing) Lonestones: 5-6, 23-24, 28, 29, 53, 82, 84 | |

**Expedition 374 Ross Sea:** U1522 A 31R 4A-CC 0

Site: Hole: Core: Sections: Top Depth:

Major Lithology: Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: JL Date: 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | ↑ 1/1 ↓ | ↑ ↓ | 6Y 4/1 10Y 5/1 | | | | | Greenish gray clast-rich muddy diamicte (diatom bearing) | |
| | | | | | | | | | Lonstones: 18, 43-52, 56, 60-62, 66; | |
| CC | 0–140 | ↓ | ↓ | ↓ | | | | | Same as above | |
| | 0 | PAL | | | | | | | | 11 cm |
| | 20–140 | | | | | | | | Lonstone: 3, 5 | |
| | 0–140 | | | | | | | | | |

# Expedition 374
## Ross Sea
### Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 31R | 0 |

Observer: JLA

Date: 1-23-2018

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 32K (Core:) 1-CC (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | ↑ | | GLEY1 10Y 5/1 | | | | | Two smaller intervals of lamination recognized from color variations<br>Greenish gray clast-rich muddy diamictite (diamicton bedding)<br>Lonstone: 6, 7, 14, 16, 27, 35, 50, 63 | |
| CC | 0–140 | ↓ | PAL | | | | | | 7<br>13.5<br>Lonstone: 1 | |
| | 0–140 | | | | | | | | | |

0 20 40 60 80 100 120 140

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 32R | 0 |

| Observer | Date |
|---|---|
| JLA | 1-23-2018 |

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

**Expedition 374 Ross Sea:** U1522 A 33R 1-CC 0

Site: Hole: Core: Sections: Top Depth:

Major Lithology: Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: JBC Date: 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0–140 | | | GREY 1 5Y/10Y Gray | | | | | Gray clast-rich muddy diamictite (diatom bearing) Lonestone: 0-2, 3, 8-10, 14 37-39 41, 44, 62, 79, 42-49, 124, 132, 135 | |
| | 0–140 | | | | | | | | (same as above) Lonestone: 6, 22-47, 50, 51, 92, 113, | |
| | 0–140 | | | | | | | | | |

PAL

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# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 33R | 0 |

Observer: JLA

Date: 1-23-2018

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

**Expedition 374 Ross Sea:** U1522 A 34R 1-CC 0

*Site: Hole: Core: Sections: Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: JR Date: 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0–140 | | | GREY 1 5/N Gray | | | | | Gray clast-rich muddy diamictite<br>Faint, irregular interlamination sec by color changes (grayish / green)<br>Lonestone: 6, 11, 16, 34, 43, 47, 101, | |
| | 0–140 | | | | | | | | (same as above)<br>Lonestone: 0, 5, 27, 53, 59, 81, 101<br>Carbonate concretion 86 | |
| | 0–140 | X X | | | | | | | 13<br>19 | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 — Site
A — Hole
34R — Core
0 — Top Depth
JLA — Observer
1-23-2018 — Date

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

**Expedition 374 Ross Sea:** U1522 | A | 35R | 1,2,CC

*Site:* | *Hole:* | *Core:* | *Sections:* | *Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: J. Kim 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Greyish | | | | | Dark greenish grey clayey-silt sandy diamict<br>limestone: 0–10, 10–15, 40–41<br>Veins and veinlets: 29–33, 69, 88, 98–101, 126–128, 129–130, 149<br>120–150 | |
| 2 | 0–140 | | 96<br>118 | | | | | | Dark greenish grey clayey-silt muddy diamict<br>limestone at 29, 45–46, 75, 97<br>fine sandstone (paleogene erratic??)<br>Core Core 0 – 21cm | |
| CC | 0–140 | | | | | | | | | |

# Expedition 374
## Ross Sea
### Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 35 | 0 |

Observer: BAK

Date: 1-24-18

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

less than one cm. (total length ~151cm)

**Expedition 374 Ross Sea:** U1522 | A | 36R | 1

*Site:* *Hole:* *Core:* *Sections:* *Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: S. Kim Date: 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| 4) | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
# Ross Sea

## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 36-43 | Ø |

Observer: BAK

Date: 1-24-18

| Offset (cm) | 36-1 ~~Sec. 1~~ | 37-1 ~~Sec. 2~~ | 37-2 ~~Sec. 3~~ | 37-3 + CC ~~Sec. 4~~ | 38-1 ~~Sec. 5~~ | 38-2 + CC ~~Sec. 6~~ | 42-CC ~~Sec. 7~~ | 43-C CC | Memo |
|---|---|---|---|---|---|---|---|---|---|
| 0 | >10 | >10 | 9 | >10 | 8 | >10 | >10 | 1 | |
| 10 | 9 | >10 | >10 | >10 | >10 | >10 | | | |
| 20 | >10 | >10 | >10 | >10 | 7 | >10 | | | |
| 30 | 2 | >10 | >10 | >10 | >10 | >10 | | | |
| 40 | Ø | 5 | 9 | 7 | 7 | 7 | | | |
| 50 | | >10 | >10 | >10 | >10 | >10 | | | |
| 60 | | >10 | 6 | >10 | >10 | >10 | | | |
| 70 | | >10 | >10 | >10 | >10 | 6 | | | |
| 80 | | 7 | >10 | >10 | >10 | 8 | | | |
| 90 | | >10 | >10 | ↓CC | >10 | >10 | | | |
| 100 | | >10 | >10 | 9 | >10 | >10 | | | |
| 110 | | >10 | >10 | | >10 | ↓CC | | | |
| 120 | | >10 | 9 | | >10 | >10 | | | |
| 130 | | >10 | >10 | | 8 | >10 | | | |
| 140 | | >10 | >10 | | | | | | |
| 150 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 A 37R 1-3H

Site: Hole: Core: Sections: Top Depth:

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: 4.4m / Date: 5.6m |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | | | | | | | | pale greenish gray clast-rich sandy diamicton | |
| | 20 | | | Gley1 | | | | | | |
| | 40 | | | 4/ 5GY | | | | | | |
| | 60 | | | | | | | | limestone: 144 (139) | minor: sand muddy diatom ooze |
| | 80 | | | | | | | 55 95 | vein-like: 72-53 | |
| | 100 | | | | | | | | fine mud laminae, mud mottle(?) (soft) | |
| | 120 | | | | | | | | 63, 73, 77, 94-96, 113-114 (mud laminae) | |
| | 140 | | | | | | | | 130-131 | |
| 2 | 0 | | | | | | | | Same as sec 1. | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | limestone: 3-5, 17-20, 61-67, 93-95 | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | shell frag. 96 cm (large) | |
| | 100 | | | | | | | | diatom bearing (?) sand 95-98; fine laminae 98-101 (mottled) | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| 3 | 0 | | | | | | | | Same as sec 1. | |
| | 20 | | | | | | | | pyrite(?) mottling: 65-69 | |
| | 40 | | | | | | | 55 42 | | |
| | 60 | | | | | | | | limestone at 54 | |
| | 80 | | | | | | | | major diatom-rich sand | |
| 92 cm | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 A 37R CC

*Site: Hole: Core: Sections: Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: S. Kan 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| CC | 0 | | | Olive Gr | | | | | Dark greenish gray clayst | |
| 10 cm | 20 | PAL | | Gr | | | | PAL | with sandy diamictite | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 A 38R 1, 2, CC

*Site: Hole: Core: Sections: Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: S. Kim Date: 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 (140 cm) | | | Gley1 4/5gy | | 7, 30, 93 | | SS 8 cm | Pale greenish gray clayey rich sandy diamictite faint discontinuous distortion (?) and laminae 7–26, 33–35, 82–85 86–93: vein network. Lime stone: 6, 30 minor mud-bed from 0022 | |
| 2 | 0–100 (109 cm) | | | | | | | | same as sec.1. Lime stone: 17, 71–74, 75–77, 77–81, 81–85 | |
| CC | 0–20 (19 cm) | | | | | | | | same as sec 1 | |

**Expedition 374 Ross Sea:** U1522 A 42R CC + 43R CC

*Site: Hole: Core: Sections: Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: S. Kim Date: 24/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 42R-CC | 0 | 3G | | | | | | | washed gravel | |
| | 8 cm | PAC | | | | | | PAC | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| 43R-CC | 0 | PAC | | | | | | PAC | washed gravel | |
| | 2 | 3G | | | | | | | | |
| | 12 cm 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 45R (Core:) 1, 2, CC (Sections:) 0 (Top Depth:)

Major Lithology: Massive ~~Very~~ dark gray clast-rich Sandy Diamictite Minor Lithology: Diatomite with glauconite

