

No accessories in excel file

1345 A 14 1+2
 Site Hole Core Section Top Depth

Expedition 323
 Bering Sea

Depth (ft)	Graphic Representation	Color	Lithology	Bloturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
							Visual Core description	
0-20		SY412					0-20 compy, below 20 soft	
15-25		SY312		?			15-25 grad.	
35-65		SY412	less sandy	84			55-65 grad	
84-90		SY412+ SY511 (20/50)		100-110			84-90 thin bedding	
100-110		SY413+ SY411+SY514	(20/50/30)				100-110 med. lam.	
110-123							110-123 thin bedding	
123-130							123-130 thick. lam.	
4-10		SY413+SY512+ SY2.511 (40+50+10)	10 21	100			4-10 large burrows (Skolithos), filled with brownish sand	
10-53		(35+35+20) (40+50+10)	39 52				10-53 medium to thick lam., variable thicknesses of light grey, greenish + black material.	
10-21		10Y4/1					10-21 little black material	
21-39							21-39 much black material	
39-53							39-53 little black material	

Holocene

YD

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 1H 3+cc
Site Hole Core Section Top Depth

4D
OD Allwood

Graphical Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
					Visual Core description	
10	10Y4/1					
15	10Y4/1 + 5Y4/2		slight			30-34 thin bedding,
25	10Y4/1					
45	10Y4/1 + 5Y4/2					74-125 undulating thin bedding, list.
70	10Y4/1			125		
80				5		
100						
110						
120						
130						
140						

Observer: _____ Date: _____

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	1	H	1	5	5

Sediment/Rock Name	Diatom-rich clayey sand	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
45	25	30

Comments: Main lith Sandy, greener

Percent	Component
70	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
13	Quartz
14	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
15	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
5	Muscovite
21	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
2	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
10	VOLCANICLASTIC GRAINS
	Crystal grain
10	Vitric grain
	Lithic grain

Percent	Component
20	BIOGENIC GRAINS
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	1	H	1	40	40

Sediment/Rock Name	Diatom-bearing clayey sand	Observer	
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Percent Texture		
Sand	Silt	Clay
40	25	35

Comments: Main Lith

Sandy, less green

Percent	Component
80	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
13	Quartz
14	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
20	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
28	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
5	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
10	VOLCANICLASTIC GRAINS
	Crystal grain
10	Vitric grain
	Lithic grain

Percent	Component
10	BIOGENIC GRAINS
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
7	Centric
3	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U134S	A	1	H	1	101.5	101.5

✓ ✓ SM

Sediment/Rock Name	Nanno-bearing diatom ooze	Observer	
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Comments: Lamina - dark grey ^{thin}

S	Percent Texture		
	Sand	Silt	Clay
	2	8	90

Percent	Component
35 SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
2	Quartz
2	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
19	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
12	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
5 VOLCANICLASTIC GRAINS	
	Crystal grain
5	Vitric grain
	Lithic grain

Percent	Component
60 BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
6	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
30	Centric
24	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U134S	A	1	H	1	102	102

✓ ✓ SM

Sediment/Rock Name	Nanno-beamp diatom ooze	Observer	
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Percent Texture		
Sand	Silt	Clay
		✓

Comments:

Lamina
Thick lighter green

Percent	Component
34	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
2	Quartz
2	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
2	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
13	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
10	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
6	VOLCANICLASTIC GRAINS
	Crystal grain
6	Vitric grain
	Lithic grain

Percent	Component
60	BIOGENIC GRAINS
	Calcareous
	Foraminifera
1	Planktonic foraminifera <i>N. pach</i> (s.)
1	Benthic foraminifera <i>Bullimina</i>
	Nannofossils
5	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
29	Centric
20	Pennate
4	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U134S	A	1	H	1	119.5	119.5

Sediment/Rock Name	Diatom rich silty clay	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
5	30	65

Comments:

Thin bed
light grey, v. fine grained

Percent	Component
65	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
5	Quartz
6	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
8	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
42	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
4	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
5	VOLCANICLASTIC GRAINS
	Crystal grain
5	Vitric grain
	Lithic grain

Percent	Component
30	BIOGENIC GRAINS
	Calcareous
	Foraminifera
	Planktonic foraminifera
2	Benthic foraminifera <i>Bolivina</i>
	Nannofossils
2	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
	Centric
	Pennate
2	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

✓✓ SM

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U134S	A	1H		1	120.5	120.5

Sediment/Rock Name	Nanno-bearing Diatom-rich silty clay	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
3	25	72

Comments: Thin bed
darker green

Percent	Component
70 SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
3	Quartz
3	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
50	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
7	Pyrite
	Magnetite
2	Fe-oxide
	Carbonates
	Calcite
	Dolomite
6 VOLCANICLASTIC GRAINS	
	Crystal grain
6	Vitric grain
	Lithic grain

Percent	Component
24 BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
3	✓ Benthic foraminifera <i>Bulimina</i>
	Nannofossils
6	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
15	Diatoms
8	Centric
7	Pennate
	✓ <i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	✓ Echinoderm
	✓ Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	1	H	2	7	7

✓✓ SM

Sediment/Rock Name	Fine ash	Observer	MSC
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Percent Texture		
Sand	Silt	Clay

Comments: Inside "burrow", tilted elongate pod.

Percent	Component
13 SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
1	Quartz
2	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
5	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
87 VOLCANICLASTIC GRAINS	
	Crystal grain
87	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

✓ SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	14		2	44.5	44.5

Sediment/Rock Name	Diatom-rich silty clay	Observer	MSC
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Comments: Lt. Grey laminations

Sand	Percent Texture	
	Silt	Clay
3	37	60

Percent	Component
73	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
7	Quartz
8	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite <i>Many Xpola-Nanno</i>
43	Clay Minerals <i>Look-alikes</i>
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
5	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
12	VOLCANICLASTIC GRAINS
	Crystal grain
12	Vitric grain
	Lithic grain

Percent	Component
15	BIOGENIC GRAINS
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	✓ Coccoliths <i>(real ones)</i>
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
6	Centric
5	Pennate
4	✓ <i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	1	H	2	44.7	44.7

✓✓ ✓ SM

Sediment/Rock Name	Diatom ooze	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
2		

Comments:

dark green lamination 5

Percent	Component
30 SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
3	Quartz
3	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
4	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
12	Clay Minerals <i>many boh-nan</i>
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
8	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
5 VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
65 BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
30	Centric
40	Pennate
5	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	1	H	2	45.0	45.0

✓ ✓ SM

Sediment/Rock Name	Diatom ooze	Observer	MSC
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Percent Texture		
Sand	Silt	Clay

Comments: light green lamination

Percent	Component
22	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
15	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
7	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
	VOLCANICLASTIC GRAINS
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
76	BIOGENIC GRAINS
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
✓	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
35	Centric
38	Pennate
5	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1134S	A	1	H	3	55	55

Sediment/Rock Name	Diatom-bearing silty clay	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
5	25	70

Comments:

main lith - grey

Percent	Component
83	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
1	Quartz
1	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
4	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
52	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
5	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
10	VOLCANICLASTIC GRAINS
	Crystal grain
10	Vitric grain
	Lithic grain

Percent	Component
7	BIOGENIC GRAINS
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
5	Centric
2	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

1345 A 2H 1+2
Site Hole Core Section Top Depth

OD
 Bolong
 CM

Graphic Representation	Color	Lithology	Biurbation	Structures/Accessories	Drilling Dist.	Samples	Visual Core description
	5Y4/1						0-25 soupy
	5Y4/1 + 10Y4/1		26				26-38 med. to thick lam.
	10Y4/1		38				
			53				57-9 (sect. 2) med. to thick lam.
	5Y4/1 + 10Y4/2						0-9 med. lamination
	5Y4/1						90-100 grad.
	10Y4/1		92				97-115 sandy nodules

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 2H 3+4
 Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	10Y4/1		mm				
	5G4/1					57-60 coarse pebble, subangular, dark	
						50-60 grad.	
						90-140 pyrite specks	
	10Y4/1		↓			Sandy mottles here.	

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 2H 5+6+7
 Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Samples	Major Lithology	Minor Lithology
							Visual Core description	
	10Y4/1		AWW		MSK			
							94-95 well-preserved gastropod shell	

Observer: _____ Date: _____

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	2	H	1	113.6	113.6

✓ ✓ GM

Sediment/Rock Name	Diatom silt (~15% pyrite)	Observer	
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Percent Texture		
Sand	Silt	Clay
-	90	10

Comments: Lamina, dark grey

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
10	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
15	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
15	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
40	Centric
20	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

✓ ✓ SM

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	2	H	1	114	114

Sediment/Rock Name	Diatom-rich silty clay	Observer	
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Silico-bearing

Comments: Lamina, light green

Percent Texture		
Sand	Silt	Clay
-	50	50

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
20	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
50	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
3	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
2	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
5	Centric
15	Pennate
	Chaetoceros Resting Spores
5	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	2	H	2	70	70

✓
 ✓ SM

Sediment/Rock Name	<i>Silty clay</i>	Observer	<i>MSC</i>
--------------------	-------------------	----------	------------

Percent Texture		
Sand	Silt	Clay
<i>2</i>	<i>40</i>	<i>58</i>

Comments: *Mass lith*

Percent	Component
<i>97</i>	SILICICLASTIC GRAINS/MINERAL
	Framework minerals
<i>10</i>	Quartz
<i>10</i>	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>19</i>	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
<i>55</i>	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
<i>3</i>	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
	VOLCANICLASTIC GRAINS
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<i>3</i>	BIOGENIC GRAINS
	Calcareous
	Foraminifera
	✓ Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms <i>Mostly fragments</i>
<i>3</i>	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

1345 A 311
Site Hole Core Section Top Depth
Summary
1-CC

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Major Lithology	Minor Lithology
1	10Y 4/1	I	SL	S. 63 P 96		Shell 63. Pebble 96 rounded Black. 0.5cm	
2	8Y 4/N		SL	P 74 S 119 -120		S.P. 0-15. 30.64 Mpyrite 82-90 shell 119-120 Pebble 174 rounded Black	
3	4/N	II	SL			Mottles 13-34. S.P. 0-13	
4	80 121 4/N Lamination 2	III II IV-VII Lamination 0.1	SL AB	80 101		S.P. 3 Pebble 74 to subangular Black 0.5cm 117-113 subrounded 0.5cm Black	54-128 Puncture & G.E. slight
5	4/N	II	SL	30 M O D 120			G.E.
6	4/N		SL	39 M O D 110			
7	10Y 4/1 Lamination	I IV-VI Lamination	SL AB	60 110		60-160 CC. 16cm Lamination (faint) thin bedded 4/N + 5Y 5/3 70% 30%	
CC	10Y 4/1	I	SL	24			

