Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 2R (Core:) 1A (Section:) 264.00m CSF-A (Top Depth:)

Major Lithology: MUD (VOLCANICLASTIC BEARING) Minor Lithology: CLAST POOR DIAMICT

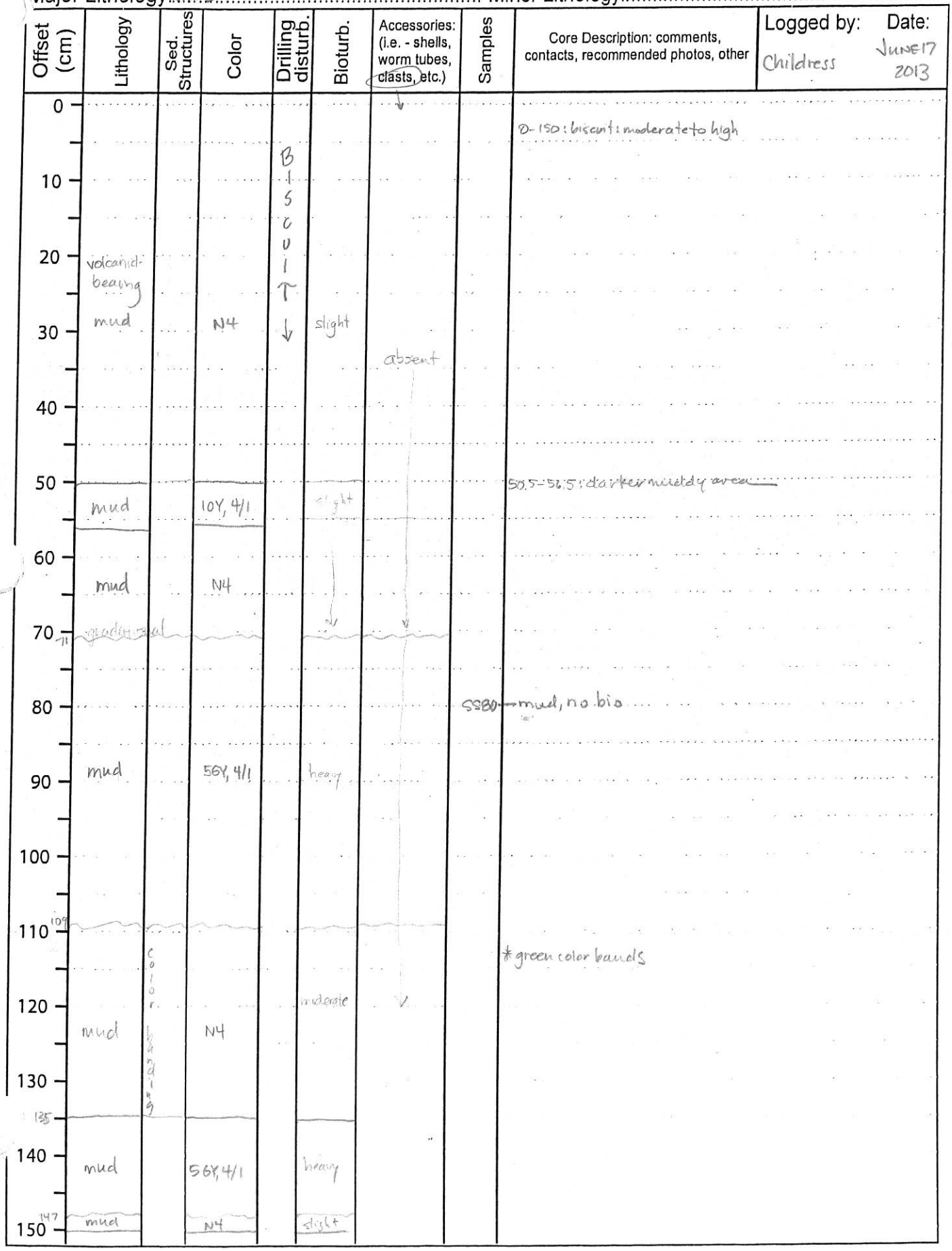
Logged by: Childress Date: JUNE 17 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	mud		N4	faint	slight ↓	absent		0-2: fall-in (biscuit-fe flower) 0-150: biscuiting, mod.
7.5								
10	clast poor muddy diamict		N4	B I S C U I T ↓		>2mm (2) present	SS10	mud w/ silt (no bio)
14		COLOR BANDING*				15		
20								
30								
40								* green/brown color bands (faint)
50								
60	volcaniclast bearing mud		N4			60 67		
70								
80							SS80	→ Volcaniclastic bearing mud (no bio)
90								
100								
110								
120								
130								
140								143-150: silty (7.5YR, 4/1) brown patches
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 2R (Core:) 2A (Section:) 265.50m CSF-A (Top Depth:)

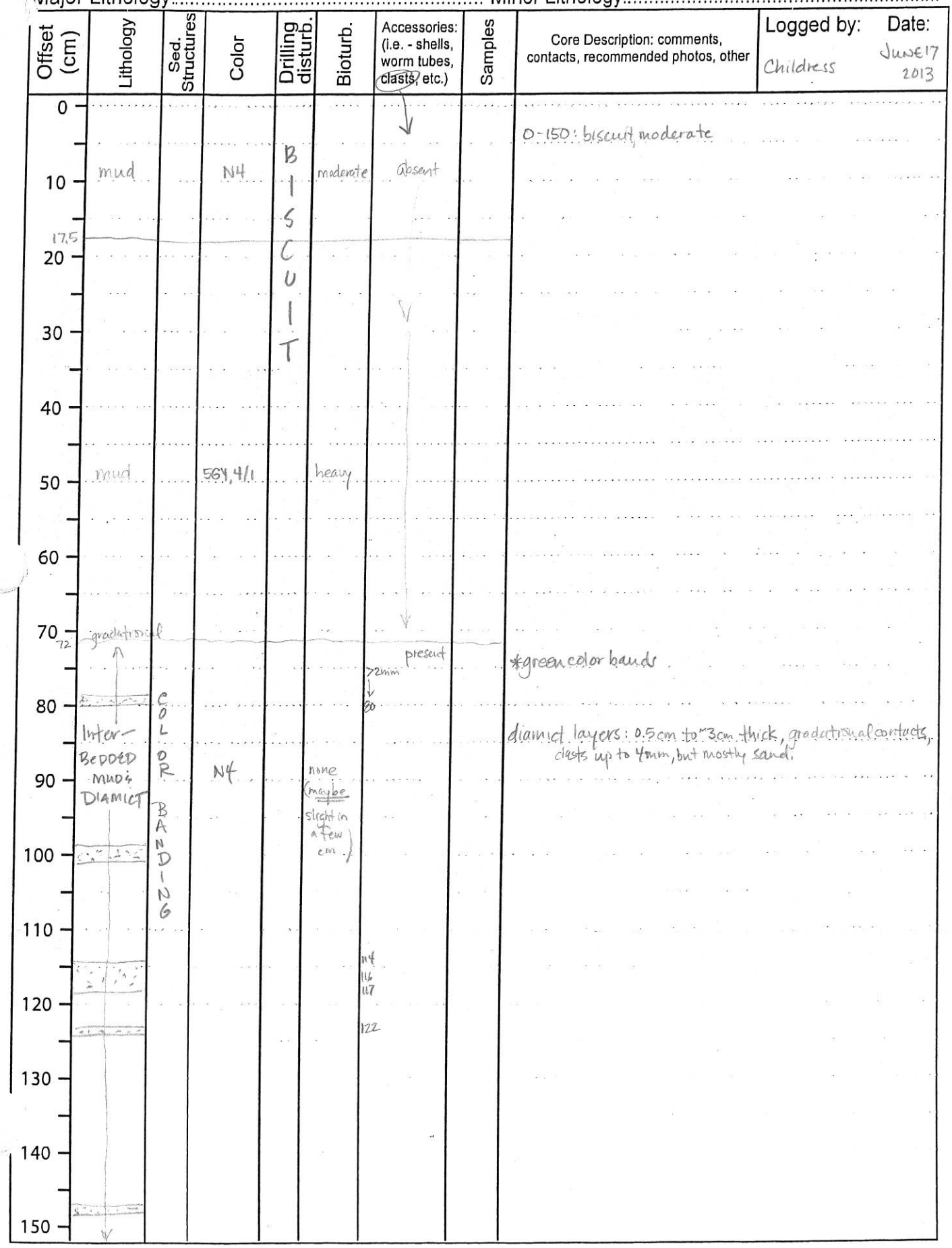
Major Lithology: MUD Minor Lithology:

Logged by: Childress Date: June 17 2013



Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 2R (Core:) 3A (Section:) 267.00m CSF-A (Top Depth:)

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



Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 2R (Core:) 4A (Section:) 268.50m CSF-A (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Childress Date: June 17 2013
0				BISCUIT ↓	slight ↓	present >2mm ↓		0-150: biscuit, slight	
10	Inter-bedded mud & DIAMICT	COLOR BANDING	N4					diamict layers: 0.5cm – ~11cm thick, very gradational contacts (difficult to determine exact thickness)	
20									
30								*green/brown color banding	
40									
50									
60									
70									
80									
90									
100						106			
110									
120									
130									
140						141			
150									

Expedition 341 S. Alaska Margin: U1417 E 2R 5 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: interbedded mud + diamict Minor Lithology: sand

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-17-13 Date:
0									
10	mud							mud with 3 intervals of IRD accumulations, ~5-10cm	
20	diam.		N4						
30									
40								clast poor muddy diamict	
50			N4						
60									
70	mud		N4						
80	sand							6 layers 0.3-1cm of diamict, < 2mm	
90	mud diamict						3592	mud with silt, barren	
100									
110									
120									
130									
140	mud		N4		mud				
150									

Expedition 341 S. Alaska Margin: U1417 E 2R 6. 0-151

Site: Hole: Core: Section: Top Depth:

Major Lithology: mtb bedded mud + diamict Minor Lithology: mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-17-13 Date:
0									
10									
20									
30	mud		N4						
40									
50				slight moderate	moderate bioturb				
60									
70									
80	mtb. mud + diamict							4 layers of clast poor muddy diamict, ≤ 0.5-1cm	
90									
100							SS107	mud + silt, basal	
110									
120									
130									
140				heavy					
150						7 clasts			

Expedition 341 S. Alaska Margin: U1417 E 2R 7 0-53.5

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: clast poor muddy diamict

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, Date: 6-17-13
0								clast poor muddy diamict	
10			N4	biscuiting in sed.	heavy			@7.5cm, layer of clasts >2mm	
20								bioturbated mud	clast angular to subrounded
30	mud		N4						
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 2R CC 0-21

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: KB. Date: 6-12-13
0									
10	mud		N4						
16	PAL								
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 3R (Core:) 1A (Section:) 273.10 m CSF-A (Top Depth:)

Major Lithology: ~~INTERBEDDED MUD & DIAMICT~~ Minor Lithology:

Logged by: Childress Date: June 17 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0				BISCUIT	slight	present in diamict layer and		pynte. clasts: 0-4 (3cm clast) (cm depth) 86,147 (2cm clast - dragged out of place)
10	CALCITE-RICH INTERBEDDED MUD? DIAMICT	COLOR BANDS	N4			>2mm		0-150cm - biscuit, slight to mod.
20								diamict layers: 0.5cm to 2cm thick, gradational contacts, clasts upto 4mm, but mostly sand
30								- faint green color bands
40						44		
50							SS55	→ calcite rich mud
60								
70								
80						83		
90								
95.5	SAND		5GY, 5/1	HEAVY	slight			95.5 - 96.5 - sand layer; coarse
100	INTERBEDDED MUD? DIAMICT (CALCITE BEARING)					106		
110			N4					
120								
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 3R (Core:) 2A (Section:) 274.60 m CSF-A (Top Depth:)

Major Lithology: INTERBEDDED MUDS & DIAMICT Minor Lithology:

Logged by: Childress Date: June 17 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	CALCITE BEARING INTER- bedded mud & DIAMICT ↓	COLOR BANDS ↓	N4 ↓	BISCUIT	slight ↓	>2mm ↓		→ in diamict layers
10								- faint green color bands
20								- 0-150: biscuit, slight to mod.
30								diamict layers: < 1cm to ~ 1cm thick, gradational contacts, mostly sand clasts, but as large as ~ 1cm.
40						41		
50								
60						57		
70								
80								
90				Frack				90-94: mod to high cracking
100								
110								
120	O					114(2)		→ CLAST WITH WEATHERED RIM (GRAYWACKE) ↳ NOT SUBGLACIAL
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 3R (Core:) 3A (Section:) 276.10 m CSF-A (Top Depth:)

Major Lithology: INTERBEDDED MUD & DIAMICT Minor Lithology:

Logged by: Childress Date: June 17 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	CALCITE BEARING INTER-BEDDED MUD & DIAMICT ↓	COLOR BANDS	N4 ↓	BISCUIT	slight to mod. ↓	>2mm		0-150 cm: biscuit, slight. present in diamict layers: <1cm to ~3cm thick, very gradational contacts, mostly sand clasts
10								faint green color band (0-112 cm)
20								
30								
40								
50								
60								
70						65		
80								
90							SS90	calcite bearing mud, w/ silt
100						98		
110								
112								
120	mud		5GY, 4/1		mod. to heavy	absent		
130								
140								
142	mud		N4		none			142.5 - very thin pyritized laminae
150								

Expedition 341 S. Alaska Margin: U1417 E 3R 1A 0-151

Site: Hole: Core: Section: Top Depth:

Major Lithology: interbedded mud + diam... Minor Lithology:.....