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Gray 7/5GY | | | | | Massive, dark gray clast-rich Sandy diamictite (Diatom rich)<br>Lonestones at<br>5-7 ⇒ meta. sed<br>20.5-21.5 ⇒ granite<br>66-67 ⇒ granite<br>88-90 ⇒<br>87-88 ⇒ meta. sed<br>125.5-126.5 ⇒ granite<br>141.5-144.5 ⇒ Meta. Sed | |
| 2 | 0–80 | | | 5/10Y | | | | 55<br>55<br>35 | Massive dark greenish gray clast-poor Sandy diamictite (Diatom-rich)<br>75-76 laminae of Sand (flaser bedding)<br>at 78 clast cluster<br>at 57-61 Sharp but brecciated contact<br>Lonestone at 57-58.5, 24-27, 43-44 | 86 |
| | 100–140 | | | | | | | | Diatomite with glauconite | |
| | 0–20 | S | PAL 880 | | | | | | Washed and gravel some glauconite Sand. | 11 |
| | 20–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| U1522 | A | 45R | 0 |
|---|---|---|---|
| Site | Hole | Core | Top Depth |

| JLA | 1-24-2018 |
|---|---|
| Observer | Date |

| Offset (cm) | Sec. 1 | Sec. 2 | Sec. 3 | Sec. 4 | Sec. 5 | Sec. 6 | Sec. 7 | CC | Memo |
|---|---|---|---|---|---|---|---|---|---|
| 0–10 | 7 | 10 | | | | | | 710 | |
| 10–20 | 710 | 710 | | | | | | | |
| 20–30 | 710 | 710 | | | | | | | |
| 30–40 | 9 | 10 | | | | | | | |
| 40–50 | 710 | 710 | | | | | | | |
| 50–60 | 710 | 710 | | | | | | | |
| 60–70 | 7 | 2 | | | | | | | |
| 70–80 | 7 | 8 | | | | | | | |
| 80–90 | 710 | 2 | | | | | | | |
| 90–100 | 8 | | | | | | | | |
| 100–110 | 2 | | | | | | | | |
| 110–120 | 7 | | | | | | | | |
| 120–130 | 710 | | | | | | | | |
| 130–140 | 710 | | | | | | | | |
| 140–150 | 710 | | | | | | | | |
| | 4 | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 46R (Core:) 1-3 (Sections:) 0 (Top Depth:)

Major Lithology: massive ~~vf~~ dark greenish gray clast-rich sandy diamictite

Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | ↑ / ↑ / ↓ | | Dark 4/5GY | | | | | dark greenish gray clast-rich sandy diamictite (massive)<br>Lonestones at: 40-42, 50.5-53, 107-112, 119-120.5, 125.5-127, 131-132, 137.5-138.5 (granite), 147.5-150 | 150 |
| 2 | 0–140 | ↓ | | ↓ | | | | SEM | dark greenish gray clast-rich sandy diamictite (massive)<br>Faint vein network of darker & lighter colors – but could be from cutting<br>Lonestones at 18-19, 111.5-112.5, 143-145 (meta. sed.) | 150 |
| 3 | 0–60 | ↓ | | ↓ | | | | | dark greenish gray clast-rich sandy diamictite (massive)<br>Lonestones 12-13, 16-17, 58-63<br>Lonestone @ 58-63 (lithified version of matrix) | 70 |
| | 80–140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 46R (Core:) CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| CC | 0 | // | ;0;0;0 | | | | | | Same as above | |
| | | | PAL | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

Green 4/5GY

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 41522 | A | 46R | 0 |

Observer: JLA

Date: 1-24-2018

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

**Expedition 374 Ross Sea:** U1522 | A | 47R | 1,2,CC | 0

Site: | Hole: | Core: | Sections: | Top Depth:

Massive dark gray clast-rich sandy diamict

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0–100 | ↑ // ↓ | ↑ Q.O (O.O.O) ↓ | dark / H/5GY ↓ | | | | | Dark greenish gray clast-rich sandy diamictite (massive)<br>Lonestones at:<br>1-2, 10.5-11.5, 29.5-30.5, 43.5-44.5, 47.5-49.5, 93.5-94.5 | 101 |
| | 0–74.5 | ↑ // ↓ | ↑ O (O O O) ↓ | dark / H/5GY ↓ | | oooo | | | Dark greenish gray clast-rich sandy diamictite (massive)<br>clast cluster at 18-20<br>[carbonate cementing in matrix probably all throughout]<br>Lonestones at: 34.5-36, 36-37, 45-46, 62-63, 69-71 | 74.5 |
| | 0–21.5 | Σ | O.O. PAL | dark / H/5GY | | | | | gravel or stuff above | 21.5 |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 47R | 0 |

Observer: JL

Date: 1-24-2018

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 48R (Core:) 1-3 (Sections:) 0 (Top Depth:)

Major Lithology: Massive Dark Greenish Gray Clast-rich Sandy Diamictite Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Gray / Olive Gray | | Py | | | Dark greenish gray clast-rich Sandy Diamictite (Massive)<br>Pyrite vein – 46-47<br>Pyrite at 66<br>carbonate cement throughout<br>Mud clast present throughout<br>Lonestones at: 4-6.5, 6.5-10, 10-11.5, 26-27, 55-56 | 145 |
| 2 | 0–140 | | | | | | | | Dark greenish gray clast-rich Sandy diamictite (massive)<br>carbonate cement throughout<br>carbonate concretions: 28-37<br>Mud clasts presents throughout<br>Lonestones at: 45-46, 77.5-78.5, 128-134, 141-142 | 147 |
| 3 | 0–100 | | | | | Py | | TSB | Dark greenish gray clast-poor sandy diamictite<br>Pyrite clasts at 23?<br>Mud clasts increase throughout<br>carbonate cement throughout<br>Lonestones at: 15-16, 25.5-26.5, 50-51, 101-103.<br>at 103 sharp planar contact of limestone (carbonate mudstone) | 111 |
| | 120–140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 48R (Core:) 4-6 (Sections:) 0 (Top Depth:)

Major Lithology: Massive dark greenish gray clast-rich sandy diamictite Minor Lithology: Massive dark greenish gray clast-rich muddy diamictite

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | Gray / Hazy | C | | | | Dark greenish gray clast-poor sandy diamictite<br>mud clasts more common throughout<br>Carbonate concretion at: 60-61<br>Shell Frag: 73.5, 117<br>Lonestones at: 32.5-33.5, 113-114, 127-128 (volcanic with pyrite replacement) | 147 |
| 5 | 0–140 | | | | C | | | | Dark greenish gray clast-poor sandy diamictite<br>Mud clasts common throughout<br>carbonate concretion at: 31-35<br>Lonestones at: 55-56, 115.5-116.5, 119-120.5, 135-138 | 150 |
| 6 | 0–140 | | | | C | | | | Dark greenish gray clast-poor sandy diamicton/clast-~~rich~~ poor at ~10 grades to more muddy Diamictite<br>Mud clasts common throughout<br>between 10-30 gradational contact to Diatom-rich<br>Lonestones at: 52-54 (granitoid)<br>Fracturing orientation is more inclined than planar which is obvious in previous cores. | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 49R (Core:) CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: Diatom-Rich! |
|---|---|---|---|---|---|---|---|---|---|---|
| CC | 0–20 | | PAL | Greyish | | | | | Massive dark greenish gray clast-rich muddy diamictite, mod. drilling disturbance with fracturing & brecciation | 31 |
| | 40–140 | | | | | | | | Diatom-Rich<br>Core Summary: Massive carbonate cemented dark greenish gray clast-poor sandy diamictite ~~grades~~ with gradational change at the top of Section 6 to massive dark greenish gray clast-poor muddy diamictite with common mud clasts. Carbonate concretions occur throughout and are up to 4 cm in size in Section 5 | |
| | 0–140 | | | | | | | | | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 — Site
A — Hole
48R — Core
C — Top Depth
JLA — Observer
1-24-2018 — Date

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

**Expedition 374 Ross Sea:** 41522 (Site:) A (Hole:) 49R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Olive Gray | | | | | Massive Diatom-rich Dark greenish gray clast-rich muddy diamictite<br>carbonate cement<br>Shell frag: 93, 138<br>carbonate concretion: 58<br>Rounded to Subrounded mud clasts of various sizes | 150 |
| 2 | 0–140 | | | | | | | | Massive Diatom-rich Dark greenish gray clast-rich muddy diamictite<br>carbonate cement<br>Large mud clast at 66-68<br>carbonate concretion: 31-32,<br>Lonestones: 145-147<br>Rounded to Subrounded mud clasts of various sizes | 149 |
| 3 | 0–140 | | | | | | | | Massive diatom-rich dark greenish gray clast-rich muddy diamictite<br>carbonate cement<br>Lonestones at 124.5-125.5<br>Rounded to subrounded mud clasts of various sizes | 156 |

