

Expedition 323  
Bering Sea

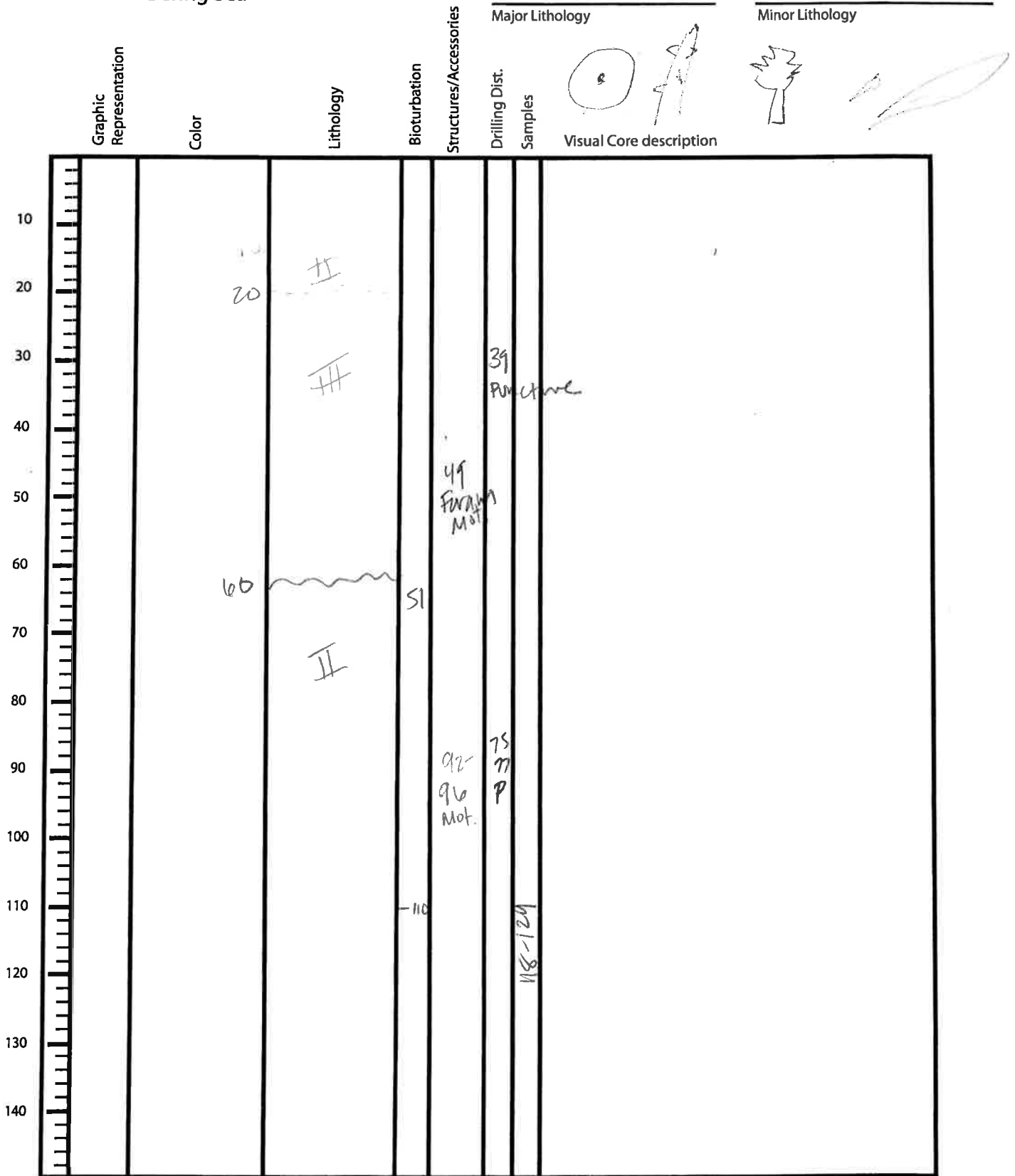
323 Site    U1342C Hole    1A Core    1 Section    Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
						Visual Core description	
		I					
		24	M	20 thick lam		Fossils! I. D-bear forams 5y 4/3 olive	
			II			Cocco-bear II. D-bear f-rich clayey silt. 10y 4/1 dk greenish gray	
						III F. & drich 5y 3/2 dk olive gray	
	118	III	S	117	Crack		
	122						
		II					

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

Expedition 323  
Bering Sea

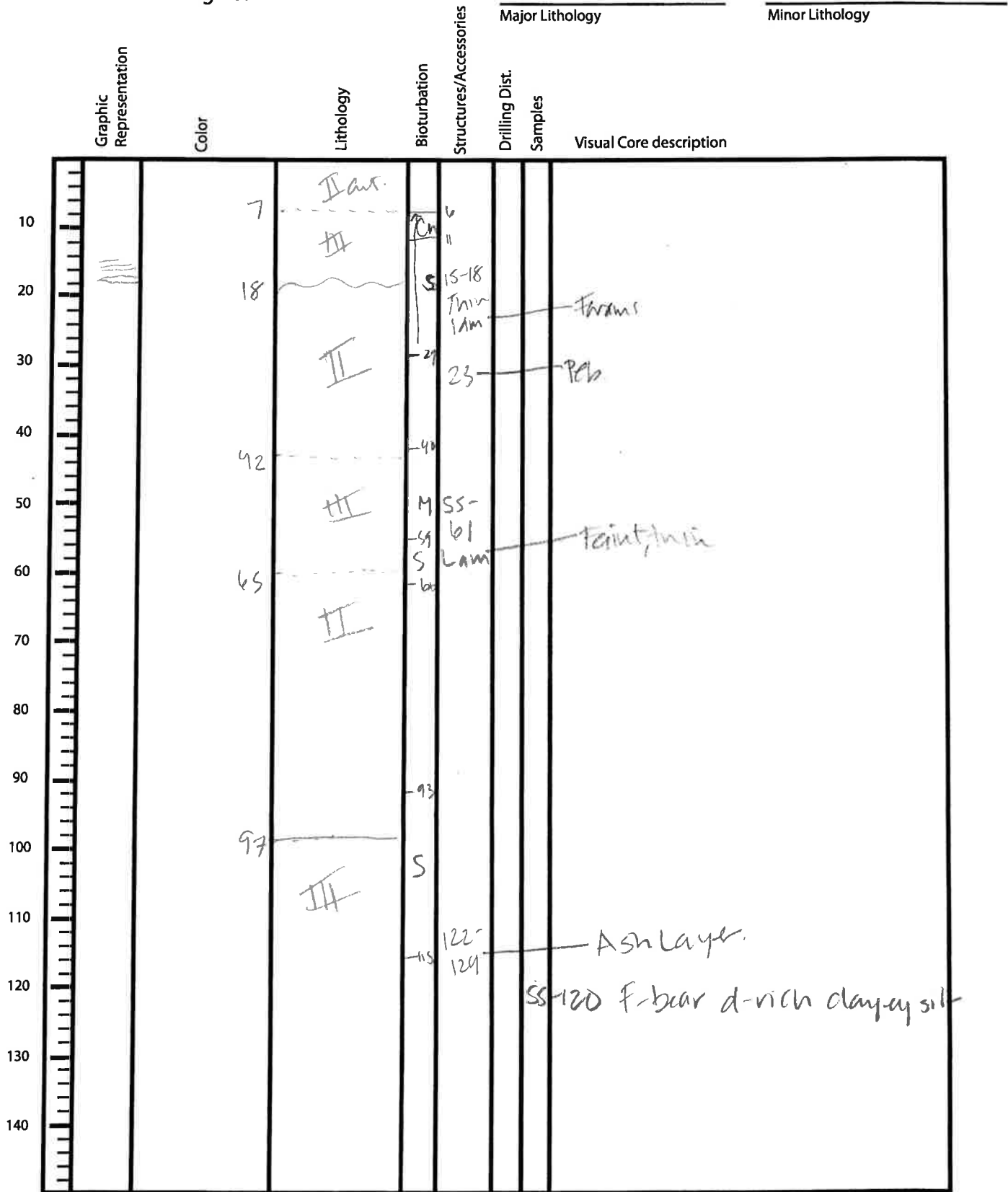
1342 C 1H 2  
Site Hole Core Section Top Depth