Observer: Hiro A Date: _____

Expedition 323
Bering Sea

1345 A 3H 1
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
10	10Y 4/1	I					
20							
30					30 P		
40							
50							
60				(63) shells			63 shell
70			50				
80					75 P		
90					80 P		
100				P%			80 Pebble Angular 0.5cm Black
110					100 P		
120							
130					130 P		
140							

Observer: Hivo Date: _____

Expedition 323
Bering Sea

BUS A 34 2
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
					Visual Core description	
	<p>10Y 4/1</p>		<p>0 1E 30 8P. 64 5P 5U 82 Mottled Pyrite 70 119-120 shell.</p>			<p>0-18 → Sandy Patch</p> <p>30. Sandy Patch</p> <p>64 Sandy Patch</p> <p>74 Pebble rounded 1.0cm Black</p> <p>82-90 Mottles Pyrite Black</p> <p>119-120 shell fragments (bivalve)</p>

Observer: _____ Date: _____

Expedition 323
Bering Sea

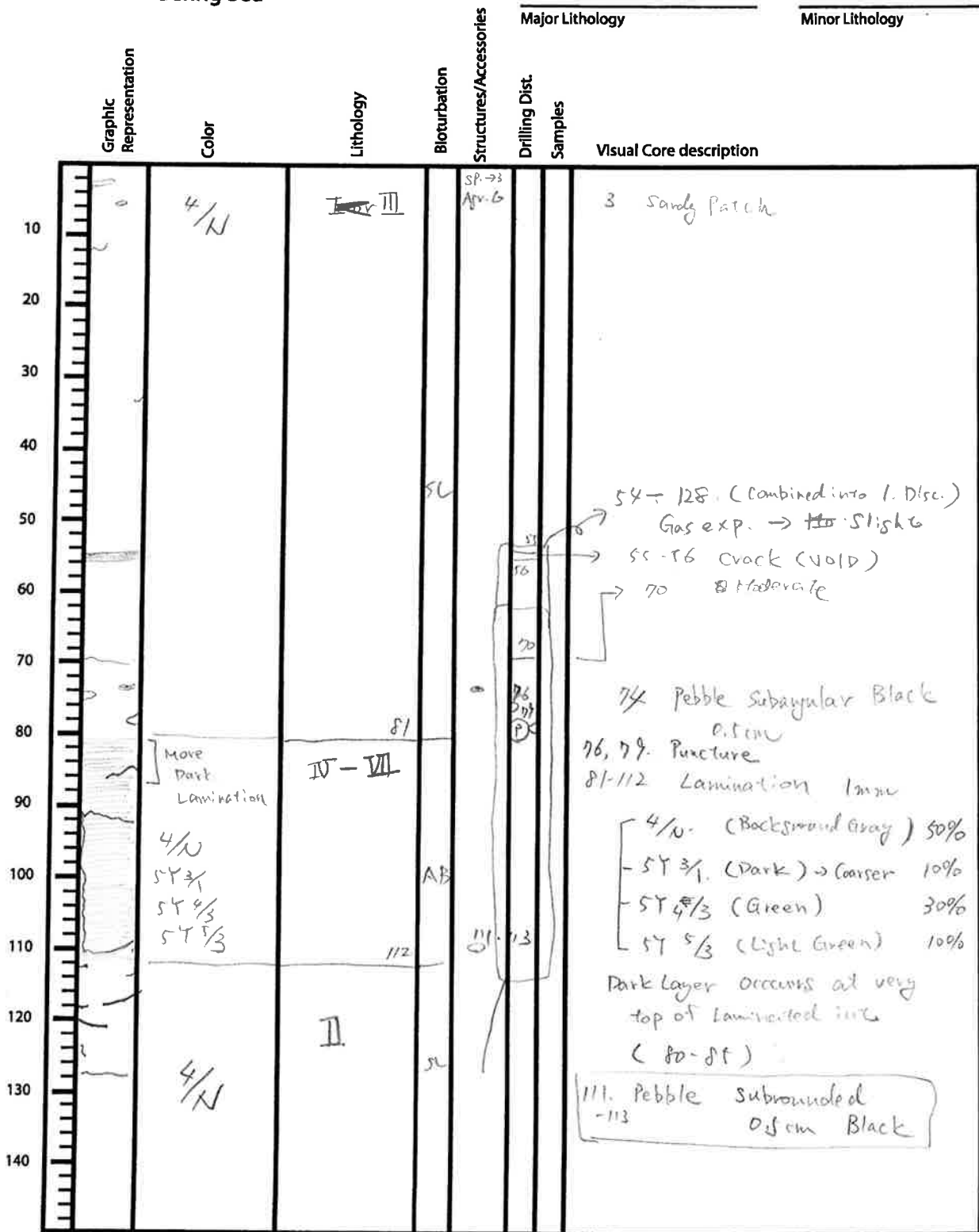
Site BUS Hole A Core 3H Section 3 Top Depth _____

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	4/N	I					0-13 → Sandy Patch 13-34 → Hottles
	⊕ 4/N ⊕	II sandy?	SL				⊕

Observer: Hino Date: _____

Expedition 323
Bering Sea

Site BSA Hole 3H Core 4 Section 4 Top Depth



SP. Adv
6.

Observer: Hivo Date: _____

Expedition 323
Bering Sea

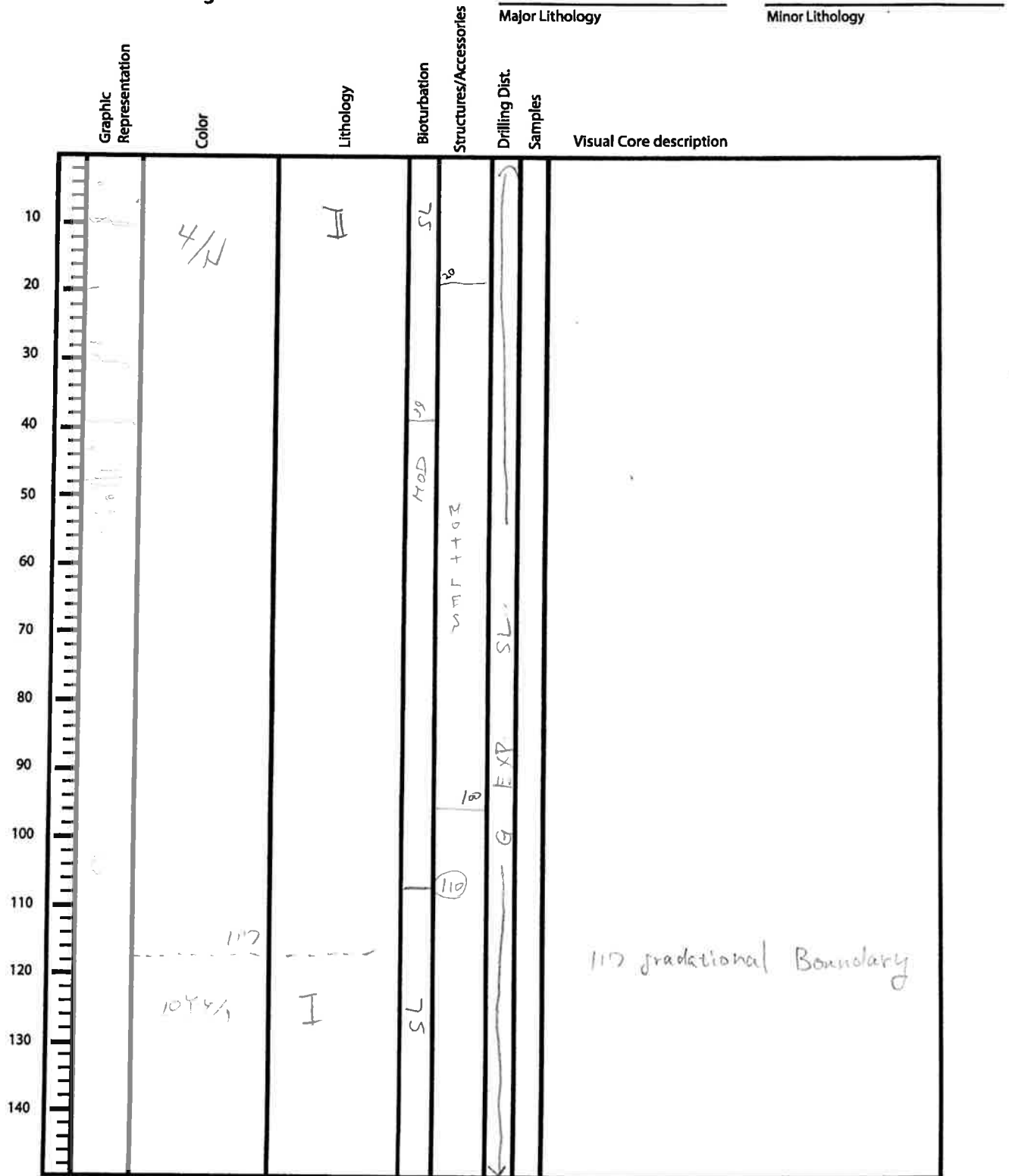
BUS Site A Hole 3H Core 5 Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
					Visual Core description	
	4/12	II 30 120 SL	SL HOD SL SL	100 102 120 150	Drilling Dist. → Gas expansion, puncture 0-150 slight ← 150	