**Expedition 374 Ross Sea:** U5228 (Site:) A (Hole:) U49R (Core:) 4-6 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| U | 0–140 | 1/1 | | Color 1 / 5GY | C | | | | Massive Diatom-rich Dark greenish gray clast-rich muddy diamictite<br>Carbonate cement<br>Lonestones at 45-47, 102-104, 109.5-110.5 | 150 |
| V | 0–140 | | | | | | | | Massive diatom-rich Dark greenish gray clast-rich muddy Diamictite<br>Carbonate cement<br>Lonestone at: 144.5-146.5 | 150 |
| W | 0–100 | | | | | | | | massive diatom-rich dark greenish gray clast-rich muddy diamictite<br>Carbonate cement<br>Lonestone at: 27-30.5 (granitoid), 64.5-65.5, 10-12 | 113 |
| | 120–140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 49X (Core:) CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| CC | 0 | | | Light Olive Gray | | | | | Massive dark greenish gray clast-rich muddy diamictite | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | 47 | | |
| | | | PAL | | | | | 55 | carbonate cement | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | Concretion at: 13-15 | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | Core Summary: | |
| | 20 | | | | | | | | Massive Diatom-rich | |
| | 40 | | | | | | | | Dark greenish gray | |
| | 60 | | | | | | | | Clast-rich muddy diamictite. | |
| | 80 | | | | | | | | Abundant mud clast throughout | |
| | 100 | | | | | | | | of various sizes and range from | |
| | 120 | | | | | | | | rounded to subrounded. | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
## Ross Sea
### Clast Abundance

U1522A — Site
A — Hole
49R — Core
0 — Top Depth
JLS — Observer
1-24-2018 — Date

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 50R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | olive / gray | | C | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>carbonate concretion at 77.5<br>Mud clasts throughout but much smaller in size throughout<br>Carbonate cement<br>Lonestone at: 75.5-76.5, 133-135 | 146 |
| 2 | 0–140 | | | | | C | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>Mud clasts throughout<br>Shell frag: 36, 105,<br>carbonate cement<br>Lonestones at 117.5-118.5, 35-37, 108-109, 138.5-140 | 148 |
| 3 | 0–140 | | | | | C | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>Mud clasts throughout<br>carbonate cement<br>Lonestones at: 13.5-16.5, 38-39.5, 96-98, 140-141.5<br>paleogene Erratics | 146 |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 50R | 0 |

Observer: SLA

Date: 1-24-2018

| Offset (cm) | Sec. 1 | Sec. 2 | Sec. 3 | Sec. 4 | Sec. 5 | Sec. 6 | Sec. 7 | CC | Memo |
|---|---|---|---|---|---|---|---|---|---|
| 0–10 | 5 | 8 | 3 | 9 | 7 | | | | |
| 10–20 | 9 | 10 | 10 | >10 | 8 | | | | |
| 20–30 | 6 | 9 | 8 | 8 | 8 | | | | |
| 30–40 | 9 | 10 | 4 | 10 | 8 | | | | |
| 40–50 | 8 | 6 | 8 | 5 | 5 | | | | |
| 50–60 | 8 | 5 | 6 | 10 | 4 | | | | |
| 60–70 | 6 | >10 | 3 | 4 | 7 | | | | |
| 70–80 | 6 | 5 | 6 | 8 | 7 | | | | |
| 80–90 | 9 | 8 | 6 | 7 | 8 | | | | |
| 90–100 | 6 | 6 | 10 | 7 | 4 | | | | |
| 100–110 | 10 | 6 | 9 | >10 | | | | | |
| 110–120 | 8 | 7 | 2 | 7 | | | | | |
| 120–130 | 3 | 5 | 6 | >10 | | | | | |
| 130–140 | 9 | 10 | 9 | 0 | | | | | |
| 140–150 | 4 | 1 | 7 | ~~12~~ | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 51R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | 10YR 4/5GY | | | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>mudclasts ~1/2 cm in size (largest)<br>carbonate cement<br>Lonestones: 16.5-17.5, 73.5-77 (granite), 136.5-137.5, 141-142.5 | 146.5 |
| 2 | 0–140 | | | 10YR 4/5GY | | | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>Shell Frag: 11<br>Carbonate cement<br>Lonestones: 143-147<br>mudclasts ~1/2 cm in size (largest) | 147.5 |
| 3 | 0–140 | | | 10YR 4/5GY | | | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>mudclasts ~1/2 cm in size (largest)<br>Carbonate cement 137<br>Lonestones: 67.5-68.5, 41-42 | 140 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 51R (Core:) 4-6 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | Olive 1 4/5GY<br>0 | | | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>carbonate concretion: ~104<br>Mud clast ~1/2 cm in size (largest)<br>carbonate cement<br>94-122 = brecciated from drilling<br>44-53 =<br>Lonestone: 74-81, 50.5-52<br>granite granite | 136.5 |
| 5 | 0–140 | | | Olive 1 4/5GY | | | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>39 = Brecciated<br>carbonate cement<br>Mud clasts ~1/2 cm in size (largest)<br>Lonestones: 22-23 | 145 |
| 6 | 0–100 | | | Olive 1 4/5GY | | | | | Massive diatom-rich dark greenish gray clast-poor muddy diamictite<br>carbonate cement<br>mud clasts ~1/2 cm in size (largest)<br>Lonestones: 23.5-25, 103-104.5<br>14 = Brecciated from drilling | 104.5 |
| | 120–140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) # (Hole:) 51R (Core:) 7,CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 0–60 | | ↑ ↓ | dark olive gray | | | | | Massive dark greenish gray diatom-rich clast-poor muddy diamictite<br>Carbonate cement<br>mud clast 1/2 cm in size (largest) | 70 |
| | 80–140 | | | | | | | | | |
| | 0–20 | | PAL | | | | | | Same as above | 17<br>22 |
| | 40–140 | | | | | | | | Core summary: ~~Same as~~ Core 50R | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| U1522 | A | 51R | 0 |
|---|---|---|---|
| Site | Hole | Core | Top Depth |

| IS/BAK | 1/25 |
|---|---|
| Observer | Date |

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 52R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/25 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Gley1 4/5GY | | | | | Greenish gray muddy diamictite with mudclasts + metased. clasts fining upsection. (massive)<br>84cm: slight color planar contact → color Δ<br>mudstone lonestones + reddish metased? or SS?<br>90-92 → mstn<br>109-112 - reddish<br>131-133: lighter CaCO3 cement clast<br>Shell frags: 52, 47<br>Vein (siderite?) Bisecting clast @ 91-92 | |
| 2 | 0–140 | | | Gley1 4/5GY<br>2.5Y/ 3/1 | mottled | | | SS33 | massive<br>Greenish gray to very dark gray<br>muddy clast poor diamictite<br>sandy clast rich diamictite<br>lonestone: 47 → sign. 78, 70<br>Sharp inclined color contact @ 70-74 cm<br>Sandier below.<br>lighter mottling 96-122<br>Shell frag: 71<br>chert frags throughout | |
| 3 | 0–140 | | | Gley1 7/10G<br>2.5Y/ 3/1 | intbd? | | | SS 112 | sandy clast poor diamictite<br>light greenish gray carb. cemented mudstone w/ comm. clasts<br>Lonestone; 36 cm<br>31-97 Discontinuous dark/light color alterations → mottling or laminae<br>108 - laminae<br>concretions or sd nmmed clasts 114 119, 88 (green nm) | |

End core

137

127 (12)

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 52R (Core:) 4-CCA (Sections:) 0 (Top Depth:)

Major Lithology: Interbedded sequence without muddy diamictite + sandy diamictite. w/ mudstone with variations in clast Abundance. some bioturbation + stratification in sect. 3/4 +

Minor Lithology:

Logged by: AES Date: 1/25

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | 78; mud | | 2.5Y 3/1; Gley1 4/5GY | | | 9; 39; Diffuse | | very dark gray massive sandy clast poor Diamictite w/ fewer mud clasts<br>Slight color stratif/lamination<br>Lonestone: 54-57<br>99-100 faceted volcanic<br>127-133 - volcanic →<br>Shell @ 57 under lonestone<br>134-138: Carb cemented mudstone w/ disp. clasts<br>139 cm TD |
| 5 | 0–140 | | | Gley1 3/10Y | | | | | very dark greenish gray massive Clast poor sandy Diamictite<br>fine Lam. at 61 cm<br>Lonestone: 70-71<br>146 cm TD |
| 6 | 0–140 | CC | | | | | | PAL | Lonestones<br>55-59<br>74-75 → faceted<br>85 cm TD<br>0<br>110<br>115 Pal |