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

Expedition 323  
Bering Sea

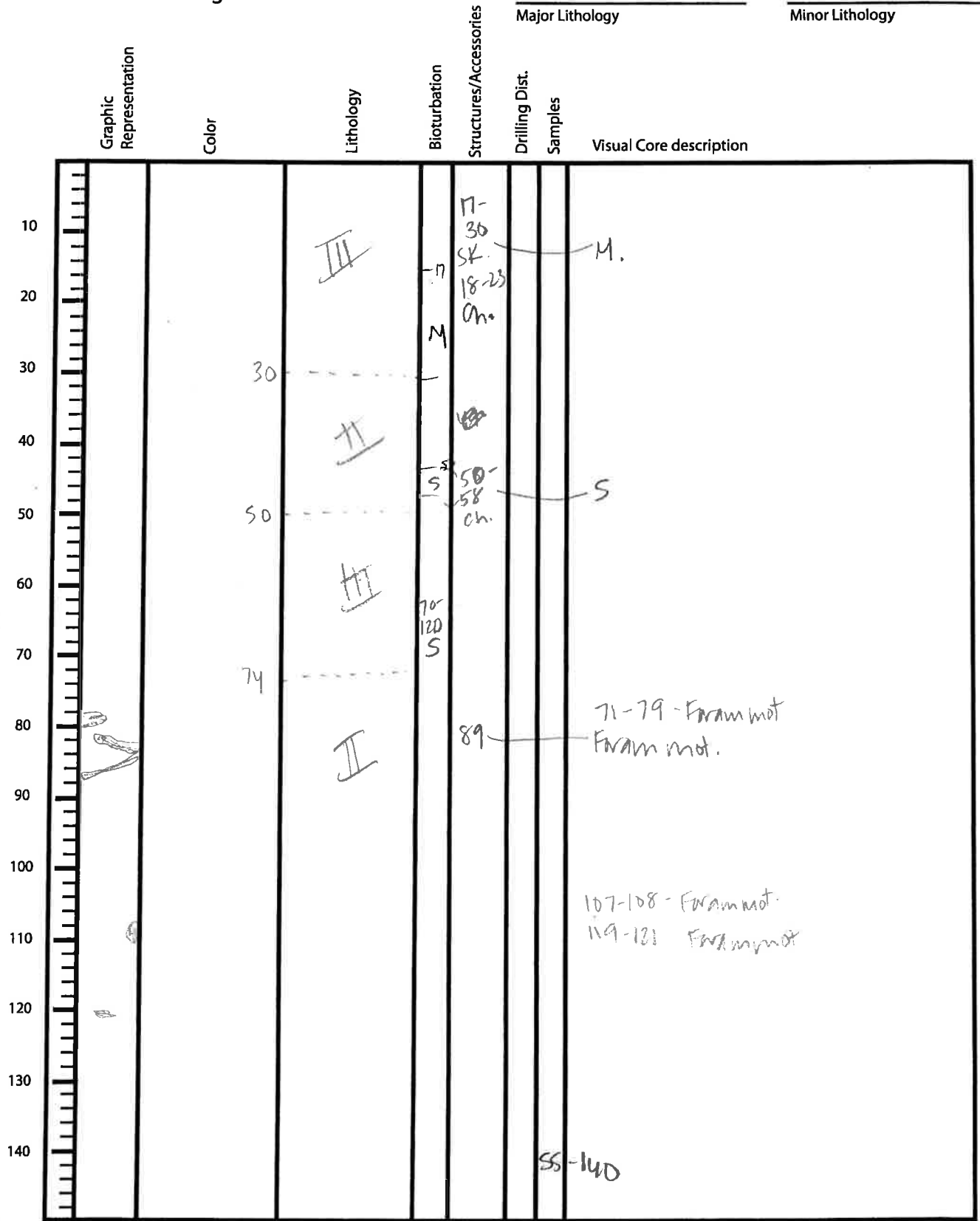
1342 C 14 3  
Site Hole Core Section Top Depth



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

Expedition 323  
Bering Sea

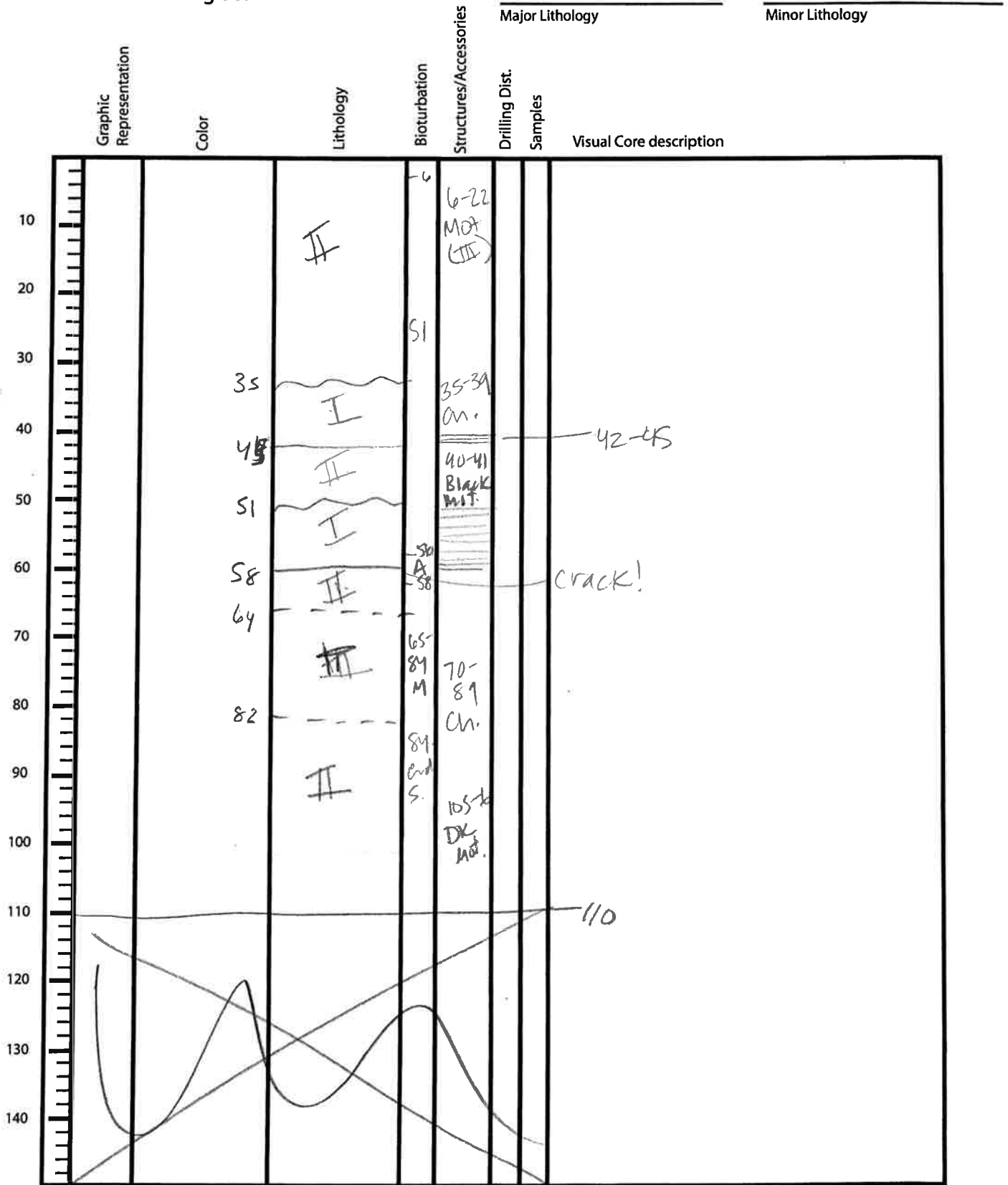
1342 C 1H 4  
Site Hole Core Section Top Depth



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

Expedition 323  
Bering Sea

Site 1342C Hole 1H Core 5 Section 5 Top Depth



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

X

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	U1342	C	1	H	1A	9cm	

Sediment/Rock Name	Diatom-beavy foram ooze	Observer	Beth
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B - 33  
S - 35 (20 = Carbonate?)  
V - 12

Percent Texture		
Sand	Silt	Clay

Comments:

2ndary lith

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
2	Quartz
5	Feldspar
	K-feldspar (Orthoclase, Microcline...)
3	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
5	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
20	Calcite <del>not</del> authigenic
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
12	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
40	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
1	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
10	Centric
	Pennate
	Chaetoceros Resting Spores
3	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	1342	C	1	H	1	45	

SM

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

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
25	Quartz
10	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
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

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

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	C	1	H	3A	120	

Sediment/Rock Name	diatom rich clayey silt.	Observer	AKIWA
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Percent Texture		
Sand	Silt	Clay

Comments:

FORAM AND DIATOM RICH SILT

Percent	Component	
<b>SILICICLASTIC GRAINS/MINERAL</b>		
Framework minerals		
10% 25	Quartz	5 10%
	Feldspar	
5%	K-feldspar (Orthoclase, Microcline...)	8%
	Plagioclase	
2%	Rock fragments	3% 35%
Accessory/trace minerals		
	Micas	
	<del>X</del> Biotite	
	<del>X</del> Muscovite	
5% 15	Clay Minerals	3 8%
	<del>X</del> Chlorite	
	Glaucanite	
	Chert	
	Zircon	
	Ferromagnesium minerals	
Authigenic minerals		
	Barite	
	Phosphorite/Apatite	
	Zeolite	
Opaque minerals		
2% 5	Pyrite	3%
	Magnetite	
	Fe-oxide	
Carbonates		
3%	Calcite	5%
	Dolomite	
<b>VOLCANICLASTIC GRAINS</b>		
	Crystal grain	
10% 15	Vitric grain	3 10%
	Lithic grain	

Percent	Component	
<b>BIOGENIC GRAINS</b>		
Calcareous		
10% 10	Foraminifera	2 10%
	Planktonic foraminifera	
	Benthic foraminifera	
Nannofossils		
	Coccoliths	
	Discoasters	
	Pteropods	
Siliceous		
	<del>X</del> Radiolarians	
	Spumellaria	
	Nassellaria	
15% 35	Diatoms	7 24%
	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	

100:68 =

100/68  
340/15



X

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1362	C	1		4	140	

Sediment/Rock Name	<del>FORAM + DIATOM RICH CLAYEY SILT</del>	Observer	IWA
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~~FORAM~~ & DIATOM-BEARING  
FORAM-RICH  
CLAYEY SILT

Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
7%	5 Quartz
	Feldspar
15%	10 K-feldspar (Orthoclase, Microcline...)
13%	10 Plagioclase
	Rock fragments
	Accessory/trace minerals
5%	3 Micas
	Biotite
	Muscovite
20%	15 Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	2 Pyrite
	Magnetite
	Fe-oxide
	Carbonates
7%	5 Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
15%	10 Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
3%	5 Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
7%	5 Centric
8%	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

Depth (m)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Samples	Major Lithology	Minor Lithology
								Visual Core description	
10	✓	10Y 4/1		✓					
20	✓	28			27				
30		5Y 4/2							
40	✓	42							
50	✓	10Y 4/1							
60	✓	59						69-80 lam	
70	✓	5Y 4/2						70-76 motu ✓	
80	✓	69						77-79 motu ✓	79.55 nanno-rich diatom ooze
90	✓	86	5Y 3/2 5Y 5/3	7m					
100	✓	94						96-98 motu ✓	
110	✓	99						99-107 ✓	103.55 <del>dark</del> brown lam silico-rich diatom ooze
120	✓	107						119-123 chondrites ✓	
130	✓	119							
140	✓								

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

7342 0 2 2 \_\_\_\_\_  
 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	
10-36	✓	5Y 4/2		m ✓					
36-81	✓	36							78-27 shell fragment scatter mollusca.
81-130	✓	10Y 4/2		5 ✓	sandy				
130-138	✓	5Y 4/2		m					dark ✓
138-142	✓	14.2 5Y 4/2		HA					lam with 5Y 4/3 5Y 5/3

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

Expedition 323  
Bering Sea

1342 Site    C Hole    2 Core    3 Section    \_\_\_\_\_ Top Depth

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology
							Visual Core description	
0-10	✓	6						
10-20	✓							
20-30	✓							
30-40	✓							
40-50	✓	45						
50-60	✓	50						
60-70	✓	62		nk			66-67. white ? -55 fine ash	60 cm 55 diatom-bearing silty clay
70-80	✓							
80-90	✓	80					87-92. chond. ✓	
90-100	✓	95					<u>95-125 lam</u>	
100-110	✓							
110-120	✓							
120-130	✓	125						
130-140	✓	136						
140-150	✓			m				

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

Expedition 323  
Bering Sea

1342 C 2 4  
 Site Hole Core Section Top Depth Scale

Depth (m)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
								Visual Core description	
10	✓	5Y 4/2							
13	✓	13							13-17. chond. ✓
20	✓	10Y 4/1							
32	✓	32							
50				✓					
58		5Y 4/2		m					
90	✓	90			90				
107	✓	10Y 4/1		✓					
132					132				
140	✓	140		m					

50m site

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

Expedition 323  
Bering Sea

1342 C 2 5  
Site Hole Core Section Top Depth Scale

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
								Visual Core description	
10	✓	54 4/2							
20	✓	18							
30	✓	54 34 4/2							
40	✓	47 50 4/2							
50	✓								
60	✓			✓					
70	✓	70		✓					
80	✓	76 80							
90	✓								90-98 chond. ✓
100	✓	98			98				98-123 lam ✓
110	✓	57 4/3		✓					
120	✓	123		5					
130	✓	134			134				
140	✓								

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

Expedition 323  
Bering Sea

1342 C 2 6  
Site Hole Core Section Top Depth Scale

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
								Visual Core description	
10	✓								
17	✓	17							
25	✓	25							
33	✓	33		m					
40	✓								<u>33-49<sup>✓</sup> lam</u>
49	g	49							
67	m	67							67-89 mott <sup>✓</sup> ash.
80	✓								90-91 pebb <sup>✓</sup> basaltic Lcr
129	✓	129							
134	✓	134							<u>134 - Sec<sup>✓</sup> 79</u> <u>lam</u>

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

Expedition 323  
Bering Sea

1342 Site    C Hole    2 Core    7+CC Section    Top Depth    Scale

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
								Visual Core description	
10	✓			5					
20	✓	20							
30	✓								
36	✓	36							
40	✓			5					
50	✓								
58	✓	58							dark
65	✓								58-65 lar ✓
70	✓	4							65
80									10.
90									
100									
110									
120									
130									
140									