Observer: _____ Date: _____

Expedition 323
Bering Sea

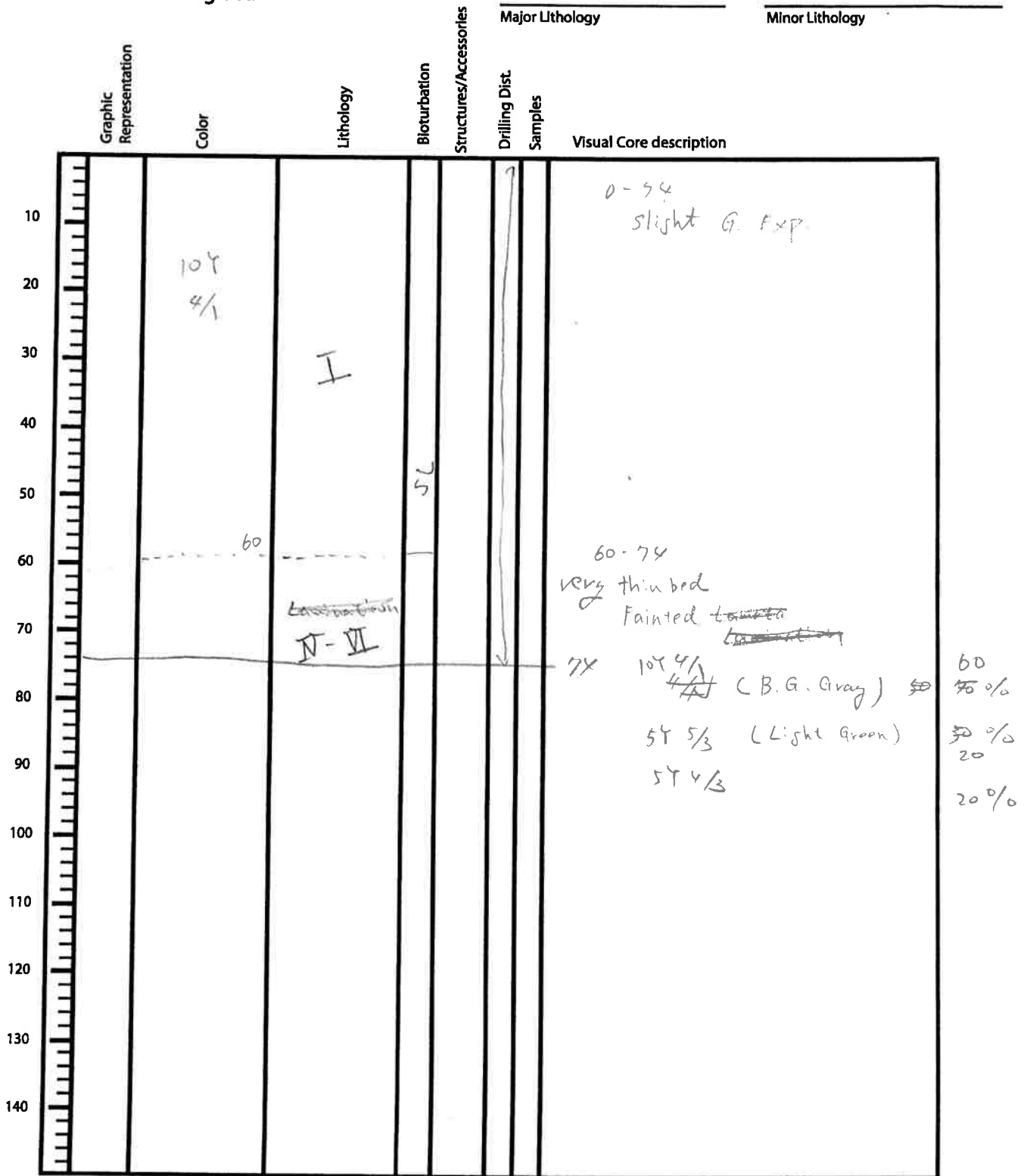
1345 A 34 6
Site Hole Core Section Top Depth



Observer: _____ Date: _____

Expedition 323
Bering Sea

Site BMS Hole A Core 3H Section 2 Top Depth _____



Observer: _____ Date: _____

✓✓ SM

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
B23	1345	A	3H		4	97	97

Sediment/Rock Name	Diatom ooze (~40% pyrite framboids)	Observer	
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Sand	Percent Texture	
	Silt	Clay
—	90	10

Comments:

Green lam.

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
10	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
40	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
50	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

✓ SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	3	H	5	19	19

Sediment/Rock Name	Silty clay	Observer	
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Percent Texture		
Sand	Silt	Clay
-	30	70

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
35	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5	Rock fragments
Accessory/trace minerals	
3	Micas
	Biotite
	Muscovite
50	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
5	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
2	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

4

11345 A 4 1-2
Site Hole Core Section Top Depth

Expedition 323
Bering Sea

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
		d-bear silt			8		P specks; 1:0 - 2:30
	56y 3/1		S		45		cracks
					75		
					87		
					102		
					104		Mjr lith: d-bear silt
							Minor: silty sand. d-rich sandy clay n-bear d oze d-rich silty clay
					25- 20 PEB SWASH		
			S				
					65- 103 AK lit Mota 16W LDM 96-100		
					107- 114		DARK 3/1N light 5y 3/2
	10y 3/1 68	silty sand. DARK					
	10y 4/1						
					104		
	120	lam green	A		Fin bed 114- 120		
	56y 3/1		S		114.5		

1

2

Observer: _____ Date: _____

Expedition 323
Bering Sea

01345A 4H 7, CC
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Major Lithology		Minor Lithology	
					Drilling Dist.	Samples	Visual Core description	
				Crack	-			
					9			
					17			
					24			
					39			
					46			

7

CC

Observer: _____ Date: _____

✓✓SM

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	4	H/S		60cm	

Sediment/Rock Name	silty sand	Observer	Okida
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Percent Texture		
Sand	Silt	Clay
60	30	10

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
29	Quartz 20
7	Feldspar 5 K-feldspar (Orthoclase, Microcline...)
	Plagioclase
43	Rock fragments 30
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals ✓
	Chlorite
	Glaucinite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
10	Pyrite 7
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
4	Crystal grain 3
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
Foraminifera	
	Planktonic foraminifera
	Benthic foraminifera
Nannofossils	
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
4	Diatoms 3
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
393	1345	A	4	H4		50	

✓ ✓ SM

Sediment/Rock Name	diatom-rich sandy clay	Observer	Alvina

Percent Texture		
Sand	Silt	Clay
35	30	35

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
17	Quartz 7
7	Feldspar 3 K-feldspar (Orthoclase, Microcline...)
	Plagioclase
74	Rock fragments 10
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
24	Clay Minerals 10 Chlorite
	Glaucanite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
2	Pyrite 1
	Magnetite
	Fe-oxide
Carbonates	
2	Calcite 1
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
5	Vitric grain 2
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
Foraminifera	
	Planktonic foraminifera
	Benthic foraminifera
Nannofossils	
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians ✓
	Spumellaria
	Nassellaria
17	Diatoms 7
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others



Odontella
aurita

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

✓✓ SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	B45	A	4	H5A	123		

Sediment/Rock Name	diatom-rich silty clay	Observer	Akiu
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Percent Texture		
Sand	Silt	Clay
	40	60

Comments: dark laminae

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
10	Quartz 3
3	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
33	Clay Minerals ✓ 10
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
17	Pyrite ✓ 5
	Magnetite
	Fe-oxide
Carbonates	
10	Calcite 3 (feram?)
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
Foraminifera	
	Planktonic foraminifera
	Benthic foraminifera
Nannofossils	
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
23	Diatoms ✓ 7
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates ✓
3	Sponge spicules ✓ calcareous
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

✓ ✓ SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	4	H	SA	124	

Sediment/Rock Name	nanno-rich diatom ooze	Observer	AKire
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Percent Texture		
Sand	Silt	Clay

Comments: light lam. ✓

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
13	Quartz 3
4	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
13	Pyrite 3
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
4	Foraminifera 1 <i>fragments</i>
	Planktonic foraminifera
	Benthic foraminifera
13	Nannofossils 3
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
65	Diatoms 15
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
393	1385A	4	H	6	60		

✓ ✓ SM

Sediment/Rock Name	a-bear Silt	Observer	Alora
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Percent Texture		
Sand	Silt	Clay
10	60	30

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
23	Quartz 7
17	Feldspar 5
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
23	Rock fragments 7
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
17	Clay Minerals 5
	Chlorite
	Glaucanite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
7	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
7	Calcite 2
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
Foraminifera	
	Planktonic foraminifera
	Benthic foraminifera
Nannofossils	
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
7	Diatoms 2
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
1	Sponge spicules 0.2
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

DP

1345 A 5A 1-2
 Site Hole Core Section Top Depth

Expedition 323
 Bering Sea

Graphical Representation	Color	Lithology	Biurbation	Structures/Accessories	Major Lithology	Minor Lithology	Drilling Dist. Samples	Visual Core description
10		10Y 2.5/1 SILTY SAND						large "lenticular" forams scattered through 50cm ss - the two sections.
20								
30	0	10Y 4/1 D. RICH SILTY SAND						
40	83	10Y 2.5/1 SILTY SAND						
50								
60								
70	15 30	10Y 4/1 DUNN SILTY SAND						chondrites
80	42	10Y 2.5/1 SILTY SAND 42-43						pebble, 6mm subangular, block shaly contact organic shale?
90		10Y 3/1 DUNN SILTY SAND						5cm ss BOTTOM WITH SILTY CLAY
100	17							
110		10Y 2.5/1						
120								
130								
140								

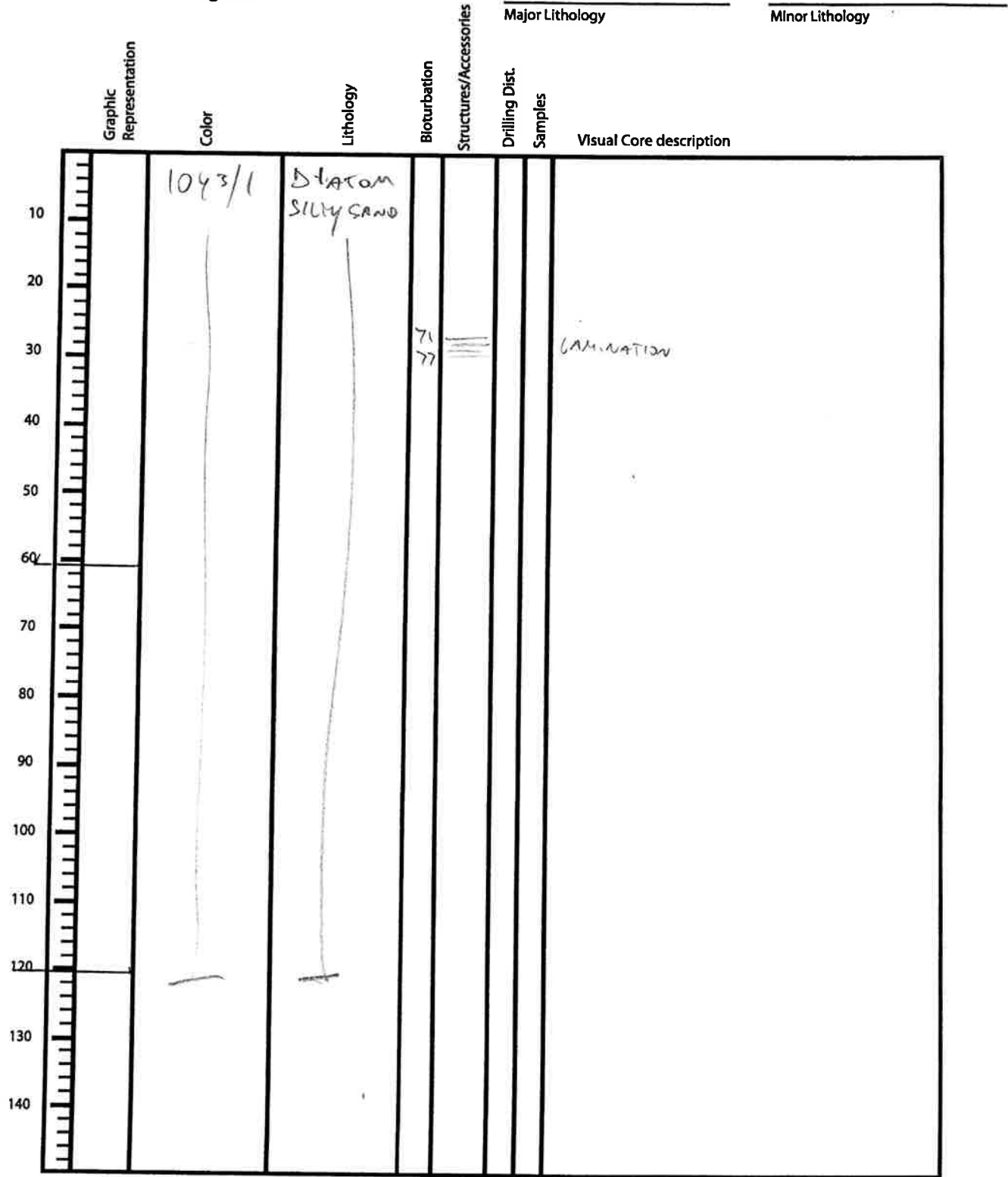
Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 54 3-4
Site Hole Core Section Top Depth