CC

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 52 | Ø |

Observer: BAK

Date: 1-25-18

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 53R (Core:) 1-3A (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C, St, Sd, G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/25 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0, 20, 40, 60, 80, 100, 120, 140 | | | Gley1 3/10y | | | | | Very dark greenish gray clast rich to clast poor sandy Diamictite (interbedded) Difficult to see any structures due to Drilling Disturbance | |
| | | | | | | | | | 146 cm TD | |
| 2 | 0, 20, 40, 60, 80, 100, 120, 140 | | | | | | | | Lonestone 41 cm | |
| | | | | | | | | | 146 cm TD | |
| 3 | 0, 20, 40, 60, 80, 100, 120, 140 | | | | | | | SS81 | lonestone: 7 74 faceted 145 Shell frags 104, 109 major diatom bearing muddy mud | |
| | | | | | | | | | 146 cm TD | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 53R (Core:) 4-6A (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/25 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | Gley1 3/10y | | | | | very dark greenish gray Clast rich to clast poor massive sandy diamictite<br>Lonestones: 30<br>62-68<br>Small chert? nodule (w/nm) @90cm<br>146 | |
| 5 | 0–140 | | | | | | | | 146 | |
| 6 | 0–140 | | | | | | | | 5-10cm: faint laminations<br>110 | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 53R (Core:) 7+CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/25 |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 0–80 | ↑ ↓ | ↑ ↓ | Gley1 3/10Y ↓ | | ~~Var~~ | | | V. Dark greenish gray massive clast-poor sandy diamictite; ▽ mud intra clast at 37-38; 86 | |
| C C | 0–140 | ↓ | ↓ | ↓ | | | | PAL | 17; 12 | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea

Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 53 | Ø |

Observer: BAK

Date: 1-25-18

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 54R (Core:) 1-CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C, St, Sd, G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/25 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Grey 3/10Y | | | | | massive very dark greenish gray clast poor sandy diamictite w/ lonestones, mud clasts, + carb cemented mud in cc<br>Lonestone: 1-2: Meta sed ?<br>13-15 Chert<br>28-32 meta sed<br>59-72: Granodiorite<br>115-117 meta sed<br>81 - chert<br>123-124: two aligned volcanic granules<br>mud clasts throughout<br>147 cm TD | |
| 2 | 0–140 | | | | | | | | 13cm: faint laminae<br>mud clasts → slightly more than section 1 and small<br>Lonestones 93-94 → meta sed -<br>107-108 faceted $CaCO_3$ cement clast<br>132 cm TD | |
| 3 | 0–60 | | | | | | | | Lonestone: mud clast @ 18-20<br>51 cm TD | |
| | 80–100 | | | | | | | | | |
| CC | 100–140 | | | | | | | PAL | 15<br>19<br>28<br>c. cemented mudstone with common clasts | |

# Expedition 374
# Ross Sea

Clast Abundance

| 1522 | A | 54-55 | 0 |
|---|---|---|---|
| Site | Hole | Core | Top Depth |

| BAK | 1-25-18 |
|---|---|
| Observer | Date |

| Offset (cm) | 54-1 ~~Sec. 1~~ | 54-2 ~~Sec. 2~~ | 54-3, CC ~~Sec. 3~~ | 55-1 ~~Sec. 4~~ | 55-2 ~~Sec. 5~~ | 55-3, CC ~~Sec. 6~~ | Sec. 7 | CC | Memo |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 3 | 4 | 8 | 3 | 5 | >10 | | | |
| 10 | >10 | >10 | 9 | 2 | 8 | 7 | | | |
| 20 | 7 | 8 | 5 | 4 | 5 | >10 | | | |
| 30 | >10 | >10 | 7 | 3 | 5 | >10 | | | |
| 40 | 7 | 8 | 8 | 9 | 6 | >10 | | | |
| 50 | 5 | >10 | 0 | 1 | 7 | 3 | | | |
| 60 | 1 | 6 | 9 | 7 | 7 | 5 | | | |
| 70 | 3 | 3 | 5 | 5 | 9 | 1 | | | |
| 80 | 8 | 8 | PAL | 5 | 6 | 0 | | | |
| 90 | 8 | >10 | 2 | 7 | 3 | | | | |
| 100 | 4 | >10 | | 8 | 7 | | | | |
| 110 | 6 | >10 | | 3 | 5 | | | | |
| 120 | >10 | 9 | | 8 | 9 | | | | |
| 130 | 9 | 2 | | 4 | | | | | |
| 140 | 4 | | | 0 | | | | | |
| 150 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 45R (Core:) 1,2,3,CC (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: SKm Date: 25/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 (142) | | | Gley1 3/10Y | | | | | Very dark greenish gray clast-poor sandy diamictite<br>limestone: 75-77 (metamorphosed), 83, 113 (faceted)<br>fragments of chert throughout<br>118-121 wavy laminae | |
| 2 | 0–140 (130) | | | Gley1 5/5GY | 80, 98, 108, 117 | | | 55, 90, 55a | 0-88 faint lamination<br>limestone: 17-20, 28-32, 56-59 (CaCO3 cemented mud clast), 115-117 cm.<br>diatom bearing sandy mud<br>98-117 greenish gray faintly (laminated?) chert poor sandy (clay muddier) diamictite<br>at 98, 117, color sharp contacts. | |
| 3 | 0–140 (56, 100, 118, 123) | PAL | | | | | | PAL | limestone: 26 (faceted), 52-56 cm (igneous)<br>5-10 m (metamorphosed)<br>limestone at 16-17 cm (Igneous rock) | |

**Expedition 374 Ross Sea:** 56R 1-3 0

*Site: Hole: Core: Sections: Top Depth:*

Major Lithology: Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/25/18 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | (Gley) 4/1 olive | | | | SS 10.5 | massive clast-poor sandy Diamictite w/ lonestones of meta sed + Chert throughout. Sharp color band in sec 3 | |
| | | | | | | | | | 54-55 mottle of lighter material | |
| | | | | | | | | | Lonestone 46-56 : Granodiorite? 112 " | |
| | | | | | | | | | 114 + 146 meta sed | |
| | | | | | | | | | Chert clasts throughout + cluster 27-32 | |
| | | | | | | | | | 146 cm | |
| 2 | 0–100 | | | | | | | | Lonestone : 16 → Faceted Metased | |
| | | | | | | | | | 20 - igneous | |
| | | | | | | | | | 30 - sandstone ] rounded | |
| | | | | | | | | | 50 metased | |
| | | | | | | | | | 70 - Chert | |
| | | | | | | | | | Shell frag : 53 cm | |
| | | | | | | | | | 100 cm TD | |
| 3 | 0–140 | | 2.5Y 4/3 | (Gley) 4/5Y; 56 61 | | | | 55 56, 59, 60 | 56-61 Sharp color band → mudstone? w/ streaks of brown lamnae (Photo) | |
| | | | | | | | | | 62 cm TD Sharp top + erosive bottom | |
| | | | | black layer; dark olive gray mud | | | olive diatomaceous mud | | mottled dark olive gray mud | |

**Expedition 374 Ross Sea:** U1522A (Site:) A (Hole:) 56R (Core:) 4-CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/25/18 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0–140 | | | Gley1 4/5G; 2.5Y 3/1 | | | | 55; 3,4 | Drk greenish gray clast poor sandy diamictite with soft sed def. of very dark gray clast poor sandy diamict (physically intermixed? 23 to 35 – fine laminations at 2-7 cm; 55 cm; very dark gray clast poor sandy diamictite below 48 cm | |
| | 0–140 | | | 2.5Y 3/1 | | | | PAL | Core catcher has clasts including large meta sed lonestone above PAL sample; PAL was taken 0-5cm but we lost it | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 56 | Ø |

Observer: BAK

Date: 1-25-18

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

**Expedition 374 Ross Sea:** 1522 (Site:) A (Hole:) 57 (Core:) 1-3 (Sections:) 0 (Top Depth:)

Major Lithology: clast poor sandy diamictite. Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C, St, Sd, G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: BAK Date: 1-25-18 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | GLEY 1 3/10Y | N/A | | | | very dark greenish grey. clasts at 1 (fall in. igneous) 35, 91 (faceted), 119; shell frag. @ 112; massive | 135 |
| 2 | 0–140 | | | | | | | | very dark greenish grey. clasts at 3, 88 (faceted), 113, 120-3 (granite?); 8-18 lighter colored mottling. shell fragment at 45. | 129 |
| 3 | 0–140 | | | | N/A | | | | clasts at 54 (in situ?), 63, 122 (faceted), 138, 141 | 150 |

**Expedition 374 Ross Sea:** 1522 A 574-CC 0

Site: Hole: Core: Sections: Top Depth:

Major Lithology: clast poor sandy diamictite Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: BAK Date: 1-25-18 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | ↑↓ | | GLEY 1 3/N | | | | | v. dark greenish gray<br>clasts 48, 62, 73, 137<br>massive | 147 |
| 5 | 0–60 | ↑↓ | | | | | | | v. dark greenish gray<br>massive<br>clasts 2-5, 19 (carbonate cement), 37, 44 | 61 |
| | 60–140 | | | | | | | | | |
| CC | 0–20 | ↓ PAL | | | | ϕ | | | v. dark greenish gray<br>113-18 PAL shell 5-6 (carbonate) | 10 |
| | 20–140 | | | | | | | | | |

paleogene erosal?