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



Expedition 323  
Bering Sea

1342  
Site

Hole

2  
Core

all  
Section

Top Depth

Major Lithology

Minor Lithology

Graphic Representation

Color

Lithology

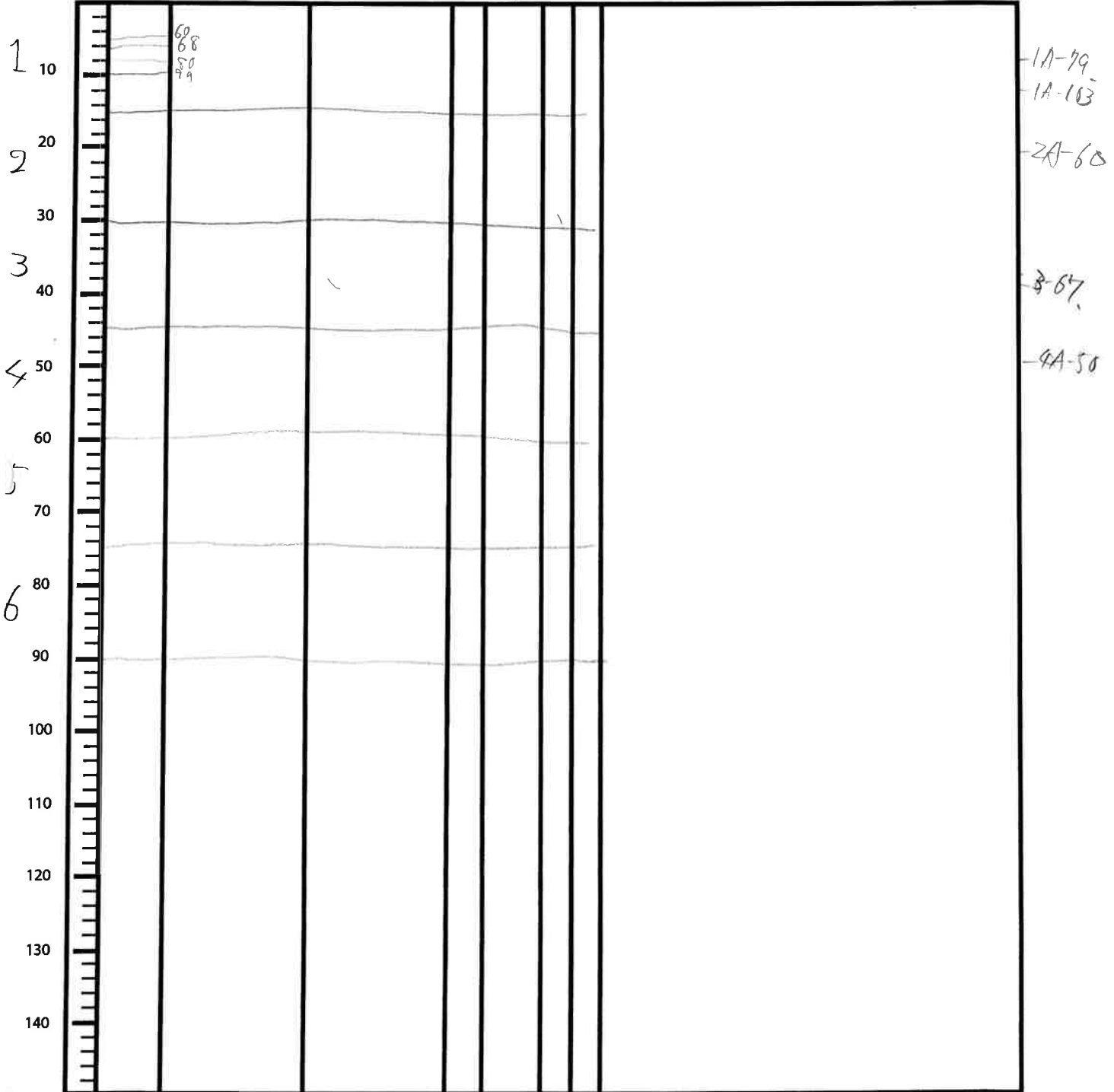
Bioturbation

Structures/Accessories

Drilling Dist.

Samples

Visual Core description



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

X

2M

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1242	C	2		1	103	

Sediment/Rock Name	SILICOFAGELLATE-RICH SLT/SH 0020	Observer	lwt
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Percent Texture		
Sand	Silt	Clay

Comments: BROWN LAMINA

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	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
7%	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
65%	Diatoms
30%	Centric
35%	Pennate
	Chaetoceros Resting Spores
8%	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
	1342	C	2	2		60 cm	

Sediment/Rock Name	Diatom-bearing silty clay	Observer	IWA
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Percent Texture		
Sand	Silt	Clay

Comments:

60

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
Framework minerals	
17	10 Quartz
8	5 Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
50	30 Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
8	5 Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
3	2 Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
5	3 Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
8	5 Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
Others	
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	C	211H	3A	67		

Sediment/Rock Name	ULTRIC FINE ASH	Observer	
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Percent Texture		
Sand	Silt	Clay

Comments: WHITE MATERIAL -

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
Framework minerals	
10%	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	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
85%	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
	<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

X

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
	1342	C	2	G	4	50m	

Sediment/Rock Name	SILT	Observer	lwt
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
40%	Quartz
30%	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10%	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
10%	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	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
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
5%	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
	1342	C	2		1	7	9

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

Comments:

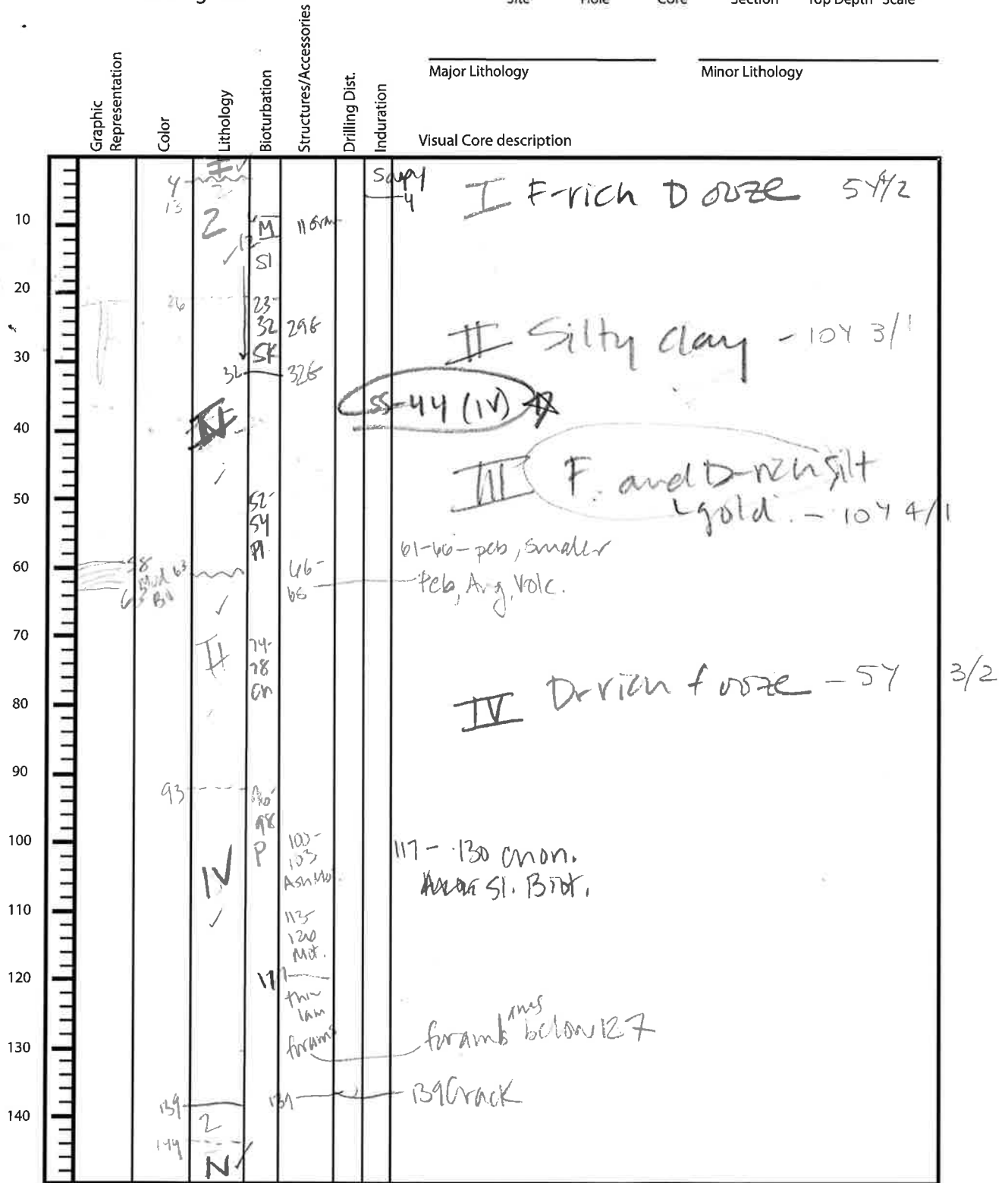
Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
6%	5 Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
4%	3 Zeolite
	Opaque minerals
6%	5 Pyrite
	Magnetite
	Fe-oxide
	Carbonates
6%	5 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%	10 Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
64%	Diatoms
26%	20 Centric
38%	30 Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

