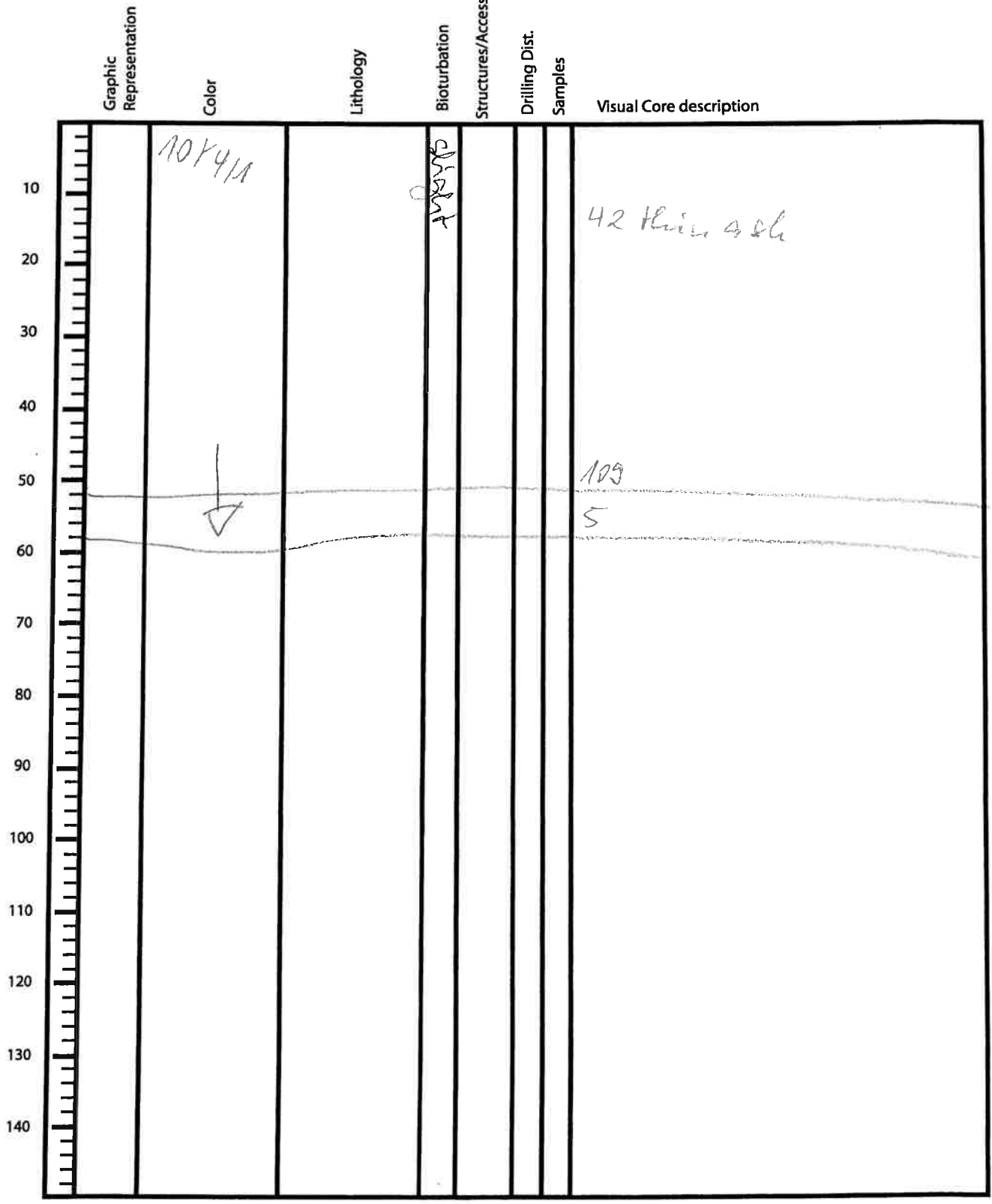




1343 C 1H 5+CC  
Site Hole Core Section Top Depth

Expedition 323  
Bering Sea

Major Lithology \_\_\_\_\_  
Minor Lithology \_\_\_\_\_



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

SM

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1343	C	1A		2A	45	45

Sediment/Rock Name	Diatom-rich clayey silt	Observer	
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Percent Texture		
Sand	Silt	Clay
10	60	30
3	20	10

Comments: Silici. > Biogenic  
 Green Major Lith → 65%

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
Calcareous	
Foraminifera	
6	Planktonic foraminifera 2
3	Benthic foraminifera 1
Nannofossils	
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
Radiolarians	
	Spumellaria
	Nassellaria
30	Diatoms 7-15 25%
	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

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	B	1H		2	112.8	

SM

Sediment/Rock Name	Foram. - bearing Diatom ooze	Observer	
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Percent Texture		
Sand	Silt	Clay

Comments: Brown & within lamination

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 42</b>	
	Framework minerals
21	Quartz 3
	Feldspar
	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
21	Pyrite 3
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 58</b>	
	Calcareous
8	Foraminifera 1
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
50	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

X

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	1		2	115.5	

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

Comments: Green within Lamination

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 10</b>	
	Framework minerals
4	Quartz 0.5
7	Feldspar 0.5
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
2	Ferromagnesium minerals 0.25
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 80</b>	
	Calcareous
8	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
820	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
	1343	BC	1		5	20 38	20 38

Sediment/Rock Name	Diatom - rich clayey silt	Observer	Alvo
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Percent Texture		
Sand	Silt	Clay
± 5	60	35

Comments: Gray

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b> 77 59	
Framework minerals	
45 49	Quartz 5
	Feldspar 7
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
Micas	
5	Biotite 0.5
	Muscovite
19 20	Clay Minerals 2
	Chlorite
	Glauconite
	Chert
	Zircon
5	Ferromagnesium minerals 0.5
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> 19 21	
Calcareous	
Foraminifera	
Planktonic foraminifera	
Benthic foraminifera	
Nannofossils	
Coccoliths	
Discoasters	
Pteropods	
Siliceous	
Radiolarians	
Spumellaria	
Nassellaria	
21 78	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	

1343 C 2H 1+2  
Site Hole Core Section Top Depth

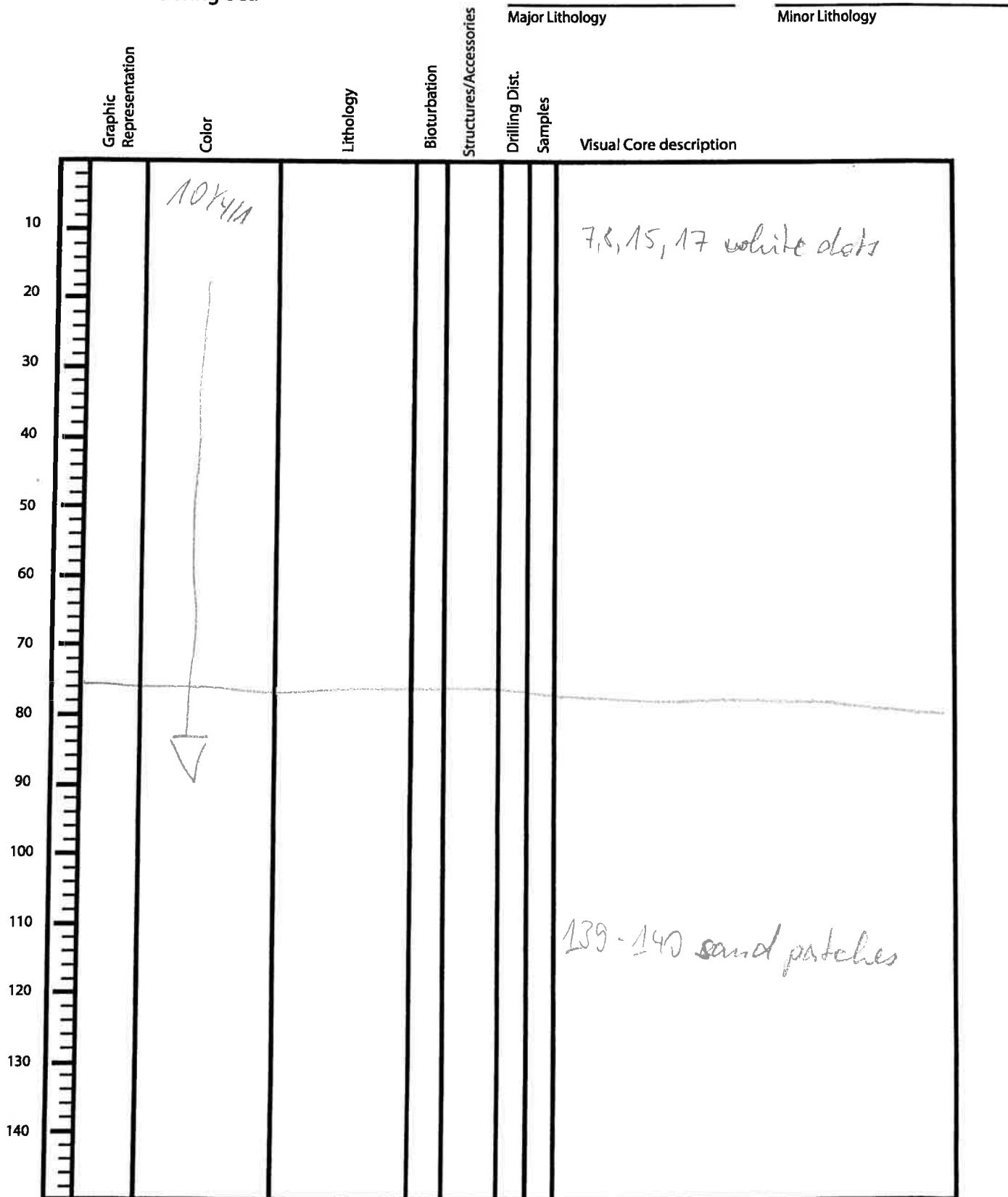
Expedition 323  
Bering Sea

	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
10		5GY4/1						
20								
30								
40	○							mottled 0-83
50								
60								
70								
80		▽						69-70 blueish burrow
90								
100								
110								
120								
130								
140								86-124 pyrite mottles

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C 2H 3+4  
Site Hole Core Section Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_



1343 C 2H 5+6  
Site Hole Core Section Top Depth

Expedition 323  
Bering Sea

	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
10		10Y4/1A						
20							28 shell frags.	
30							40-60	
40		4/1N						
50								
60								
70								
80								
90								
100								
110								
120							10A	
130								
140								

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 Site    C Hole    2H Core    7+cc Section    Top Depth