3

4



Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 54 5-6-7-CC
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
					Visual Core description	
5	10 Y 3/1	DIATOM SILTY SAND	8 12			LAMINATION
	10 Y 3/1		107 129			HOWSTONITE (LAMINATED) 177-150 -> MAN MADE
6	10 Y 3/1		22 49			
			130 149			
7			17 24			
CC						

Observer: _____ Date: _____

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
393	1345A	A	5	H	1A	40	

Sediment/Rock Name	Silty sand	Observer	Alison
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Percent Texture		
Sand	Silt	Clay
60	40	

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
34	Quartz 7
5	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
49	Rock fragments 10
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
10	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
Foraminifera	
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
2	Diatoms AS
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

✓ ✓ SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	5	H	9A	60	

Sediment/Rock Name	diatom-rich silty clay	Observer	Alcina
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Percent Texture		
Sand	Silt	Clay
10	40	50

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
15	Quartz 5
6	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
9	Rock fragments 3
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
30	Clay Minerals 10
	Chlorite
	Glaucanite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
6	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
6	Foraminifera 2
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
3	Radiolarians
	Spumellaria
	Nassellaria
21	Diatoms 7
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
21	Sponge spicules 1
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

UB45 Site A Hole 64 Core M Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Visual Core description				
10 20 30 40 50 60 70 80 90 100 110 120 130 140	sey 4/1	S2-SS-Liqut	S L I G H T	107 129 149 151 G 165-70 69 SM 107 Sand Mot 138-211 146-7-106	G: granule SM: sand motte 40-G				
						Pyrite Chem/Mot Biot = M P= pyrite specks 107-114 117-129			
							45 104 3/1 92 v. dark green gray		
								d-rich silty sand Sand coarse/med	
									2-4 P 70-71 75-76 Pco 141-16 Sand mot
sey 4/1									
	d-rich silty sand coarse/med								
		75 104 3/1 108							
			Sey 4/1						
				dark greenish gray					
					107-125 109-117 142				
Sand Mot. Sand layer diagonal, 5 cm									
	24-24.25 Sand layer 28 Sand Lay 32 Sand layer								
		1-25.1 Lay 5-13 Sand Mot 17-18							

Observer: B. B. Date: T-13

✓/SM

(C)

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1345	A	6	H	3	68cm	

Sediment/Rock Name	SANDY SILT	Observer	JULIA
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Percent Texture		
Sand	Silt	Clay
30	70	

Comments: MAJOR LITHOLOGY

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
18%	Quartz
36%	Feldspar
29%	8 K-feldspar (Orthoclase, Microcline...)
7%	2 Plagioclase
30%	10 Rock fragments
Accessory/trace minerals	
Micas	
Biotite	
Muscovite	
Clay Minerals	
Chlorite	
4%	1 Glauconite
Chert	
Zircon	
Ferromagnesium minerals	
Authigenic minerals	
Barite	
Phosphorite/Apatite	
Zeolite	
Opaque minerals	
4%	1 Pyrite
Magnetite	
Fe-oxide	
Carbonates	
Calcite	
Dolomite	
VOLCANICLASTIC GRAINS	
Crystal grain	
Vitric grain	
Lithic grain	

Percent	Component
BIOGENIC GRAINS	
Calcareous	
Foraminifera	
Planktonic foraminifera	
Benthic foraminifera	
Nannofossils	
Coccoliths	
Discoasters	
Pteropods	
Siliceous	
Radiolarians	
Spumellaria	
Nassellaria	
Diatoms	
4%	1 Centric
Pennate	
Chaetoceros Resting Spores	
Silicoflagellates	
Sponge spicules	
Dinoflagellates	
Others	
Pollen	
Organic debris	
Plant debris	
Ebridians	
Echinoderm	
Fish remains (teeth, bones, scales)	
Bryozoans	
Bivalves	
Others	

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	6	H	3A	70	

✓ ✓ SM

Sediment/Rock Name	diatom-bearing silty clay	Observer	Alvin
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Percent Texture		
Sand	Silt	Clay
5	45	50

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
17 7	Quartz 5
	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10	Rock fragments 3
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
34	Clay Minerals 10
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
10	Pyrite 3
	Magnetite
	Fe-oxide
Carbonates 2.5	
9	Calcite 2
	Dolomite 0.5
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
Foraminifera	
	Planktonic foraminifera
	Benthic foraminifera
Nannofossils	
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
<10	Diatoms 3
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
2	Sponge spicules 0.5
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	6	H	6A	50cm	

✓ ✓SM

Sediment/Rock Name	diatom-rich clayey silt	Observer	Akima
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sandy

Percent Texture		
Sand	Silt	Clay
30	35	35

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
20	Quartz 7
9	Feldspar 3
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
14	Rock fragments 5
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
29	Clay Minerals 10
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
11	Pyrite 34
	Magnetite
	Fe-oxide
Carbonates	
1	Calcite 0.5
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
14	Diatoms 5
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1375	A	b	H	6A	100cm	

✓
 ✓ SM

Sediment/Rock Name	Diatom-rich silty sand	Observer	Bah
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Percent Texture		
Sand	Silt	Clay
70	30	

Comments:

Secondary lithology

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
20	Quartz
10	Feldspar
	K-feldspar (Orthoclase, Microcline...)
5	Plagioclase
15	Rock fragments
Accessory/trace minerals	
5	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
15	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
5	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
10	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
10	Centric
5	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

1345 A 7 1-3
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Biorturbation	Structures/Accessories	Major Lithology	Minor Lithology	Drilling Dist. Samples	Visual Core description
10	10Y 3/1							10Y 3/1 VERY DARK GREENISH GRAY
20								
30								
40								
50								
60								
70	49 52 10Y 4/1	DISTON-BERLING SILTY CLAY						Authigenic zone diston-silty cl -70 cm, ss
80								
90								
100								
110								-70 cm ss
120								
130	109 10Y 4/1	DISTON-RICH SANDY SILTY CLAY						
140								

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 7 3-~~22~~6
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bloturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology	Visual Core description
	104 g/l	144-145 Diatom-rich clayey sandy silt 76 77						LARG FLAT P. BASALT, block, angular basalt? increasing sulfide streaks sulfide streaks on bedding parallel. ROUND LARGE P. BASALT, block BASALT?

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 7 7-CC
Site Hole Core Section Top Depth

Major Lithology _____
Minor Lithology _____

Graphic Representation	Color	Lithology	Bloturbation	Structures/Accessories	Drilling Dist. Samples	Visual Core description
	104 4/1	Diatom-rich clayey silt		44 85	↑ ↓	Several expansion cracks

7
8
70
50m

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

Observer: _____ Date: _____

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	7	H	3A	130	

✓ SM

Sediment/Rock Name	Authigenic-rich, diatom-rich silty clay	Observer	afkora
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Percent Texture		
Sand	Silt	Clay

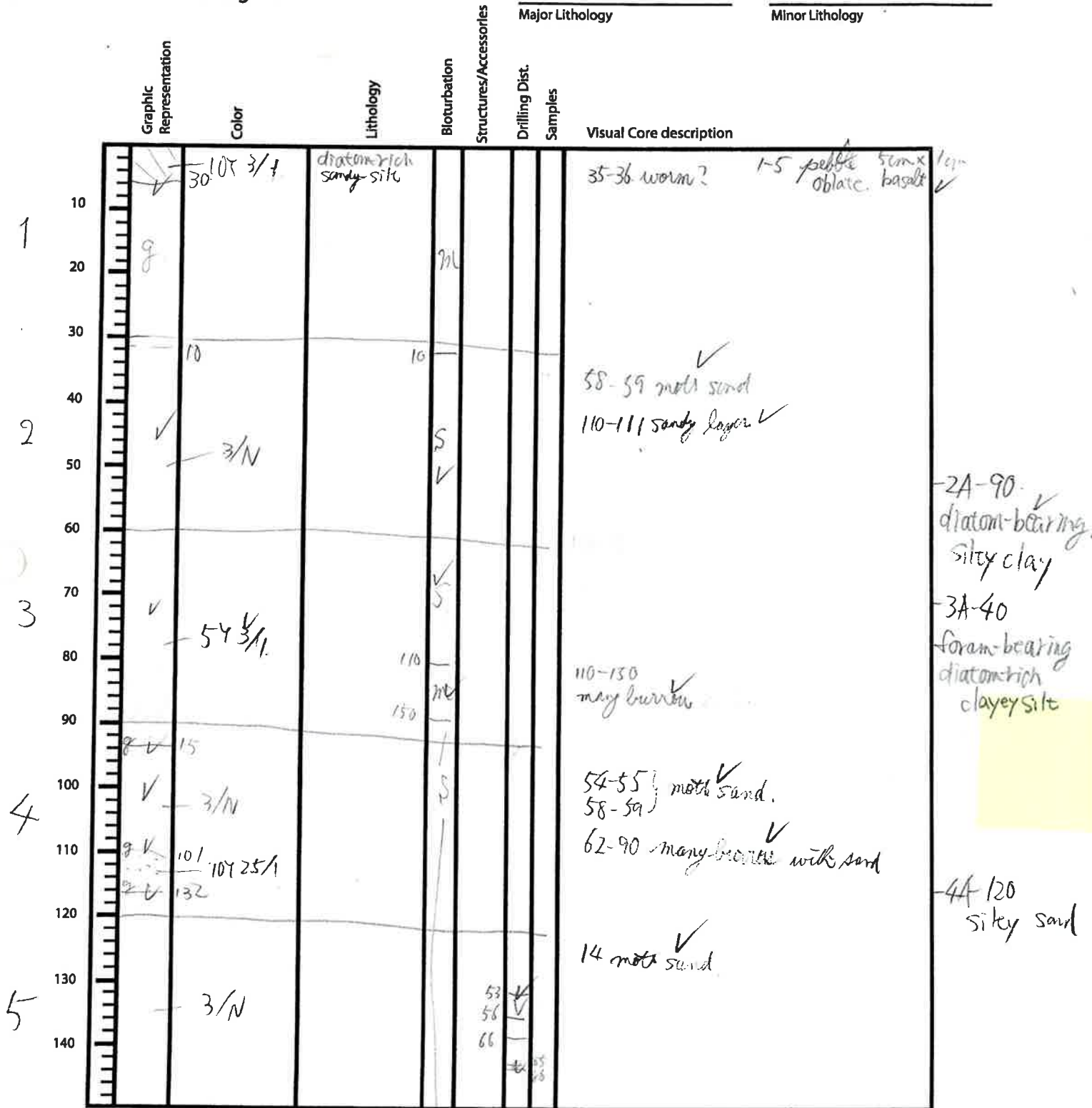
Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
12	Quartz 5
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
12	Clay Minerals 5
	Chlorite
	Glaucinite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
7	Pyrite 3
	Magnetite
	Fe-oxide
Carbonates	
58	Calcite 25 aragonite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
12	Diatoms 5
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