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-17-15 Date:
0								diamict clast concentrations	
10									
20									
24									
30							SS37	calcite vicinum	
40			N4						
50				Lenses of undisturbed					
60								mud mostly colour banded	
70									
80									
90									
100									
110									
120									
130									
140								Clasts ≥ 2mm, mostly carbonates	
150									

Expedition 341 S. Alaska Margin: 1147 E 3R 5A 0-107

Site: Hole: Core: Section: Top Depth:

Major Lithology: interbedded muds diam... Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-17-15 Date:
0								diamict dast concentration	
10									
20			N4				SCIS	silt with mud partly laminated, colour banded	
30									
40									
50				biscuiting, soupy inflow					
60									
70									
80									
90								weakly laminated	
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 38 CORE 0-20

Site: Hole: Core: Section: Top Depth:

Major Lithology: interbedded mud + diam... Minor Lithology:.....

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, Date: 6-17-13
0	interbedded mud + diam.			biscuit					
10									
17	RAL								
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 F 4R 1A 0–150

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 18/04/13
0			N4	→				0–5.5 Mousse mud (heavy disturbance)	
10								5.5–150	
20								* interbedded mud and diamict (clast poor)	
30								* thickness of diamicts max 3cm (130–133)	
40								* Note that disturbance can have an influence on thickness of diamict interval	
50								* muddy intervals up to 7.5 cm thick	
60								↳ occasional bioturbation	
70								↳ occasional lamination (max. 1mm thick laminae)	
80								* occasional occurrence of limestone (< 2 mm)	
90								* occasional inclusion of limestone in bioturbation	
100								* some colour banding in muds (slightly more greyish to greenish)	
110									
120									
130									
140									
150									

fissures & flow in (slightly disturbed)

slight

Expedition 341 S. Alaska Margin: U1417 E 4R 2A 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 18/Jul/13
0			N4					0-45	
10								* colourbanded mud	
20								* slightly more greyish / greenish / brownish	
30								* 2 ironstone	
40								* occasional lamination	
50								45-74	
60								* mud with diamict	
70								* rel. large number of clasts → probably several smaller beds, but that is difficult to identify	
80								74-150	
90								* as 0-45	
100									
110								← 10% increased bioturbation below	
120									
130									
140									
150									

Bioturb & flow in (slight to moderate)

slight

2

slight to moderate

Expedition 341 S. Alaska Margin: U1417 E 4R 3A 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: VF Date: 18/JUN/13
0			N4					0-150	
10								* as section 2A, 0-45	
20								* occasional sharp boundaries between colour bands	
30								* somewhat more bioturbation than above	
40								* some intervals with moderate bioturbation (more greens?)	
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Drilling disturb.: slight to moderate (slightly, occasionally moderate)

Bioturb.: slight to moderate

Expedition 341 S. Alaska Margin: U1417 E 4R 4A 0-150

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 18/JUN/13
0			N4	biscuits & flow-in (generally slight, occasionally moderate to moderate (rarely severe)				0-103	
10								* Mud	
20								* colour banding to slightly more greenish/greyish/brownish	
30								* some "colour-banding cycles"	
40								↳ characteristic cycle (e.g. 40-95 to multiple cycles)	
50								dark greyish / greyish (lighter) coarser bioturbation (mm-cm) / greenish; slight, small-scale bioturbation (mm-mm) / dark greyish (sharp contacts) massive to laminated	
60								↳ greyish intervals slightly coarser	
70								* some rel. small zoophycos-like bioturbation (5 pcs.)	
80								103-150	
90								* interbedded mud & diamict	
100								* < 5 mm thick diamict intervals with clasts rarely exceeding 2 mm	
110								* mud: colour banded to slightly more greenish/greyish/brownish	
120								* ~132-145: rel. many clasts, but most probably due to drilling disturbance	
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 4R 5 0-65cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud & Diamicts Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 18.6.13
0								flow in at 3.5cm	
10	interbedded mud & diamicts		N4	slight	slight bioturbation in mud intervals between diamicts			8-21cm highly disturbed, flow-in	
20								diamict @ 23.5cm, very fine grained clasts (<1mm), gradational boundary	
30									
* 40								diamict @ 39.5cm,	
50	mud		N4					sharp upper boundary, gradational lower boundary	
60								diamict @ 57cm, two 2mm ϕ clasts (angular)	
70									
80									
90								2	
100								very thin layered diamicts are all clast poor & very fine grained lithics	
110									
120								* Gauss - Matuyama - boundary! (pmag)	
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 4R CC 0-11cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 18.6.13
0	massive				0			slightly dark greenish, bioturbated mud; few black mottles	
10	mud		N4	slight flow	1		X	11-16cm = PAL sample	
20	PAL								
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 5R 1A 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: HF 18/JUN/13
0			N4	Void				0-1.5 Void	
10				biscuits & fissuring (generally slight, more intensive slight to moderate (varying))				1.5-150: * mud with scattered interbedded diamicts ↳ diamicts are clast poor & clast size typically < 1mm with few exceptions ↳ diamict boundaries ↳ lower: gradational upper: sharp to gradational (much less sharp than above) ↳ zones of diamicts max. some cm thick ↳ sometimes different to identify * some color banding in mud to slightly more greenish (greyish / brownish) * green clast (~ 3mm high / 1cm wide) around 17 cm	
90								* more greenish below ~130 ↳ and a bit more bioturbated	
110								* mud with ash at 138	
140								148-150: ↳ volcaniclastic bearing mud ↳ 10YR 4/1	
150			10YR 4/1						

Expedition 341 S. Alaska Margin: U1417 E 5R 2A 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 18/JUN/13
0			N4	biscuits & fault-in (observable) slight; some intervals high	slight to moderate			0-150 s * mud mix slight colour banding to greenish/greyish * rel green interval between 17-19 * varying bioturbation to rel large bioturbation between ~104-110 * POSSIBLY some intervals with slightly increased amounts of (very) fine sand mix very gradational boundaries to very difficult to see to might be contamination from core-opening saw.	
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 5R 3 0-97cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 8.6.13
0–150	mud		N4 to 10Y 4/1	fractures & flow (moderate); slightly to moderately (extensive)				- mud, slightly to moderately bioturbated, few black mottles - flow in, few discrete - change from darker to lighter colors (N4 to 10Y 4/1)	

Expedition 341 S. Alaska Margin: 41417 E SR 4 0-62cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: m-d Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 18.6.13
0								* mud with little calcite	
10			10Y 4/1		moderate		SS (9)	* clast @ 9.5 cm, angular, ϕ 1cm, black metasiltstone	
20	mud								
30								* drilling distus. @ 26 & 32 cm: flow in	
40	mud with thin diatomite		N4		& slight vert			* clast @ 33.5 cm, ϕ 1.5 cm, rounded, black metasiltstone	
50								* thin layers of diatomite with sharp upper & gradational lower boundaries, clast poor, ≤1mm lithics	
60								* 44-49 cm = highly disturbed fractured & thin-in	
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 5R CC 0-10cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 18.6.13
0	mud		N4	0	moderate			Bioturbation marks	
10	X						PAL	10-15cm = PAL sample	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 7R 1A 0-142

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HF Date: 18/JUN/13
0			N4					0-34:	
10								* heavily disturbed mud, partly heavily bioturbated	
20			5G4 3/1					34-77.5:	
30			2.5Y 4/1	Biscuits (heavy)				* Diatom ooze * heavily bioturbated * partly brown fill in upper bioturbation	
40			10Y 4/1					* 51-57: laminated interval ↳ CAN BE PARTLY DISTURBED	
50									
60					slight			* gradual down-core colour change to N4 ↳ fade together with increase in terrigenous components	
70									
80			N4					77.5-150:	
90								* diatom bearing mud * slight bioturbation	
100								* weak colour banding → difficult to see to more darker greyish	
110									
120				biscuits & flow in. (slight to moderate)	slight				
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 7R 2A 0-94

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: MF 18/JAN/13 Date:
0			N4		slight			0-84:	
10								* diatom-bearing mud	
20				Biscuit / flow in (slight - moderate)	none			* weak colour banding; difficult to see	
30								* 15-23.5: * sand; graded from coarse to fine	
40								* rel. water rich ⇒ probably disturbed?	
50					slight				
60									
70									
80									
90							IW	84-94: IW	
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 7R 3A 0-76

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: MF Date: 18/JUN/13
0			N4	Biscuit (slight)				0-35	
10	Mud				slight			* Diatom bearing mud * weak colour banding to darker	
20			10					* increasing bioturbation in the lowermost 10 cm	
30			20					* rel. sharp lower boundary many small pieces	
40			10Y 4/1	slight				35-76	
50	Mud			Biscuit	moderate			Diatom ooze in upper parts, changing to diatom-bearing mud around 60 cm * moderately bioturbated	
60								* gradual downcore colour change to N4	
70			N4					* calcareous cement broken up	
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 7R CC 0-11

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
0			N4	see ↓				0-6:	YF 18/JUN/13
10							PAL	* Mud	
20								Disturbance:	
30								Biscuit; heavily disturbed	
40								6-11:	
50								Sample PAL	
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 8R 1A 0-154

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 18/JUN/13
0			N4	Biscuits [slight] + fissures [slight] / slight - moderate				0-152:	
10								* Mud	
20								* massive at top	
30								* visible colour banding starting at 63 cm and becoming more clear down-core	
40								* "Typical colour sequence"	
50								brownish / greyish / greenish / brownish	
60								↳ very weak banding & very gradational boundaries	
70								↳ transitions between sequences gradational to sharp	
80								↳ slight modification possible	
90								* spaces between biscuits filled with lighter & soft mud	
100								↳ However, some lighter, fine-grained internal structures (mostly sub-parallel & cross lamination, as well as convolute structures) are preserved (e.g. sed. 02, 94 cm)	
110									
120									
130								* green: diatom ooze (sed. 2, 90 cm) to slightly coarser	
140								* brown: mud (sed. 2, 93 cm)	
150	VOID							152-154: * Void	

D

Expedition 341 S. Alaska Margin: U1417 E 8R 2A 0-131

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 18/JUN/13
0			N4	biscuits & flow-in (slight) slight - moderate				0-131:	
10								* see section 1	
20								HOWEVER some sandy patches in 0-14 cm	
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 8R 3A 0-135