Major Lithology

Minor Lithology

Graphic Representation

Color

Lithology

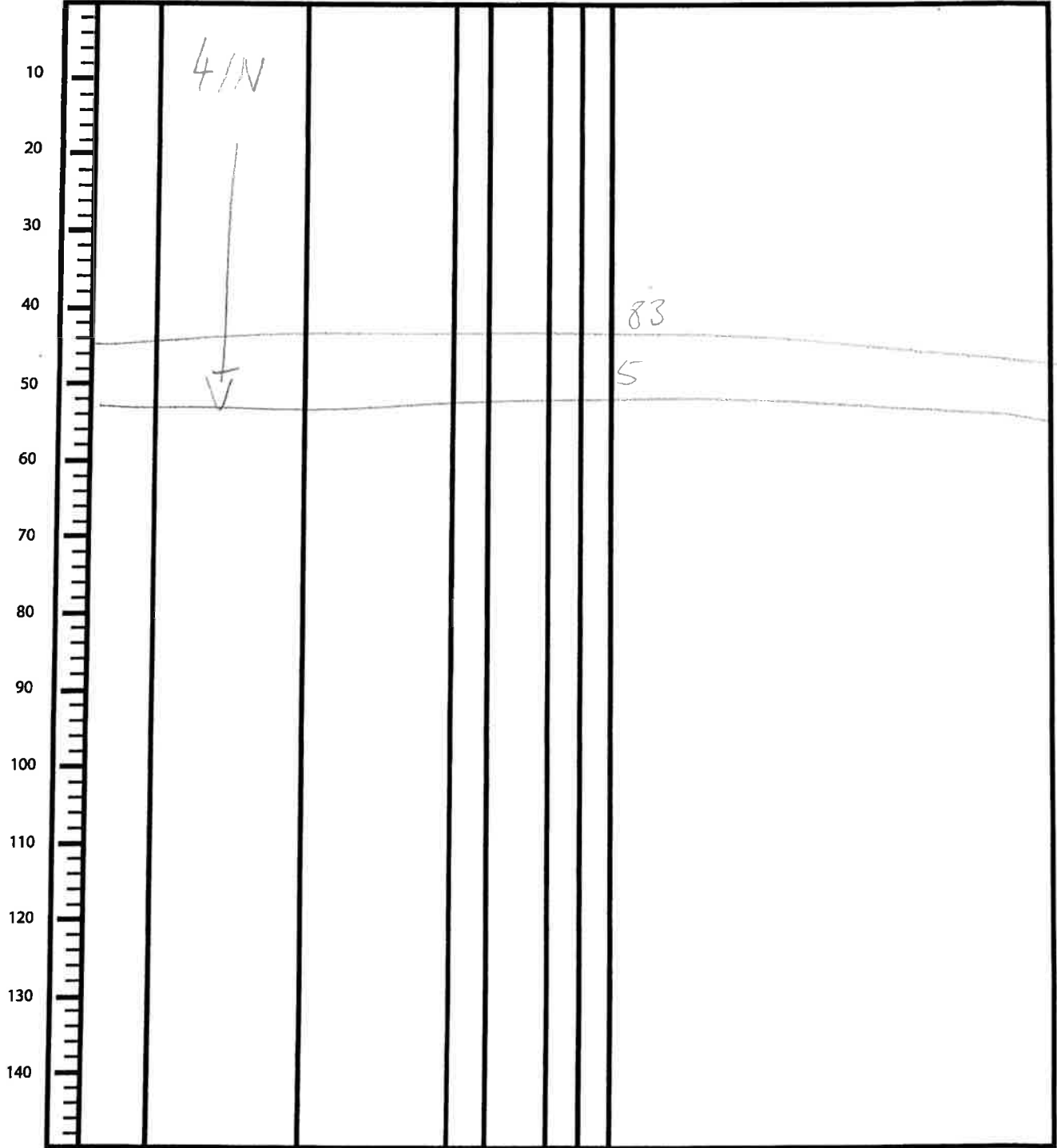
Bioturbation

Structures/Accessories

Drilling Dist.

Samples

Visual Core description



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	24		2A	48	48

SM

Sediment/Rock Name	Diatom-rich silty sand	Observer	Hiro. A
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Percent Texture		
Sand	Silt	Clay
30	60	10

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b> 85	
Framework minerals	
80 80	Quartz 15
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
5 5	Rock fragments 15
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
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> 15	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
30 15	5 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

SM

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	B-1323	C	2H		2A	80	80

Sediment/Rock Name	diatom-rich clayey silt (Pyrite)	Observer	Hiro A
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Percent Texture		
Sand	Silt	Clay
5 <sup>10</sup>	50	40

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 85%</b>	
Framework minerals	
33%	Quartz 7
2%	Feldspar 0.5
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
2%	Ferromagnesium minerals 0.5
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
48%	Pyrite 10
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 15%</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
15% <del>15%</del>	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

1348 C 3H 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	
	5G441A				25 66 107 114		
			Shoof				punctures at 26-30, 35-36 41-47, 64-67
	10441A						blueish mottles Her.
	5G441A						80-90 grad.

Observer: \_\_\_\_\_ Date: \_\_\_\_\_



Expedition 323  
Bering Sea

1343 Site    C Hole    3H Core    5+6 Section    \_\_\_\_\_ Top Depth

	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
10		10Y4/1						
20								
30				slight				
40								70-90 grad.
50		5G4/1						
60								
70								
80								
90		▽						
100								
110								
120								
130								
140								

Observer: \_\_\_\_\_ Date: \_\_\_\_\_





SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	B43	C	3H		4A	40	40

Sediment/Rock Name	Diatom rich foram bearing Sandy silt	Observer	Hiro A
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Percent Texture		
Sand	Silt	Clay
30	60	10

Comments: Main. Sec. 4  
6212 74

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b> 86.76	
Framework minerals	
30	Quartz 5
9	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
9	Rock fragments 1
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
8.99	Clay Minerals 1.5
	Chlorite
	Glauconite
	Chert
	Zircon
8.76	Ferromagnesium minerals 1
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
12	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> 24	
Calcareous	
Foraminifera	
6	Planktonic foraminifera
	Benthic foraminifera
Nannofossils	
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
6	Radiolarians 0.5
18	Spumellaria
	Nassellaria
12.6	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

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	3H		6	0	0

Sediment/Rock Name	Diatom-rich <del>Sandy silt</del>	Observer	H. n. A
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Sandy silt

Percent Texture		
Sand	Silt	Clay
25	70	5

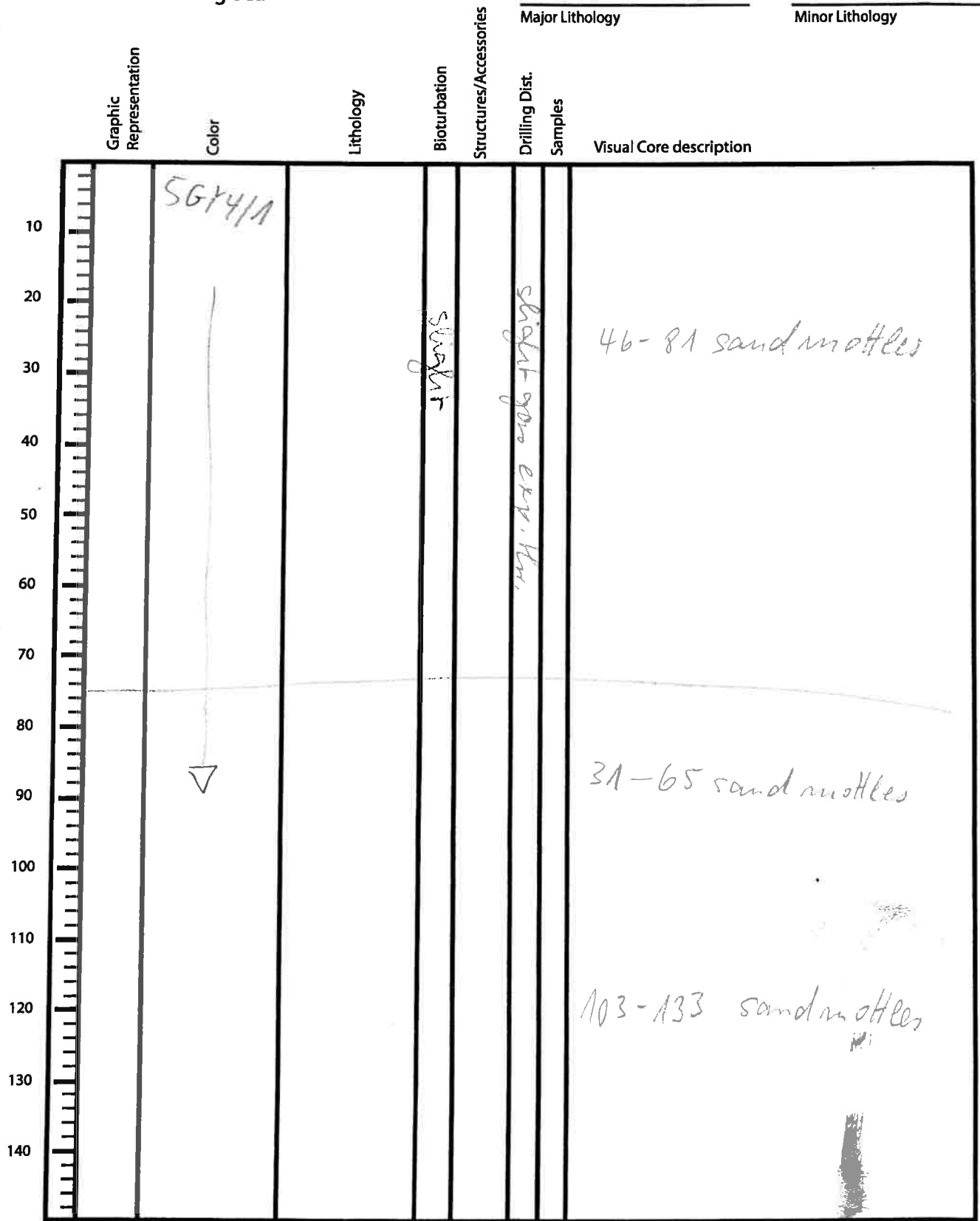
Comments: Mainly th. Sec. 3 1-3

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b> 88 86	
Framework minerals	
57	Quartz 13~12
5	Feldspar 1
6	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
6	Micas
5	Biotite 1
	Muscovite
9	Clay Minerals 2
	Chlorite
	Glaucanite
	Chert
8	Zircon
5	Ferromagnesium minerals 1
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
5	Pyrite 1
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> 14	
Calcareous	
Foraminifera	
Planktonic foraminifera	
Benthic foraminifera	
Nannofossils	
Coccoliths	
Discoasters	
Pteropods	
Siliceous	
Radiolarians	
Spumellaria	
Nassellaria	
14	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

1343 C    4H    1+2  
 Site    Hole    Core    Section    Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C 4H 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	
	SGY 411							
			slight			58		58-66 sand mottles
						80		90-110 grad
	41N			123				136-150 mottles
	41N			142	slight			blueish burrows thr.

Observer: \_\_\_\_\_ Date: \_\_\_\_\_





IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	4	H	4	24	

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

Comments: Main lithology - grey

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

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

X

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	4	H	6	109	

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

Comments: Main lith - green

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
1	Radiolarians
	Spumellaria
	Nassellaria
60	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
1	Silicoflagellates
1	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	1343	C	4	H	7	83	

Sediment/Rock Name	Foram - b nanno - b diatom - rich clayey silt	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay
	70	30

