CORE LOG

CORE ID MV1014-02-12JC

SHEET 1 of 11

Lat. 0° 28.236' S

Long. 86° 2.935' W

Water Depth 2821 M

Described by HF

Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
0–54.5	5Y6/2															X					
																				X	
	ss				R	A		R	X	R	B				X						
54.5–62.2	5Y5/3	X													X					X	

Remarks

Date Open & Desc. 11/02/2010

Interval Depth 0-62.2 cm

0-54.5 cm
Top 20 cm wet.
Light olive gray (5Y6/2) clay grading to silt by 30 cm. Foram rich ooze with common mottles.
Faint ashy bands throughout interval.

54.5-62.2 cm
Olive (5Y5/3) silty foram rich ooze.
Bioturbated.

density sample taken at sea:
20-22 cm

ss: 30 cm
rare foram fragments, volcanic ash, and discoasters

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare

Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)

ss-smear slide

CORE LOG

CORE ID: MV1014-02-12JC

SHEET 2 of 11

Lat. 0° 28.236' S

Long. 86° 2.935' W

Water Depth 2821 M

Described by HF

Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
60–82	5Y5/3														X					X	
82–90	5Y6/2	X		X											X					X	
90–133	5Y4/3 ss				C	A		X	A	R	B				X					A	
133–213.4	5Y5/3	X													X					C	

Remarks

Date Open & Desc. 11/02/2010

Interval Depth 62.2-213.4 cm

62.2-82 cm
Olive (5Y5/3) silty clay. Foram rich ooze with mottles and burrows.

82-90 cm
Pale olive (5Y6/3) silty foram rich ooze. Bioturbated.

90-133 cm
Olive (5Y4/3) silty foram rich ooze with burrows and abundant mottles.

133-213.4 cm
Olive (5Y5/3) silty foram rich ooze with common mottles.

density samples taken at sea:
82-84, 182-184 cm

ss: 112 cm
common foram fragments, diverse diatoms, rare silicoflagellates and dinoflagellates

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare

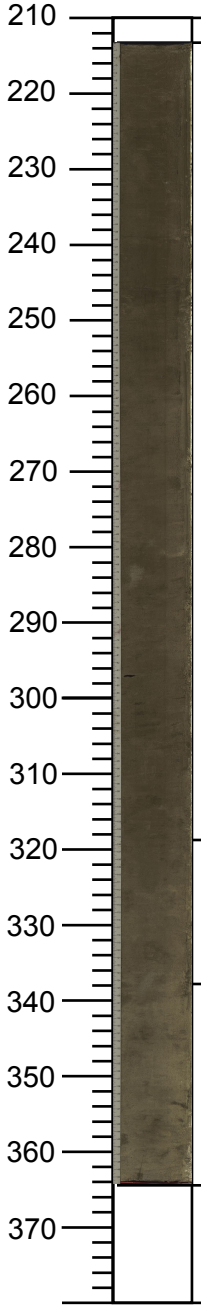
Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)

ss-smear slide

CORE LOG

CORE ID	MV1014-02-12JC
SHEET	3 of 11
Lat.	0° 28.236' S
Long.	86° 2.935' W
Water Depth	2821 M
Described by	HF



Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
210–370	ss				X	A		X	A	X/C	B										
210–370	5Y5/3														X					X	
320–340	5Y5/4			X											X	X				X	
340–370	5Y6/3			X												X				C	

Remarks

Date Open & Desc.	11/02/2010
Interval Depth	213.4-364.7 cm

213.4-319 cm
Olive (5Y5/3) silty foram rich ooze with mottles and burrows.

319-338 cm
Olive (5Y5/4) silty foram rich ooze grading to silty clay. Mottled.

338-364.7 cm
Pale olive (5Y6/3) silty clay. Foram rich ooze with common mottles.

density samples taken at sea:
233-235, 333-335 cm

ss: 233 cm
silicoflagellates rare to present, diverse diatoms

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare
Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)
ss-smear slide