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: VF 18/JUN/13 Date:
0			N4					0-83:	
10								* see section 1 (sharp lower boundary)	
20									
30								83-97:	
40								* mud	
50								* increasing up-core bioturbation * sharp & wavy lower boundary * some calcite cement	
60								97-133.5:	
70								* diatom ooze (top) to diatom bearing mud (bottom)	
80				(slight)	slight to moderate				
90			5Y 5/1						
100			10Y 4/1	bioturb. / flow - in					
110									
120									
130			N3					133.5 - 135	
140							IW	to see top of next section	
150								135-150: IW	

Expedition 341 S. Alaska Margin: U1417 E 8R 4 0-129 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 18.6.'13
0	void			X				0-3 cm void	
10	mud		5GY 4/1	very slight bioturbation	moderate			- color banded (dark greenish gray to very dark greenish gray) interval between 3 & 37 cm	
20									
30									
40			2.5Y 7/1 to 10Y 5/1					- nice zoophycos ichnofabrics between 53 & 90 cm - 37-52 cm: light > bioturbated light brownish material (ash?, silt?)	
50									
60	diatom bearing mud		10Y 5/1				(SS) .62	→ diatom ooze	
70				cracks				65-79 cm moderate to high drilling disturbance (cracks, fractures)	
80									
90			5GY 4/1		slight				
100				very slight bioturbation					
110			10Y 5/1						
120	mud		5GY 4/1		slight			113-130 cm	
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 8R 5A 0-145

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 18/JUN/15
0								0-8 cm	
10			5Y 5/1		None			* as bottom of section 4 * gradational boundary	
			N4						
20								8-11 :	
30								* massive calcite * sharp lower boundary	
40								11-60	
50								* as section 1, but almost no break-up * some Zoophycos-like bioturbation	
60			5Y 5/1	few bioturb. (slight)	moderate to slight				
70			10Y 4/1					60-69	
80			↓					* mud * increasing up-core bioturbation	
90								* sharp lower boundary * some calcite cement?	
100								69-108	
			N3					* diatom ooze (top) ? * diatom bearing mud (bottom) ?	
110			N4					* some downward bioturbation from overlying unit	
120								108-145	
130								* like section 1, but artificial flow in * some Zoophycos-like biotub. * sub-mm lamination at 141 cm	
140									
150									

Expedition 341 S. Alaska Margin: 41417 E P 6 0-147cm

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 18.6.13
0	mud		10Y 5/1		high			Slack mottles between 0-10cm	
10					high			biosilic. & volcaniclastic bearing silty mud layer between 11 & 19cm = highly bioturbated!	
20									
30	mud		10GY 6/1		moderate			19-47cm: few slack mottles within bioturbated mud dark greenish layer @ 36cm	
40								(39-41cm void crack)	
50								47-104cm: relatively diffuse color banding of greenish gray & dark greenish gray colors	
60			10GY 4/1		moderate				
70	mud								
80									
90				very slight bioturb.					
100									
104	mud							104-147cm: muddy interval with sharp/clear intervals of color banding (no slack mottles)	
110									
120	mud		10Y 5/1		moderate			ooze @ 111cm? ooze @ 124cm? ooze @ 127cm? ooze @ 134? ooze @ 141cm? all 10Y 4/1	
130	mud								
140	mud								
150									

Expedition 341 S. Alaska Margin: U1417 E 8R 1A 0–79

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
									YF 18/JUN/13

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

10Y4/1

10Y5/1

10Y4/1

1 core? (very slightly)

moderate to high

0–79

* Diatom ooze (10Y5/1) ?
* note colour changes
* diatom bearing mud (10Y4/1) ?
* some zoophycos-like bioturbation

(continued ?)

Expedition 341 S. Alaska Margin: U1417 E 8R CC 0-22

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: MF Date: 18/JUN/13
0			10Y4/1	2 biscuits (slight)	mod. to high			0-17.	
10								+ Mud ; diatom bearing ?	
20					PAL			* rare Zoophycos-like bioturbation	
30								17-22:	
40								SAMPLE PAL	
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

→ DLV

Expedition 341 S. Alaska Margin: U1417 E 9R 1A 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: diatom mud Minor Lithology: diatom ooze

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-5-13 Date:
0	diatom ooze to diatom mud			slight biscuit	heavy			cf. zoophycos	
10			5GY 4/2						
20									
30									
40									
50			5GY 6/2						
60									
70	diatom ooze to diatom mud								
80									
90							5990	d. ooze	
100					heavy				
110				biscuit slight					
120								bioturbated contact, irregular	
130	diatom ooze		10Y 6/2					cf. zoophycos	
140									
150									

→DLC

Expedition 341 S. Alaska Margin: U1417 E 9R 2A 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: diatom ooze Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-18-13 Date:
0									
10									
20			10Y 6/2						
30									
40	diatom ooze								
50				none	heavy				
60									
70									
80							SS85	d. ooze 80 increase of brown mottles 2.5Y5/2	
90								basal 4mm: 2.5Y5/2 gl crack in the core	
100			10Y6/2		10 mottles			brown mottles from below above, 2.5Y5/2	
110	diatom ooze								
120					heavy				
130									
140	IW								
150									

1 +29

-70LC

Expedition 341 S. Alaska Margin: U1417 E 9R 3A 0–150

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-18-13 Date:
0			5GY 4/2					gradual colour change,	
10					heavy			↓ zoophycos (dark green-grey 5Y5/1 – 5GY 4/2	
20			5Y5/1						
23									
30	diatom ↓ mud							↓ zoophycos (green-grey in base)	
40								grey colour banded	
50	mud		5Y5/1		heavy				
60									
70							5575	dark brown mottled layers calc. mud, barren	
80									
90									
100								↓ d. mud	
108									
110							5912	bioturbated contact transition from 5Y5/1 to 5GY 6/2	
114								↑ main contact	
120	diatom ↓ mud		5GY 6/2						
130									
140	calcar. mud		N4					Grad colour banding	
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 9R (Core:) 4A (Section:) 422.90m CSF-A (Top Depth:)

Major Lithology: Mud (Calcareous) Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Childress Date: June 18 2013
0						absent			
10	calcareous bearing mud ↓	COLOR BANDS	N4 ↓	BISCUIT	slight			0-141cm: biscuit, slight green/gray color bands throughout Zoophycus burrows @: 5, 45-49, 113-116cm	
20					19				
30					heavy 27				
40									
50									
60					moderate				
70									
80									
90					heavy				
100									
110									
120									
130									
140	END						141		
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 9R (Core:) 5A (Section:) 424.31 m CSF-A (Top Depth:)

Major Lithology: MUD (CALCAREOUS) Minor Lithology:

Logged by: Childress Date: June 18 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0				BISCUIT	moderate ↓	absent		0-74, biscuit, slight.
10								" , green/gray/brown color bands
20	calcareous bearing mud ↓	COLOR BANDS	N4 ↓					
30								
40								
50							CS52 →	calcareous mud
60								
70								
74	END							
80								
90								
100								
110								
120								
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 9R (Core:) CCA (Section:) 425.05m CSF-A (Top Depth:)

Major Lithology: MUD (CALCAREOUS) Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	calcareous bearing mud	COLOR BANDS	N4	slight	slight	absent		9.5cm - crack, slight • green color bands
20	PAL						PAL	24
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Logged by: Childress Date: JUNE 18 2013

Expedition 341 S. Alaska Margin: 11147 E 10R 1A 0–151

Site: Hole: Core: Section: Top Depth:

Major Lithology: diatom bearing mud Minor Lithology: mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-18-13 Date:
0	diatom bearing mud		N4	biscuits, slow-to heavy	heavy				
10									
20			N4	biscuits, slow-to heavy - mod.			SM	d.b. mud	
30									
40									
50									
60									
70									
80									
88								bioturbated, fuzzy contact	
90	diatom bearing mud		5GY 3/2	biscuits, slow-to heavy	heavy				
100									
110									
114								transition from 5GY 3/2 (brownish) to N4 (gray).	
120								cf. zooplycos	
130	mud		N4	biscuits, slow-to heavy					
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 10R (Core:) 2A (Section:) 0-135 (Top Depth:)

Major Lithology: mud **Minor Lithology:**

Logged by: AB, **Date:** 6-18-13

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
			N4					
10								
			5GY5/1					colour banded
20								cf. zoophycos
30	mud	to thin bedded			heavy			becoming darker downsection
40								
50								
			N4					
60								colour banded
								parallel laminated
70	mud	laminated		mod. biscuit, soupy, flow-in	heavy			
80								cf. zoophycos
90							SS90	mud
100								
110								
114								
120	SAND							
127								
130		cos. banded	N4		heavy			
140	mud							
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 10R (Core:) 3A (Section:) 431.10m CSF-A (Top Depth:)

Major Lithology: DIAMICT Minor Lithology: MUD

Logged by: Childress Date: JUNE 18 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0						>2mm = 15		
	clast rich diamict		N4	BISCUIT		present		0-133: biscuit, slight
10	gradational				absent			
20						present (2, >2mm)		
30	clast-poor diamict (w/mud)		N4	↓				
40							SS40	→ mud, with sand
50								
60								
63.5	diatom bearing mud		5G, 4/1		moderate	absent		
70	72 gradational							→ gradational, bioturb.
	sandy diamict w/mud	normal grading	N4		none	present (1, >2mm)		
80								
87								
90	diatom bearing mud	color bands	N4		slight	absent		→ green/brown color bands
96	gradational							→ gradational, bioturb.
100	sandy diamict w/mud	normal grading	N4		none	present (2, >2mm)	SS103	→ silt, with mud
110								→ green/brown color bands
	diatom bearing mud	color bands	N4		moderate	absent		
120								
130								133
	END							
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 10R (Core:) 4A (Section:) 432.43m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	diatom bearing mud				mod-erate ↓	absent		4-11: crack, slight to mod.
10		COLOR	N4				SSI2	*Zoophycus burrows @: 2, 17, 44, 52, 57cm diatom bearing silt (special small brown patch)
20								green/brown color bands
	silt	rip up	10Y, 4/1					22-26: brown silt, w/ rip up clasts (1-2mm), slightly gradational upper contact
30		BANDS						
40	diatom bearing mud		N4					
50				BISCUIT				43-67: biscuit, moderate; flow-in, moderate
60								
70	END							67
80								
90								
100								
110								
120								
130								
140								
150								

Logged by: Childress Date: June 18 2013

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 10R (Core:) 2C-A (Section:) 433.10m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology:

Logged by: Childress Date: June 18 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	diatom bearing mud		N4		slight	absent		0-5: crack, high
13.5	sand		N3					*Zoophycus burrow @ 7cm
16	PAL						PAL	
21								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

→DL✓

Expedition 341 S. Alaska Margin: U1417 E 11R 1A 0-143.5

Site: Hole: Core: Section: Top Depth:

Major Lithology: clast poor sandy diamict Minor Lithology: mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, Date: 6-15-13
0	muddy sand			basal contact					
10									
18									
20								fine sand to gritty with clasts; muddy, and fine sand with mud, sand > mud	
21.5									
30	clast poor sandy diamict with mud							mud clasts, deposit migrated, base mud clast above 68 cm, no basal	
40			N4				SS39 sand		
50								normal grade s u sand/mud matrix cm 22-18.	
60							11 mud clasts		
66							SS15	sharp basal contact	
70								sand with mud	
80	mud		N4						
88									
90	clast poor muddy diamict		N	laminations					
97									
100	mud		N4						
108									
110	clast poor muddy diamict		N4						
120							SS19	calcareous bearing mud	
121									
130	mud		N4						
140									
150									

→ DL ✓

Expedition 341 S. Alaska Margin: U1417 E 11R 2A 0-67

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: clast poor sandy diamict

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
10	mud		N4	biscuit to [illegible], some flow-in				
20								
30	clast poor sandy d.		N4				4	sharp top; sharp base?
31.5								
40							SS45	thinly laminated, dark laminae, several cm distance
50	mud		N4					mud, barren
60							SS	
70								
80								
90								
100								
110								
120								
130								
140								
150								

Logged by: Date: AB, 6-8-13

→DL

Expedition 341 S. Alaska Margin: 1147 E 1R CC 0-19

Site: Hole: Core: Section: Top Depth:

Major Lithology: clast poor sandy diamict Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AR, 6-18-13 Date:
0	clast poor sandy diamict.			slight		◇		loose mud clasts, > 3 cm	
10							1	black "arctic" clast, 1 cm Ø	
14									
19	PAL								
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

→ DL ✓

Expedition 341 S. Alaska Margin:

Site:	Hole:	Core:	Section:	Top Depth:
U1417	E	12R	1A	0 – 28.5

Major Lithology: mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, Date: 6-18-13
0				biscuits to mod. [illegible]					
10	mud		N4						
20							SS25	mud, barren	
28.5									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 13R (Core:) 1A (Section:) 457.20m CSF-A (Top Depth:)

Major Lithology: DIAMICT Minor Lithology:

Logged by: Childress Date: JUNE 18 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	sandy clast-poor diamict		N4	crack (no d.)	none	present (1, >2mm)		
10								
12	mud		N4		none	present		→ gradational
14								
20	muddy	normal grading				present (14, >2mm)		
30	diamict		N4		none			
40								
48								
50			5G 4/1		moderate			
60	mud					absent		
70								
76							SS76	mud, no bio
80								
89								→ gradational
90	mud		10Y 4/1		slight	absent		
98								→ gradational
100	diamict		N4		none	present (4, >2mm)		
110								
113	mud w/ dispersed clasts		N4		none	present		→ angled/slant
120								
130	diamict		N4		none	present (4, >2mm)		
137								
140	IW						IW	
150								
152								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 13R (Core:) 2A (Section:) 458.72m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology:

Logged by: Childress Date: June 18 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0				BISCUIT ⇓				0-135: biscuit, slight
10		COLOR BANDS (CB)			moderate	absent		* green / brown color bands
20	mud		N4					
30								
34								
40	diamict w/ sand		N4		none	present (5, >2mm)	3540	→ sand w/ mud, biotite w/ hornblende
44								
50								
60	mud	CB	N4		heavy	absent		
70								
78								gradational
80	sandy diamict		N4		none	present (B, >2mm)		
90								
98								irregular
100								
110	mud	CB	N4		slight	absent		
120								
130								
135								
140	OJIM						OJIM	
150								150

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 13R (Core:) CC-A (Section:) 460.22 m CSF-A (Top Depth:)

Major Lithology: diamict Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	diamict		N4	SLURRY (HIGH)	none	present (>2mm)		or fall-in?
10	mud		N4		mod.	absent		
13	PAL						PAL	
18								
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Logged by: Childress Date: June 18 2013

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 14R (Core:) 1A (Section:) 466.90m CSF-A (Top Depth:)

Major Lithology: Diamict Minor Lithology:

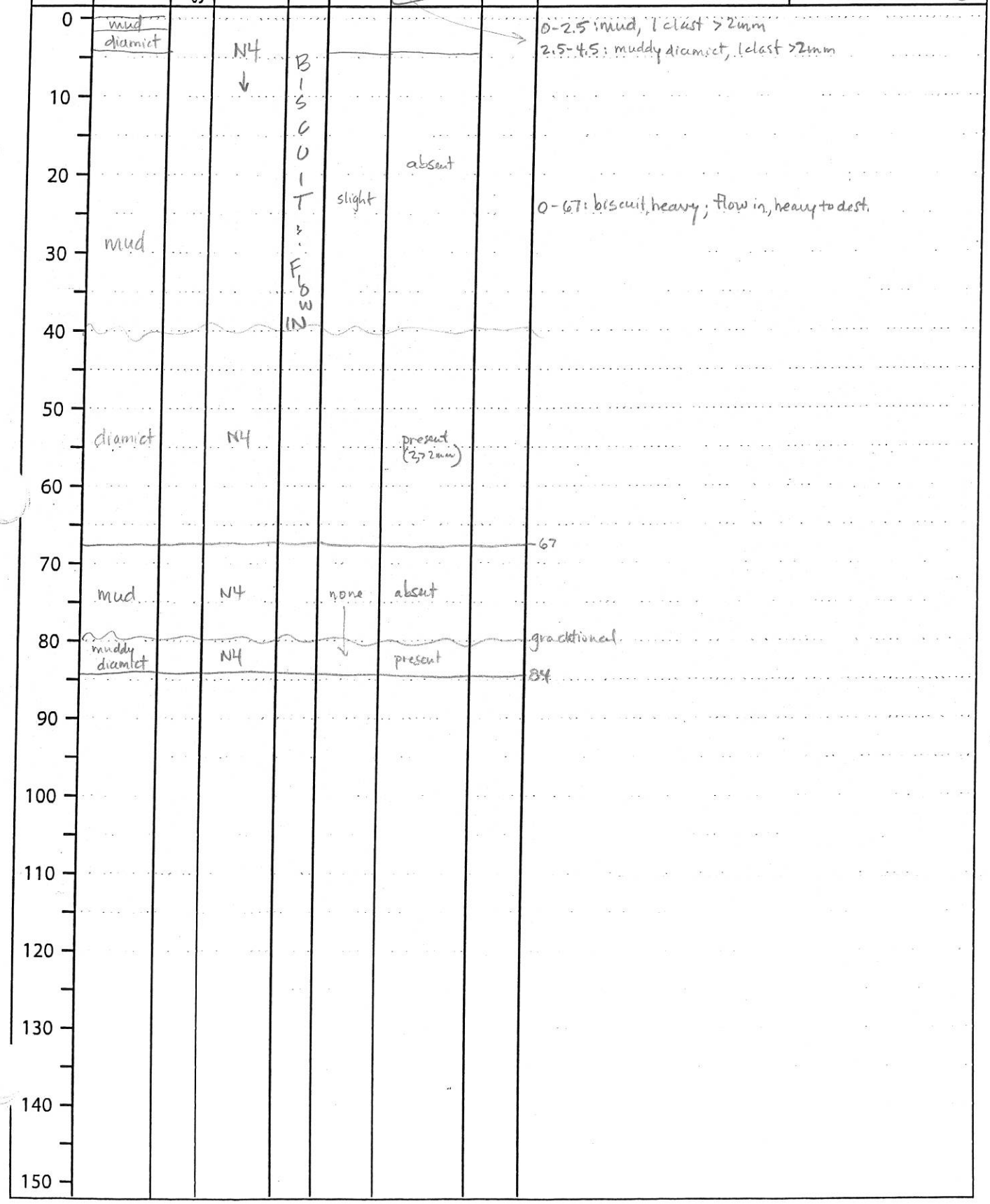
Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	mud		N4		none	absent		chunks, mess, destroyed
4								
10	IW						IW	
16								
20				cracks				16-27, crack, high
30	clast-rich diamict w/ sand		N4		none	present (12, >2mm)		
40								
50								
54.5								
60	mud		N4		slight	none		
68								gradational
70	muddy diamict		N4		none	present		
76	VOID							76-77
80	mud		N4		slight	absent		crack, slurry = destroyed
86								
90								
100								
110								
120								
130								
140								
150								

Logged by: Childress Date: June 18 2013

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 14R (Core:) 2A (Section:) 467.76m CSF-A (Top Depth:)

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

Logged by: Childress Date: June 18 2013



Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 14R (Core:) CC-A (Section:) 468.60 m CSF-A (Top Depth:)

Major Lithology: MUD Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	mud		N4		none	1, >2mm		COAL, 1.5cm clast @ 3cm depth; totally jumbled = destroyed
7	PAL						PAL	
12								

Logged by: Childress Date: June 18 2013

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

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 15R (Core:) 1A (Section:) 476.60m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology: Diatom ooze

Logged by: Childress Date: June 18 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0				BISCUIT	slight	absent		0-70: biscuit, slight to mod.
10								
20		COLOR BANDS (CB)						-green color bands (0-66)
30	mud		N4					
40							SS38	-mud, no bio
50								
60								-bioturb.; gradational
66								
70								
80	diatom ooze		5GY 4/1		moderate to high		SS83	-diatom ooze
90								
100								
107.5								
110								
120	mud	CB	N4		moderate			-green color bands
126								
130	diatom ooze		5GY 4/1		high			
140							140	
150	SCRE						SCRE	

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 15R (Core:) 2A (Section:) 478.10m CSF-A (Top Depth:)

Major Lithology: MUD Minor Lithology: Diatom ooze

Logged by: Childress Date: June 18 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	diatom ooze		5GY 4/1		slight	absent		
14								gradational
30		COLOR BANDS						
50					slight			
60	mud		N4					
106.5								sharp
110	diatom ooze		5GY 4/1		moderate to heavy			
130								irregular
134	mud		N4		slight			
140	diatom ooze		5GY 4/1		slight			gradational
142	mud		N4		slight			146
	END							
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 15R (Core:) 3A (Section:) 479.56 m CSF-A (Top Depth:)

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

Logged by: Childress Date: June 18 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	mud		N4		none	absent		
3								
10	diatom ooze		5GY 4/1		heavy			
20								
22								→ bioturb gradational
30		COLOR BANDS (CB)						- green color bands
40	mud		N4		moderate			
50								
54								→ bioturb, gradational
60	diatom ooze		5GY 5/1		heavy			
70								
78								sharp, bioturb
80	diatom ooze		10Y 5/1		slight		SSB2	→ diatom ooze, maybe pyritized? feels silty
90								
100	mud	C B	N4		moderate			- green/black color bands
110								115cm: Zoophycos burrow
120								
130								
140								
148								
150	END							

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 15R (Core:) 4A (Section:) 481.04 m CSF-A (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Childress Date: JUNE 18 2013
0		COLOR BANDS				absent			
10									
20	mud		N4		moderate				
30								→ bioturb, gradational	
			5GY 4/1 *						
40								* → darker green at bottom	
	diatom ooze								
50									
60									
70	see note							bioturb 70-71: silty clast poor drainage	
80			10GY 5/1 *		heavy			* darker green/ brown top	
	diatom ooze								
90									
100									
110									
120									
130									
							135		
140	IW						IW		
150							150		

Expedition 341 S. Alaska Margin: 1111A E 15R 5 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: diatom ooze Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-18-13 Date:
0									
10									
20									
30									
40			5GY 5/1						
50									
60	diatom ooze								
70					bioturb		SS74	d. ooze	
80									
90				crack					
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 15R 6 0-147

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: diatom ooze

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
10								
20	diatom ooze		5G5/1		heavy			
30								
40								
50								
60	mud		10GY5/1		heavy			"no bio"
70			10Y3/1	slight				*colours banded 10Y3/1 greenish grey light - greenish grey dark, 5GY3/1
80	mud		(5GY3/1)					*Thin bedded (= ≤ 10 cm), usually 2-4 cm
90								*sharp contacts between beds, ± horizontal
100				biscuit	heavy			*bioturbation: predominantly horizontal burrows? All bedding contacts sharp and undisturbed
110								
120								
130								"no bio"
140								
150								

Logged by: HB. Date: 6-18-13

Expedition 341 S. Alaska Margin: U1417 E 15R 7 0-53

Site: Hole: Core: Section: Top Depth:

Major Lithology: diatom ooz mud Minor Lithology: mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-18-13 Date:
0	mud		10Y 3/1		heavy				
10									
20	diatom ooz mud		10BG 5/1		heavy				
30				Cracks				strongly bioturbated contact	
32									
40	diatom mud							colour banded	
50			5GY 5/1		heavy		SS50	d. ooz mud	
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 15R CC 0-21

Site: Hole: Core: Section: Top Depth:

Major Lithology: diatom rich mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-18-13 Date:
0	diatom rich mud		5Y 4/1	a couple	Scarce				
10								Parallel Laminated	
16	PAL								
20									
21									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 16R 1A 0-113