U1342C - 3H

Expedition 323  
Bering Sea

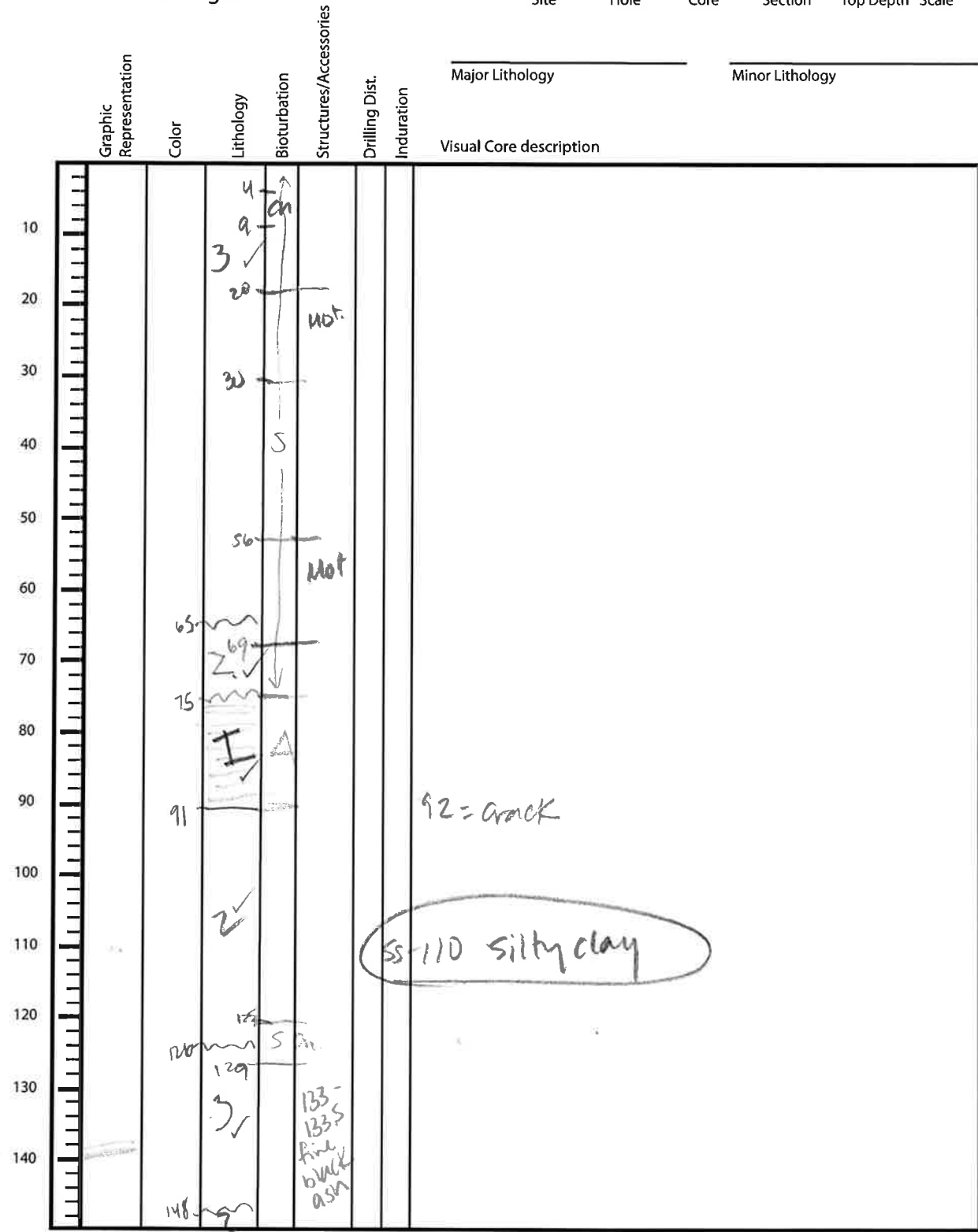
1342 C 3H 1  
Site Hole Core Section Top Depth Scale



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

Expedition 323  
Bering Sea

1342 Site    C Hole    34 Core    2 Section    \_\_\_\_\_ Top Depth    \_\_\_\_\_ Scale

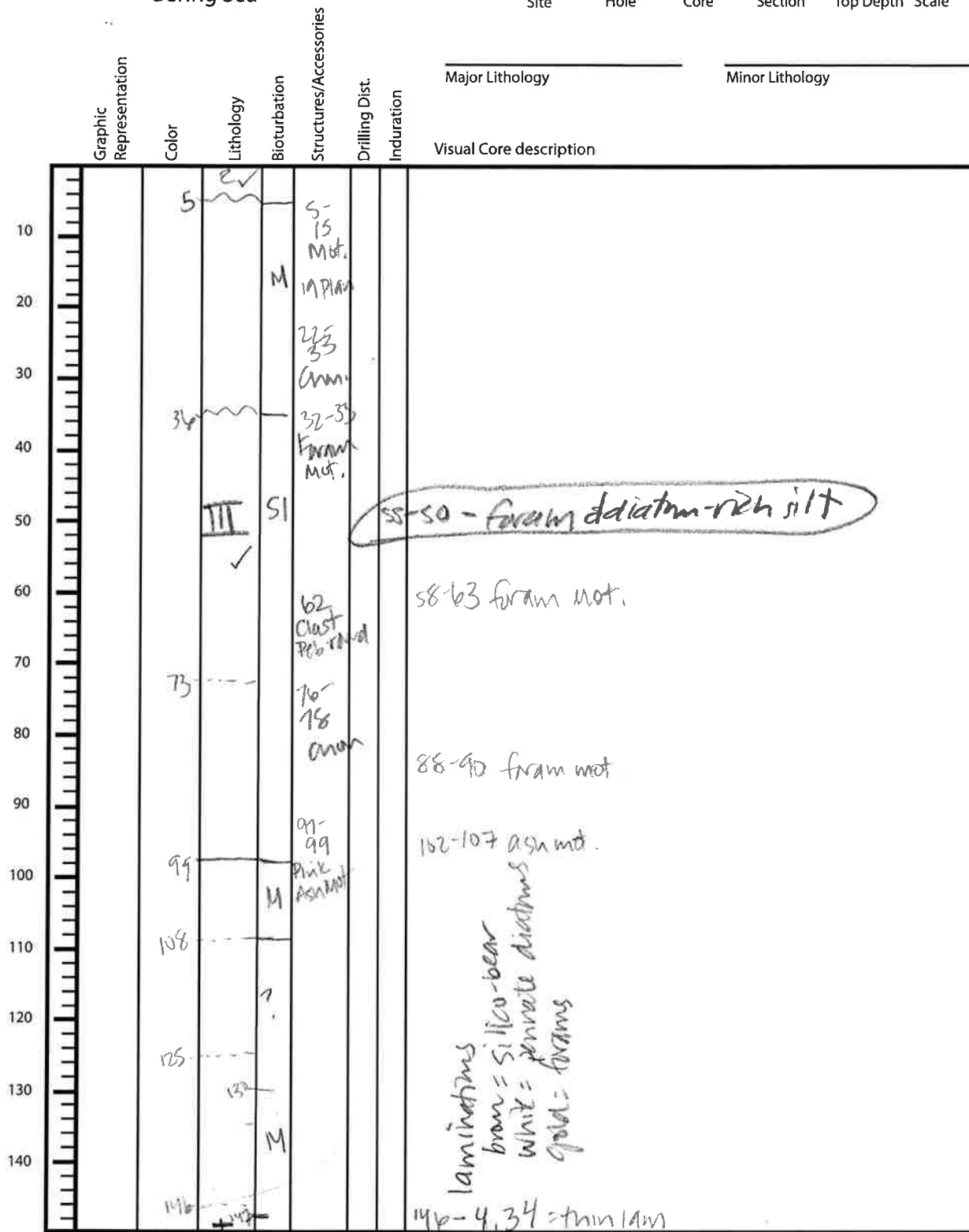


Observer: \_\_\_\_\_ Date: \_\_\_\_\_



Expedition 323  
Bering Sea

1342 C 34 3  
Site Hole Core Section Top Depth Scale



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

Expedition 323  
Bering Sea

1342 C 3H 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	
		I						
			A					
		34		lam				
			Z					
		50		48 Pk				
			I	M	67-72 x lam			
				A				
								8-89 fram-rich diatom ooze
				Five lam				
		104		105 Pk				
			Z	S				
		113		118- 129 Clast				
			3					
	130		130-136 Mat.					
		Z	S					
		✓ 140						

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

Expedition 323  
Bering Sea

1342 Site    C Hole    3H Core    5 Section    \_\_\_\_\_ Top Depth    \_\_\_\_\_ Scale

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
							Visual Core description	
		2		3 Mt				
				12 Mt				
	26		On M.					
				41				
		III						
				102-110			Mt. Silty clay & frags	
	81						91-95 Ash disseminated } Lith? 10YR 3/1 95-96 clear ash	
		2		89 P/B				
	104			112 P/B				
		4						
				121-129 P/B			frag.	