CORE LOG

CORE ID: MV1014-02-12JC

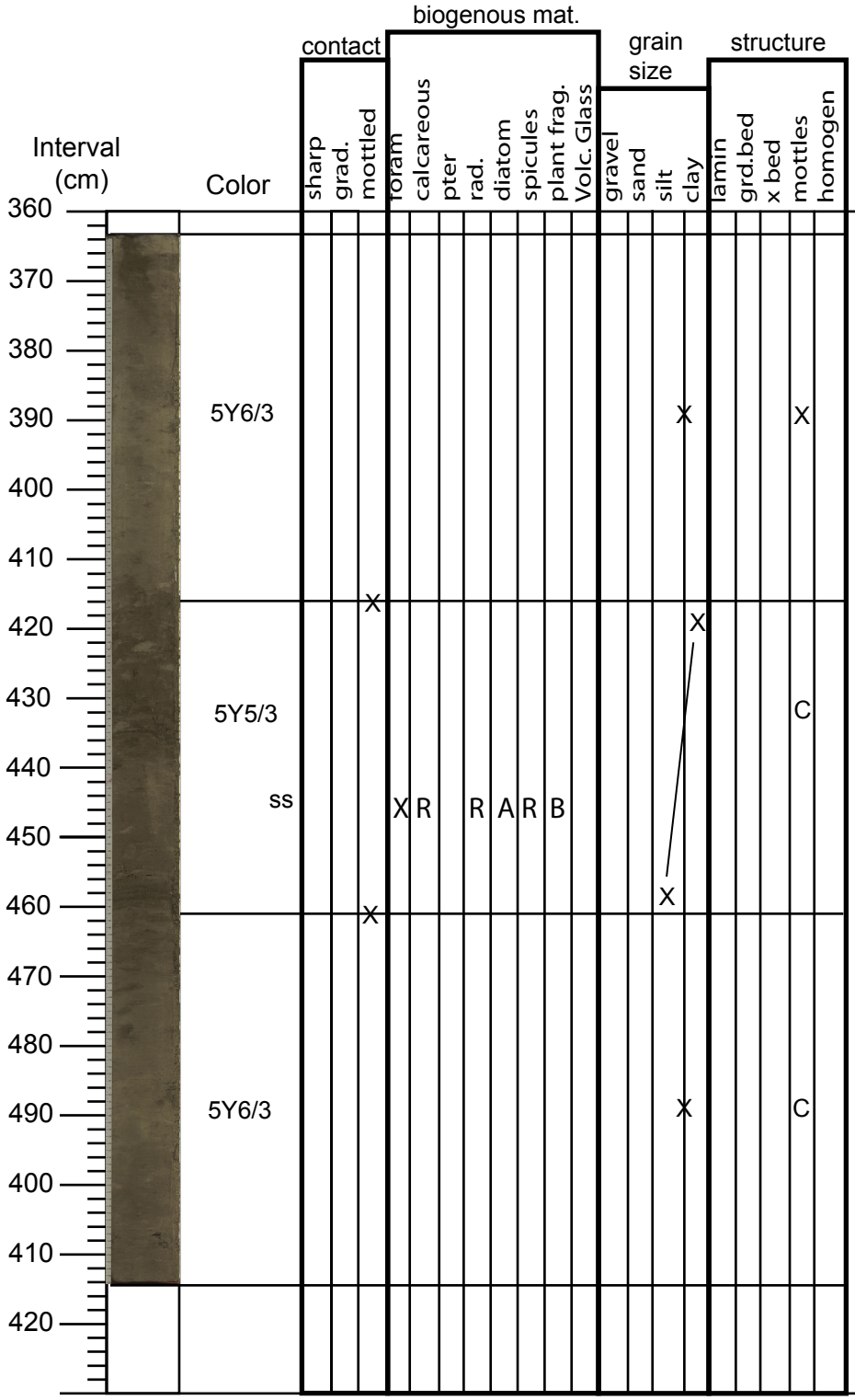
SHEET 4 of 11

Lat. 0° 28.236' S

Long. 86° 2.935' W

Water Depth 2821 M

Described by HF



Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
360–420	5Y6/3															X				X	
420				X												X					
430–460	5Y5/3																			C	
440	ss				X	R		R	A	R	B				X						
460				X																	
470–420	5Y6/3															X				C	

Remarks

Date Open & Desc. 11/02/2010

Interval Depth 364.7-515.7 cm

364.7-416 cm
Pale olive (5Y6/3) silty clay. Foram rich ooze with mottles. Bioturbated.

416-461 cm
Olive (5Y5/3) clay grading to silt. Foram rich ooze with common mottles and burrows, especially from 420-440 cm.