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 57 | Ø |

| Observer | Date |
|---|---|
| BAK | 1-25-18 |

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

**Expedition 374 Ross Sea:** 41522 (Site:) A (Hole:) 58R (Core:) 1–3 (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: S. Kim Date: 25/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 (138) | | | 5/1g1, 3/1g4 | | | | | Very dark greenish gray clast-poor sandy (but muddier than previous cores) diamictite (massive) | |
| | | | | | | | | | limestone: 60, 69–72 (foraams), 77, | |
| | | | | | | | | | clasts are aligned at 117–119cm | |
| 2 | 0–140 (145) | | | | | | | | limestone: at 3–4, 39, 40, 50–52, 75–77 (meta sed), 92–94, 105–119, 129–131 (meta sed) | |
| | | | | | | | | | shell frag: 121, | |
| 3 | 0–140 (144) | | | | | | | | limestone: at 20, 94–95, 118–120 (meta sed) | |
| | | | | | | | | | clasts are aligned ~15° | |
| | | | | | | | | | sec 1–3 | |
| | | | | | | | | | shell frag: 59 | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 58R (Core:) 4-6 (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C, St, Sd, G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: S.Kim Date: 25/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–100 | | | Gy1 5/10Y | | | | | very dark greenish gray massive ~~clast~~-poor sandy (muddy) diamictite<br>loose stone: 4-7, 19-20, 21-24, 40-41, 93-94, 95-98<br>shell frag: 40 | |
| 5 | 0–146 | | muddy diamictite 47, 109 | | 50, 53, 88, 88 | | | | rim network 50-53 cm, 124-130<br>86-87 gradational color contact: to clast poor muddy diamictite<br>107–110? or 98? not sure due to drilling disturbance)<br>-134- ~~belsed~~ contact. 133-135 | |
| 6 | 0–145 | | | | | -65, 69 | | | rim network 65-69 cm<br>clasts of clasts at 61-62 cm aligned<br>loose stone 89-90<br>4-6: clasts are aligned | 29, 52, 70, 77, 92 |

**Expedition 374 Ross Sea:** U1522 A 58A 7+CC

*Site:* *Hole:* *Core:* *Sections:* *Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 | 0 | | | | | | | | V. dark greenish gray massive | Y.Kim 25/1 |
| | 20 | | | G/3/1 3/10Y | | | | | slight poor sandy diatomite | |
| | 40 | | | | | | | | lime stone at 4-5, 21-23, cm | |
| 55 cm | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| CC | 0 | | | | | | | | | |
| | 17 cm 20 | PAL | 17 | | | | | PAL | lime stone 10-11 cm | |
| 22 | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 58R | 0 |

Observer: IS

Date: 1/26

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 59R (Core:) 1-3 (Sections:) 0cm (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: JC Date: 25/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | | | | | | Dark greenish gray clast-poor sandy diamictite<br>Diatom bearing<br>Carbonate cemented<br>Shell frag: 46<br>Lonstone: 1-2, 18, 31, 56, 58-60, 69, 81-85, 97-98, 110-111, 121, 123 | |
| 2 | 0–140 | | | Gley 1 4/10Y | | | | | Lithology<br>Same as above<br>Lonstones: 12, 34-35, 36, 38, 71-72, 85-86, 143-144, 147-148<br>10:29 cm<br>Faint interlamination seen from color (slightly lighter gray) | |
| 3 | 0–140 | | | | | | | | Lithology: same as above<br>Lonstone: 22-23, 53, 66-67,<br>17-28: faint interlamination seen from color (slightly lighter gray) | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 59R (Core:) 3-6 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: YSL Date: 26/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–80 | | | GLEY1 4/10Y | | | | | Dark greenish gray diatom bearing, clast-rich sandy diamictite<br>Lonstone: 1-3, 25-26, 36-37, | |
| | 80 | | | | | | | | | 84 |
| | 100–140 | | | | | | | | | |
| 5 | 0–140 | | | GLEY1 4/10Y | | | | | Lithology: Same as above<br>Lonestone: 5, 14, 17, 34, 42, 69-70, 84, 97-98, 129, 140,<br>Shell frag: 47 | |
| 6 | 0–80 | | F | GLEY1 4/10Y | | | | | Lithology: Same as above<br>Lonestone - 19, 65, 78, 79<br>Faint vein network throughout | |
| | 80 | | | | | | | | | 83 |
| | 100–140 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 59R (Core:) 7 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: [illegible] Date: 26/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | | | GREY 1 7/10Y | | | | | Dark greenish gray diatom-bearing, clast-rich sandy diamicton | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | Lonestone: 7, 12-13, 18, 22-24, 41, 57-59, 78, 91 | |
| | 80 | | | | | | | | Faint vein network throughout | |
| | 100 | | | | | | | | | |
| | 120 | | | | | X | X | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 59R | 0 |

Observer: IS

Date: 1/26

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

**Expedition 374 Ross Sea:** U1522 (Site) A (Hole) 60X (Core) 1-3 (Sections) 0 (Top Depth)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: DC Date: 25/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | | | | | | Dark greenish gray Diatom bearing clast-rich sandy diamicton<br>Carbonate cemented<br>Lonestone: 9, 18, 27, 36, 41, 56, 59, 77, 85, 95, 100, 127, 132-134, 140<br>Agular to subrounded, <2cm, of various comp. | |
| 2 | 0–140 | | | GLEY 1 4/10Y | | X | | | Lithology: same as above<br>Faint vein network throughout<br>Lonestones: 4-5, 28, 32 (granite), 56, 69, 72, 88, 99, 104, 108, 129-131 | |
| 3 | 0–140 | | | | | | | | Lithology: same as above<br>Lonestones: 9, 21, 41, 53, 62, 65-66, 74-95, 88-92, 98, 108-109, 119, 134<br>Some very faint vein network throughout | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 60R (Core:) 4-6 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | | | | | | Dark greenish gray diatom bearing clast-rich sandy diamictite<br>Lonstone: 25, 27, 43, 49, 57, 65, 80, 85, 91-92, 106, 108, 119, 131<br>angular to subrounded <2cm various composition<br>134.5 | |
| 5 | 0–140 | | | GLEY 1 4/10Y | | | | | Lithology: same as above<br>Lonstone: 19, 36-41, 89, 98, 100, 103, <5cm in<br>Below 100 cm: faint vein network<br>136 | |
| 6 | 0–140 | | | | | | | | Lithology: same as above<br>Vein network throughout<br>Lonstone: 23, 25, 50, 96-100 <5cm including limestone, granite<br>Some orientation of elongated clasts?<br>112 | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 60R (Core:) 7-CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0–100 | | | 5GY 4/1 | | | | | Dark greenish gray diatom bearing clast-poor muddy diamictite<br>Lonestone: 42<br>Vein network throughout | |
| | 100 | | | | | | | | | 96 |
| | 120–140 | | | | | | | | | |
| | 0 | PAL | | | | | | | Same as above | 5 |
| | 20 | | | | | | | | | 20 |
| | 40–140 | | | | | | | | | |
| | 0–140 | | | | | | | | Core summary:<br>Dark greenish gray diatom bearing clast-rich to clast-poor sandy to muddy diamictite including clasts <5cm angular to subrounded and of various composition<br>Vein network in the lower part of the core | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 60R | |

| Observer | Date |
|---|---|
| IS | 1/26 |

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 61K (Core:) 1-CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: JC Date: 25/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0–122 | | | 10YR 4/1 | | | | | Unconsolidated Dark greenish gray clast-rich sandy diamict heavily disturbed – are there in situ deposits? Lonestones: 0, 29-32, 36, 44-49, 58, 78, 90-91, 118-122 (including basalt) | 122 |
| | 122–140 | | | | | X | | | | |
| | 0–79 | 1 | | ↓ | | | | | Unconsolidated – lithology – same as above? washed? Lonestones: 18, 24, 30, 39, 51-53, 66-70 (including basalt) | 79 |
| | 79–140 | | | | X | X | X | X | | |
| | 0–140 | | | | | | | | Core summary: unconsolidated, heavily to moderately disturbed dark greenish gray clast-rich sandy diamict. Clasts <5cm of various origin and shape | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 374 | U1522 | 61R | |