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HF 19/JUN/13 Date:
0			5GY5/1	Biscuited/washed heavy				0-3: fall in of sedimentary clasts 3-102	
10								* colourbanded mud and interbedded muddy diamict	
20								22.5-24.5: PLANT CHUNK	
30	MUD							MUD:	
40					see →			* colour banding between 5GY 5/1 diatom bearing mud 5Y 4/1 : mud	
50	Diamict		2.5Y 3/1	slight to moderate				* typically gradational boundary between colour bands	
60								* moderate to high bioturbation	
70	MUD		5GY5/1						
80	Diamict		2.5Y 3/1	flow-in / Biscuit				DIAMICT:	
90								* Sandy mud matrix	
100								* lithic & mud clasts up to pebble size	
110								* lower boundary often not recovered but when recovered ⊃ sharp	
120								* upper boundary mostly gradational but occasionally sharp	
130								* clasts occasionally coal	
140								* 2.5Y 3/1	
150								* fining upward and laminations occasionally visible in uppermost centimeters	
								SAMPLES 102-103: MD10 → 103-113: IW	

Expedition 341 S. Alaska Margin: U1417 E 16R 2A 0-150

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 19/JUN/13
0	Mud							0-150	
10								* Colourbanded mud with interbedded muddy diamict	
20								↳ FOR DETAILS SEE SECTION 1	
30								21-25:	
40	Diamict	37.5						* lamination	
50								Diamict from 37.5 - 69: ↳ upcore coarsening of the clasts (see core photo)	
60									
70	Mud	69							
80	Diamict	76		Disturbed (slight)				Pyritized burrows at 88, 96, 110.5-113.5 (see close ups)	
90	Mud								
100									
110									
120					heavy			115-118: ↳ brown & heavily bioturbated interval → see close-up ↳ plant debris (5%), some angular glass	
130								118-122:	
140								* some lamination & grey laminae	
150									

Expedition 341 S. Alaska Margin: U1417 E 16R 3 0-49cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: silty mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 19.6.13
0	clayey mud		5GY 5/1	0	moderate			0-10 cm mud	
10	silty mud		10Y 4/1	biscuit				10-20 cm silty mud with very fine laminations (< 1mm) crossbedding	
20	mud		5GY 5/1	biscuits & cracks	slight			13-20 cm biscuit disturbance (slight to moderate)	
30	silty mud		10Y 4/1					cgritized burrow @ 20 cm (3 cm long)	
40	mud		5GY 4/1					20-25 cm mud, slightly lighter towards 25 cm	
50	silty mud		10Y 4/1					25-30 cm silty mud, fine laminations as above, slightly bioturbated	
60	mud		5GY 6/1					2. mud intersedated with silty mud intervals (fine laminated)	
70								20-49 cm: drilling dist. = slight (biscuits & cracks)	
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 16R CC 0-7cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 19.6.13
0	mud		10Y 4/1	some	slight			few black mottles	
10	X						1AL	7-12: sample	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 17R 1 0-140 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 19.6.13
0				void				0 - 3 cm void	
10	mud				slight to moderate				
20								crack @ 23 - 24.5 cm (void)	
30			5GY 5/1					3 - 56.5 cm = mud	
40	mud								
50									
60	silty mud							sharp color change @ 56.5 cm from greenish gray to very dark greenish gray	
70			10Y 3/1 alternating with 10Y 4/1					56.5 - 62.5 cm silty interval highly bioturbated? at bottom	
80								63 - 137 cm = color banded mud (10Y 3/1 to 10Y 4/1)	
90	mud								
100				very slight	moderate				
110									
120							55 (120)	mud (slightly more silt)	
130								127 - 130 cm flow ? (moderate to high)	
140	silty mud		10Y 3/1					137 - 140 cm = very dark greenish gray silty interval	
150									

Expedition 341 S. Alaska Margin: U1417 E 17R 2 0-129 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Logged by: JM Date: 19.6.13

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	silty mud		10Y 4/1		moderate			0-0.5 cm silty mud
10	silty mud		10Y 3/1				SS (14)	0.5-5 cm mud (greenish) 5-16 cm mud (more brownish) with fine sand/silt + plant fragments + diatom seams 13.5-16 cm nice bioturbated silty mud interval
20								19-129 cm: color banded mud: 5GY 4/1 alternating with 10Y 4/1 intervals (independent from diatom & silt content)
30	mud		5GY 4/1					
40								
50								
60			10Y 4/1					
70								exhibited burrow @ 68 cm
80	silty mud							74-81 cm nice burrows with 10Y 4/1 interval, slightly coarser
90	mud							
100							SS (98)	- slightly more silt (brownish layer) few diatoms
110							SS (104)	- slightly more silt (greenish layer) few diatoms
120								
130	X			void				129-131 cm void
140	X						IW	131-146 cm IW sample
150								

Expedition 341 S. Alaska Margin: 41417 E 17R 3 0-141 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: silty mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: OH Date: 19.6.13
0	X							0-3 cm void (plug)	
10	mud		10Y 4/1					= interbedded mud & silty mud color banding independent of these intervals	
20									
30	silty mud							31-41.5 cm silty mud, fine laminated (< 1 mm), grading upper boundary (fining upw.)	
40				bisc.				biscuit @ 38-41.5 cm	
50	mud							sharp lower boundary	
60									
70	silty mud							69-74.5 cm silty mud, fine laminations (< 1 mm), fining upward grading, upper boundary, sharp lower contact	
80									
90	mud		10Y	bisc. (slight)	slight				
100	silty mud		4/1					98-101.5 cm silty mud (as above)	
110	mud		10Y					113-115 cm silty mud (as above)	
120	s. mud		4/1 (too)						
130	mud							126-129.5 cm silty mud (as above)	
140	s. mud								
150									

Expedition 341 S. Alaska Margin: U1417 E 17R 4 0-131cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 19.6.13
0									
10								drilling disturbance 0-15cm = void; 31-35cm flow in (moderate to high)	
20	mud								
30								color banded mud 10Y 4/1 bands & 5GY 4/1 bands	
40			10Y 4/1						
50			alternating with 5GY 4/1						
60									
70				biscuits & flow in; slight to moderate bioturb.				~72.5cm flow in + biscuit	
80	mud								
90									
100								97cm flow in + biscuit	
110									
120								115cm flow in + biscuit	
130								126cm flow in + biscuit	
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 17R CC 0-12.5cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 19.6.13
0	mud		10Y 4/1	(Suspension)	Slight			0-12.5cm mud	
10	X						PAL	12.5-18cm sample	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 18R (Core:) 1A (Section:) 0–142 (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HF 19/JUN/13 Date:
0	see ↳		see ↳	biscuit (slight to moderate)	slight to moderate			0–129: * Colourbanded mud * 5GY 4/1 (greyish) * 10Y 4/1 (brownish) * 5Y 3/1 (greenish) * "classical cycle": brown → max 15 cm grey → max 3 cm green → max 3 cm ↳ incomplete sequences occur ↳ gradational boundaries * brown SLIGHTLY coarser than grey! * occasional preservation of sub-horizontal & cross-lamination (sub-mm thickness), e.g. sec 1, 111–118 * occasionally heavy bioturbation, e.g. sec 3, 62–68	
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130							IW	129–142: Sample IW	
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 18R 2A 0-137

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 19/JUN/13
0								0-137	
10								see section 1	
20									
30									
40									
50								calcareous fragment ~5 cm?	
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 18R 3A 0-140

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: YF 19/JUN/13
0								0-140	
10								see section 1	
20								Plant fragments ~73-76?	
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

biscuits (moved - flow) - flow (moved - flow)

Expedition 341 S. Alaska Margin: 41417 E 18R CC 0-23

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: IF Date: 19/JUN/13
0				biscuit & flow-in (mod-heavy)				0-17 see section 1	
10									
20								17-23 Sample PAL	
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 19R (Core:) 1A (Section:) 0-150 (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HF Date: 19/JUN/13
0	Mud		see ↳	washed mud lumps (0–7); biscuits (slight)	moderate (somewhat higher in browner intervals)			0–7 washed lumps of mud 7–150 * Colourbanded mud interbedded with silt * 5GY 4/1 (greyish), <2 cm (top) * 5Y 3/1 (greenish), <2 cm * 10Y 4/1 (brownish), up to 15 cm bottom * 10Y 4/1 (brownish) laminated (see below) "Typical cycle" ↳ mostly * frequent occurrence of mud with sand and some laminated intervals (sub-mm lamination) below the brown parts (not always occurring) ↳ thickest sequence from 60.5–74 in sect 1, usually 1 mm – 5 cm ↳ lower boundary of laminated interval sharp when preserved ↳ gradational upper boundary ↳ thicker intervals are often sheared off at their bases ↳ occasional compressive tectonic features & "flame structures"/load structures (e.g. sect 2, ~76–80; sect 3, ~87–90) * if silty/muddy intervals are not present, the boundary between greyish and brownish intervals is sharp & irregular/straight, e.g. sect 1, 28; sect 2, 36.5 * several pyritized burrows between 7–21 cm in section 1	
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 19R 2A 0-152

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 19/JUN/13
0	Mud			biscuits (slight)				0-137:	
10								↳ see section 1	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130								137-152: Sample IW	
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 19R 3A 0-150

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: IF 19/JUN/13 Date:
0								0-35:	
10								* see section 1	
20	Mud				Bioturb.			35-48	
30								Lo clast-poor muddy (sandy) diamict with organic components	
40	Diam		5Y3/1					Lo mud clasts (max 0.5 x 0.8 cm²)	
50	Mud							Lo plant fragments (max 1mm thick & 5 mm long)	
60								Lo erosive lower boundary	
70					Bioturb.			Lo upper boundary not preserved	
80								Lo no grading visible	
90								Lo "frozen half way ripped off clasts" at the base	
100								48-150	
110								* see section 1	
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 19R CC 0-13.5

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: JF 19/JUN/13
0				Incem. (slight)				0-8.5 see section 1	
10									
20								8.5-13.5 Sample PAL	
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 20R 1 0-135.5 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology: Silt

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 19.6.13
0				fall in ?				0-8 cm fall in ? highly disturbed	
10								8-64 cm : clayey mud with few black mottles & greenish color variations	
20			10Y 4/1	slight	slight			20.5 - 21.5 cm very fine dispersed organic matter (< 1mm), shells like bitumen, gradational upper & lower boundaries, lies on top of a fine laminated mud interval @ 22-24 cm	
30									
40									
50				slight				47 - 49.5 cm fine dispersed organic matter (as above but less intense odour), org. matter spots less accumulated as above	
60									
70				mod					
80								64 - 78 cm : silt sed, fine laminations, fining upward, sharp lower boundary (though hard to see due to disturbance (grad. upper contact) → 70-78 cm little flow in	
90			10Y 4/1	slight bioturbation	slight				
100								102 - 113.5 cm : silt sed, fine laminations, fining upward, sharp lower boundary though also disturbed by flow in (111-114)	
110				mod					
120									
130							SS (131)	129 - 135 cm fine silty mud layers with dispersed black (org.) matter	
140							W	135 - 150 cm sample	
150									

Expedition 341 S. Alaska Margin: 41417 E 20R 2 0-95 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology: Silt

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 19.6.13
0			10Y 4/1					0-3.5 cm fine silt laminae	
10			10Y 4/1					3.5-24 cm: mud with color banding (10Y 4/1; 5GY 3/1)	
20									
30	silt							24-46 cm: silt bed, fine laminations, sharp lower boundary, fining upward	
40									
50	mud		5GY 3/1					46-74 cm: mud with color bands as above, just mud (clayey)	
60							SS (C1)		
70									
80	silt		10Y 4/1					74-91 cm silt bed, fine laminations (<1 mm), fining upward, lower boundary distinct	
90	mud							91-95 cm mud	
100									
110								Interbedded mud & silt	
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: 4147 E 20R CC 0-12cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
0	mud		10Y 4/1	significant disturb	slight			mud with color banding (5G 3/1) & black matter (dispersed)	
10	X						PAL	12-17cm sample	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 21R (Core:) 1A (Section:) 0-57 (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 19/JUN/13
0	Mud		see ↳					0-32:	
10								5GY 4/1 (greenish)	
20								10Y 4/1 (brownish)	
30								* colourbanded mud	
								* sharp to gradational boundaries	
40	Sand		5Y 3/1	Biscuits (most-light)	slight to moderate (highest in brown)				
	Mud							fine sand with thick mica flakes and plant fragments (?) around 11-13 (rel. heavily disturbed)	
50								32-40.5:	
60								* very fine sand with mud	
70								* chunk of plant fragment from ~34-40.5 (?)	
80								* heavily disturbed	
90								* some lamination preserved in uppermost ~1 cm	
100								40.5-57:	
110								as 0-34	
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 21R 2A 0-18