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

Expedition 323  
Bering Sea

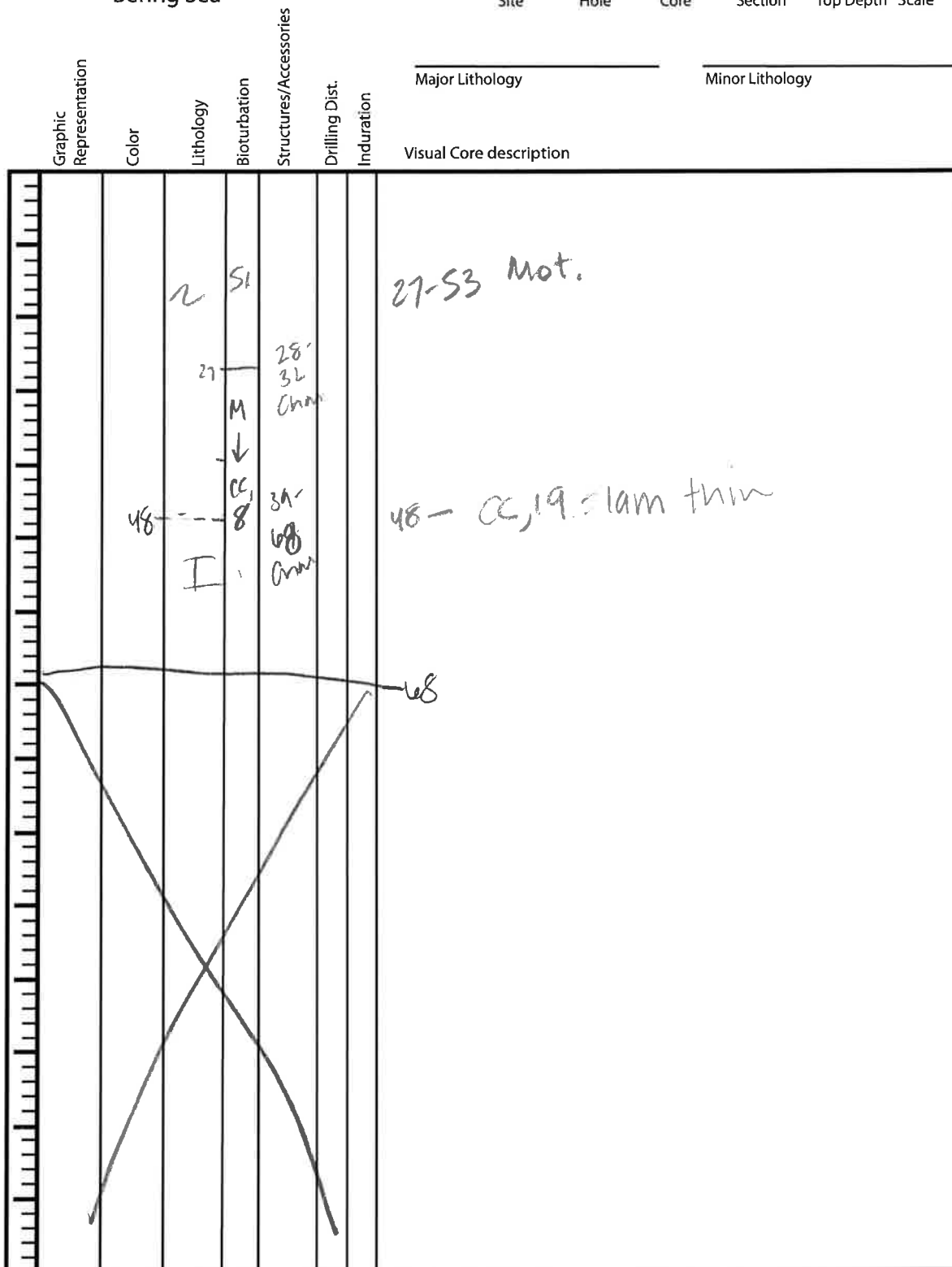
1342 C 3H b  
 Site Hole Core Section Top Depth Scale

	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology	Visual Core description
10			<del>IV</del>							
14			I		lam					11-30 = Ohm.
24										
30										
40			2							
50			✓							
60					St 60 Chm					
70			Asn							
80										Chaotic fine Asn Prot. 104 3/1
90			fs							
100										
110			2							
120										
130										
140										

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

Expedition 323  
Bering Sea

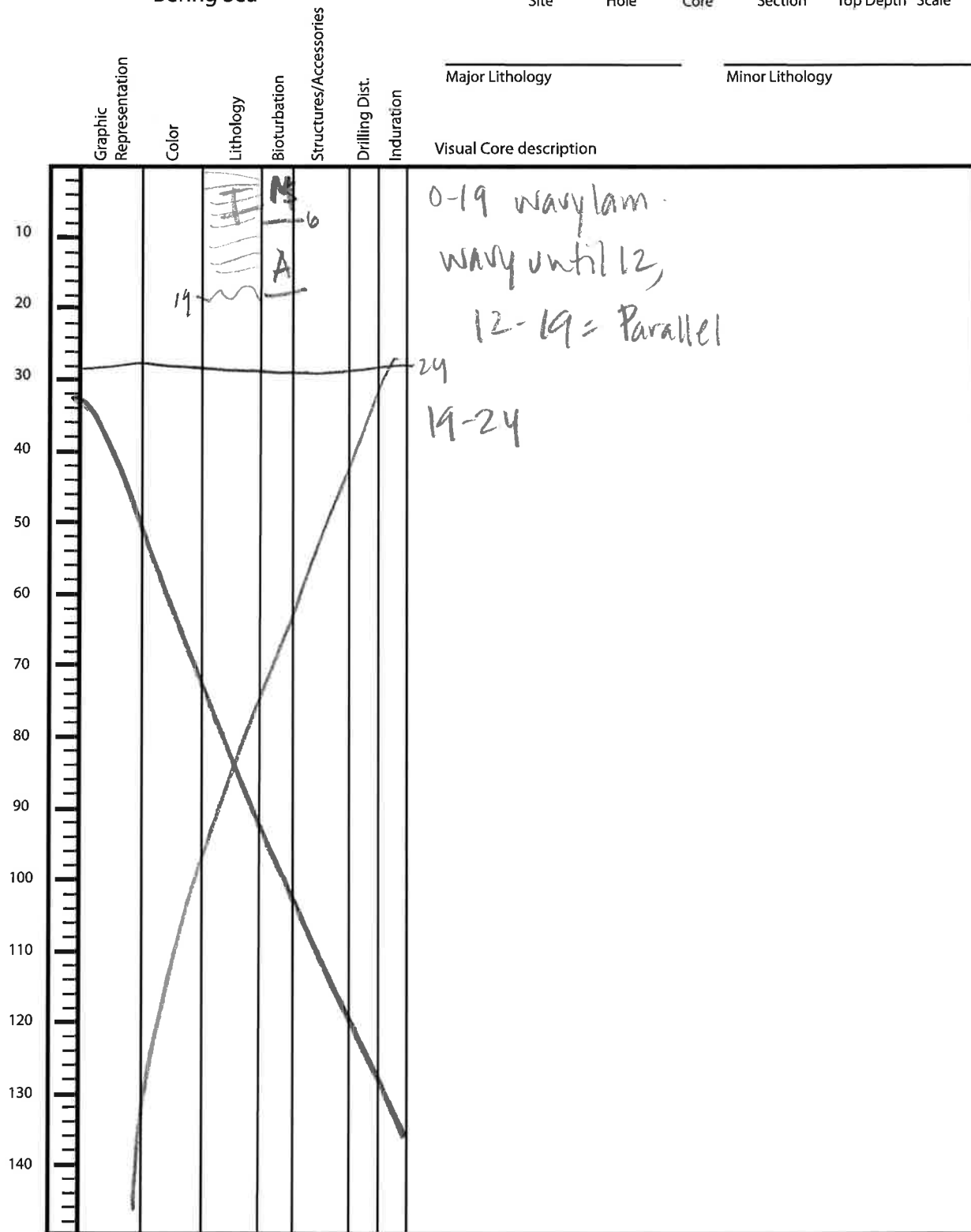
1342 C 34 7  
 Site Hole Core Section Top Depth Scale



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

Expedition 323  
Bering Sea

1342 C 3H CC  
Site Hole Core Section Top Depth Scale



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

#1

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	C	3	H	2A	110	

Sediment/Rock Name	Silty clay	Observer	AKITA
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Percent Texture		
Sand	Silt	Clay

Comments: Mjr Lith

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
Framework minerals	
14	Quartz 3
9	Feldspar 2
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
9	Rock fragments 2
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
45	Clay Minerals 70
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals 1
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
	Pyrite
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
9	Vitric grain 2
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
Calcareous	
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
Siliceous	
	Radiolarians
	Spumellaria
	Nassellaria
9	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	1342	C	3	H	3	50	

SM

Sediment/Rock Name	faram and diatom-rich site	Observer	akira
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Percent Texture		
Sand	Silt	Clay

Comments: 2ndary lith.