Observer: IS

Date: 1/26

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 62R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: YJC Date: 25/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0–120 | | | GREY 1 YIOY | | | | | Dark greenish gray clast-rich sandy diamictite<br>Very well cemented (carbonate cement) 62-80 cm<br>Lonestones: 4, 6, 8, 13 (basalt), 19 (basalt), 25, 28, 65-68, 83-84, 102-104 / some clast orientation? | 62 cm |
| | 120–140 | | | | | | | | | 119 cm |
| | 0–90 | | | GREY 1 YIOY | | | | | Lithology: same as above<br>Lonestone: 8-10, 27-29, 29, 47-52, 52-55, 75, 78 (basalt), 84, 87, 92, 96-98, 99, 109, 114, 121<br><6 cm angular - rounded | |
| | 90–140 | | | | uncon | | | | Below ~90 cm: un-consolidated | |
| | 0–80 | | | GREY 1 YIOY | | | | | Lithology: same as above<br>Lonestone: 3, 6, 9, 11, 18, 28, 32, 40, 43, 45, 52, 61, 66; basalt | |
| | 80–140 | | | | | | | | | 87 cm |

**Expedition 374 Ross Sea:** U1522 A 62R CC 0

Site: Hole: Core: Sections: Top Depth:

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: JK Date: 25/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | PAL | | | | | | | | |
| | 20 | X X | | | | | | | Washed clasts + unconsolidated clast-rich sandy diamict | 3 20 |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | Lonestone: <8cm, angular - subrounded | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |
| | 0 | | | | | | | | | |
| | 20 | | | | | | | | | |
| | 40 | | | | | | | | | |
| | 60 | | | | | | | | | |
| | 80 | | | | | | | | | |
| | 100 | | | | | | | | | |
| | 120 | | | | | | | | | |
| | 140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 (Site) A (Hole) 62R (Core) 0 (Top Depth)

JLA (Observer) 1-25-2018 (Date)

| Offset (cm) | Sec. 1 | Sec. 2 | Sec. 3 | Sec. 4 | Sec. 5 | Sec. 6 | Sec. 7 | CC | Memo |
|---|---|---|---|---|---|---|---|---|---|
| 0 | >10 | >10 | >10 | | | | | PAL >10 | |
| 10 | >10 | >10 | >10 | | | | | 1 | |
| 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 | | | | | | | |
| 100 | >10 | >10 | | | | | | | |
| 110 | >10 | >10 | | | | | | | |
| 120 | 3 | >10 | | | | | | | |
| 130 | | | | | | | | | |
| 140 | | | | | | | | | |
| 150 | | | | | | | | | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 63R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | 5/GY, 3/5GY | | | | | Dark greenish gray clast-rich sandy diamictite (massive) throughout<br>→ clast shape rand round-to Angular throughout<br>Lonestones: 109.5-111.5 | 136 |
| 2 | 0–140 | | | | | ∅ ∅ | | | Shell frags 124, 94<br>Lonestones: 7-9, 9-10, 68.5-70.5, 112.5-115, 117.5-120, 136.5-140 | 149 |
| 3 | 0–140 | 116 | | | | | | | Lonestones: 117.5-118.5 | 146 |

**Expedition 374 Ross Sea:** U1522 A 63-R 4-6 0

Site: Hole: Core: Sections: Top Depth:

Major Lithology: Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | 10YR 3/5GY | 50 | | | | at 50 cm an set of faint laminations (color) darker & lighter throughout until Section 6 - where laminations became wavy<br>Shell frag: 94-96 (cluster) not observed on any direction | 137 |
| 5 | 0–140 | | | | | | | | Lonestones: 131.5-132.5 (Basalt), 67.5-68.5, 70.5-71.5, | 147 |
| 6 | 0–140 | | | | | | | | laminations became more wavy in structure compared to above sections<br>Lonestones: 50 (Basalt) | 94.5 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 63R (Core:) CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| CC | 0–60 | 43 / 63 | PAC | | | | | | Same as above<br>Lowestone: 15-17 (Basalt) | |
| | 80–140 | | | | | | | | | 68 |
| | 0–140 | | | | | | | | Core Summary: Massive dark greenish gray clast-rich ~~Dr~~ Sandy Diamictite with planar and wavy laminations.<br>Clasts are diverse (metasedimentary, Basalt, igneous), and range from rounded to angular. Very hard.<br>Between sections 5 and 6 laminations become more wavy and irregular. Intervals of moderate drilling disturbance are more sandy ~~than above and below~~ than beds above and below. | |

0 20 40 60 80 100 120 140

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 63R | 0 |

Observer: JLA

Date: 1-25-2018

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

**Expedition 374 Ross Sea:** U1523 (Site:) A (Hole:) 64R (Core:) 1-3 (Sections:) 0 (Top Depth:)

Major Lithology: Massive Dark greenish gray clast-rich Sandy diamictite

Minor Lithology: interlaminations of darker to lighter greenish grey ~~Sandy~~ clast-rich sandy diamictite

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | 10YR 3/5GY | | | | | Diatom-bearing. Dark greenish gray clast-rich sandy diamictite. Massive throughout until section 3 where de-scale bedding and wavy laminae become apparent. carbonate cement throughout. Lonestones: 113-116, 115-118.5, 42-43, 53.5-54.5 → igneous | |
| 2 | 0–140 | 15, 46 | | | | | | | Shell Frag: 137. Lonestones: 86.5-88.5, 107.5-109.5 (granitoid), 136-137, 137-138 (Basalt) → chlorite bearing? | |
| 3 | 0–140 | | | | | | | | Mottling becomes more obvious. Faint black laminations throughout. Flaser bedding at 95-102. de-scale bedding at 95cm (color band changes). Lonestones: 29.5-30.5 (granitoid with mica), 74-76 (Basalt), 83-84 (granitoid), 114-115, 133-134, 141-142.5 (granitoid) | |

140

145

144

**Expedition 374 Ross Sea:** U1522 A 6H 4 & CC 0

Site: Hole: Core: Sections: Top Depth:

Major Lithology: interlaminations of darker to lighter greenish gray clast-rich sandy diamictite (mottled) Minor Lithology:

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–100 | | 95 VOID 102 | 10YR 3/5BY | | | | SS | Faint laminae and vein network throughout. Mottled. Lonestones: 39.5–41.5 (granitoid), 80–88 (carbonate), 88–92 (metased) | |
| | 120–140 | | | | | | | | | 107.5 |
| 5 | 0–20 | | 16 PAL | | | | | | Same as above | 22 |
| | 40–140 | | | | | | | | Core Summary: Massive dark greenish gray clast-rich sandy diamictite (diatom-bearing) with interlaminations and beds of darker and lighter greenish gray clast-rich sandy diamictite. There is a gradational | EC |
| | 0–140 | | | | | | | | Change at the base 30 cm Section 2 from more massive to interlaminations with mottling. Clasts are diverse in size and composition including granitoids, igneous, metased sedimentary | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 | A | 04R | 0
Site | Hole | Core | Top Depth

JA | 1-25-2018
Observer | Date

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 65R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/26 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Gley1 3/10Y; slightly | 93; 105 | | | | | |
| 2 | 0–140 | | Sandy; Muddy; sandy 135 | Gley1 3/10Y; Gley1 4/5GY | | | flaggered; dark mud; high | SS 131 | | |
| 3 | 0–140 | | Sandy | Gley 4/5GY; 3/10Y; Gley 3/10Y | | | major dark mud; high | SS 101 | | |

1

V Dark greenish gray interbeded clast poor sandy – muddy diamictite w/ intervals of stratification + cross bedding. Lonestones throughout are igneous + metased. but no obvious orientation

Lonestone 40 → igneous
110 → "
117 + 118 – meta sed

93-105: Slight cross bedding / wavy lam
102-108 – Parallel lam → tilting
115-119: Lower boundary is a clast with lam draped over it thicker on Right side. Larger clast on top + another lam. draped over top

138 cm TD

2

Dark greenish gray clast poor muddy diamictite
2 80-138 cm

63-86 → fine wavy lam
76-86: inclined to curved boundary
107-111 → faint wavy laminations
122-125 → lense of darker sed
135-137 faint lam w/ one oriented onestone
146 TD

3

0-11 cm: wavy lam / flames w/ Lenses of darker gray in sandier lighter gray w/ chert clast + faint lam at bottom

Stratified Sandy v dark gray. Shell frag @ 16cm

Lonestone: 71: meta sed
79 meta sed
83 meta sed
90 igneous
99 meta sed
115 igneous faceted