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 19/JUN/13
0			N7	2 biscuits				0-13	
10								2 pcs. of siltstone with sub-rounded clasts (<2mm) in calcareous cement?	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 22R 1 0-81 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology: Silt

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 19.6.13
0				light					
10	mud		5GY 4/1	moderate	slight			6-12.5 cm: mud	
20	silty		10Y 4/1					12.5-25.5 cm: silty interval fining upward, very fine laminations (<1 cm) in lower part (20-25)	
30	mud							mud & silt interbedded	
40	silty							40-44 cm: silty layer with some black grains (coal?)	
50	mud								
60	silty							59-65 cm: silty layer with black grains	
70	mud		5GY 4/1						
80									
90									
100									
110									
120									
130									
140									
150									

→ DLC

Expedition 341 S. Alaska Margin: U1417 E 23R 1 0-119

Site: Hole: Core: Section: Top Depth:

Major Lithology: interbedded silt with mud Minor Lithology: mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-19-13 Date:
0	mud								
8	silty mud								
10									
13	mud								
20									
23	silty mud								
28	mud		N4						
30									
31	silty mud						SS36	silty with sand	
38									
40									
50	mud		N4	bioturb. moderate				mud with silt, bare	
			V				SS39	** silty mud	
60								* muddy diamict with sand	
61									
68									
70								irregular, eroded top	
73	clast-rich muddy diamict								
80								erosive base	
80.5									
90									
100	mud		N4						
110									
120									
130									
140									
150									

interbedded silt with mud

→DL

Expedition 341 S. Alaska Margin: U1417 E 24R 2 0-151

Site: Hole: Core: Section: Top Depth:

Major Lithology: wbb mud Minor Lithology: dark mud diamict

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-19-13 Date:
0	dark gy muddy diamict with sand								
10									
20			N4						
30									
40									
42	mud		N3						
50									
51	silty mud		N4						
60									
64	mud								
70	mud		N3				heavy	colour banded N3 > 6Y 3/2	wbb mud and silt
80									
86									
90	silty mud with sand		N4						
99									
100	mud		N3				heavy	colour banded	
110									
112	silty mud		N4						
120									
126									
130	mud		N3				heavy	colour banded	
131	muddy dark pebbl. diamict with sand								
140							sand	silt	
150									

→DLV

Expedition 341 S. Alaska Margin: U1417 E 24R 1 0-86

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: clast-poor diamict

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-19-13 Date:
0									
10							SS11	Calcareous bearing mud	
20	mud		N3					colours banded	
30				slight to mod. biscuit	heavy		SS34	dark greenish 10Y3/2 dark grey N3, N3 > 10Y3/2 mud	
40									
50	muddy clast-poor diamict		N4						
60									
70	mud		N3		heavy			colours banded	
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 25R (Core:) 1A (Section:) 573.60 m CSF-A (Top Depth:)

Major Lithology: MUD Minor Lithology: DIAMICT

Logged by: Childress Date: June 19 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	calcareous bearing siltstone		N3	BISCUIT (mod.)	none	absent		[N3=wet color, N6=dry]
9	mud		N4					
13	calcareous bearing siltstone		N3					
19								
20								
	mud	COLORBANDS (CB)	5Y, 4/1 (brown) & 5G, 4/1 with	BISCUIT (slight)	moderate	absent		brown color bands
40							SS41	→mud, no bio
								→gradational. bio.
50	diamict w/ sand	normal gradation (NG)	N4		none	present (3, >2mm)		
60								
61	mud		5G, 4/1		none			→slightly gradational
63								
	diamict w/ volcan.	NG	N4		none	present (5, >2mm)	SS68	sand, fine grained (5% round volcanic)
70								
80							SS84	mud, no bio
90	mud	CB	5Y, 4/1		moderate	absent		green (5G, 4/1 color bands)
100								
110								
115								
120	SCRE						SCRE	
125								
130	IW						IW	
138								
140	MB10						MB10	
142								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 25R (Core:) 2A (Section:) 575.02m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology: Silt w/ disp. clasts

Logged by: Childress Date: June 19 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
10								
20	mud	COLOR BANDS (CB)	5Y, 4/1		moderate	absent		-green color bands (5G, 4/1)
30								
40	silt w/ disp. clast		N4	BISCUIT	none	present (1, >2mm)		40-71: biscuit, slight
47.5								
50								
60	mud	CB	5Y, 4/1		mod.	absent		-green color bands
63								
70	silt w/ disp. clast		N4		none	present		
71								
80	mud	CB	5Y, 4/1		mod.	absent		green color bands
90								
93	END							
100								
110								
120								
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 25R (Core:) CC-A (Section:) 575.95m CSF-A (Top Depth:)

Major Lithology: MUD Minor Lithology:

Logged by: Childress Date: JUNE 19 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0						present		
8.5	mud w/ dispersed clasts		N4	BISCUIT	none			*mud clasts
10	mud w/ common clasts		N4		↓	1>2mm		*slight to mod biscuit
14								
19	PAL						PAL	
20	END							
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

→ DLV

Expedition 341 S. Alaska Margin: U1417 E 86R 1 0-117

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: clast poor muddy diamict

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-18-13 Date:
0									
10			10Y3/2					colour banded dark greenish gray 5GY3/1 dark grey 10Y3/2	
20	mud								
30									
39									
40								angular clasts of ice rafted material abundant, globby, <0.5 cm	
50	clast poor muddy diamict		N4					some small, rounded coal clasts, a few wood fragments.	
60								rounded mud clast 3 cm Ø	
70								↳ flakes arranged parallel to bedding	
80									
90							SS99	sand with mud	
100								Colour banding, see above	
110	mud		10Y3/2						
120	HS								
130	IW								
140									
150									

→DLV

Expedition 341 S. Alaska Margin: U1417 E 26R 2 0–150

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: KB, 6-18-13 Date:
0									
10								rounded mud clasts, >7cm Ø, elongate, at 30–34 cm and at 0–8 cm	
20	clast poor muddy diamict with sand							angular clasts of lithified material abundant, flaky, <0.5 cm flakes arranged parallel to bedding	
30			N4						
40									
50									
60				woodcrate					
62									
70			10Y 3/2					colour banded dark greenish grey 5GY 3/1 < dark grey 10Y 3/2	
80	mud			biscuits			SC82	mud, barren	
90									
100									
100									
110	Flow-in								
111									
120	mud		10Y 3/2					rounded greenish clasts, 0.5 cm Ø, tuff?; angular, partially flaky felsic clasts,	
130									
140									
141	clast-poor muddy diam.		N4				SS148	clast silt, lots of HM	
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 26R (Core:) 3A (Section:) 586.11m CSF-A (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	silt w/abundant clasts		N4		none	present (6, >2mm)		0-119: biscuit, slight
7								
10								
20		COLOR BANDS (CB)						
30	mud		5B, 4/1		heavy	absent		-brown color bands
40								
50								
60								
62	mud w/sand		N4		none	absent		
67								
70								
80	mud	CB	5Y, 4/1		heavy	absent	SS78	>mud; no bio -green color bands
90								
91	clast-poor muddy diamict	normal grade	N4		none	present (4, >2mm)		
99.5								
100								
110	mud	CB	5Y, 4/1		heavy	absent		-green color bands
120	END							119
130								
140								
150								

Logged by: Childress Date: June

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 26R (Core:) CC-A (Section:) 587.30m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	mud		N3		none			4cm: wood fragment ~1cm dia.
6	irregular	color band						-brown color band
10	mud		5G 4/1		mod.	none		
11	PAL						PAL	
16								0-6cm: muddy matrix w/ many small black wood/coal/plant (organic origin) fragments

Logged by: Childress Date: June 19 2013

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

→DLC

Expedition 341 S. Alaska Margin: U1417 E 27B 1 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology: clast poor diamict

Logged by: KB, 6-18-13 Date:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0				core				
10	mud		10Y 3/2	mod.	m			colour banded grey/brown
14.5	silty mud		N4					gradational top
20								
23.5								sharp base
29	mud		10Y 3/2	mud				brown/green colour banded
30	clast poor muddy diamict	△						± gradational top
40			N4				CS-2	sand pf 5% glass
47								sharp base
50	mud		10Y 3/2	mod.				colour banded green/brown
60	cp-m diam.	△	N4					gradational top
69								sharp base
70	mud		10Y 3/2					
76	clast-y mud		N4					
80								
83			10Y 3/2					
90								colour banded
	mud							
100				crack, no flow				
110								
120								
130							CS-135	mud, barren
140								
150								

added mud at top

→DLL

Expedition 341 S. Alaska Margin: U1417 E 27R 2 0-87

Site: U1417 | Hole: E | Core: 27R | Section: 2 | Top Depth: 0-87

Major Lithology: mud | Minor Lithology:

Logged by: [illegible] | Date: 6-18-13

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
10								
15–20	mud		10Y 3/2		mod			colour banded green/brown @ 19cm ≥ pteropod
30								
34–36			N/A					mud with dispersed clasts including coal fragments, flaky, ≤ 0.5cm clay with dispersed clasts
40								
50–60			10Y 3/2		mod to heavy			colour banded green/brown
60–65	mud							pyritized burrows
70								
80								
87								
90								
100								
110								
120								
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 27R (Core:) 3A (Section:) 595.36m CSF-A (Top Depth:)

Major Lithology: mud Minor Lithology:

Logged by: Childress Date: June 19 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0						absent		*sparse black mottling
10	mud	COLOR BANDS	5G 4/1		heavy			-with brown/grey bands
20								-18-33: some very small pyritized areas
30								
40							SS40	muck, no bio
50								
60								
70								
80								
90								
100								
105								
110	IW						IW	
120								
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 27R (Core:) 4A (Section:) 596.56 m CSF-A (Top Depth:)

Major Lithology: MUD Minor Lithology:

Logged by: Childress Date: June 19 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0						absent		* sparse black mottling
10		COLOR BANDS (CB)						-brown/gray color bands
20	mud		5G 4/1		heavy			
30								
37								37-45: flow in? high f.so.
40	mud		N4		none			
45								
50								
60								
70	mud	CB	5G 4/1		heavy			
80								
90							SSB6	mud, no bio
92								
100	OJIM						OJIM	
106								
110								
120								
130								
140								
150								

→DLC

Expedition 341 S. Alaska Margin: 1417 E 28R 1 0-101

Site: Hole: Core: Section: Top Depth:

Major Lithology: wmd Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-15-13 Date:
0				slight					
10								colour bandings grey/brown	
20									
30	wmd		10Y3/2	biscuits moderate to high	bioturbation throughout				
40							SS42	wmd, brown,	
50									
60									
70									
80				moisture loss					
90	muddy sand								
100	101								
110									
120									
130									
140									
150									

—DL✓

Expedition 341 S. Alaska Margin: U1417 E 28R 2 0–92

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: clast poor diamict

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB Date: 6-18-13
0–13	muddy sand			mousselike destroyed					
13–22.5	mud		10Y 3/2		heavy			colour banding	
22.5–25				mod. destr.					
25–44	muddy silt with disp. clasts	△	N3					gradational top; sharp base	
44–52.5	mud		10Y 3/2		heavy			c.b.	
52.5–55.5	muddy silt		N3						
55.5–62.5	mud		10Y 3/2		heavy			c.b.; sharp contact	
62.5–92	clast poor muddy diamict		N3				SS78	large, subrounded mudclasts at the top. Green mud like above + below, "intraclasts"; very small set black clasts; sand	
100									
110									
120									
130									
140									
150									

→DLC

Expedition 341 S. Alaska Margin: U1417 E 28R CC 0-18

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-18-13 Date:
0	mud		10Y 3/2					c-b.	
10									
13	SAL								
18									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 29R (Core:) 1A (Section:) 612.40m CSF-A (Top Depth:)