461-515.7 cm
Pale olive (5Y6/3) silty clay. Foram rich ooze with common mottles.

density samples taken at sea:
385-387, 485-487 cm

ss: 445 cm
diverse diatoms, rare silicoflagellates

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare

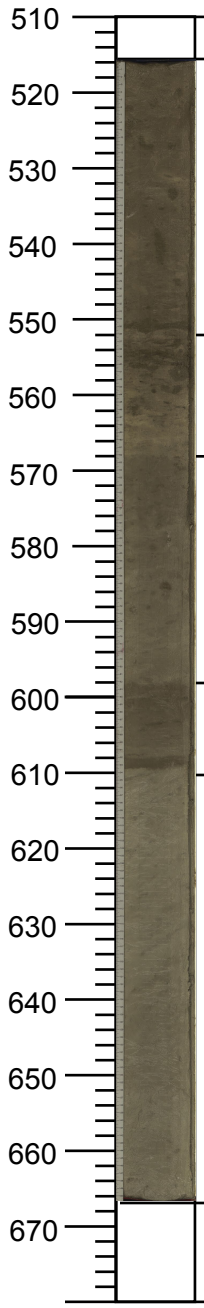
Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)

ss-smear slide

CORE LOG

CORE ID	MV1014-02-12JC
SHEET	5 of 11
Lat.	0° 28.236' S
Long.	86° 2.935' W
Water Depth	2821 M
Described by	HF
Date Open & Desc.	11/02/2010
Interval Depth	515.7-667.1 cm



Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
515.7-552	5Y5/3															X				X	
552-568	5Y5/2	X													X					A	
568-598	5Y6/2	X														X				X	
598-610	5Y5/2	X														X					X
610-667.1	5Y6/2 ss	X			X	R		R	A	X	B										
	5Y6/1 ss	X			C	A		X	A	X	B										
	5Y6/1															X				X	

Remarks

515.7-552 cm
Olive (5Y5/3) silty clay. Foram rich ooze with mottles. Bioturbated.

552-568 cm
Olive gray (5Y5/2) silty foram rich ooze with abundant mottles.

568-598 cm
Light olive gray (5Y6/2) silty clay. Foram rich ooze with mottles.

598-610 cm
Olive gray (5Y5/2) silty foram rich ooze. Darker band (horizontal burrow?) from 608-609.5 cm.

610-667.1 cm
Gray (5Y6/1) clay. Foram rich ooze with light colored burrows, bioturbated.

ss: 606, 611 cm
diverse diatoms, silicoflagellates rare at 606 cm, present at 611 cm

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare
Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)
ss-smear slide

CORE LOG

CORE ID: MV1014-02-12JC

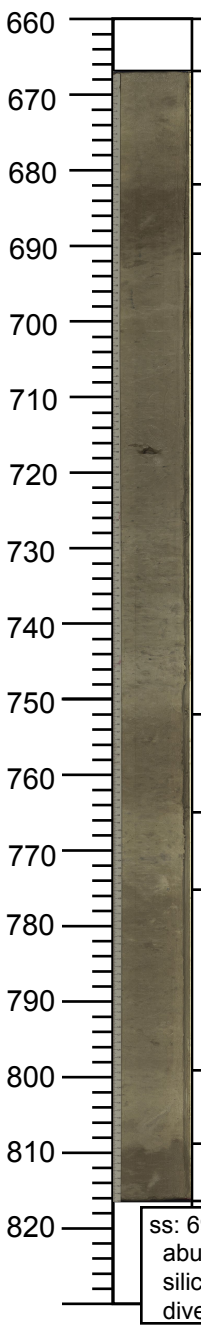
SHEET 6 of 11

Lat. 0° 28.236' S

Long. 86° 2.935' W

Water Depth 2821 M

Described by HF



Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
660–670																					
670–680	5Y7/1															X				X	
680–690	5Y5/3	X														X				X	
690–700	ss			X	C/A	A		R	A	X	B										
700–710	5Y7/1															X				X	
710–720																					
720–730																					
730–740	ss				C	A		R	A	X	B										
740–750																					
750–760	5Y5/3	X														X				X	
760–770	5Y7/1			X												X				X	
770–780	5Y6/2			X												X				X	
780–790																					
790–800																					
800–810	5Y7/1	X														X				X	
	ss				A	A		R/X	A	X	B										
810–820	5Y5/3	X														X				X	

ss: 691, 738, 807 cm
abundant foram fragments at 691 and 807 cm
silicoflagellates rare at 691 and 738 cm, rare to present at 807 cm
diverse diatoms and rare volcanic ash at 807 cm

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare
Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)
ss-smear slide

density samples taken at sea: 687-689, 787-789 cm

Remarks

Date Open & Desc. 11/02/2010

Interval Depth 667.1-816.6 cm

667.1-682 cm
Light gray (5Y7/1) clay. Foram rich ooze with mottles. Bioturbated.