Comments: Lamination

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

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

Expedition 323  
Bering Sea

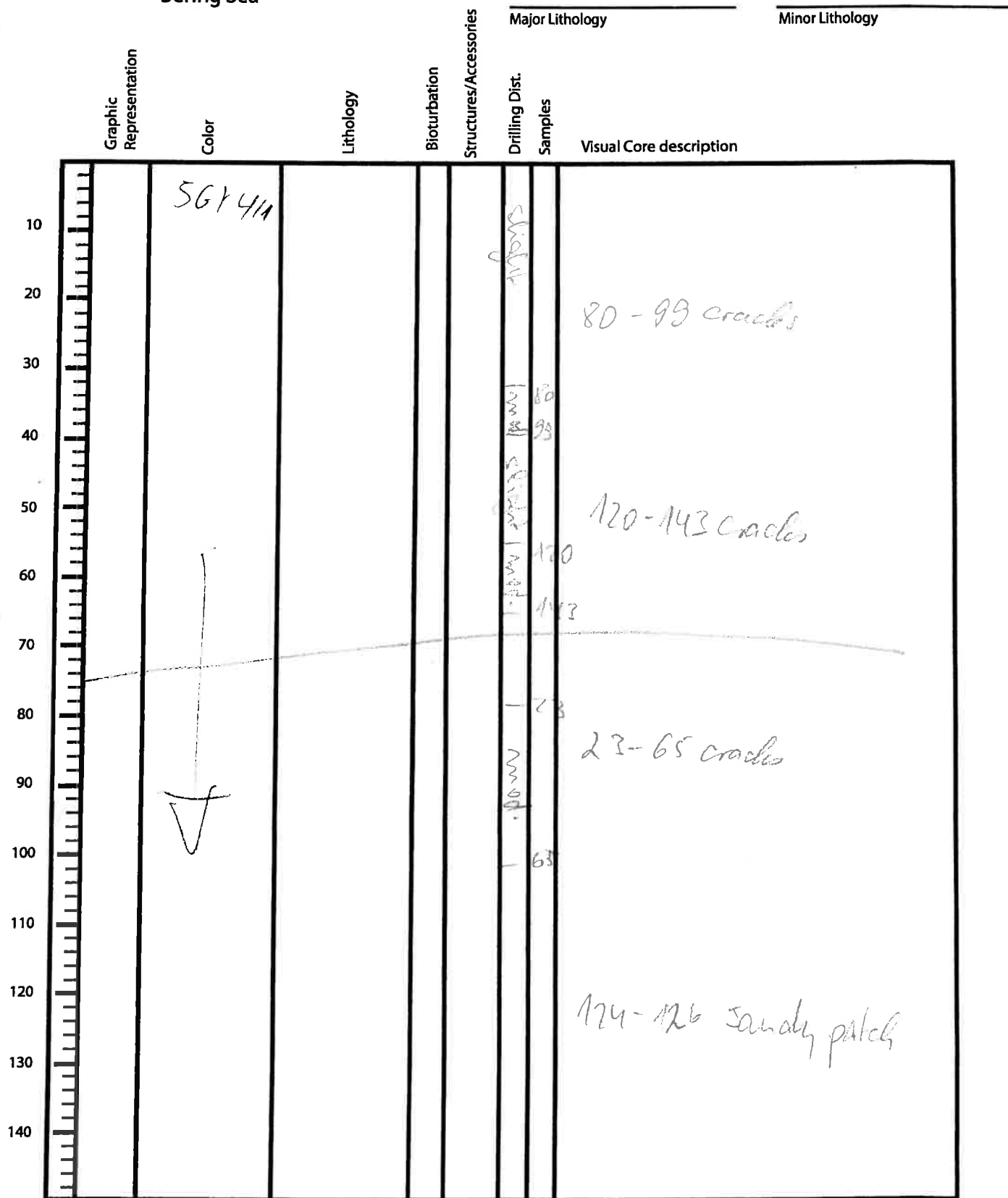
1843 C      5H      1+2  
 Site      Hole      Core      Section      Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	56Y4/1				20		0-20 pieces
	10Y4/1		slight				84-87 grad. 89-100 thin lam., one distinct burrow
	56Y4/1						98-102 grad.
	↓						sand revolves thr.

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 Site    C Hole    5H Core    3+4 Section    \_\_\_\_\_ Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C 5H 5+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	
	5G4/1		slight				
	 4/N						120-130 grad.
	↓						7-26 white spots
					63		20-56 pyrite mottles
					96		63-96 cracks
							81-92 pyrite mottles

CC

5G4/1

Observer: W. J. ...

Date: \_\_\_\_\_

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SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	S	H	I	99	99

Sediment/Rock Name	Nanno-bearing Foram-rich diatom ooze	Observer	MSC
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Percent Texture		
Sand	Silt	Clay

Comments: Laminations

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

Percent	Component
<b>66 BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
10	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
6	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
50	Diatoms
10	Centric
40	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	U1343	C	5	H	2	65	65

Sediment/Rock Name	Diatom-rich clay	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
2	18	80

Comments: main lith - grey

Percent	Component
<b>81</b>	<b>SILICICLASTIC GRAINS/MINERAL</b>
	Framework minerals
31	Quartz
30	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
10	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
8	Pyrite
	Magnetite
2	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>3</b>	<b>VOLCANICLASTIC GRAINS</b>
	Crystal grain
3	Vitric grain
	Lithic grain

Percent	Component
<b>16</b>	<b>BIOGENIC GRAINS</b>
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
1	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

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IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	5	H	4	40	40

Sediment/Rock Name	Diatom-rich clay	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
10	10	80

Comments: Main lithology grey

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

Percent	Component
<b>21 BIOGENIC GRAINS</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
1	Radiolarians
	Spumellaria
	Nassellaria
20	Diatoms
8	Centric
12	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	U1343	C	5	H	4	64	68

Sediment/Rock Name	<i>Auth-carb-rich, diatom-rich clay</i>	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
0	15	85

Comments:

*main lith*

Percent	Component
<b>75</b>	<b>SILICICLASTIC GRAINS/MINERAL</b>
	Framework minerals
5	Quartz
5	Feldspar
	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
10	Pyrite
	Magnetite
	Fe-oxide
55	Carbonates <i>many rounded</i>
	Calcite <i>globular forms,</i>
	Dolomite <i>not Rhombs!</i>
	<b>VOLCANICLASTIC GRAINS</b>
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>25</b>	<b>BIOGENIC GRAINS</b>
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
10	Centric
15	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



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IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	41343	C	5	H	6	46	46

Sediment/Rock Name	<i>Pyrite</i>	Observer	<i>MSC</i>
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Percent Texture		
Sand	Silt	Clay

Comments: *Black mottle - pyrite?*

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
<i>2</i>	Quartz
<i>1</i>	Feldspar
	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
<i>95</i>	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
<i>2</i>	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

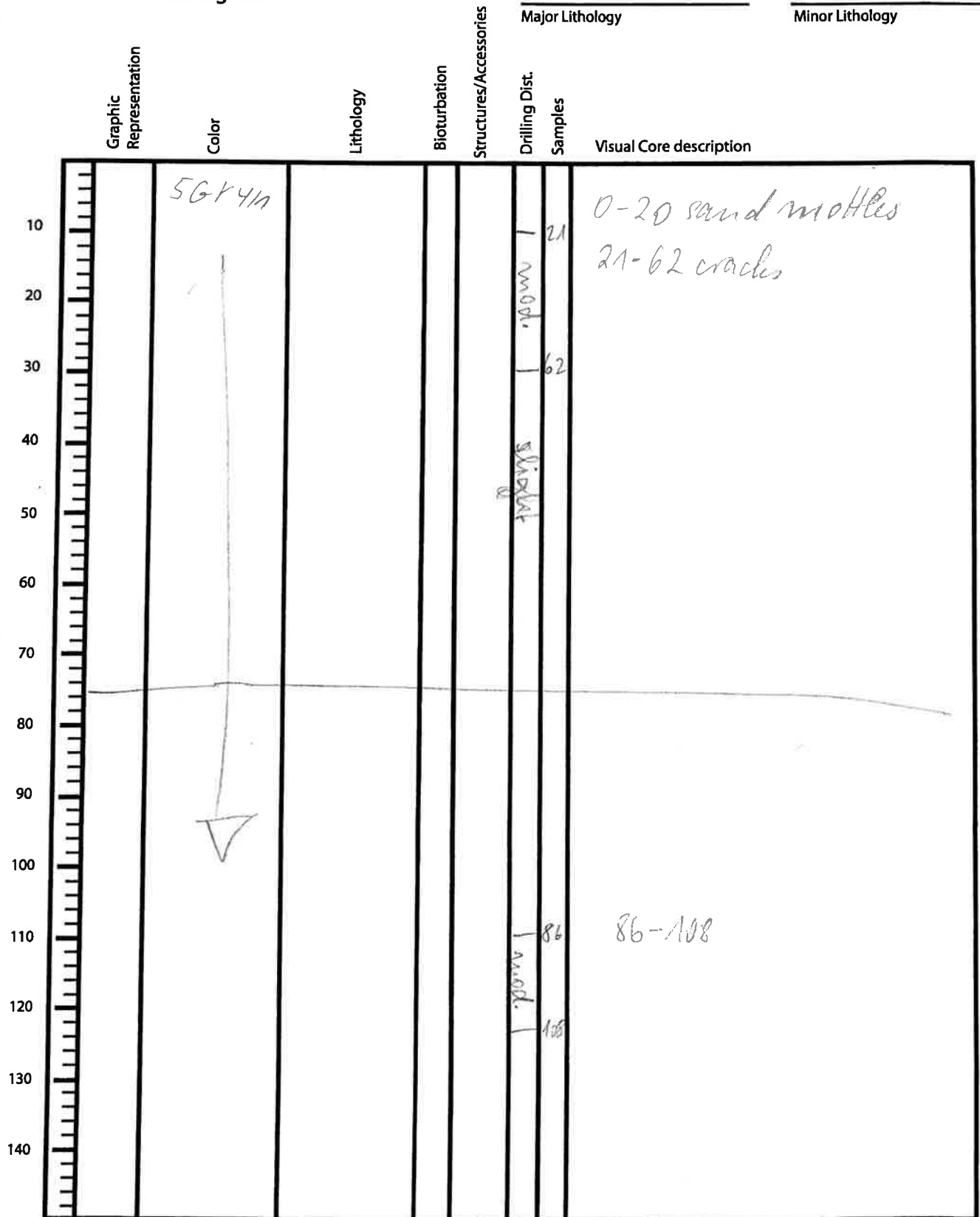
1343 C 6H 142  
 Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	SGY411						
	↓						
			shoof		shoof		
							29-30 clast, subrounded, light, 1cm φ sand mottles etc.
							121-146 pyrite mottles

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 Site    C Hole    6H Core    3+4 Section    Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C 6H 5+6  
 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				30		30-127 cracks
					127		
	10Y3/1		light				30-40 grad. 35-83 sandy material
					83		83-96 grad.
	5GY4/1		mod		93		93-108 cracks
					108		

Observer: \_\_\_\_\_ Date: \_\_\_\_\_





IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	6	H	5	40	40

Sediment/Rock Name	Diatom-rich clayey silt	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
15	50	35

Comments: Main lith - greenish grey

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

Percent	Component
<b>30 BIOGENIC GRAINS</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
20	Centric
2	Pennate
1	✓ <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	U1343	C	6H	6	A	60	60

Sediment/Rock Name	Diatom-rich sandy silt	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
25	70	5

Comments: Main lith - sandy

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

Percent	Component
<b>20</b>	<b>BIOGENIC GRAINS</b>
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
20	Diatoms
14	Centric
3	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
1	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	U1343	C	6	H	8	20	20

Sediment/Rock Name: *Diatom-rich clayey silt*

Observer: *MSC*

Percent Texture		
Sand	Silt	Clay
<i>5</i>	<i>75</i>	<i>20</i>

Comments: *Main like green*

Percent	Component
<i>65</i>	<b>SILICICLASTIC GRAINS/MINERAL</b>
	Framework minerals
<i>22</i>	Quartz
<i>22</i>	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>11</i>	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
<i>8</i>	Pyrite
	Magnetite
<i>2</i>	Fe-oxide
	Carbonates
	Calcite
	Dolomite
	<b>VOLCANICLASTIC GRAINS</b>
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<i>35</i>	<b>BIOGENIC GRAINS</b>
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
<i>20</i>	Centric
<i>15</i>	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

1343 C 7H S+6+CC  
Site Hole Core Section Top Depth Scale

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
	SGT 4/1							
					slight med.		53-81 cracks	
					slight		110-116 pyrite nodules	
							16-37 pyrite nodules	
					med.		42-138 cracks	
							106 - bottom CC pyrite nodules	
	 3/1						110-120 grad.	