1345 Site A Hole 8 Core 15 Section Top Depth



2A-90 diatom-bearing silty clay
3A-40 foram-bearing diatom-rich clayey silt
4A 120 silty sand

Observer: _____ Date: _____

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

✓ ✓ SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	8	H1	2A	90	

Sediment/Rock Name	diatom-bearing silty clay	Observer	Abira
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Percent Texture		
Sand	Silt	Clay
10	35	55

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
18	Quartz 7
13	Feldspar 5
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
13	Rock fragments 5
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
39	Clay Minerals 15
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
8	Pyrite 3
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
8	Diatoms 3
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

✓✓SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	8	H1	3A	40	

Sediment/Rock Name	foram-bearing diatom-rich clayey silt	Observer	Alexia
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Percent Texture		
Sand	Silt	Clay
15	50	35

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
13	Quartz 5
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
13	Rock fragments 5
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
18	Clay Minerals 7
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
5	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
13	Calcite 5 (1 needle)
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
8	Foraminifera 3
	Planktonic foraminifera
	Benthic foraminifera
Nannofossils	
4	Coccoliths 1.5
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
26	Diatoms 10
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

✓ / SM

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	8	H	4A	120	

Sediment/Rock Name	Silty sand	Observer	Alvin
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Percent Texture		
Sand	Silt	Clay
60	35	5

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
40	Quartz
10	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
50	Rock fragments <i>rounded</i>
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

✓SM

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	8	H	7A	25	

Sediment/Rock Name	(Ammonitized) diatom clayey silt. authigenic carbonate rich	Observer	Akayip
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
5	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
7	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
3	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
60	Calcite <i>aragonite nodules</i>
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
20	Diatoms
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1345	A	9	4	3	60 cm	

✓ SM

Sediment/Rock Name	diatom-rich clayey silt	Observer	IWA
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Percent Texture		
Sand	Silt	Clay
20	50	30

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
16	Quartz 5
6	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
22	Rock fragments 7
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
22	Clay Minerals 7
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
6	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
3	Calcite 1
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
9	Vitric grain 3
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
16	Diatoms 5
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

✓ ✓ SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	9	H	7A	50	

Sediment/Rock Name: diatom-rich silty clay

Observer: Abira

Percent Texture		
Sand	Silt	Clay
5	30	45

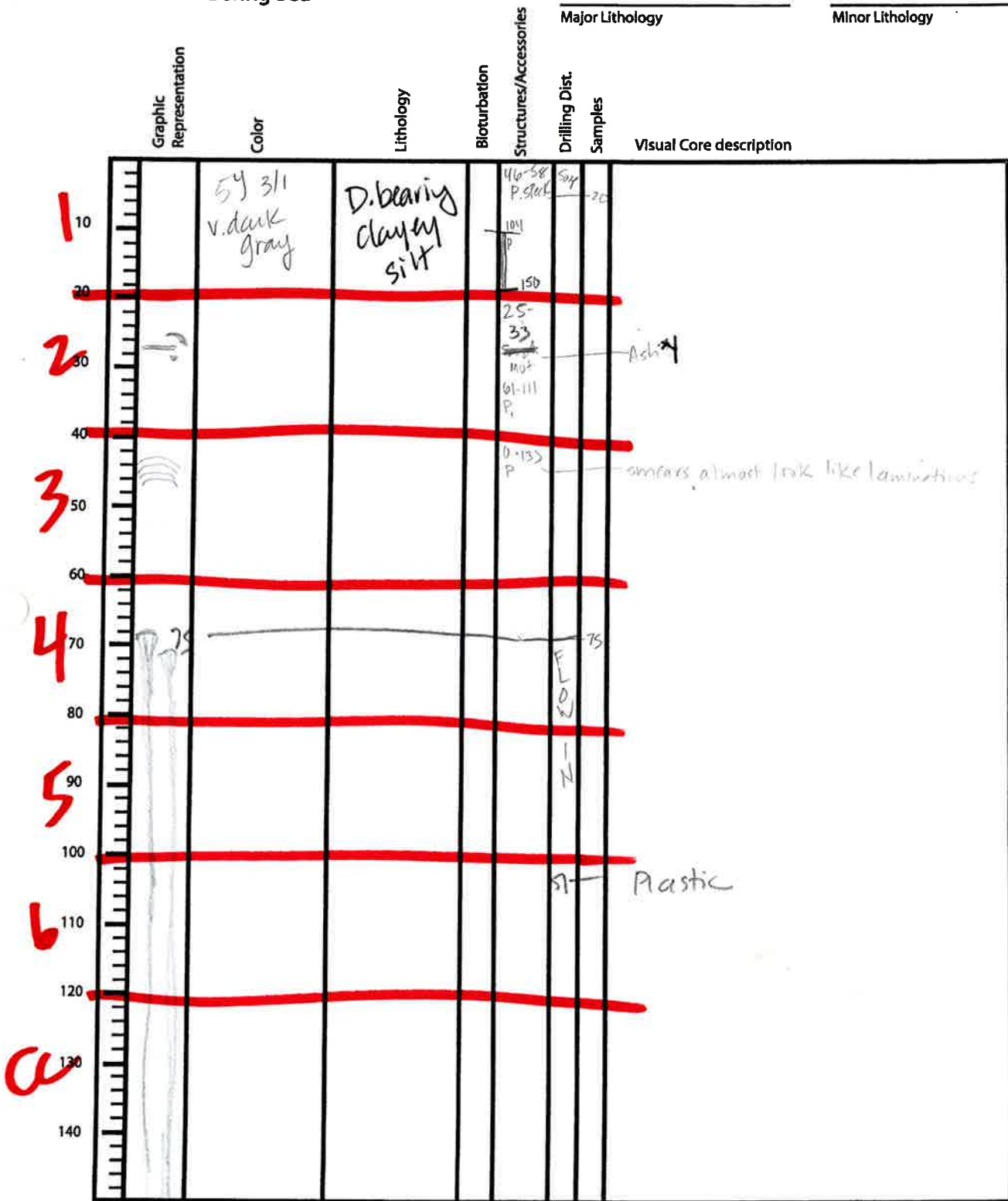
Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
11	Quartz 5
5	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
16	Rock fragments 7
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
34	Clay Minerals 15
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals 0.5
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
5	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
11	Calcite 5 (foram ?)
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
2	Foraminifera 1
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
12	Diatoms 5
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

J.1314 Site A Hole 10A Core All Section _____ Top Depth



Observer: _____ Date: _____

✓ ✓ SM

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	10	H1A		60	

Sediment/Rock Name	diatom-bearing clayey silt	Observer	Alina
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Percent Texture		
Sand	Silt	Clay
15	50	35

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
16	Quartz 5
10	Feldspar 3
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10	Rock fragments 3
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
33	Clay Minerals 10
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals 0.5
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
7	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
3	Calcite 1
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
7	Vitric grain 2
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
3	Foraminifera 1
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
10	Diatoms 3
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345 A	10	H	2A	33		

✓ ✓ SM

Sediment/Rock Name: fine ash

Observer: Alvin

Percent Texture		
Sand	Silt	Clay
	>10	

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
5	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
3	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
80	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

138 A 11
Site Hole Core Section Top Depth

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Samples	Visual Core description	
								Major Lithology	Minor Lithology
1-10	✓ 87						27 31	Extruded on rig floor	48-49 Sandstone
10-20	✓ 83-92 ✓ 104						90	37. muscovite	authigenic carbonate bearing discontinuity
20-30								83-92 mott authigenic carbonate	24-87 site
30-40								61 granul muscovite ✓ granul	authigenic carbonate-rich diatom silty sand
40-50								80 granul ✓ muscovite ✓	
50-60									
60-70								170-93 speck pyrite	5A-
70-80								111-147	
80-90									6A-70 cm site
90-100								29	
100-110								27-31 PAL	
110-120								104 3/1	
120-130								104 4/1	
130-140								3/N	

Observer: _____ Date: _____

✓SM

IODP Expedition 323
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	01344	A	11	H	1A	530m	

Sediment/Rock Name	Authigenic carbonate- & diatom-bearing silt	Observer	BETH
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Percent Texture		
Sand	Silt	Clay
	100	

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
30	Quartz
20	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
5	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
5	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
15	Fe-oxide Hexagonal
	Carbonates
5	Calcite v. small < 3 microns
5	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
10	Centric
	Pennate
	Chaetoceros Resting Spores
5	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1345	A	11	A	2A	87cm	

VSM

Sediment/Rock Name	Authigenic carbonate-rich diatom silty sand	Observer	BETH
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Percent Texture		
Sand	Silt	Clay

Comments:

Accessory - Authigenic carbonates

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
10	Quartz
5	Feldspar
	K-feldspar (Orthoclase, Microcline...)
5	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
2	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
5	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
40	Calcite
10	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
3	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
15	Centric
5	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

V/S m

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U345	A	11	H	6A	70cm	

Sediment/Rock Name	Silt
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Observer	Beth
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Percent Texture		
Sand	Silt	Clay
15	80	5

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
40	Quartz
15	Feldspar
	K-feldspar (Orthoclase, Microcline...)
10	Plagioclase
10	Rock fragments
Accessory/trace minerals	
2	Micas
	Biotite
3	Muscovite
5	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
3	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
7	Fe-oxide
Carbonates	
	Calcite
2	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
3	Diatoms
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