147 DR

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 65R (Core:) 4-CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/26 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | Gley1 3/10Y; Gley1 4/5GY | | | | | v. Dark gray to Drk greenish gray Clast rich muddy to sandy Diamictite<br>inclined color transition 27-30<br>Lense of Darker sandier at 29 + 48-52<br>Lonestones:<br>36 – igne. Shell frag: 77<br>37 Igne<br>63 "<br>64 "<br>85-87 – faceted igneous → granite<br>91, 109 – igneous<br>130 cm 120-meta sed | |
| 5 | 0–140 | | | Gley1 3/10Y | | | | | Sandy Diamictite → clast poor<br>Shell frag at 29<br>58 – 60 → Wavy Lamin.<br>Lonestone – 75 – 76 Igneous<br>89 – 94 – faint vein network?<br>129-130 Faceted meta sed Lonestone<br>143cm | |
| 6 | 0–40 | | | | | | | | 9–10: Shell<br>28-29: lone stone IG<br>55.6m | |
| | 60–100 | | | | | | | | 0 | |
| CC | 100–140 | | | | | | | PAL | 1 Lonestone 7-11 → igneous?<br>16 | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 65 | Ø |

Observer: BAK

Date: 1-26-2018

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

**Expedition 374 Ross Sea:** U1922 (Site:) A (Hole:) 66R (Core:) 1-3 (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: 5.4m Date: 26/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–120 | | | Gley1 3/1 | | | | | massive clast poor sandy diamictite; vein network → black 30-40; Lonestone → igneous 31-59 cm; 85: mudclast | |
| 1 | 120–140 | | | | | | | | 124 | |
| 2 | 0–120 | | | | | | | | faceted lonestone metased → 86-87 | |
| 2 | 120–140 | | | | | | | | 129 | |
| 3 | 0–100 | | | | | | | 83 to 95 | major diatom bearing mud; 99-103 meta. lonestone | |
| 3 | 100–140 | | | | | | | | 109 | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 66R (Core:) 4-CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/26 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | Gley1 3/10y | | ϕ ϕ | | | v. Dark Greenish gray massive clast poor sandy diamictite. 24 46-47 Shell frag 61 | |
| CC | 0–140 | | | | | | | PAL | 5 5-16 → same as above 16-24 Limestone → meta sed 24 | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 66 | Ø |

Observer: BAK

Date: 1-26-18

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 67R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/26 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | ↑ ↓ | Sandy | olive 4/3GY; 3/1GY; 4/3GY; Gley1 3/1GY; 4/3GY | 92, 102, 138 | ø | ↑25 2 ↓48; many burrowing sand | 59, 79 | Gradational contact → color 25-48; shell frag 18, 19, 72-73, 81, 143; lonestones 27, 72; wavy laminations w/ sand + clasts @ 73, 74; wavy contact – sandier below; wavy contact 92, 139, 102; 146 TD | |
| 2 | 0–141 | ↑ ↓ | Muddy | Gley1 3/1GY | 57 | ø | 2 | | muddy clast Poor; sand lense 6, 16; lonestones 27, 43, 63 (meta), 73-75 (volc), 83, 107, 123 (meta); color contact: 57; Shell frag: 26; 141 TD | |
| 3 | 0–122 | ↑ ↓ | Sandy | | | | | | Lonestones: 72, 74-77 (volc, meta sd), 107; 122 | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 67R (Core:) 4–CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/26 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–100 | ↑↓ | Sandy | Grey 3/10Y | | | | | N. Dark. Massive sandy clast poor diamicton | |
| | 40–60 | | | | | | | | Lonestone: 6-7, 30 sed | |
| | 100 | | | | | | | | shell frag at 98 | |
| | 108 | | | | | | | | | |
| 5 | 0–100 | ↑↓ | | | | | | | | |
| | 40–60 | | | | | | | | Lonestone: 8, 41, 106 – Faceted | |
| | 111 | | | | | | | | | |
| 6 | 0–120 | ↑↓ | | | | | | | | |
| | 40–60 | | | | | | | | 21–23 – mudstone clast faceted 33, 37 ] i.G. | |
| | 134 | | | | | | | | | |
| CC | 140 | | | | | | | | | |

16-21 – Pat

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 67 | Ø |

Observer: BAK

Date: 1-26-18

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 68R (Core:) 1–3 (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C, St, Sd, G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: SKm Date: 26/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–120 | | | 5Gy/1, 3/1 | | | | | V. dark greenish gray massive clast-rich sandy diamictite; 36–37 (in stratum?); limestone 49–51 (ign), 74–78 (ign); many faceted clasts; shell frag ; 52 (?) | |
| | 120–140 (26) | | | | | | | | | |
| 2 | 0–140 (134) | | | | | | | | limestone 12–14 (faceted med. sd), 78–81, 97–101 (basalt); 93–94 aligned clasts like a contact; 127–128 | |
| 3 | 0–140 (142) | | | | | | | | limestone 5–6 (ign), 52 (basalt), 53–55 (in stratum? ign), 70, (med. sd), 115 (ign); basalt hydration? | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 68R (Core:) 4-6+CC (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: ~~Km~~ Date: 26/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | 5Y4/1; 3/0/4 | | | | | V. dark greenish gray massive clast-rich sandy diamictite; limestone: 23–27 (ign), 87–88 (" ") | |
| | 62–76 | | VOID | | | | | | | |
| 14 | | | | | | | | | | |
| 5 | 0–140 | | | | | | | | same as section 4. but clast-poor; limestone: 14–15 (sed); 52–55 (meta sed in stock); 96 (ign) volcanic? 12–15 cm: ~~sedimentary deformation~~ ~~tense~~ with flame structure; thin layers of lighter color at 73–77 | |
| 10 | | | | | | | | | | |
| 6 | 0–140 | | | | | | | | limestone 57–60 cm (ign) | |
| 6 | | | | | | | | | | |
| CC 0 | | | | | | | | | limestone – 10–11 (chert frag) | |
| 23–28 | | | PAL | | | | | PAL | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 68 | Ø |

Observer: BAK

Date: 1-26-18

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 69 (Core:) 1–CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/26 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Gray 3/10Y | | | | SS115 | V. Dark greenish gray carb. cemented mudstone 0–7 cm w/ common clasts 57–77 cm<br>Limestone: 8, 39, 49 (volc)<br>interbedded w/ clast poor sandy diamictite 7–57 cm<br>Major 77–135<br>diatom-bearing mudstone 99 (hackett)<br>134 cm TD | |
| CC | 0–140 | | | | | | | PAL 9–14 | | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 69 | 0 |

Observer: BAK

Date: 1-26/18

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 70R (Core:) 1-3 (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: SI Date: 26/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 (4cm) – 140 (140cm) | | | gray 1 3/10Y | | | | | very dark greenish gray massive clast-poor sandy diamictite. Lonestone: 0-4cm (granite) (igne), 25-26, 56-60 (meta sed.), 110-111 (Faceted, meta sed), 137-139 (ign) Shell fragment: 30, 127 some mud clast. | |
| 2 | 0 – 140 (146cm) | | | | 13 – 22 | | | | Lonestone: 20-21 (basalt), 69-73 (sand stone, paleogene erratic?) 134-136 (ign.) shell fragment: 38 cm vein network (faint): 13-22 cm | |
| 3 | 0 – 140 (147) | | | | | | | | Lonestone: 18 (ign.), 101-102 (ign) shell fragment: 17, 66 | |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 70R (Core:) 4-5 (Sections:) (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: SI Date: 26/1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–150 | 19 (1/1); 52 (3); 80 (1/1); 110 (3); 150 (1/1) | | gley1 3/10Y | 53–64 (?); 75–83 (?) | | | | Very dark greenish gray. vein network in 53-64 (?), 70-83 (?) Lovestone: 16cm (sediment rock?), 90 cm (mudstone) Shell fragment: 15, ✗ or artefactual by saw cutting? | |
| 5 | 0–80 | 69 | | | | | | PAL | Lovestone: 8 (basalt) | |
| | 0–140 | | | | | | | | | |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 | A | 70R | 0
Site | Hole | Core | Top Depth