5c

10/3/11

Observer: \_\_\_\_\_ Date: \_\_\_\_\_



SM

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	7	H	4A	65	

Sediment/Rock Name	Diatom-rich silt	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
2	90	8

S

Comments:

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

*needles, not many, possible zeolite*

Percent	Component
<b>35 BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
20	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

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	41393	C	7	H	6A	137	

Sediment/Rock Name	Diatom-rich silt	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
85	85	10

S

Comments:

Percent	Component
<b>75 SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
30	Quartz
30	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
6	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	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
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>25 BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
12	Centric
13	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

1343 C 8H 3+4  
 Site Hole Core Section Top Depth Scale

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
							Visual Core description	
10-20	SGH 4/11							21-22 fine ash layer
20-30	SY 4/12			53	51-55	mod		17-22 grad.
30-40	10Y 4/11							33-37 grad.
40-50								59-108 cracks
50-60						108		
60-70						slight		
70-80								
80-90								sandy mottles here,
90-100								52-82 cracks
100-110						52		
110-120								
120-130						82		
130-140								slight

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C BH 5+CC  
Site Hole Core Section Top Depth Scale

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
							Visual Core description	
	104 4/1				slight mod.			0-2 clast, flat, dark, 2 cm φ
	↓							45
								26

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	SH		1A	70	70

SM

Sediment/Rock Name	Diatom-bearing silty clay	Observer	Hiro. A.
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Percent Texture		
Sand	Silt	Clay
10	20	70

Comments: Drilling Dist? or M.H.

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b> <i>ff</i>	
	Framework minerals
75	Quartz <i>20</i>
2	Feldspar <i>v.f.</i>
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
43	1 Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
3	Ferromagnesium minerals <i>/</i>
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
4	Pyrite <i>/</i>
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> <i>12%</i>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
8%	Diatoms <i>2</i>
	Centric
	Pennate
	<i>Chaetoceros</i> Resting Spores
	Silicoflagellates
4%	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

1343 C 9H 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	
	5G4/1				slight		
10							Sandy mottles H <sub>2</sub> O
20							
30							30-60 pyrite mottles
40			slight				
50					mod.		69-116 punctures
60							
70					slight		
80	4/N						
90							
100							
110							
120							
130							
140							

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

1343 C 9H 3+4  
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	
	4/N						
10							24 shell frags.
20							Sandy mottles thr.
30							
40							113-114 clast, black, subrounded
50			slight		slight		
60							
70							
80	1044M						8-14 sponge agg
90							
100							
110							
120							
130							
140							

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C 9H 5+6  
 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				slight mod. slight		
						33 clast, flat, reddish, subangular	
						58-103 cracks	
						145 sponge agg.	
						90-142 sandy nodules	
						100-110 grad.	
	10Y3/1						

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

1343C 9H 7+CC  
 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	
	10Y 4/1				st. mod.		
	10Y 4/1 5G 4/1				st. mod.	15-41 cracks	
					st. mod.	sandy mottled thr.	
					st. mod.	25-35 grad.	
	10Y 4/1				st. mod.	115	
	10Y 4/1 5G 4/1				st. mod.	10-15 grad.	
						40	

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

X

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	9	H	2	85	

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

Comments: Main lithology

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
1	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

SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	9	A	6	138	

Sediment/Rock Name	Diatom silt	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay
15		

Comments: Main lithology

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
5	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
45	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

X

SM

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	9	H	7	12	12

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

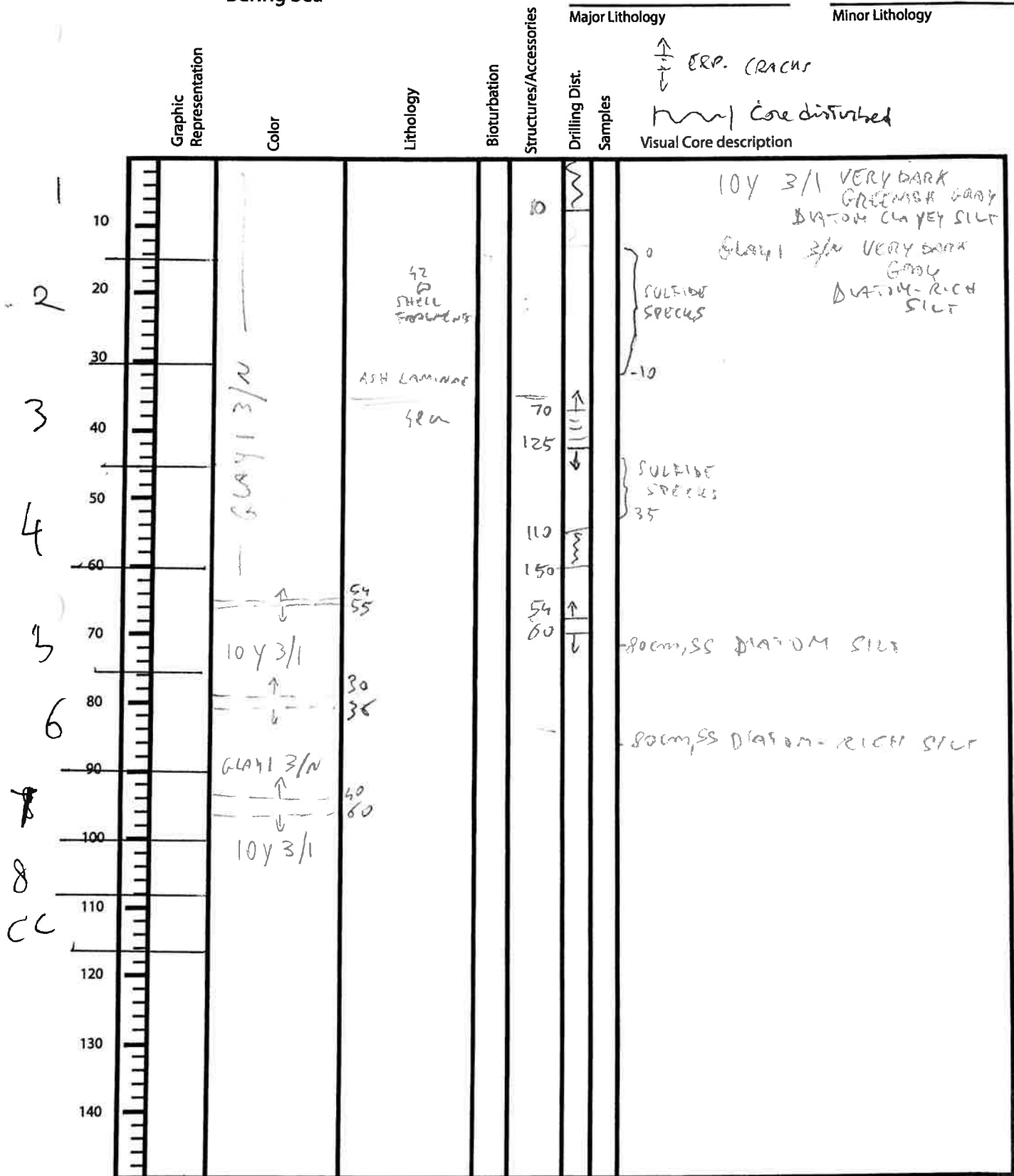
Comments: Main lith.

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
3	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

Expedition 323  
Bering Sea

1343 C 10 1-CC  
Site Hole Core Section Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	10	H	5	80	

Sediment/Rock Name	diatom clayey silt	Observer	Akora
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Percent Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
25	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



COLORATION  
DISCOLORATION

7343 C 11  
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
1	10T4/1		S						
2	10G4 4/1		S						40-140 several cracks ✓
3	10G4 4/1		S						63-80
4	10T5/1		S						unknown mineral patch ✓ should do XRD analysis 106-117 several cracks
5	58 80 SGT4/1		S						58-80 mott. coloration ✓ by fluid pathway?
6	10G4 4/1		S						32-140 several cracks ✓
7	1431		S						89 white 96-98 mott. ash.
8	10G4 4/1		S						
9	120 25		S						

diatom site

GA-122  
diatom-rich site

□ 10G4 4/1 diatom-rich site  
▣ 10T4/1

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

X

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	11	H	6	122 cm	

Sediment/Rock Name	Diatom-rich silt	Observer	G.B.
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Percent Texture		
Sand	Silt	Clay

Comments:

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

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



1343 C 12H ALL  
 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	
1	Sy 3/1	Diatom silt	↑	114.5- 115.5 AGM F1 104R 6/2	0-112 High	fall on rig floor
				102.6m 77-9 Sand MOT 114-22 Sand Mot		78-95 Gas exp Mot SS:56 - Diatom silt
2						51-100 Gas exp Mot 66-67 75-76 } VOA 82-84
						50-52 Sand Mot 88 Grain
3						59-130 Gas exp slight
						60-66 66-67 75-76 82-84
4						31-39 Gas exp Mot SS:59
						60-66 66-67 75-76 82-84
5	v. dark gray		↓			9 - 32 Gas exp S
						60-66 66-67 75-76 82-84
6	53 - light 66 59 3/2 alkaline gray	I				Diatom- rich silt
						60-66 66-67 75-76 82-84
7	109 3/1 60 v. dark green 109 4/1	II				
						60-66 66-67 75-76 82-84
CL						
						60-66 66-67 75-76 82-84

Observer: \_\_\_\_\_ Date: \_\_\_\_\_





SM

X

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	12H	6	A	59cm	

Sediment/Rock Name	Diatom-rich silt w/ mystery needles	Observer	Beh
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Percent Texture		
Sand	Silt	Clay

Comments:





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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
20	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

1343 C B  
 Site Hole Core Section Top Depth

Expedition 323  
 Bering Sea

Depth (m)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
							Visual Core description	
1				S				
10	✓	10Y 3/2		S		66	33-35 mott ash ✓	
20	✓	135 11		S		49 110	49-110 cracks ✓ 135- Sec 2-11. lam	2A-112 diatom ooze
30	✓	10G 4/1		S			143 ← 5 mott ash ✓ 114 pebbles black 1cm ✓ 725-139 burrow silt?	
40				S		77 120	77-120 cracks	
50	✓	10G 4.5/1		S		76 87 125	60-67 dolostone ✓ 67-76 fracture ✓ 76-87 void ✓ 60-73 dolomite pd ✓ 110 pebbles ✓ 88-127 cracks ✓	
60	✓	10G 7	60	m			57-64 mott dolomite pd?	6A-40 diatom-rich sandy silt
70	✓			m		25	18-21 mott ✓	
80	✓			m		166	61-72 burrow ✓ 25-106 several cracks ✓	
90	✓			S				
100								
110								
120								
130								
140								

-  10Y 3/2 diatom ooze
-  10G 4.5/1 diatom silt
-  10G 4.5/1 dolostone
-  10G 3/1 diatom-rich sandy silt

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

X

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	13	H	2	112 cm	

Sediment/Rock Name	(Silty) Diatom ooze	Observer	GB.
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Percent Texture		
Sand	Silt	Clay

Comments:

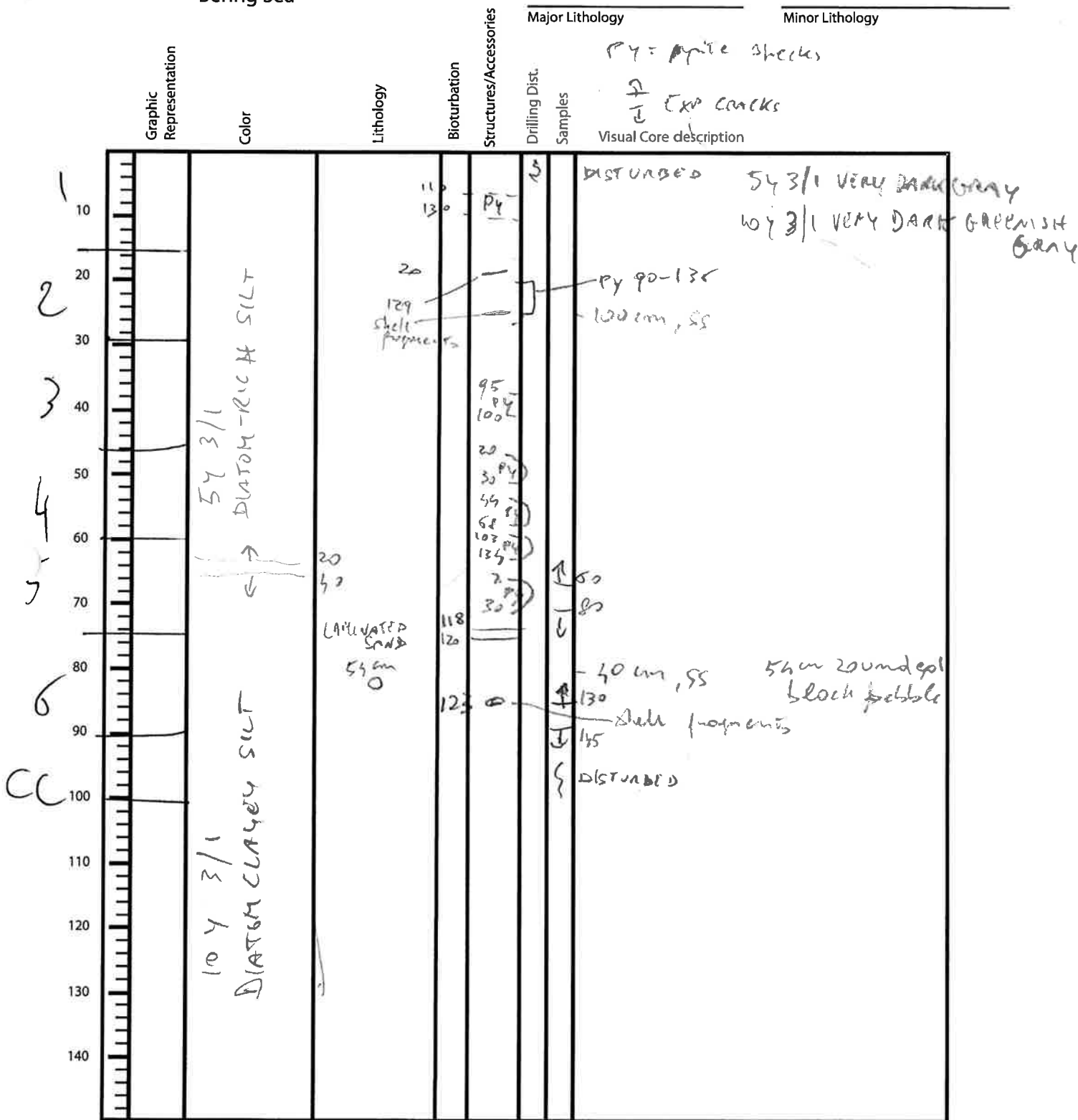
Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
10	Quartz
3	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
10	x Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic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

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



Expedition 323  
Bering Sea

1343 C 14 1-CC  
Site Hole Core Section Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_



IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	K	H	2	100	

SM

Sediment/Rock Name	diatom-rich silt	Observer	AKITA
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Percent Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
Calcareous	
8	✓ Foraminifera 2
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
29	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

X  
IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	14	H	6	40	

SM

Sediment/Rock Name	diatom clayey silt	Observer	AK
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Percent Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
44	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

Expedition 323  
Bering Sea

1343 C 15  
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
1					10		
2					140		
3					127		
4	10T4/1				150		
5					136		
6					150		
7					120		
CC					116		
					30		

91-102 mott.  
Sec 1 10-120 puncture 10 cm. Int.  
Sec 2

17-24 chond.?

9 shell 74-114 cracks

4A 80  
diatomaceous  
rich

6-130 cracks

114-116 burrow  
60-110. cracks

6A 80  
diatom shells  
rich

88, 105 shell

13-30. fracture.

□ 10T4/1

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	V1343	C	15	H	4A	80cm	

SM

Sediment/Rock Name	Diatom-rich silt	Observer	Beth
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B - 30  
S - 70  
V - 0

Percent Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms - <i>Stauroneis</i>
18	Centric
10	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



U1343 C 17 HALL  
 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	
1	10g 3/1		↑		A		
2	D-rich clayey silt			56, 5W		67-85 Gas exp. S	-9055 D-rich clayey silt
3				62W 8W		47-147 Gas exp. Mod	
4				65 6W		40 CRACK	81-141 Gas exp. sl
5				21-5 47-8 98-9 W		PEB subprod 117-119 void	PEB void 19 Pyrite
6	20 - 56y 3/1 v. dark greenish gray D silt			11W 51 pyrite 55 Sand Layer		46-50 Sand layer 57-146 Gas exp. Mod.	38-140 Gas exp. Mod
7				31-41 PEB	20-2 V M	PEB - metamorphic? Subprod	40. SS Diatom silt
CU			↓		H		

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	17	H	2	90	

Sediment/Rock Name	diatom-rich clayey silt	Observer	akima
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Percent Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	<b>Calcareous</b>
	Foraminifera ✓
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	<b>Siliceous</b>
	Radiolarians
	Spumellaria
	Nassellaria
31	Diatoms 17
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	<b>Others</b>
	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	UR3M3	C	17	A	6	5	

SM

Sediment/Rock Name	diatom-bearing silty sand	Observer	
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Percent Texture		
Sand	Silt	Clay
5	3	

Comments: Sandy layer (accessory)

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
22	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





Expedition 323  
Bering Sea

1343 Site    10C Hole    18 Core    1-CC Section    Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology	Visual Core description
10	1043/1	Diatom-Bearing SILT						1043/1 VERY DARK GREENISH GRAY } DIATOM-BEARING SILT
20	5413/2	FORAM & DIATOM BEARING SILT						55cm ss 543/1 VERY DARK GRAY } DIATOM-BEARING SILT
30	543/1	Diatom-Bearing SILT						1045/2 OLIVE GRAY } BOLD WHITE
40	543/1	Diatom-Bearing SILT						32cm CLASTS AT 34cm } 543/2 FORAM & DIATOM-BEARING SILT
50	543/1	Diatom-Bearing SILT						10-22 chondrites SANDWITCHED AT 25cm
60	543/1	Diatom-Bearing SILT						
70	543/1	Diatom-Bearing SILT						
80	543/1	Diatom-Bearing SILT						
90	543/1	Diatom-Bearing SILT						80cm ss Diatom-bearing SILT
100								
110								
120								
130								
140								

EXP CORCK

CC 65

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	18	H	2	58	

SM

Sediment/Rock Name	foraminifera-bearing silt. diatom-bearing	Observer	Akiva
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Percent Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
Calcareous	
16	Foraminifera 3 Planktonic foraminifera Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
11	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

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	18	H	6	80	

SM

Sediment/Rock Name	diatom-bearing, clayey silt	Observer	AKIRA
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Percent Texture		
Sand	Silt	Clay

Comments:

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

Percent	Component
<b>BIOGENIC GRAINS</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
12	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
	1343	C	18	4		35cm	

JM

Sediment/Rock Name	ARAGONITE DIATOM CLAY	Observer	CUA
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
3	2 Quartz
3	2 Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
24	15 Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
3	2 Pyrite
	Magnetite
	Fe-oxide
	Carbonates
11	7 Calcite
	Dolomite
32	20 ACICULAR ARAGONITE
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
24	15 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

1343 C 19  
 Site Hole Core Section Top Depth

Expedition 323  
 Bering Sea

Depth (m)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Samples	Major Lithology	Minor Lithology
								Visual Core description	
10	✓	10Y 3/1		7M					
15	87	123		✓					
20	5	10Y 4/1		7M	40	97		134 sandy layer (mottled sand) shell	1A-40
25	5	40		S		87		47-84 cracks	
30				✓		87			2A-130
40	✓	5GY 4/1		S	130	93		14 mottled	diatom-rich clayey silt
45	87	32		✓		93		26-93 ocher	
50	87			7M		87		130 mottled hard 131-134 mottled	
55	✓					87		32-80 cracks 80-87 void 87-103 crack	
60	✓					87		59-92 cracks 72-75 void 79-81 void	
70	87	104				59			
80	✓					59		52-53 void 2-3cm	
85						59		49-50 pebble basaltic? rounded	
90	87					59		77-78 mottled sand 97-98 mottled	95-100 fine sand
95	87					59		3-5 dolomite nodules	
100	87					59		3-5 dolomite nodules - 10Y	
110								18-21 mottled dolomite? 5/1	
120									
130									
140									

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

X

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1343	C19			1	40m	

SM

Sediment/Rock Name	DIATOM SILTY CLAY	Observer	1WA
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
9%	5 Quartz
13%	7 Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
38%	20 Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
2%	1 Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
37%	20 Diatoms
28%	15 Centric
9%	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

1343 C 204 AM  
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
					Visual Core description	
1	109 3/1 39	D-rich silt	[Diagram of bioturbation structures]	H		
	green	DSilt				
2	30 138	D-rich silt	[Diagram of bioturbation structures]		45 Sand Mot. 82-5 Sand Mot 129W	10 Plan. 38 11 90-92 Green Mod. 50% D-rich silt
	green					
3	109 4/1 100	D. silt	[Diagram of bioturbation structures]		75-85V	33-75 Gas r.p. sl. 40.55 - D. silt
	gray					
4	123	D-rich silt	[Diagram of bioturbation structures]		83-V Green Mot. 86-97 Pyrite	4-117 Gas r.p. Mod.
	green	D&N				
5	40	D-rich silt	[Diagram of bioturbation structures]		109 Sand Mot 3-67 Sand Mot	40-51 Intense green 50% D&N bear silt
	gray	D-rich silt				
6	40	Coarsv 1	[Diagram of bioturbation structures]		23 Swell	
7	109 4/1 52	D&N bear silt	[Diagram of bioturbation structures]			
	green					
CU	564 3/1	D-rich silt	[Diagram of bioturbation structures]	H		

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

X

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1343	C	20		33	40m	

Sediment/Rock Name	DIATOM SLT	Observer	lwa
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Percent Texture		
Sand	Silt	Clay

Comments:

43%

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
8%	2 Quartz
19%	5 Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
12%	3 Rock fragments
	Accessory/trace minerals
	Micas
	X Biotite
4%	1 Muscovite
12%	3 Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
4%	1 Pyrite
	Magnetite
	Fe-oxide
	Carbonates
4%	1 Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
39%	10 Diatoms
31%	2 Centric
8%	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

X

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1343	C	20		2	50m	

SM

Sediment/Rock Name	DIATOM-RICH SILT	Observer	
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Percent Texture		
Sand	Silt	Clay

Comments:

56%

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
19%	5 Quartz
19%	5 Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	X Biotite
8%	2 Muscovite
	Clay Minerals
	Chlorite
	X Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
8%	2 Pyrite
	Magnetite
4%	1 Fe-oxide
	Carbonates
	Calcite
	Dolomite
4%	1 ARAGONITE
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
38	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
	1343	C	20	7	7	50m	

SM

Sediment/Rock Name

DATOM- & NANNO-BEARING SILT

Observer

IWA

Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
19%	3 Quartz
31%	5 Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
5%	1 Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
6%	1 Zeolite
	Opaque minerals
6%	1 Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
13%	<del>2</del> Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
10%	3 Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	<del>X</del> Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others