323 U1345A-12H-1 to 3
Site Hole Core Section Top Depth

Diatom bearing clay silt
Major Lithology Minor Lithology

lams: 60% main lith
20% diatom ooze
20% diatom clay

Graphic Representation	Color	Lithology	Biurbation	Structures/Accessories	Drilling Dist.	Samples	Visual Core description
	10Y 3/1 v. dark greenish grey		S	M	SSS		Mott = mm-scale black mottles M = <mm-scale blue mottles
					pieces		
					42		
					20		
					40		
			S	M			
					gas		
					125		
					125		
			S	M			
					130		
	23 ✓ lam 47 ✓		X	X			
					70		
			S	M			
					123		
	123 ✓ lam 145 ✓						
				sandy layer			
			S		146		
					147		
					150		

Observer: MSC

Date: 24 Aug 09

Expedition 323
Bering Sea

323 U1345A-12H-6-CC
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
10 lam ✓	10Y 3/1		X				
20 ---	31		S	m ✓			m = <mm scale ble mottles
30			S	79 ✓	S 845 exp		
40				X sp sp ag			
50				109 ✓ sandy patch			
60							
70							
80						149	
90					S 945 exp		
100			S	m ✓			subrounded white clast ✓ (not dolomite) 2cm
110				67 ✓ clast			
120				sandy			
130				m ✓		93	
140	30 PAL			SSS pieces ✓			
						37	

Observer: MSC

Date: 24 Aug 09

(6)

(7)

CC

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

✓ SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	3125	A	12 H	SA	3A	35	

Sediment/Rock Name	Diatom clay	Observer	H. W. A
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Percent Texture		
Sand	Silt	Clay
5	10	85

Comments: Light Green (Lamination)

Percent	Component
SILICICLASTIC GRAINS/MINERAL 48	
Framework minerals	
3	Quartz /
3	Feldspar /
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
30	Clay Minerals 3
	Chlorite
	Glauconite
	Chert
	Zircon
3	Ferromagnesium minerals /
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
5	Pyrite /
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS 56	
Calcareous	
	Foraminifera
6	/ Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
50	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

U/SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	134T	A	12		3	38	

Sediment/Rock Name: Diatom Ooze (white)

Observer: Hiro

Percent Texture		
Sand	Silt	Clay

Comments: Black (or Dark Green) Lamination

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
	Quartz 20
	Feldspar 10
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite 10
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
70	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

L/VSM

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	124		3A	84	

Sediment/Rock Name	Diatom bearing clayey silt	Observer	Hin
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Percent Texture		
Sand	Silt	Clay
10	50	40

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL 93	
Framework minerals	
55	Quartz 30
9	Feldspar 5
6	K-feldspar (Orthoclase, Microcline...)
63	Plagioclase
4	Rock fragments 2
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
18	Clay Minerals 3 10
	Chlorite
	Glauconite
	Chert
	Zircon
4	Ferromagnesium minerals 2
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
3	Vitric grain 1
	Lithic grain

Percent	Component
BIOGENIC GRAINS 7	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
5	2 Diatoms 2.5
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
2	/ Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	12H		3	87	

Sediment/Rock Name	Diatom ooze	Observer	Hiro
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Percent Texture		
Sand	Silt	Clay

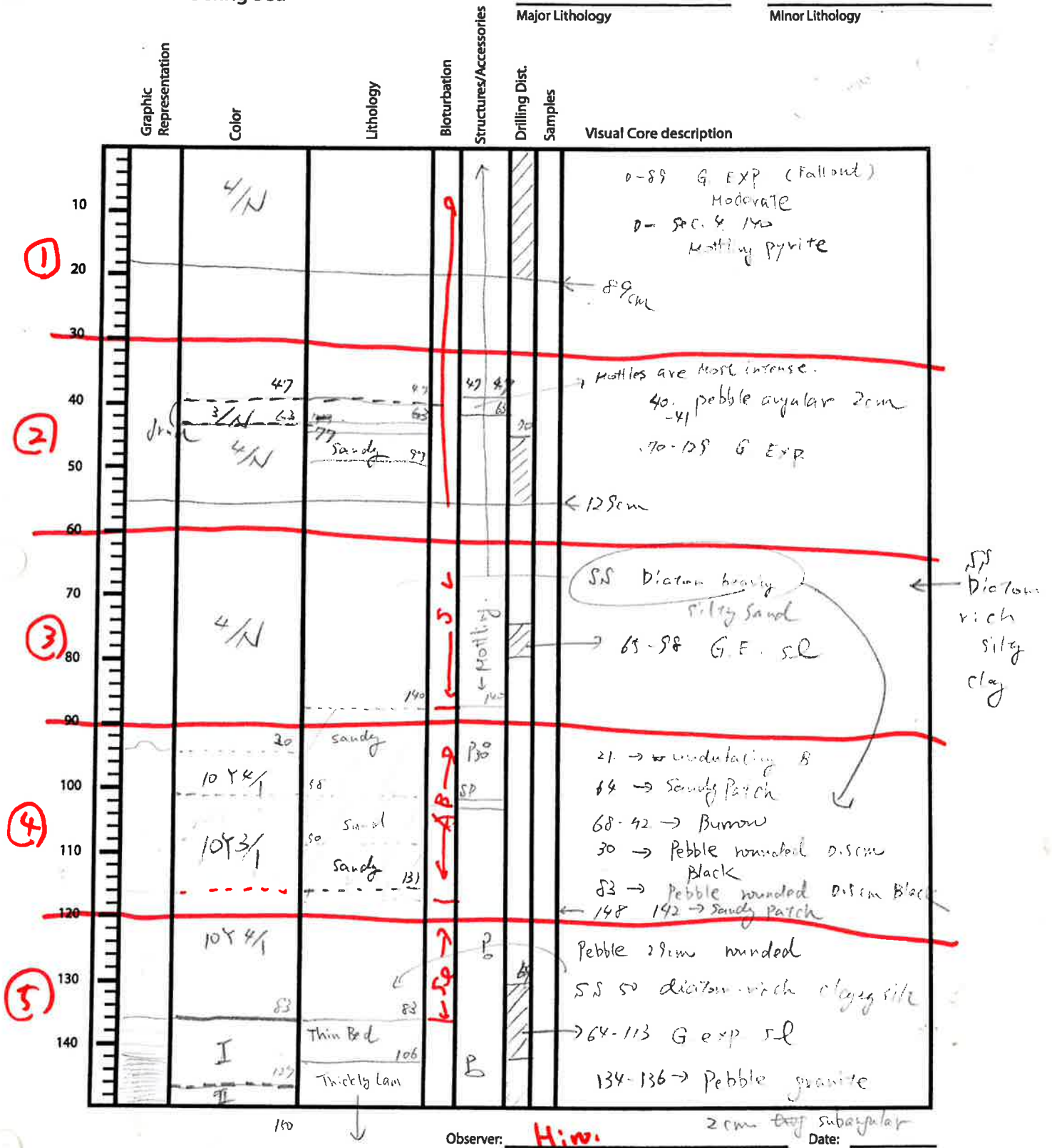
Comments: White lamina

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
<1	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
5	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
<1	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
80	Centric
15	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

1345 Site A 1314 Core 1-5 Section Top Depth



Observer: H.W. Date: _____

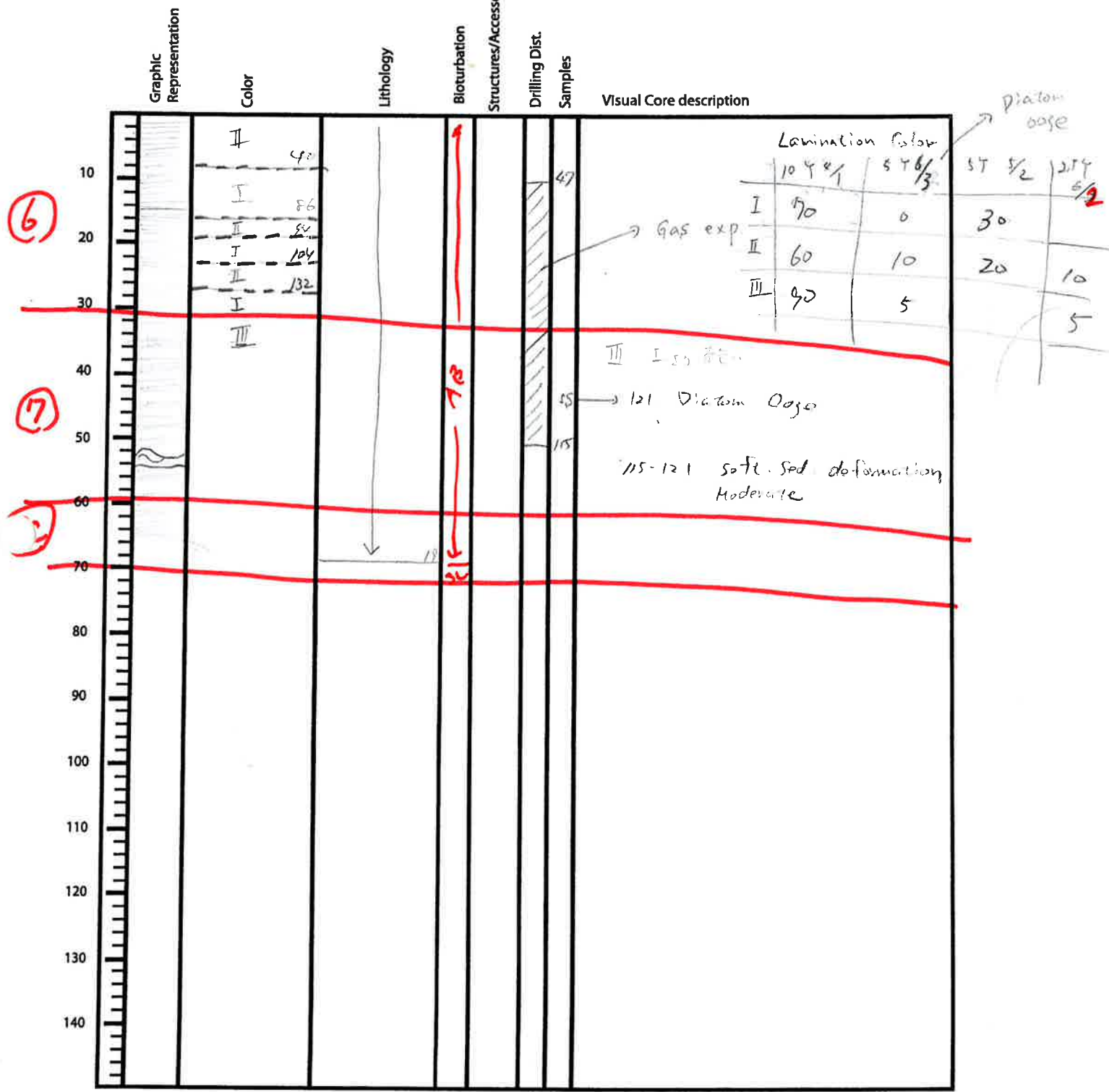
I: Lam. Normal
II: Lam. Light

2cm tray subangular

Expedition 323
Bering Sea

1345 Site A Hole 13H Core 6-CC Section Top Depth

Major Lithology Minor Lithology



Observer: _____ Date: _____

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

✓ VSM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	13	H	3	60	

Sediment/Rock Name: *Diatom-rich silty clay*

Observer: *Kelsie*

Percent Texture		
Sand	Silt	Clay

Comments:

Main lithology

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
10	Quartz
5	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5	Rock fragments
Accessory/trace minerals	
2	Micas
	Biotite
	Muscovite
50	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
2	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
5	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
20	Diatoms
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

V VSM

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	B	H	4	74	

Sediment/Rock Name	Diatom-bearing silty sand	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay
50	45	5

Comments: Sandy lithology

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
30	Quartz
15	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
30	Rock fragments
	Accessory/trace minerals
3	Micas
	Biotite
	Muscovite
5	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
2	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
5	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
10	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

✓✓ SM

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	13	H	5	50	

Sediment/Rock Name	Diatom-rich clayey silt	Observer	Kelsic
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Percent Texture		
Sand	Silt	Clay

Comments: Main lithology

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
15	Quartz
10	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
15	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
20	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
2	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
5	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
2	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
30	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

6/15m

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	13	H	7	121	

Sediment/Rock Name	Diatom ooze	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay

Comments: Light green lamina

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
2	Quartz
1	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
2	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
1	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
95	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

1345 A 14 H 1+2
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Samples	Major Lithology	Minor Lithology
							Visual Core description	
1	10Y 3/1	I			GE			
			S		SSS			
0	"	I						
							46	
20	"	authigenic carbon		◇	S			
							24	Sandy patch
40	"	II		SS	○			
							51	"
60	"	II						
							63	
80	10Y 4/1	II						
							76	some colour as I
100	"	II						
							80	but has more sandy/silty look
120	"	II						
							125	
140	"	II						

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 Site A Hole 144 Core 3+4 Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology					
						Visual Core description						
3	1073/1	I Diatom-rich clayey silt		G	x	55						
						22	Shell frag.					
						28-31	Sandy patch					
						50-53	"					
						66-68	"					
						93	"					
						119	"					
						10	80		G	2	Shell frag	
						4	50	100		G	63-65	Sandy patch
						70	110			V	76	
90	120				108							
110	130				124	Shell frag.						
130	140			G								
150												

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 Site A Hole 141 Core 5+6 Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
		I	S		S		
	10Y 3/1	Sandy	S		S		
		II					
	"	Diatom-rich clayey silt		G	x		
	"	I		G			
	10Y 3/1	Diatom-bearing sandy silt	SS		S		
		II					
		I					
			SS		SS		
					GE		
		I					

5

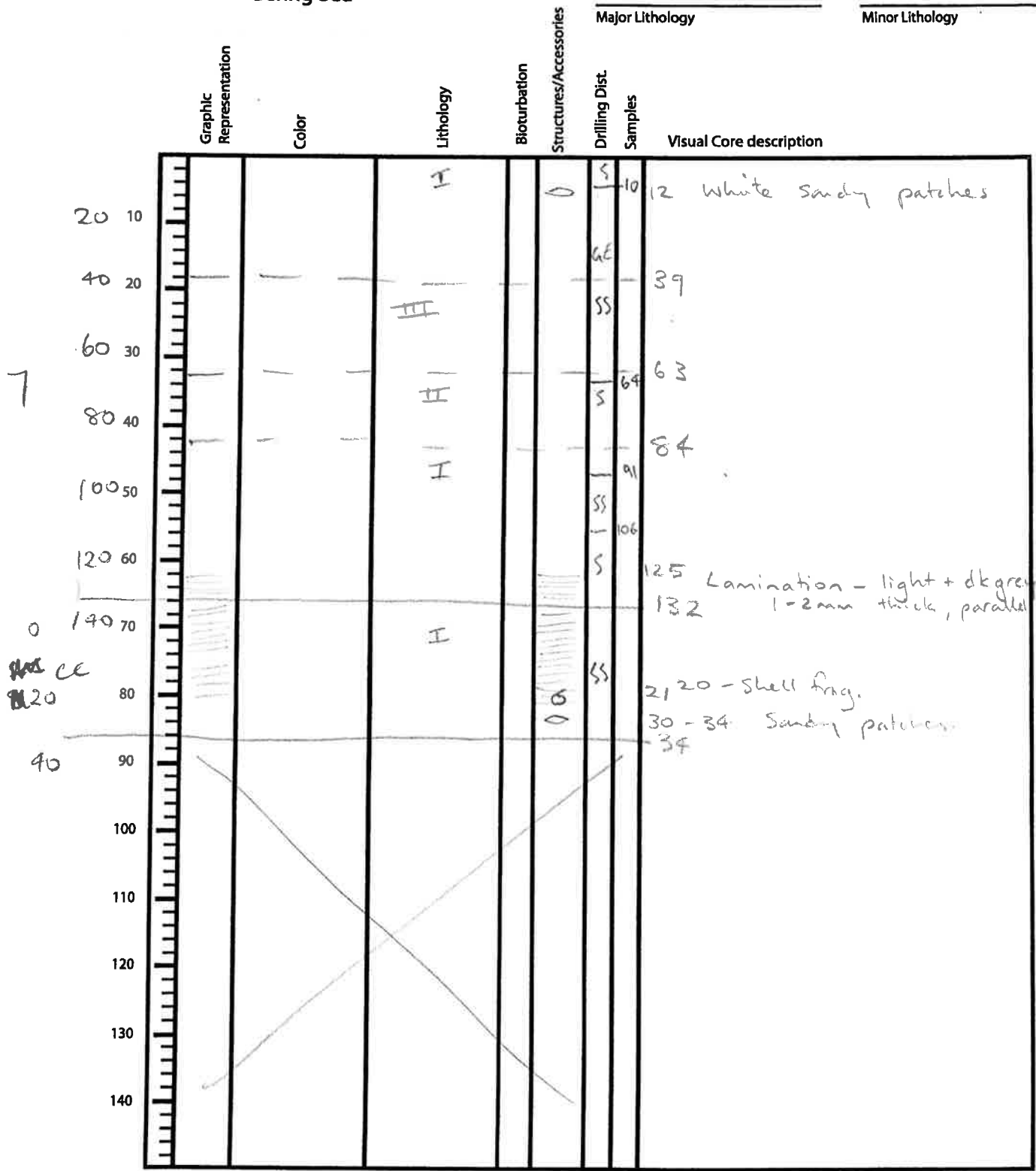
6

13
53
70 mod GE
73
113 shell fragment.
106-109 mod GE
137
144
3
88
92-150
137

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 Site A Hole 14H Core 7^{cc} Section ~~7^{cc}~~ Top Depth



Observer: _____ Date: _____

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

✓ VSM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	14	H	3	20	20

Sediment/Rock Name	Diatom-rich clayey silt	Observer	
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Percent Texture		
Sand	Silt	Clay
—	70	30

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
60	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
10	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
5	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
15	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	14	H	5	97	97

✓ ✓ SM

Sediment/Rock Name	Diatom-rich clayey silt	Observer	
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Percent Texture		
Sand	Silt	Clay
—	60	40

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
50	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
15	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
5	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
30	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

✓ VSM

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	14	H	6	86	86

Sediment/Rock Name	Diatom-beamy sandy silt	Observer	
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Percent Texture		
Sand	Silt	Clay
40	50	10

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
55	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
20	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
15	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
10	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Expedition 323
Bering Sea

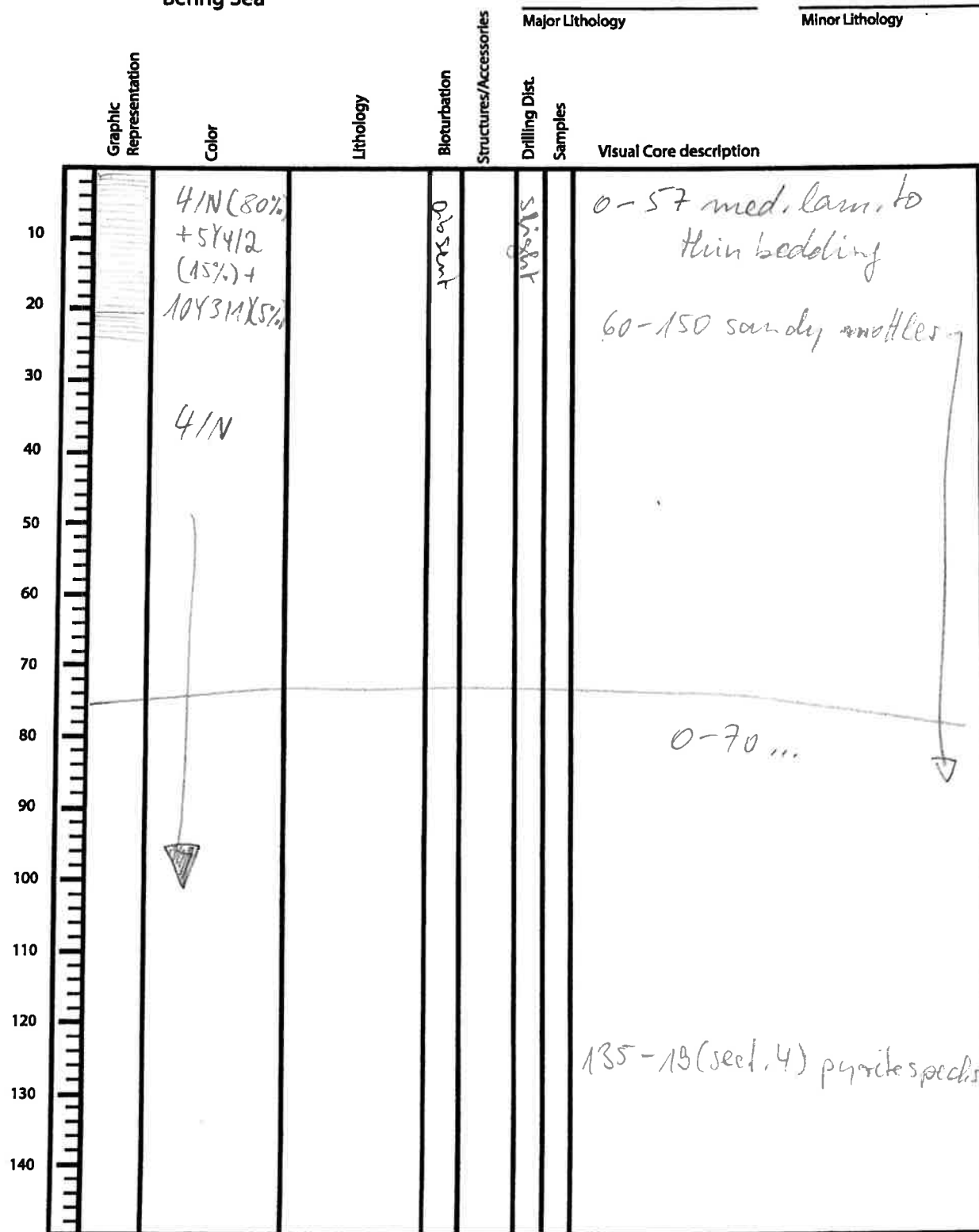
1345 A 15H 1+2
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	SGY411 ↓				36		
		10 16	slight		slight		3-10 wavy lam., med. 10-16 parallel lam., med. 21-28 tilted interval (drilling dist.) 22-26 wavy lam., med. 32 pebble, subrounded 62-64 pebble, black, disintegrated 29-130 sandy nodules 130 120 shell