JWA | 1-26-2018
Observer | Date

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

**Expedition 374 Ross Sea:** U1522 A 71R 1-3 0

*Site: Hole: Core: Sections: Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Olive 1 / 3/10Y | | | | | Very dark greenish gray clast-poor Sandy diamictite<br>carbonate cemented<br>Lonestones: 50-51, 79.5-80.5, 115-116 | 132 |
| 2 | 0–140 | | | Olive 1 / 5/10Y | | | | 53 | 55-139<br>23-38 Diatom rich bed<br>Lonestones: 43-44, 103-105, 131-132<br>(132) Interlaminated color that continues throughout the core. Laminations are planar, wavy and discontinuous in places, dc-mm-scale | 141 |
| 3 | 0–140 | | | Olive 1 / 5/10Y | | | | | ~~Shell frag. 127.5~~<br>Lonestones: 96-97, 111-114 | 137 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 71R (Core:) 4, 5, 6 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | // | -0 0 0 0 | Olive 5/6 7/6 | | | | | Lonestones: 4-5, 33-34.5, 44-48, 113.5-114.5, 119-120 | 137 |
| 5 | 0–140 | | | | | | | SS | SS=123<br>Clast cluster at 36-39<br>Lonestones: 32.5-34.5, 40-41, 58-61, 90-91, 114-116, 141-142<br>Shearing deformation at base of contacts | |
| 6 | 0–140 | | PAL 16 21 | | | | | | Same as above<br>core summary: Massive very dark greenish gray clast-rich sandy diamictite with a sharp contact in Section 2<br>Where interlamination/fixed occur at cm- to mm-scale or color change. Clasts are diverse and are granitoids & meta sedimentary | 16 21<br>carbonate cemented |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 | A | 71R | 0
Site | Hole | Core | Top Depth

JLA | 1-26-2018
Observer | Date

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 72R (Core:) 4-5-CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Gray 1 5/10Y | | | | | 0–104 Massive Dark greenish gray clast-poor sandy diamictite<br>104–111 granite ~~lag~~ ~~scour~~ inter stratified<br>111 – base ~~interlaminations~~ OL diatom-bearing color, wavy, discontinuous<br>Lonestone at: 105–111, 6–8.5, 24–25, 33.5–36, 66–69, 84–85, 129–131.5 | 139 |
| 2 | 0–140 | | | | | | | | Dark greenish gray clast-poor sandy diamictite with interlaminations Diatom-bearing<br>Lonestones: 47–48, 97–99.5 | 132 |
| 3 | 0–140 | | | | | | | (55) | distinct Flaser bedding: 89–92<br>Dark greenish gray clast-poor sandy diamictite with interlaminations diatom-bearing<br>Shell frag: 129, 71.5–74<br>Lonestones | 150 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 72R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | olive, 3/10Y – olive, 5/2Y – olive gray | | | | SS | 65-101 Diatom-rich mudstone (Diatomite)<br>at 101 Massive clast-poor sandy diamictite<br>Shell frag: 123 | 150 |
| 5 | 0–140 | | | olive gray | | | | SS | 0–79 massive<br>79-to the base of the core gradational change to diatom-rich mudstone (diatomite)<br>Shell frags: 19.5, | 94 |
| CC | 0–140 | | 14<br>FAL 19 | | | | | | PC - cm-scale<br>Core summary: Interstratified beds of dark green clast-poor sandy diamictite with intermixing of laminar diatomite, and massive clast-poor sandy diamictite. Shell fragment occur in sections 3 & 4 while ~~tuffs~~ diverse lonestones occur throughout | 19 |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 — Site
A — Hole
72R — Core
0 — Top Depth
JWA — Observer
1-26-2018 — Date

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 73R (Core:) 1-3 (Sections:) 0 (Top Depth:)

Major Lithology: Massive clast-poor very dark greenish gray sandy diamictite Minor Lithology: Faintly laminated clast-poor sandy diamictite (Diatom ~~Rich~~ Bearing)

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | // | | 5GY 5/1 | | | | | Faintly laminated clast-poor sandy diamictite (Diatom-bearing ~~rich~~)<br>carbonate concretions: 7-9,<br>Lonestones: 4.5-5.5 | |
| 2 | 0–140 | // | | 5GY 5/1<br>5GY 3/1 | | | | SS<br>SS | (SS) Sharp contact to massive clast-poor sandy diamictite<br>Lonestones: 18.5-19.5, 65-66, 69-70, 100.5-103.5, | 141.5 |
| 3 | 0–140 | // | | | | | | | Lonestones: 65.5-66.5<br>92.5-94.5 | 135 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 73R (Core:) 4 5 CC (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | // ↓ 1/1 | (6 O O O O ↓ | ↓ | | | | | 60-87<br>Cone stones: 50-51.5, 101.5-103 | 123 |
| CC | 0–140 | // | PAL | ↓ | | | | | Cone stones: 12-14 | 24 |
| | 0–140 | | | | | | | | Core summary: dm-scale interstratified beds of laminated diatom-bearing clast-poor sandy diamictite and massive clast-poor sandy diamictite. | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| U1522 | A | 73R | 0 |

Observer: SLA

Date: 1-26-2018

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

**Expedition 374 Ross Sea:** U1522 A 74R 1,2,CC 0

*Site: Hole: Core: Sections: Top Depth:*

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Gray 1 3/10Y | | | | | Core summary: Extremely disturbed by drilling. Similar to very dark greenish gray massive clast-poor sandy diamictite. | 150 |
| 2 | 0–140 | | | | | | | | | 150 |
| CC | 0–140 | | 77.5 PAL 83 | | | | | | | 83 |

# Expedition 374
# Ross Sea
## Clast Abundance

U1522 | A | 74R | 0
Site | Hole | Core | Top Depth

JVA | 1-26-2018
Observer | Date

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 75R (Core:) 1-3 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | Gley 1 5/10y | | | | | Faintly laminated to faint vein network Dark greenish gray Sandy diamictite (clast-poor)<br>Coretaves: 25-27, 37.5-38.5, 57-60, 92.5-95, 127-128, 136.5-137.5<br>103 dark lamination with flame structures<br>at 133.5 sharp inclined contact | 141 |
| 2 | 0–140 | | | Gley 1 3/10y | | | | | Faint vein network<br>113 sharp contact to darker more massive Clast-poor Sandy diamictite (Darker - Gley 1 3/10y)<br>Coretaves: | 144 |
| 3 | 0–140 | | | Gley 1 5/10y | | | | 44, 55 | massive very dark greenish gray Sandy diamictite (Clast-poor)<br>Diatom-bearing → light color laminae<br>55-64 bed with flaser structure at the top (Gley 1 5/10y)<br>coretaves: 132-134, 137-139 | 140 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 78R (Core:) 4-6 (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 0–140 | | | | | | | | Same as section above | 142 |
| 5 | 0–140 | | | | | | | | 78-89 (lighter - 6Gley1 5/10y)<br>Lonestones: 27-28, 36-37, 40.5-38 | 148 |
| 6 | 0–140 | | | | | | | 95 | 108-114 (lighter - 6Gley1 5/10y)<br>122-142 (lighter - 6Gley1 5/10y)<br>Lonestones: 43-46, 20-21, 133-134<br>95 → Diatom-rich | 146 |

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 75R (Core:) 7 & cc (Sections:) 0 (Top Depth:)

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: Date: |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | | | | | | massive<br>Concretions. 34-35, 73-74 | 106 |
| cc | 0–140 | | PAL | | | | | | Same as above<br>PAL 8-114<br>Core Summary: Interstratified laminated Diatom-bearing to rich clast-poor Dark greenish gray Sandy diamictite with massive Very dark greenish gray clast-poor | |
| | 0–140 | | | | | | | | Sandy diamictite. Clasts | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 75 | Ø |

Observer: BAK

Date: 1-27-18

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

**Expedition 374 Ross Sea:** U1522 (Site:) A (Hole:) 76R (Core:) 1-CC (Sections:) 0 (Top Depth:) EOS

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

| Section | Offset (cm) | Drilling disturb. | Lithology (C St Sd G) | Color | Sed. Structures | Lith. Accessories | Bioturb. | Samples | Core Description: comments, contacts, recommended photos, other | Logged by: AES Date: 1/27 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0–140 | | | | | | | 55 71 | V Dark greenish gray massive clast poor sandy diamictite | |
| | | | | | | | | | Lonestone: 66-68 cm | |
| | | | | | | | | | major diamictony sandy mud | |
| | | | | | | | | | 150 cm | |
| 2 | 0–140 | | | Gley 1 3/101 | | | | | Lonestones: 8-10, 62, 65 (metaseed?) 106, 110, 139 ig | |
| | | | | | | | | | 126 cm TD | |
| 3 | 0–140 | | | | | | | | Lonestone: 42-45 (ig | |
| | | | | | | | | | 57 cm TD | |
| CC | 0–140 | | | | | | | PAL | muddy clast poor diamictite transition somewhere between 8 + 15 cm | |
| | | | | | | | | | 17 | |
| | | | | | | | | | 22 | |

# Expedition 374
# Ross Sea
## Clast Abundance

| Site | Hole | Core | Top Depth |
|---|---|---|---|
| 1522 | A | 76 | Ø |

Observer: BAK

Date: 1-26-18

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