1343 C 21H 3+4  
 Site Hole Core Section Top Depth

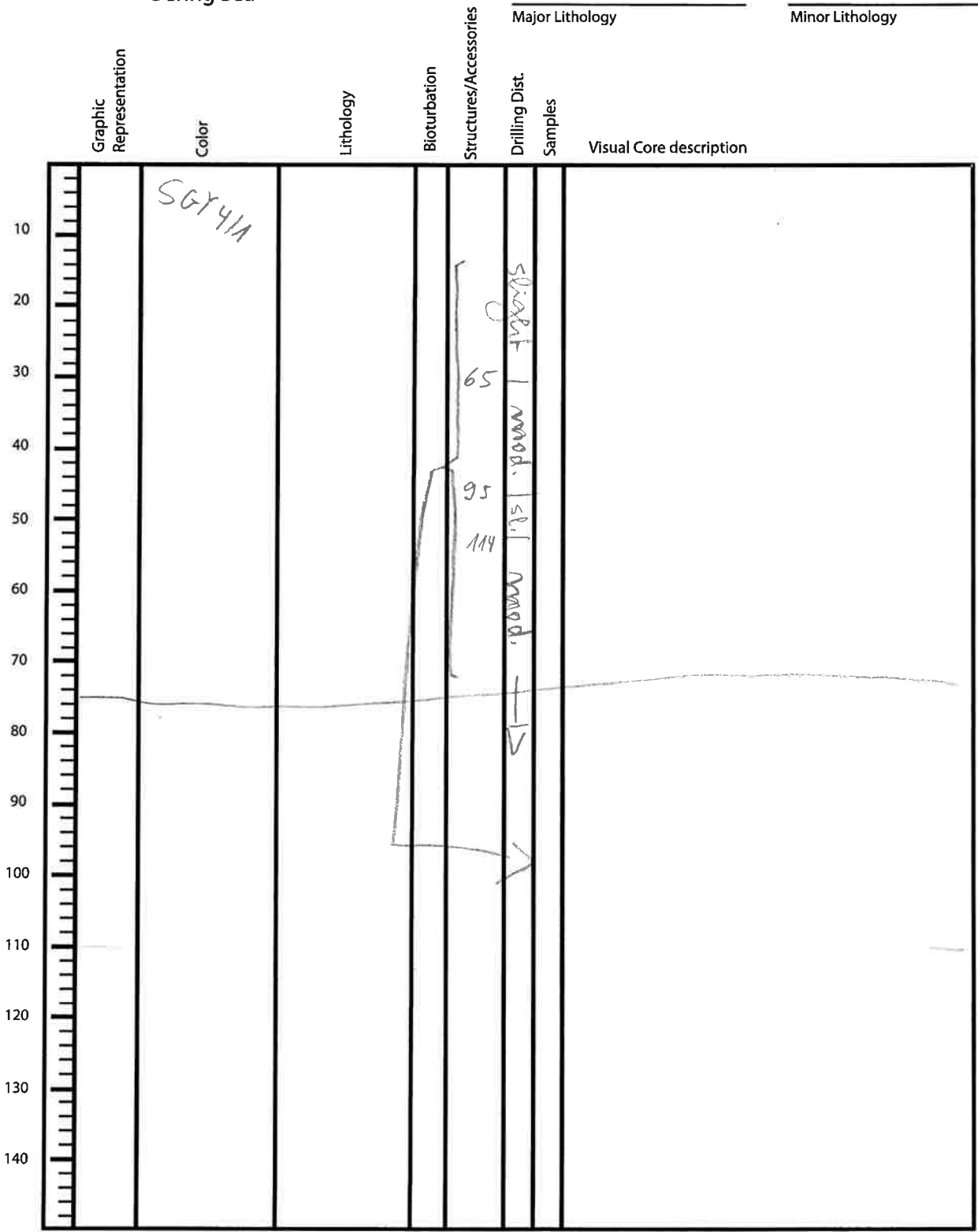
Expedition 323  
 Bering Sea

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	SGT 4/1				56-62 silt 62-77 void 77-111 silt 111-32 mud		
							11-32 gaps

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C 21H S+6+  
Site Hole Core Section Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_





SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	21	H	2	80	80

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

Comments: *Massive lithology*

Percent	Component
<b>85</b>	<b>SILICICLASTIC GRAINS/MINERAL</b>
	Framework minerals
25	Quartz
25	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
20	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
5	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
7	Pyrite
	Magnetite
3	Fe-oxide
	Carbonates
	Calcite
	Dolomite
	<b>VOLCANICLASTIC GRAINS</b>
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>15</b>	<b>BIOGENIC GRAINS</b>
	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

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	21	H	5	5	5

Sediment/Rock Name	Diatom-rich clayey silt	Observer	
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Percent Texture		
Sand	Silt	Clay
3	67	30

Comments: Main lithology

Percent	Component
<b>75 SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
30	Quartz
30	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
15	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
7	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>5 VOLCANICLASTIC GRAINS</b>	
	Crystal grain
5	Vitric grain
	Lithic grain

Percent	Component
<b>20 BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
15	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

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	21	H	7	10	16

Sediment/Rock Name	Diatom siet	Observer	
--------------------	-------------	----------	--

Sand	Percent Texture	
	Silt	Clay
3	77	20

Comments: Main lithology (quener)

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

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

Expedition 323  
Bering Sea

1343 C 22H/142  
Site Hole Core Section Top Depth

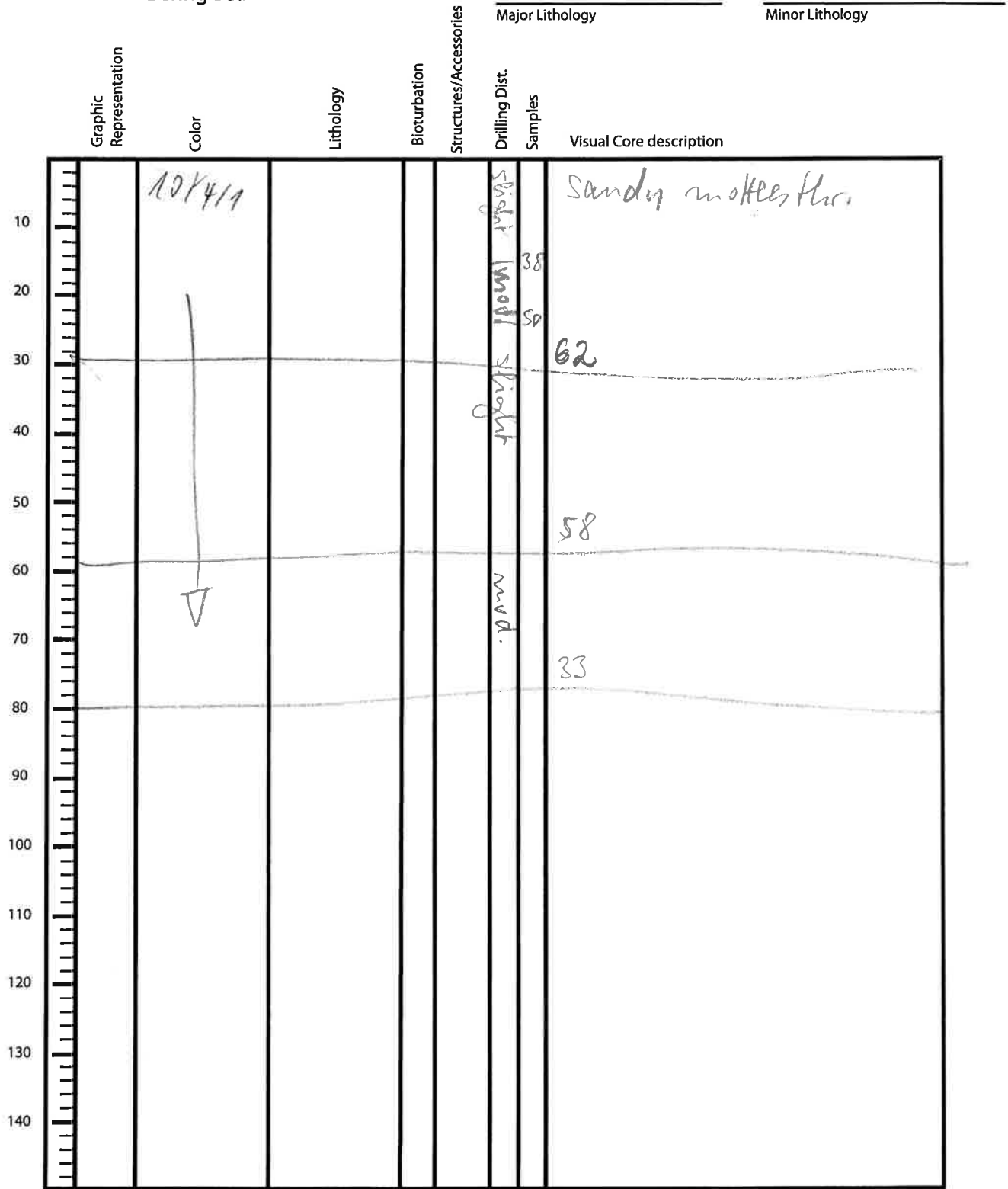
Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	10Y4/1				small 1000		0-3 pieces 0-110 sandy nodules
		5Y6/2		SR 1000			

Observer: \_\_\_\_\_ Date: \_\_\_\_\_



Expedition 323  
Bering Sea

1343 C 22H 3+4+CC  
 Site Hole Core Section Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1343	C	22	H	1	95	95

SM

Sediment/Rock Name	Diatom-rich Silt	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
2	93	5

S

Comments: Main lith - w/mica

Percent	Component
<b>65 SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
20	Quartz
20	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
9	Rock fragments
	Accessory/trace minerals
	Micas
2	Biotite
5	Muscovite
	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
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>35 BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
29	Centric
5	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
1	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	U1343	C	22	H	2	60	60

Sediment/Rock Name	Fine ash	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
30	68	2

Comments: Grey ash

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

Percent	Component
	<b>BIOGENIC GRAINS</b>
	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	41343	C	22	H	3	20	20

Sediment/Rock Name	Diatem pilt	Observer	MSC
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Percent Texture		
Sand	Silt	Clay
3	87	10

Comments:

Main lith (green)

Percent	Component
<b>45 SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
15	Quartz
15	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
6	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
3	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
5	Pyrite
	Magnetite
1	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
5	Vitric grain
	Lithic grain

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



Expedition 323  
Bering Sea

1343 C 23 1+2  
Site Hole Core Section Top Depth

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
20		5Y 3/2	H		S		9
20-40		10Y 3/1	H	A			26
40-60		5Y 3/2	H	A			
60-63							63 end of section
60-80							
80-50			H	S			0
50-60							17
60-70							25
70-80							Sandy patches 1-2mm, white
80-100			Diatom-rich silt	A	S		
100-110				A			91
110-120							Black rounded clast 5mm
120-140							133 end of section

Sec I

Sec II

Observer: \_\_\_\_\_ Date: \_\_\_\_\_



Expedition 323  
Bering Sea

1343 Site    C Hole    23 Core    3+4 Section    Top Depth

		Major Lithology			Minor Lithology	
Graphic Representation	Color	Lithology	Bioturbation Structures/Accessories	Drilling Dist. Samples	Visual Core description	
20 10						
40 20		H		S		
60 30						
80 40						
100 50			A			
120 60					104	Light col. mottle - authigenic CO <sub>3</sub> ?
140 70						
10 80		II			4	Sandy patch 2cm x 5mm
30 90					18	Light col mottle - authigenic CO <sub>3</sub> ?
50 100			A		30	Sponge spicule aggregate
70 110					53	White sandy lens
90 120					81-82	"
110 130					97	"
130 140					120	Broken shell fragments.
150						