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
16	Quartz 3.3
16	Feldspar 3
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
11	Rock fragments 2
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
16	Clay Minerals 3
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
3	Pyrite 0.5
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
11	Crystal grain 2
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
	Foraminifera 3
16	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
3	Coccoliths 0.5
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
11	Diatoms 3.2
	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



17

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	C	3	H	4	89	

94

Sediment/Rock Name	foraminifera-rich diatom ooze.	Observer	Akiwa
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Percent Texture		
Sand	Silt	Clay

Comments:

MJR LTR

Percent	Component
<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
	Glaucinite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
2	Pyrite 0.5
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
11	Vitric grain 3
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
11	Foraminifera 3 <i>Agonostoma</i>
	Planktonic foraminifera
	Benthic foraminifera
	✓ Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
73	Diatoms <del>25</del> 20
	Centric ✓
	Pennate
	<i>Chaetoceros</i> Resting Spores
4	Silicoflagellates ✓ <del>25</del> 1
	Sponge spicules
	Dinoflagellates
	Others
	Pollen
	Organic debris
	Plant debris
	Ebridians
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bryozoans
	Bivalves
	Others

Not yet entered in.

Expedition 323  
Bering Sea

Site 1342 Hole 4C Core 1-2 Section \_\_\_\_\_ Top Depth \_\_\_\_\_ Scale \_\_\_\_\_

1

2

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology	Visual Core description
13	5Y 4/3								5Y 4/3 - OLIVE { FORAM-BEARING DIATOM JOZE
28	5Y 3/1								5Y 3/1 VERY DARK GREENISH GRAY { FORAM & DIATOM BEARING CLAYEY SILT AND FORAM-RICH CLAY
34	5Y 4/3	ASH							35 cm, gravel
58	5Y 4/1								57 cm, ss DARK GRAY COARSE ASH
68	5Y 3/1								59 cm, gravel
87	5Y 3/2								
120	5Y 3/1								
148	5Y 3/2								140 cm ss FORAM-RICH DIATOM-RICH CLAY
12	5Y 3/1								
26	5Y 3/2								
69	5Y 3/1								50 ft
100	5Y 4/3								SKOLITHOS & CHONDRITES!
114									114 cm, ss OLIVE FORAM-BEARING DIATOM JOZE
125-129									125-129 cross-lamination
130	5Y 3/1								

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

1341A upper part

4/3 = 0.111

Expedition 323  
Bering Sea

1342 4C 3-4  
Site Hole Core Section Top Depth Scale

3

4

Depth (cm)	Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
								Visual Core description	
10	23	5G4 3/1	20	K					
20	44	5G4 4/3	30						Mottles SK
30	72	5G4 3/1	70						
40	87	5G4 3/2	81	K					79 cm gravel
50	102	5G4 4/3							
60	154	5G4 3/1							
70		5G4 3/2							37 cm gravel
80	41	5G4 3/1							
90	50	5G4 3/2							BASALT, SUB-ANGULAR
100	58	5G4 3/1	87						13 cm gravel
110	68	5G4 3/1	100	K					
120	93	5G4 3/2							

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

Expedition 323  
Bering Sea

1347 4C 5-0CC  
 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		5Y 4/3								
20										
30										
40	90	5Y 3/1								
50										
60										
70										
80	33	5Y 3/2								
85	41	5Y 3/1								
90	50	5Y 3/2								54 - DARK ASH,
95	62	5Y 3/1								63 cm, pebble
100	80	5Y 3/2								98 DARK GRAY ASH
110	118	5Y 3/1								125 cm Foam & Ducton - SEATTLE 2004 SILT
120										
130	16 23	5Y 3/2								15 - DARK ASH
140										

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

SM

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1340	C	4	H	1	57	

Sediment/Rock Name	Coarse ash.	Observer	Akima
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<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
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
100	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
	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	01302	C	4	H	1	140	cm

Sediment/Rock Name	Diatom-rich, Foram-rich, clay.	Observer	GB.
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Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
5	X Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
1	X 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
2	X Pyrite
	Magnetite
5	X Fe-oxide Hematite + others
	Carbonates
47	X Calcite Broken Forams
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
20	Foraminifera
	X Planktonic foraminifera
	X Benthic foraminifera C.w.
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
10	X Diatoms
	Centric
	X 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	01342	C	4	H	2	114	cm

Sediment/Rock Name	Diatom ooze (w/ Broken Forams)	Observer	G.B.
--------------------	--------------------------------	----------	------

Foram. missing

Percent Texture		
Sand	Silt	Clay

Comments:

Percent	Component
<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
	Glaucinite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
20	X Calcite Broken Forams
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b>	
	Calcareous
5	X Foraminifera
	Planktonic foraminifera
	X Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
70	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

SM

IODP Expedition 323  
SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
393	1342	C	4	H	6	125	

Sediment/Rock Name	foram and diatom-bearing clayey site	Observer	Akiva
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Percent Texture		
Sand	Silt	Clay

Comments:

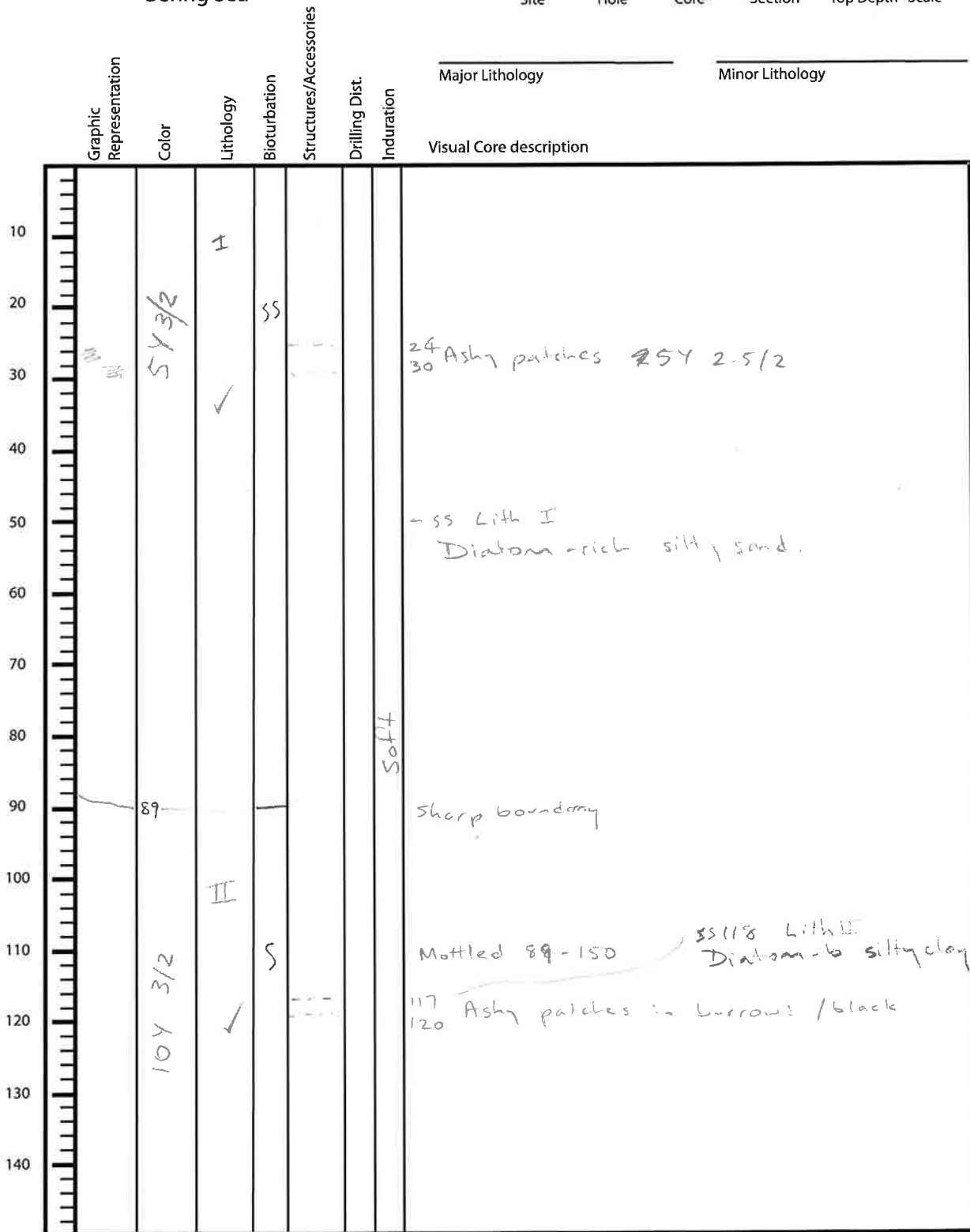
Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
Framework minerals	
19	Quartz 7
14	Feldspar 7.5
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments 2
Accessory/trace minerals	
	Micas
	Biotite
	Muscovite
19	Clay Minerals 7
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
Authigenic minerals	
	Barite
	Phosphorite/Apatite
	Zeolite
Opaque minerals	
6	Pyrite 2
	Magnetite
	Fe-oxide
Carbonates	
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b>	
6	Crystal grain 2
	Vitric grain
	Lithic grain