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

Logged by: Childress Date: June 19 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
	mud		N4		—	absent		0-7cm: extremely disturbed
7								
	mud		5G 4/1	BISCUIT	slight			7-14.1: biscuit, slight to mod.
11								→ gradational.
	silt ↑ sand	normal graded	N4		none			→ 21cm: layer of small wood fragments? (black)
20								
22	DR mud		5GY 4/1		slight			
27.5								
30								
	diatom rich (DR) mud	COLOR BANDS (CB)	5G 4/1		moderate			- gray color bands
40								
50								
60								
62.5								
70	silty sand		N4		none			
74.5								
	D.R. mud	CB	5G 4/1		slight			- gray/brown band
78.5								
80	muddy silt		N4		slight			
90								
93	D.R. mud		5G 4/1		slight			
96								
100	muddy silt		N4		mod.			
107.5								
110							S=110	→ diatom rich mud
	diatom rich mud		5G 4/1		mod.			
120								
130								
133	clast-poor sandy diamict		N4		none	present (4, >2mm)		
140							141	
	END							
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 29R (Core:) 2A (Section:) 613.81m CSF-A (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (I.e. - shells, worm tubes, ~~clasts~~, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	sand		N3		none	absent		
1.5	diatom rich mud	COLOR BANDS	5G 4/1 with 5Y 4/1		moderate			brown color bands (3-10cm thick
86.5	see →		N4		none			86.5-88: silt 88-90: siltstone
90	calcareous rich mudstone		10Y 5/1		heavy			
98								
100	diatom rich sand		10Y 5/1		heavy		SS105	→ diatom rich sand
113							SS115	← diatom rich mud
120	diatom rich mud							
134								→ gradational, bioturb.
140	diatom rich mud		5G 4/1		moderate			
150								

Logged by: Childress Date: June 19 2013

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 29R (Core:) 3A (Section:) 615.31 cm CSF-A (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Childress Date: June 19 2013
0	sand		5G 3/1	Biscuiting		present, 20	SS8	6-8cm; sand w/ abundant clasts (muddasts)	
10	sand							very fine sand	
20	diatom ooze		10GY 5/1		mod.				
30									
40									
50									
60									
70									
80									
90									
100									
110									
120							SS125	diatom ooze	
130									
140									
150									

-JDL

Expedition 341 S. Alaska Margin: U1417 E 29R 4 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: layey silty breccia Minor Lithology: diatom ooze

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, Date: 6-18-13
0	diatom ooze w/ calcite		10BY6/1						
10									
16.5	muddy silt								
20									
28	d.o.								
30									
40	muddy silt							debris flow deposit / slump	
50	d.o.		10BY6/1					layey / silty breccia	
60									
67	muddy silty d.o.								
70									
80			N3						
90	d.o.								
100	muddy silt								
110			N3						
120									
130									
140									
150									

→DLV

Expedition 341 S. Alaska Margin: U1417 E 29R 5A 0-535

Site: Hole: Core: Section: Top Depth:

Major Lithology: diatom. ooze Minor Lithology: muddy silt

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: HB, 6-18-13
0	muddy silt		N3						
10									
18									
20	d.o		10Y6/1						
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

→ D2 ✓

Expedition 341 S. Alaska Margin: U1417 E 29R CC 0-80.5

Site: Hole: Core: Section: Top Depth:

Major Lithology: diatom ooze Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: VB, 6-18-13 Date:
0									
10	do								
17									
20	PAL								
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 30R 1A 0-133

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: MF 20/JUN/13 Date:
0	VOID			VOID				0-3.5: VOID	
	Sand		5Y 3/2					3.5-5: sand, erosive lower boundary; some laminations; plant fragments	
10	Mud (colour-banded)		5Y 4/1 / 10Y 4/1					5-17.5: Colour banded mud 5Y 4/1 brownish (base) 10Y 4/1 greenish (top); gradational boundaries; slight bioturbation in browner part; gradational lower boundary of interval	
20	Mud		5Y 4/1					17.5-24.5: reverse-graded mud; some pyritized burrows(?); moderate to high bioturbation to maybe some gradation due to bioturbation?	
30									
40								24.5-74: normally graded medium sand to muddy sand; lower erosive boundary; ~1 cm above lower boundary preserved in situ; ~30-73 sandy sand; 26-30: sand biscuit; 24.5-26: in situ sand; rel. much biotite (<2 mm) & hornblende; also green stone fragment; also diatom fragments & sponge spicules	
50	Sand		5Y 4/1						
60									
70								74-82.5 colour banded mud; as 5-17.5 cm; brown interval seems to be slightly coarser; gradational lower boundary; slightly bioturbated	
80	Mud		5Y 4/1 10Y 4/1					82.5-96.5: sandy mud; generally fining upward; some mm-cm laminations & bioturbation from 82.5-87 cm; multiple coarse sand of mica, wood/coal/black shale, some black mineral(?) to not possible to identify; ~89-92: two larger rip-up clasts of green mud, more plant fragments ~94-96(?)	
90	Sandy mud		5Y 4/1					NOTE partly intense flow-in below 92 to could be some flow-in from sand 24.5-74?; sharp lower boundary that might not be the real/original one	
100									
110	Mud		5Y 4/1	Biscuit & flow-in (slight to moderate)				96.5-125: graded mud, some laminations in lower part, massive in upper part; rel. clast-rich interval between 122-124.5 => flow-in?; clasts are dark, as in 82.5-96.5; lowermost 5mm of original stratigraphy probably preserved to sharp, erosive boundary	
120									
130	Mud		5Y 4/1 10Y 4/1					125-133 as 5-17.5	
140								whole interval calcareous-bearing (except of sands)	
150									

Expedition 341 S. Alaska Margin: U1417 E 30R CC 0-14

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date:
0	Mud		5Y 4/1	Biscuits slight			PAL	0-8.5 5Y 4/1, mud; brownish part of interval 125-133, section 1; weakly laminated below 1 cm; 8.5-14 Sample PAL	MF 20/JUN/13
10									
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 31R 1 0-124 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology: Silt

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0				fall in				0-8 cm: drilling disturbance fall-in (high)
10	mud		10Y 3/1		slight			8-30 cm: color banded mud
20								very sharp color boundary @ 23 cm
30	very fine sand (coarse)		5GY 4/1 5GY 3/1					30-42 cm: silt/very fine sand with mud, mud clasts, black coaly shale, fragments (granules), muscovite, siderite (well preserved) sharp upper & lower boundaries
40		color banding	5Y 4/1		0		(SS)	- coal fragment (light, foliated) 4 cm x 2 cm, black/brown, soft ✓
50	mud		5GY 4/1 ↓		slight			
60	silty mud		10Y 3/1					42-60 cm: mud with slight color variations from greenish to brownish gray
70			N7					60-63 cm: slightly silty mud with black fine to medium grained plant fragments?
80	mud ↓ silt/ sand		10Y 3/1	slight bioturb.	0			63-69 cm: light gray siltstone or graywacke
90								69-86 cm silty mud
100			5GY 4/1				SS (114)	86-92 cm tilted bed of silt/ sand, sharp lower boundary, rip up clasts (mud clasts), lithic fine grains, black granules = tilted !!! bottom
110			↕		slight			
120			10Y 3/1					94-124 cm: color banded mud 5GY 4/1 to 10Y 3/1
130								
140								
150								

Logged by: JM Date: 20.6.13

Expedition 341 S. Alaska Margin: 414A7 E 31R CC 0-21.5cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology: Silt

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 20.6.13
0	mud		10Y 4/1	Sediment disturbed by coring	Low to moderate			0-21.5cm: mud increasing silt content towards bottom	
20	X						PAL	21.5-26.5cm: PAL sample	
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 32R 2 0-84.5cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 20.6.13
0									
10					slight (hard to see)			clayey greenish gray mud = siliceous ooze	
20			5GY 5/1					(calcite cemented possibly)	
30	mud								
40									
50									
60									
70				slicks				66-73cm siliceous, slight	
80	mud							siliceous ooze	
90	X						SAFF	sample 87-104 cm	
100									
110	IW						IW	104-119 cm sample	
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 32R 1A 0-130

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0			5Y 4/1	WASHED				0-7: washed pebbles of sandy diamict
10			5Y 4/1					7-8.5: remnants of muddy sand with erosive lower boundary to abundant quartz & dark minerals
			10Y 4/1					
20								
			5Y 4/1					8.5-23.5 colourbanded mud
30								5Y 4/1: brownish (top)
40								10Y 4/1 greenish (base), gradational internal boundaries slight to moderate bioturb. sharp boundary to underlying interval
50								
60								23.5-60:
70								* normally graded fine sand to sandy mud
80								* Lamination: 30-41, otherwise massive
90								
100								60-130:
110								* biscuits of colourbanded mud as 8.5-23.5
120								* 91-97: biscuit with slightly coarser colourbanded & folded sediment; mud, calcareous, some plant debris
130								* 110-115: some irregular stratification
140								* relatively substantial flow of sand below 101 cm
150								

biscuits & flow-in (moderate to high)

Logged by: MF 20/JUN/13 Date:

Expedition 341 S. Alaska Margin: U1417 E 32R 3 0-97 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 20.6.13
0								clayey mud = biosiliceous ooze	
10									
20	clayey mud		5GY 5/1		slight				
30									
40									
50								diatom rich	
60	silty		10Y 4/1		slight		ss	50-63 cm silty mud interval, gradational lower boundary (slightly bioturbated) + sharp, irregular, volcaicl. in boundary → looks like worms & co preferred this layer for dinner	
70									
80	clayey mud (biosil ooze)		5GY 5/1		slight			cracks @ 70-78 cm (slight)	
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 12R CC 0-13 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JH Date: 20.6.13
0	mud		5G/ 5/1	slight	slight			clayey mud : Sio sil. ooze	
10	X						PAL	13-18 cm PAL sample	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 34R CC 0-11.5

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: MF 20/JUN/13
0	silt-stone		N6					0-11.5	
10								* massive siltstone with carbonate cement	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 35R 1A 0-146

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Date: FF 20/JUN/13
0	Bio ooze		5GY 5/1					0-42.5 * biosiliceous ooze * cracks filled with sand injections * lower boundary not preserved	
40	Carb		5Y 6/1		heavy			42.5-53: * mud with carbonate	
50	Mud		5GY 5/1						
60	Sandy mud		10Y 4/1 5Y 4/1	slight to moderate	slight to no			53-57 * use of colour banded mud (for details see 62-132)	
70	Mud		5Y 4/1					57-62 * sandy mud with dark grains & mica (muscovite?) * "imbedded in halfgraben"	
90				Bioturbidis				62-131 * colour-banded mud * 10Y 4/1 (greenish) * 5Y 4/1 (brownish) * inclined	
100					slight				
110									
120								* occasional occurrence of <1 cm thick, laminated intervals	
130								* repeated occurrence of extensional tectonic structures, e.g. small halfgrabens	
140							1W	* occasional occurrence of greenish intervals (5GY 3/1)	
150								131-146: Sample 1W	

Expedition 341 S. Alaska Margin: U1417 E 35R 2A 0-127

Site: Hole: Core: Section: Top Depth:

Major Lithology: Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HF 20 JUN 13 Date:
0			5Y 4/1					0-34.0	
10	Mud		↓					* section 1, 62-131	
20								34-51: OJM Sample	
30								51-109:	
40	OJM							* section 1, 62-131 Lo some sand patches attached to biscuits	
50	Mud			Biscuits (slight - moderate)	slight				
60								109-114.5	
70								* muddy sand with numerous black fragments * erosive lower boundary	
80								114.5-127	
90								* Section 1, 62-131	
100									
110	muddy sand								
120	Mud								
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 35R 3 0-131 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: sand Minor Lithology: mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JM Date: 20.6.'13
0	mud		5GY 4/1		slight			clayey mud: 0-6 cm	
10								silty mud: 6-44 cm	
20	silty mud		10Y 4/1					with sandy injections from formation underneath	
30				(slight)	0				
40				throughout + cracks				sharp contact @ 44 cm	
50									
60								~~muddy~~ silty sand: fine sand with few dispersed grains & granules of black shale?	
70	muddy sand		5Y 3/1		0				
80									
90									
100									
110				(very slight flow-in)					
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 35R CC 0-8,5 cm