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

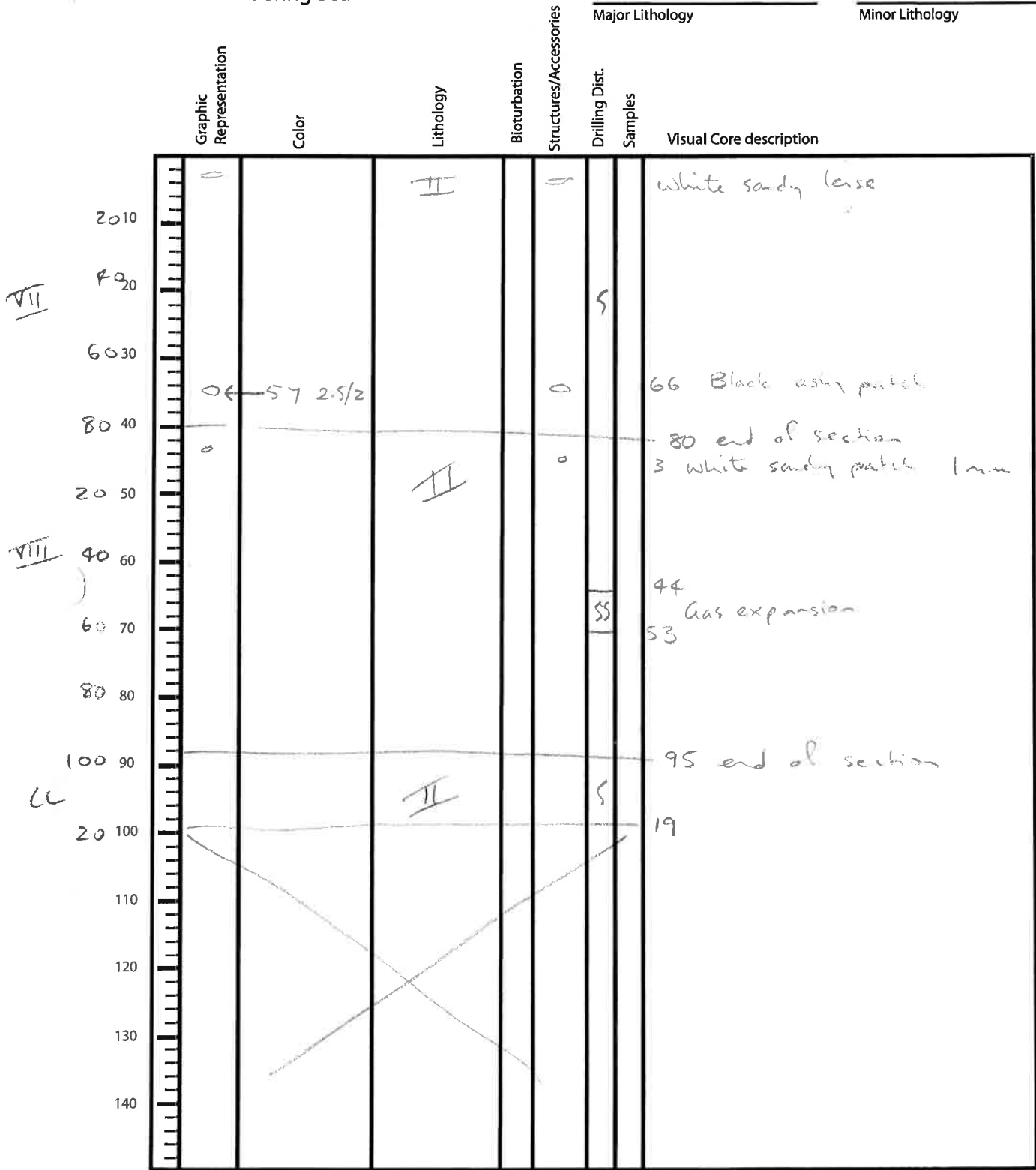
1343 Site    C Hole    23 Core    5+6 Section    Top Depth

Major Lithology	Minor Lithology	Visual Core description	Drilling Dist. Samples	Structures/Accessories	Bioturbation	Lithology	Color	Graphic Representation
		5 Bioturb. <sup>white</sup> sandy lamina 2-5mm				II		
		11 " "						
		20 Black ash patch 1x1cm						
		23 White sandy patches 1-3mm						
		29 34						
		95 end of section			A			
						II		
		33 } white sandy patches 1-2mm						
		39 }						
		44 }						
		48 Light green dolomite layer						
		55				II		
		60						
		63 white sandy patch 2mm						
		71 Biot sandy lams						
		84						
		99 Black rounded pebble 5mm						

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 Site      C Hole      7<sup>+8</sup>+CC Core      Section      Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	23H		1	42	42

SM

Sediment/Rock Name	diatom silty clay	Observer	GAA
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Percent Texture		
Sand	Silt	Clay
10	30	60

Comments: Main Lith. Green

20  
30

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 35 36</b>	
Framework minerals	
16	Quartz 3
11	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
3	Rock fragments 0.5
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
3	Ferromagnesium minerals 0.1
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
3	Pyrite 0.5
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 64</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
10	Centric
11	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	1343	C	23H		3	50	50

Sediment/Rock Name	Diatom-rich silt	Observer	HA
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Percent Texture		
Sand	Silt	Clay
10	80	10

Comments:

Main Lith. Gray

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b> f2	
Framework minerals	
55	Quartz 20
5	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
26	Micas
	Biotite
	Muscovite
14	Clay Minerals 5
	Chlorite
	Glauconite
26	Chert
	Zircon
5	Ferromagnesium minerals 2
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
3	Pyrite 1
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> 18	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
14	5 Centric
435	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

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	234		4	20	20

Sediment/Rock Name	Diatom-rich <del>to</del> silty clay	Observer	HA
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Percent Texture		
Sand	Silt	Clay
10	330	60

Comments:

(Authigenic)  
yellowish patch  
(Carbonate)

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals $\Sigma$
1	Quartz 0.5
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucanite
	Chert
	Zircon
1	Ferromagnesium minerals 0.5
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
4	Pyrite 2
	Magnetite
	Fe-oxide
63	Carbonates 30
	Calcite $\approx$ Authigenic
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
21	10 Centric
10	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

134J C 24H 1+2  
Site Hole Core Section Top Depth

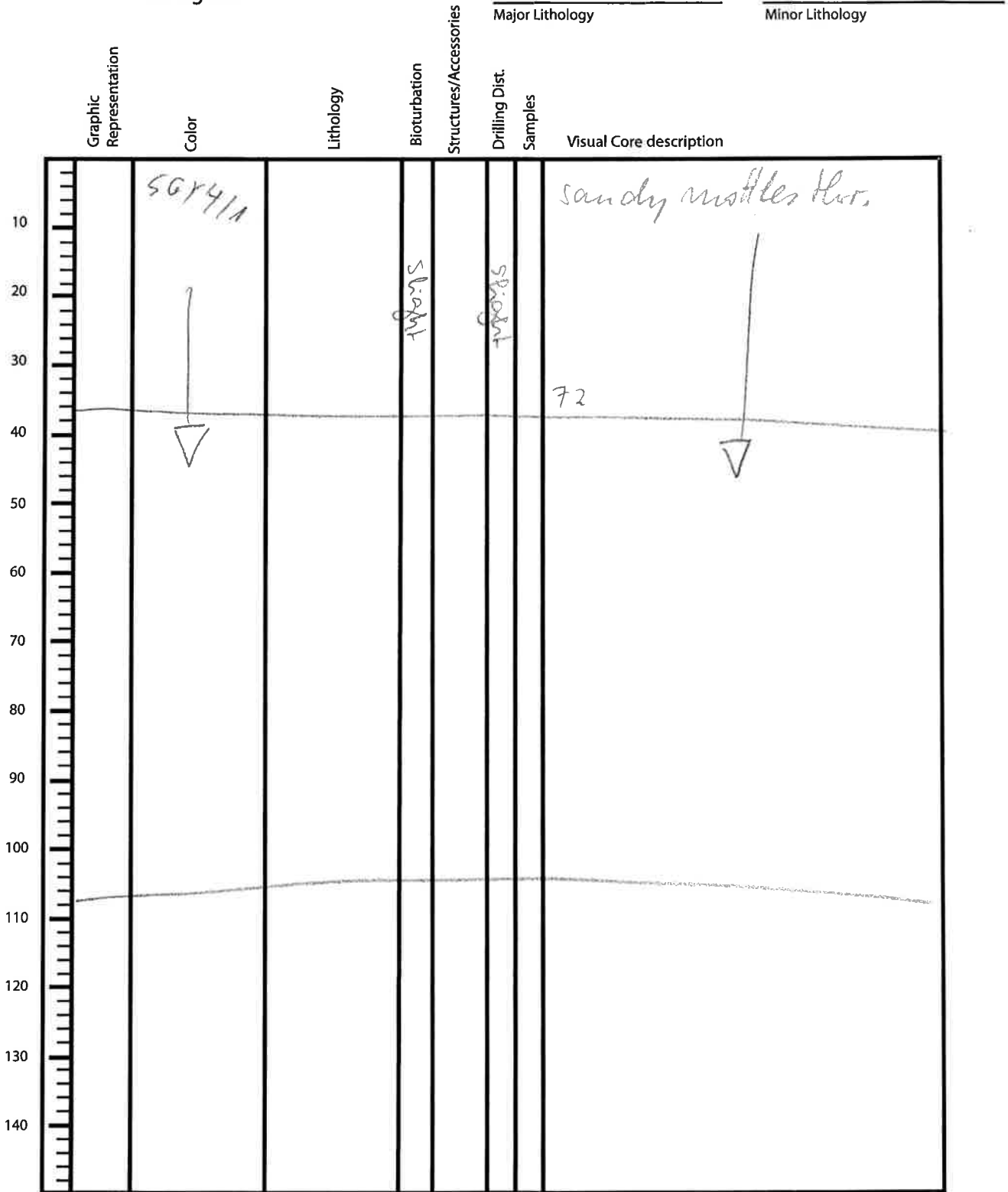
Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
	10Y4/1				10Y4/1		
	↓						
	10Y5/1	SS			40	18-20 grad.	
	10Y4/1					24-26 grad	
	5G4/1				40-50 grad.		
				72	55, 64 brownish mottles, granular (SS)		
				108	72-108 crinoids		

Observer: \_\_\_\_\_ Date: \_\_\_\_\_



Expedition 323  
Bering Sea

1343 C 24H 3+4  
Site Hole Core Section Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 Site    C Hole    24H Core    5+6 Section    Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology	
						Visual Core description		
	4/N					28 intermixed ash		
						~ sandy mottles		
				cracks	cracks		102-105 clasts, fine pebbles	
							80-110 more sandy patches	
					26	21-23 brownish sand mottles		
					51	26-51 cracks		
				75	44-46 light sand mottles			
				100	75-100 cracks			
				116	116-134 cracks			
				135	117-138 pyrite mottles			

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1243 C 24H 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	
	4/N		shaly		shaly		Sandy in places thro.
				70	void		70-77 void
				77	void		
					shaly		
	5G411			29	void		29-33 void
				33	void		
					sh.		
	4/N			54	void		54-58 void
				58	void		40-50 grad.
					sh.		
					mod.		
							33

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	BXS	C	2814		2	20	20

Sediment/Rock Name: diatom bearing silty clay

Observer: Hin A

Percent Texture		
Sand	Silt	Clay
60	30	10

Comments: Sec. 2 - 20 Green Layer

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals <u>ft %</u>
<u>7</u>	Quartz <u>1</u>
	Feldspar
	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
	Magnetite
	Fe-oxide
	Carbonates
<u>82.5</u>	Calcite <u>70</u>
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain <u>5.5</u>
<u>2</u>	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> <u>12%</u>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
<u>12.2</u>	Diatoms <u>3</u>
	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	13Y3	C	E <sup>217</sup>		2	63	63

Sediment/Rock Name	oxygen-rich clayey silt	Observer	HA
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Percent Texture		
Sand	Silt	Clay
20	75	30

Comments: # ?