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



Expedition 323  
Bering Sea

1342 Site    C Hole    5 Core    1 Section    \_\_\_\_\_ Top Depth    \_\_\_\_\_ Scale



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

Expedition 323  
Bering Sea

1342 Site      C Hole      5 Core      2 Section      \_\_\_\_\_ Top Depth      \_\_\_\_\_ Scale

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology	Visual Core description
		II							
	5Y 4/2	III	SS						17 Gradational boundary Bioturbated top of <u>III</u> SS 24 Lith III Sponge-b diatom-r sand
									37
			SS						Mottled throughout (37-113) black /grey /green
	5Y 3/2	IV	S						70
									80
	5Y 3/2	IV	SS	↑ f					87-102 Skolithos
									SS 102 Lith IV Diatom-bearing sand
									110 Gradational boundary
									113
	5Y 3/2	IV							115 Skolithos burrow 116-127

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

Expedition 323  
Bering Sea

1342 Site    C Hole    5 Core    3 Section    \_\_\_\_\_ Top Depth    \_\_\_\_\_ Scale

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
							Visual Core description	
10		IV	SS				Skolithos	2-12
20								
30							31-42	Skolithos
40								
50							53-65	Skolithos
60								
70						soft		
80							Mottled - thin bedded throughout	
90								
100								
110								
120	SY 3/2	✓					117 Ash patches	SY 7/1
130								
140								

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

Expedition 323  
Bering Sea

1342 Site    C Hole    5 Core    4+5 Section    \_\_\_\_\_ Top Depth    \_\_\_\_\_ Scale

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist.	Induration	Major Lithology	Minor Lithology
							Visual Core description	
10		TV						As for section 3
20								mottled to thin bedded
30	U							- beds shown by change in
40			SS					colour and grain size
50								
60								Skeletal remains 52-59 + 145-150
70	U	✓						
80								
90								
100								
110								SS 98 - green lam - diatom ooze
120								+ 112-121
130			S					Lamination 98-104 Dark sandy layers
140			SS					+ SY 4/3 lamina
150								Skeletal burrows 109-112
								Clast 123 1cm rounded, platy w/stone
								% of slightly less sandy sed ↑
								from 121 to end of core

Sect IV  
Sect V

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

SS117  
Lith IV -  
burrows?  
sand

Expedition 323  
Bering Sea

1342 C S 6-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	
		IV					0-80 Lith IV	
U								
U		✓					52-55, 35-39 Skolithos	
			SS				Grad contact 72-82	
U		II				soft	80-135 Lith II (but slightly sandier)	
U		✓					Skolithos 83-86, 93-97	
							135-136 Lamination of unit II+IV	
		IV					135 - end of CC IV	
			SS					
U							40-46 Skolithos	
						S	Soupy in CC 0-30.	

Sect 6  
7  
63  
70  
CC  
30

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

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

SM

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	C	3	H	1	50	50

Sediment/Rock Name	Diatom rich silty sand	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay
60	40	

Comments:

Main lith

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
20	Quartz
10	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
30	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glaucinite
	Chert
	Zircon
2	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
1	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
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
30	Centric
5	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
2	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	1342	C	5	H	1	118	118

Sediment/Rock Name	Diatom bearing silty clay	Observer	Kellee
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Percent Texture		
Sand	Silt	Clay

Comments: Main lith.

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
10	Quartz
5	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
10	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
50	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
2	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
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
1	Radiolarians
	Spumellaria
	Nassellaria
10	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
2	Sponge spicules - frizbees
	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	1392	C	5	H	2	24	

Sediment/Rock Name	Sponge bearing - diatom rich sand	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay
70	20	10

Comments:

Main lith

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
5	Quartz
15	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
50	Rock fragments
	Accessory/trace minerals
10	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
1	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
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
1	Radiolarians
	Spumellaria
	Nassellaria
15	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
5	Sponge spicules + Fibres
	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	1342	6	5	H	2	102	

Sediment/Rock Name	Diatom-bearing sand	Observer	Kelsic
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Percent Texture		
Sand	Silt	Clay
70		

Comments: Main lith

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
15	Quartz
5	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
50	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
5	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
	Ferromagnesium minerals
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<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
1	Radiolarians
	Spumellaria
	Nassellaria
10	Diatoms
	Centric
	Pennate
	Chaetoceros Resting Spores
	Silicoflagellates
3	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	1342	C	5	H	5	98	

Sediment/Rock Name	Diatom ooze	Observer	Kelsie
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Percent Texture		
Sand	Silt	Clay
5	85	10

Comments: Green laminations

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
10	Quartz
	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	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
10	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 mostly.
	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	1342	C	5	H	S	117	117

SM

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

Comments: spotty sand section.

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b>	
	Framework minerals
15	Quartz
20	Feldspar
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
60	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
2	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>	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
	Radiolarians
	Spumellaria
	Nassellaria
1	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

Expedition 323  
Bering Sea

1342 C 6H CC  
Site Hole Core Section Top Depth

Graphic Representation	Color	Lithology	Bioturbation	Structures/Accessories	Drilling Dist. Samples	Major Lithology	Minor Lithology	
						Visual Core description		
	N 2.5						sl (0-4cm)	
	10Y 4/1					0-16cm N 2.5 9-11cm pebble 16cm angular 2cm rounded Black (N 2.5) Basalt igneous rock		
							12-14cm sharp contact 10Y 4/1 → diatom site?	

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

SM

IODP Expedition 323  
 SEDIMENT SMEAR SLIDE WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
323	1342	C	6H		CC	10	10

Sediment/Rock Name	Diatom-rich Sandy Site	Observer	Hiro.
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Percent Texture		
Sand	Silt	Clay
20	60	10

Comments:

Percent	Component
<b>SILICICLASTIC GRAINS/MINERAL</b> 63% 57%	
	Framework minerals
29% 34%	Quartz 10
14% 15%	Feldspar 5
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Accessory/trace minerals
	Micas
	Biotite
	Muscovite
	Clay Minerals
	Chlorite
	Glauconite
	Chert
	Zircon
14% 15%	Ferromagnesium minerals 5
	Authigenic minerals
	Barite
	Phosphorite/Apatite
	Zeolite
	Opaque minerals
	Pyrite
	Magnetite
	Fe-oxide
	Carbonates
	Calcite
	Dolomite
<b>VOLCANICLASTIC GRAINS</b> 6%	
1% 2%	Crystal grain
	Vitric grain
	Lithic grain

Percent	Component
<b>BIOGENIC GRAINS</b> 37%	
	Calcareous
	Foraminifera
	Planktonic foraminifera
	Benthic foraminifera
	Nannofossils
	Coccoliths
	Discoasters
	Pteropods
	Siliceous
27% 1	Radiolarians
	Spumellaria
	Nassellaria
	Diatoms
29% 10	Centric
6% 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