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 15H 3+4
Site Hole Core Section Top Depth



Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 Site A Hole 15H Core 5+6 Section _____ Top Depth

Graphic Representation	Color	Lithology	Bloturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
					Visual Core description	
	4/N		slight	slight		
	↓ 4/N (80%) + 5Y4/1 (20%)		absent			58-70 wavy lam. to undulated thin bedding 70-135 med. to thick lam.
	4/N					

Observer: _____ Date: _____

Expedition 323
Bering Sea

1345 A 15H 7+8+cc
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	<p>41N</p> <p>41N+ SK411</p> <p>41N</p>		<p>3L 105:1 50:1</p>				<p>16-22 medium to thick lam.</p> <p>58 shell</p> <p>30 - sandy nodules</p> <p>5-11 light patch, partly indurated, dolomite nodule</p> <p>55</p> <p>22</p>

Observer: _____ Date: _____

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	15H		2A	14	18

SM

Sediment/Rock Name: *Diatom silty clay*

Observer: *H. ins*

Percent Texture		
Sand	Silt	Clay
10	20	70 70

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL 59	
Framework minerals	
10	Quartz 2
5	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
4	Biotite
	Muscovite
26	Clay Minerals 5
	Chlorite
	Glauconite
	Chert
	Zircon
3	Ferromagnesium minerals 0.5
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
15	Pyrite 3
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS 41%	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
41	Diatoms 8
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	139T	A	15H		2A	80	

5M

Sediment/Rock Name	Diatom-bearing clayey silt	Observer	Hiro
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Percent Texture		
Sand	Silt	Clay
10	60	30

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL 94	
Framework minerals	
47	Quartz 7
7	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
7	Biotite 1
	Muscovite
20	Clay Minerals 3
	Chlorite
	Glauconite
	Chert
	Zircon
13	Ferromagnesium minerals 2
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS 6	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
76	Diatoms 1
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	134T	A	15H		3A	33	

SM

Sediment/Rock Name	Diatom-rich clayey silt	Observer	Hino A
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Percent Texture		
Sand	Silt	Clay
10	50	40

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL 86	
Framework minerals	
39	Quartz 15
5	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
13	Clay Minerals 5
	Chlorite
	Glauconite
	Chert
	Zircon
16	Ferromagnesium minerals 5
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
16	Pyrite 6
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS 14	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
11	4 Centric
3	1 Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	15H		3A	36.5	

V L SM

Sediment/Rock Name	Diatom-rich & silt	Observer	Aino
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Percent Texture		
Sand	Silt	Clay
2/0	80	10

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL 78	
	Framework minerals
54	Quartz 22
14	Feldspar 5
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
5	Ferromagnesium minerals ≠ 2
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
5	Pyrite 2
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS 22	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
19	Diatoms 3
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
3	Sponge spicules 1
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	154		4A	120	

06 SM

Sediment/Rock Name	Diatom bearing sandy silt	Observer	Hiro
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Percent Texture		
Sand	Silt	Clay
30	50	20

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
82	Quartz 30
5	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
3	Ferromagnesium minerals /
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
3	Pyrite /
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain /
	Lithic grain

Percent	Component
BIOGENIC GRAINS 6	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
5 /	Diatoms
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
1 0.5	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	15H		6	99	

v SM

Sediment/Rock Name	Diatom rich clay	Observer	Hins
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Percent Texture		
Sand	Silt	Clay
5	15	80

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL 66	
	Framework minerals
9	Quartz 5
2	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
53	Clay Minerals 30
	Chlorite
	Glauconite
	Chert
	Zircon
2	Ferromagnesium minerals 1
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS 3734	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
553420	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	15H		7A	19	

SM

Sediment/Rock Name	Diatom ooze	Observer	
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
10	Quartz
1	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
10	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
1	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
3	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
75	Diatoms
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	15H		CC	9	9

SM

Sediment/Rock Name	Authigenic Carb rich clay	Observer	Hiro A
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
8	Quartz
1	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
1	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
90	Calcite Auth Carb
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
< 1	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

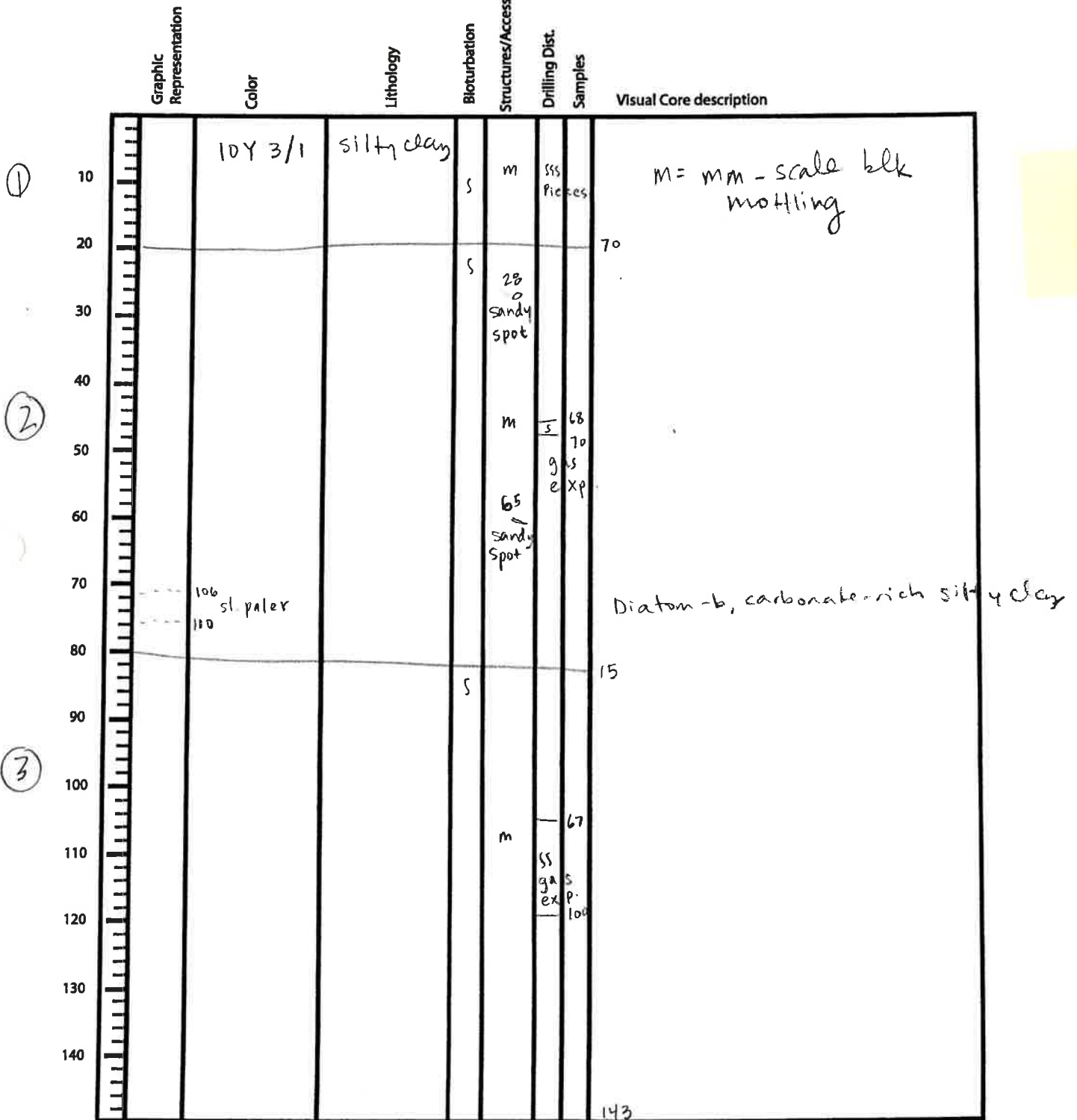
Expedition 323
Bering Sea

323 U1345A-16H-1 to 3
Site Hole Core Section Top Depth

Silty clay

Major Lithology

Minor Lithology



Observer: _____ Date: _____

323-U1345A-16H-4 and 5
 Site Hole Core Section Top Depth

Expedition 323
 Bering Sea

Silty Clay
 Major Lithology
 Minor Lithology
lam = diatom-rich clay

Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Visual Core description
	10Y 3/1		m		
	55		S	47	
	lam		SS	S	
(4)	94		X	SS 72 75	light lamina: diatom-rich clay
				S gas exp.	
				94	
			S	133	
	10Y 3/1		S	144	
			m		
				76	
				S	
				80	
				gas exp.	
				SSS	
				115	
				139	
	140			148	

(4)

(5)

Observer: _____ Date: _____

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	16	H	2	110	

Sediment/Rock Name	Diatoms to carbonate-rich silty clay	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay

Comments:

Main lith.

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
10	Quartz
5	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10	Rock fragments
	Accessory/trace minerals
1	Micas
	Biotite
	Muscovite
40	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
3	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
20	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
2	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
<10	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	16	H	4	70	

SM

Sediment/Rock Name	Diatom-rich clay
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Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay

Comments: Light-colored lamination.

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
2	Quartz
3	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
60	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
2	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
1	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
30	Diatoms
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	✓ Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1345	A	16	H	8	37	

SM

Sediment/Rock Name	Diatom-bearing silt	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay
10		

Comments: Main lithology

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
30	Quartz
20	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
30	Rock fragments
	Accessory/trace minerals
2	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
~	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
2	Calcite
	Dolomite
VOLCANICLASTIC GRAINS	
	Crystal grain
10	Vitric grain
	Lithic grain

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
5	Diatoms
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
1	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others