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 60</b>	
Framework minerals	
27	Quartz /
27	Feldspar <del>25</del> /
	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	
6	Pyrite 0.25
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 40</b>	
Calcareous	
Foraminifera	
	Planktonic foraminifera
	Benthic foraminifera
Nannofossils	
	Coccoliths
	Discoasters
Pteropods	
Siliceous	
Radiolarians	
	Spumellaria
	Nassellaria
Diatoms	
13	0.5 Centric
27	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

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	24H		4	25	25

Sediment/Rock Name	Diatom silt	Observer	
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Percent Texture		
Sand	Silt	Clay
5	25	10

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 61</b>	
Framework minerals	
45-46	Quartz 15
3	Feldspar 1
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
9	Biotite 3
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
3	Ferromagnesium minerals 1
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 39</b>	
Calcareous	
Foraminifera	
Planktonic foraminifera	
Benthic foraminifera	
Nannofossils	
Coccoliths	
Discoasters	
Pteropods	
Siliceous	
Radiolarians	
Spumellaria	
Nassellaria	
Diatoms	
30	10 Centric
9	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	

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IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	24H		5	65	65

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

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 86</b>	
Framework minerals	
50	Quartz 28
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
20	Clay Minerals 10
14	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
14	Pyrite 7
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
Crystal grain	
2	Vitric grain 1
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 14</b>	
Calcareous	
Foraminifera	
Planktonic foraminifera	
Benthic foraminifera	
Nannofossils	
Coccoliths	
Discoasters	
Pteropods	
Siliceous	
> Radiolarians	
Spumellaria	
Nassellaria	
Diatoms	
8	4 Centric
6	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	

1343 C 25H 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	
	4/N ↓				10: 103 65 76 void mod.		
						SA	sand mottles blue 5-55 pyrite mottles

Observer: \_\_\_\_\_ Date: \_\_\_\_\_



1348 C 25H 3+4  
 Site Hole Core Section Top Depth

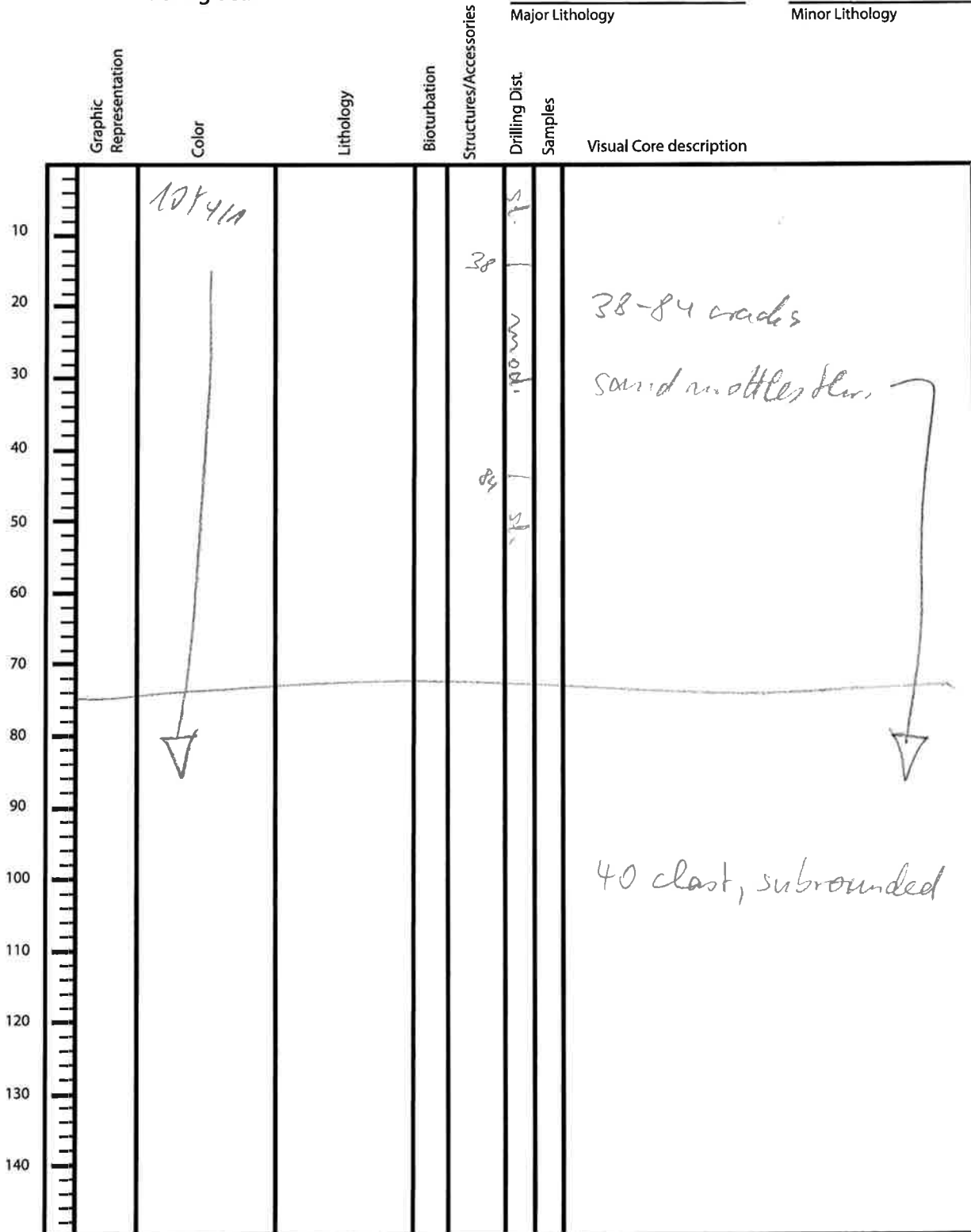
Expedition 323  
 Bering Sea

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
							Visual Core description	
10		4/10 10Y4/1				42		10-15 grad.
20						48		42-48 void
30						56		4
40		5G4/1				88		88-96 cracks
50						104		90-110 grad.
60						110		
70						123		
80		10Y4/1						sand mottles here.
90								
100								
110								
120								104-105 fine ash layer
130								
140								

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

1343 C 25H 5+6  
Site Hole Core Section Top Depth

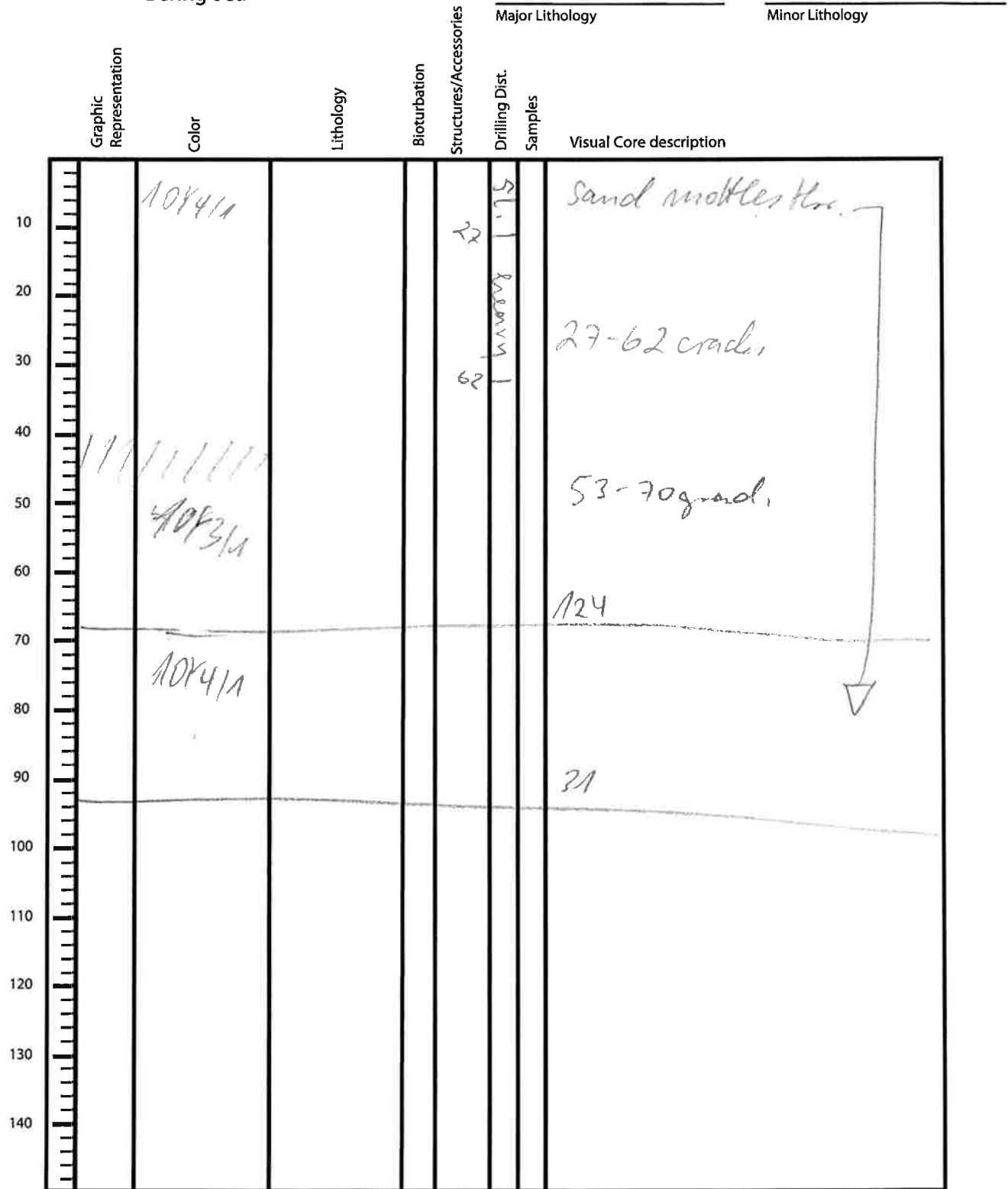
Expedition 323  
Bering Sea



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C 25H 7+CC  
 Site Hole Core Section Top Depth



Observer: \_\_\_\_\_ Date: \_\_\_\_\_

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	2 <sup>PH</sup> H		2	133	133

Sediment/Rock Name	Diatom silt silt	Observer	HA
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Percent Texture		
Sand	Silt	Clay
10	80	10

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 46.54</b>	
Framework minerals	
47.45	Quartz 15
3	Feldspar /
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
3	Rock fragments /
Accessory/trace minerals	
	Micas
3	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
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 46</b>	
Calcareous	
Foraminifera	
Planktonic foraminifera	
Benthic foraminifera	
Nannofossils	
Coccoliths	
Discoasters	
Pteropods	
Siliceous	
Radiolarians	
Spumellaria	
Nassellaria	
Diatoms	
33.41	# 13 Centric
7.5	# 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	

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1343	C	25H		6	50	50

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

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL 41</b>	
Framework minerals	
9	Quartz <i>at 1</i>
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
3	Rock fragments <i>at 0.5</i>
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
27	Clay Minerals <i>FEY</i>
	Chlorite
	Glauconite
	Chert
	Zircon
2	Ferromagnesium minerals <i>at 0.25</i>
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS 59</b>	
Calcareous	
Foraminifera	
Planktonic foraminifera	
Benthic foraminifera	
Nannofossils	
Coccoliths	
Discoasters	
Pteropods	
Siliceous	
Radiolarians	
Spumellaria	
Nassellaria	
Diatoms	
54	<i>at 1</i> Centric <i>P</i>
5	<i>at 1</i> 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

1343 C 26H 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	
	5G44A				clean		
	4/N				53 63 92		77 53-63 void 118-150 pyrite nodules

Observer: \_\_\_\_\_ Date: \_\_\_\_\_

Expedition 323  
Bering Sea

1343 C 26H 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	
	4IN+ 104411 (50/50)		mod.		slight		
	 50Y 411		80   slight				pyrite mottles thru colour mottles thru.  80-90 grad.  80-150 sandy mottles

Observer: \_\_\_\_\_ Date: \_\_\_\_\_