Site: Hole: Core: Section: Top Depth:

Major Lithology: sand Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: JH Date: 20.6.13
0	sand		5Y 3/1					muddy fine sand with dispersed fine grained clasts shale?, micas	
10	PAL							8.5 - 14 cm : sample	
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 36R (Core:) 1A (Section:) 670.70m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology: Silt

Logged by: Childress Date: June 20 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	mud		N4	⇒	none	absent		extreme drilling disturbance, completely jumbled
10	calcar. bear. mudstone		N3					
20								→ gradational, irreg/disturbance
30	silt w/ common clasts	reverse grading	5Y 3/1		none	present (5, >2mm)		- clasts are coal fragments, and mud clasts
40								
50	silty sand		5Y 3/1					→ gradational
60					none	absent		
70	silt		5Y 3/1		none	a		- w/ fine black particles (coal? - too small to know)
72	mud		5G 4/1		slight	↓	SS74	→ mud, no bio → gradational, bio
80	silt w/ sand	rev. grade	5Y 3/1		slight	present (2, >2mm)	SS79	- mud clast, very small coal fragments → silt, large biotite grains → angled contact
90							SS83	mud, no bio
100	mud	COLOR BANDS	5Y 4/1		slight	absent		- green color bands
110								
117	END							
120								
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 36R (Core:) 2A (Section:) 671.87m CSF-A (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								@ 3cm: pyritized material
10		COLOR BANDS (CB)						-green color bands
20	mud		5Y 4/1		slight	none		normal faults @ ~ 20; 30 cm (in green bands
30								
38								
40	silty sand w/ dispersed clasts		5Y 3/1		none	present (6, >2mm)		-mud clasts & some coal
50								irregular
60								
70								
80								
90	mud	CB	5Y 4/1		slight	absent		-green color bands
100								
110								
114								gradational
	mud w/ coal		N4		none	—		→ coal fragments
120	sand w/ mud	normal grade	N4		none	present (3, >2mm)		
124								
	mud		5G 4/1		slight	none		
130	END							130
140								
150								

Logged by: Childress Date: June 20 2013

Expedition 341 S. Alaska Margin: U1417 E 36R CC-A 673.17m CSF-A

Site: Hole: Core: Section: Top Depth:

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: Childress Date: June 20 2013
0						absent			
10	mud		N4		mod.				
20	PAL						PAL		
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 37R (Core:) 1A (Section:) 680.40m CSF-A (Top Depth:)

Major Lithology: MUD Minor Lithology: SAND w/ SILT

Logged by: Childress Date: June 20 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	silt ↑ sand	normal grade	N4					small black fragments
7.5					slight	absent		
10	mud	CBH	N4					green color bands
13.5	silt ↑ sand	normal grade	5GY 2.5/1		none	present (2, >2mm)		gradational, bio small coal, mud clasts (sand size)
17.5								
20	mud		5Y 4/1		slight	absent		
22	diatom rich mud		10GY 4/1		moderate		SS25	diatom rich mud
26								
30	mud		5Y 4/1					
40					slight			
50								0-135: biscuit, slight 52-73: crack, high 130-135: crack, mod.
57								gradational
60	silt ↑ sand	normal grade	N4	CRACK	none			
65	diatom rich mud		10GY 4/1		mod.			irregular
70								
73								irregular
80	mud		5GY 4/1		none			
81	silt		N4		none			gradational
90								
92	mud		5GY 4/1		slight			
100								irregular
	silt w/ abundant clasts	reverse grade	N4		none	present (13, >2mm)		small black fragments; coal.?
110								
112								
120	mud		5Y 4/1		slight	absent		
123.5	clast-rich sandy diamict	normal	N3		none	present (17, >2mm)	SS127	silt w/ sand gradational mud clast, smaller coal fragments @124.5cm: WOOD, ~1 cm long, 1 mm wide piece
130								
135								
140	IW						IW	
150								
152								

END

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 37R (Core:) 2A (Section:) 681.92m CSF-A (Top Depth:)

Major Lithology: MUD Minor Lithology: SAND → SILT

Logged by: Childress Date: June 20 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
10	mud	COLOR BANDS (CB)	5Y 4/1		slight	absent		- green color bands
20								
29 30								→ gradational
	silt ↑ fine sand	normal	N3		none	absent		- with small (<1mm) black fragments
40 44								
	mud		5G 4/1		slight	absent		→ gradational
50 51	silt ↓ fine sand	normal	N3		slight	absent		52-54: crack, high
54.5 60							SS62-	mud, w/ silt
	mud	CB	5Y 4/1		slight	absent		- green color bands
70								
80								
84 90								
100								
110								
120								
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 37R (Core:) CC-A (Section:) 682.76 m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology:

Logged by: Childress Date: June 20 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
10	mud		5Y 4/1		slight	absent		
20	PAL						PAL	
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 E 38R 1A 0-151

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: silt

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-20-13 Date:
0				cracks, disturb.					
10									
17									
20	mud		5G 4/1		mud			colour banded green/brown	
30									
40									
45									
50			N3						
60	mud		10YR 3/1		mud		5965	mud w. silt brown, soft green laminated	
70									
80									
82		silt							
90	muddy silt		N3				5994	silt	
100									
108									
110	mud		5G 4/1		mud				
117		silt							
120	muddy silt		N3						
130									
140									
150								with black clasts, not carbonate	

Expedition 341 S. Alaska Margin: U1417 E 38R 2A 0-151

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: muddy silt

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-20-13 Date:
0									
10									
20									
30	muddy silt		N3						
40									
50									
60	mud		N4						
62									
64	mud		5G 4/1						
66									
70									
80									
90	mud		N3			o		sand rip-up clasts, rounded, 0.5 cm long axis.	
100						o	SS106	rounded, 0.5 cm ∅	
110								mud w. silt	
120								mottled, muddy silt	
130									
140									
150									

Expedition 341 S. Alaska Margin: U1417 E 38R 3A 0-150

Site: Hole: Core: Section: Top Depth:

Major Lithology: muddy silt Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: MB, 6-20-13 Date:
0								sand rip-up clast, 8 cm long axis rounded	
10									
20								0.5 cm ø	
30									
40									
50	muddy silt								
60			N3						
70									
80									
90									
100									
110									
120									
130									
140									
150								MB13	

Expedition 341 S. Alaska Margin: U1417 E 38R 4A 0-82

Site: U1417 | Hole: E | Core: 38R | Section: 4A | Top Depth: 0-82

Major Lithology: muddy silt ..... Minor Lithology: mud

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0								
10	muddy silt		N3					
20				biscuits mod - heavy				
30								
40	mud		10YR 3/1		mod			
48–50								
60	muddy silt		N3					
69–70								
80	mud		10YR 3/1		heavy			
90								
100								
110								
120								
130								
140								
150								

Logged by: HB Date: 6-20-13

Expedition 341 S. Alaska Margin: 1147 E 38R CC 0-15

Site: Hole: Core: Section: Top Depth:

Major Lithology: muddy silt Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-20-13 Date:
0	muddy, G/2		5Y3	Gassed Gas					
10	PAL								
20									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

→DL

Expedition 341 S. Alaska Margin: U1417 E 39R 1A 0-66

Site: Hole: Core: Section: Top Depth:

Major Lithology: Mud Minor Lithology: Sand

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-20-13 Date:
0									
10									
20	Mud		N3	heavy/	moderate				
30									
40									
42	coarse sand with mud		N4	bioturbated				lots of wet black clast (many flakey clasts of diatom ooze (grayish green)	
55									
60	silt with sand		N4					sand, fine grain size	
70									
80									
90									
100									
110									
120									
130									
140									
150									

-DL ✓

Expedition 341 S. Alaska Margin: U1417 E 39R 2A 0-136

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology: sand

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: HB, 6-20-13 Date:
0									
10									
11									
20	mud								
30			N3						
40									
50									
55									
60	mud		10YR 3/1		moderate			colour banded green/brown gradational top	
68									
70	muddy sand							mud with silt	
80			N3						
90									
100								medium sand, p.s. sharp base	
105									
110			10YR 3/1	moderate bioturb	moderate			colour bandings green/brown	
120	mud								
130									
140									
150									

->DL✓

Expedition 341 S. Alaska Margin: U1417 E 39R 3A 0-(96) 111

Site: Hole: Core: Section: Top Depth:

Major Lithology: mud Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0			2.5Y6/1					cemented, not calcareous
25								
10								
20	mud							colour banding green/brown
30			10YR 3/1	biscuit slight to mod.	moderate			
40								
50								
60								
70								
80								
90								
100	IW							
111								
110								
120								
130								
140								
150								

Logged by: HB Date: 6-20-13

→DLC

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 39R (Core:) 4A (Section:) 0–150 (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other	Logged by: AB, 6-20-13 Date:
0									
10									
20	mud		10YR 3/1	slight	moderate			colour banding grey/brown thin laminae in groups of 3 to 5; occasionally thicker coloured	
30									
40									
50									
55							SS56	mud/basalt	
60									
70									
80									
90								sharp contact ⇒ mm scale downward faulted	
91	muddy sand		N3						
100								sharp base contact	
102									
110								colour banding grey/brown,	
120	mud		10YR 3/1		moderate			thin light coloured laminae	
130									
140									
144	muddy sand		N3						
150									

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 39R (Core:) 5A (Section:) 704.41 m CSF-A (Top Depth:)

Major Lithology: Mud Minor Lithology:

Logged by: Childress Date: June 20 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	coarse sand		N3			absent		
2.5								brown/green color bands
10	mud	COLOR BAND (CB)	N4		slight			
20								
23.5								
30								33.5 - black thin lamination
								35-37: white mottles, bioturb.
40	mud		5G 4/1		heavy			
								45-46: white laminae (thinly lam.)
								gradational
50								
60								
70	mud	CB	N4		slight			green color bands
80								
89								
90	mud		5G 4/1	CRACKS	heavy			95-97: thin white laminae. 96-111: crack; slight to mod.
100	diatom bearing mud		10GY 6/1		heavy		SS102	diatom bearing mud
110	mud		5G 4/1		moderate			
120								
125	END							
130								
140								
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 39R (Core:) 6A (Section:) 705.66 m CSF-A (Top Depth:)

Major Lithology: DIATOM OOZE Minor Lithology: DIATOM BEARING MUD

Logged by: Childress Date: JUNE 20 2013

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	mud		N4		heavy			
2	diatom bearing mud		10GY 6/1		very heavy	absent		
10								gradational, bioturb.
20								20.5-21.5: black thin lamination
30								
40					heavy			-blackish/brown burrowing
	DIATOM		10GY 5/1					
50	OOZE							
60								
70					slight			
80								
90								
100							55100	diatom ooze
110								
120								
130								
140					heavy			
145								-brown burrowing
150								

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 39R (Core:) 7A (Section:) 707.11 m CSF-A (Top Depth:)

Major Lithology: DIATOM OOZE Minor Lithology:

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	SCRE						SCRE	
10						absent		
20	DIATOM OOZE		10GY5/1		slight			
30					heavy			
40								39-44 i crack destroyed
44	END							
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Logged by: Childress Date: June 20 2013

Expedition 341 S. Alaska Margin: U1417 (Site:) E (Hole:) 39R (Core:) CC-A (Section:) 707.55 m CSF-A (Top Depth:)

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

Offset (cm)	Lithology	Sed. Structures	Color	Drilling disturb.	Bioturb.	Accessories: (i.e. - shells, worm tubes, clasts, etc.)	Samples	Core Description: comments, contacts, recommended photos, other
0	mud		5G 4/1	V	moderate	absent		1-7: void, moderate
10	diatom ooze		10GY 5/1					→ irregular
20								23
30	PAL						PAL	28
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								

Logged by: Childress Date: JUNE 20 2013