682-691 cm
Olive (5Y5/3) silty clay. Foram rich ooze with mottles. Ash layer.

691-752 cm
Light gray (5Y7/1) clay. Foram rich ooze with mottles and horizontal burrows. Bioturbated.
Ash layers throughout. Glauconite.

752-765 cm
Olive (5Y5/3) silty clay. Foram rich ooze with mottles.

765-775 cm
Light gray (5Y7/1) clay. Foram rich ooze with mottles and burrows.
Ash layer. Glauconite.

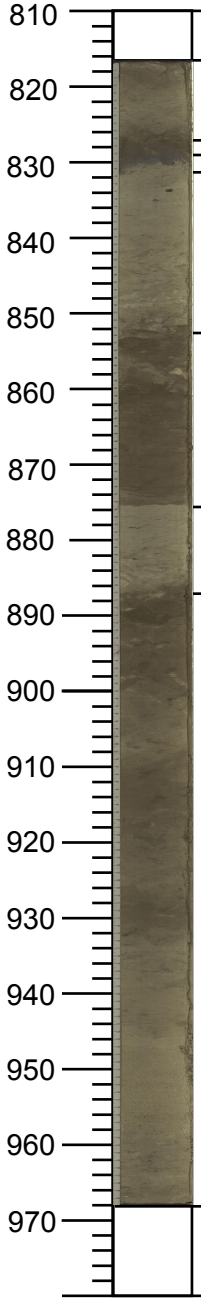
775-799 cm
Light olive gray (5Y6/2) clay. Foram rich ooze with mottles. Bioturbated.

799-809 cm
Light gray (5Y7/1) clay. Foram rich ooze with mottles. Bioturbated.

809-816.6 cm
Olive (5Y5/3) silty clay. Foram rich ooze with mottles.

CORE LOG

CORE ID	MV1014-02-12JC
SHEET	7 of 11
Lat.	0° 28.236' S
Long.	86° 2.935' W
Water Depth	2821 M
Described by	HF



Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
810–820	5Y6/2															X				X	
820–830	5Y5/3	X		X												X				X	
830	ss	X			B	B		B	B	B	B			X	X						X
830–840	5Y5/1	X																			
840–850	5Y7/2															X				X	
850–860	5Y5/4			X																	
860–870	5Y5/4															X				X	
870–880	5Y7/2	X																			
880–890	5Y7/2															X				X	
890–900	5Y6/2 & 5Y7/2			X																	
900–910	5Y6/2 & 5Y7/2															X					
910–920	5Y6/2 & 5Y7/2																			X	
920–930	5Y6/2 & 5Y7/2															X					
930–940	5Y6/2 & 5Y7/2															X					
940–950	5Y6/2 & 5Y7/2	X																			
950–960	5Y6/2 & 5Y7/2	X														X					X
960–970	5Y6/2 & 5Y7/2																				

Remarks

Date Open & Desc. 11/02/2010

Interval Depth 816.6-968.3 cm

816.6-827 cm
Light olive gray (5Y6/2) clay. Foram rich ooze with mottles. Bioturbated ash layers.

827-829 cm
Olive (5Y5/3) silty clay. Foram rich ooze with mottles.

829-831 cm
Gray (5Y5/1) silt. Ash layer?

831-852 cm
Light gray (5Y7/2) clay. Foram rich ooze with ash layers throughout. Glauconite.

852-876 cm
Olive (5Y5/4) silty clay. Foram rich ooze with mottles and burrows. Bioturbated.

876-887 cm
Light gray (5Y7/2) clay. Foram rich ooze with ash layers throughout. Glauconite.

887-968.3 cm
Light olive gray (5Y6/2) clay alternating with light gray silty clay. Foram rich ooze with mottles. Faint ash layers. Glauconite. Very wet from 945-959 cm.

density samples taken at sea:
837-839, 937-939 cm

ss: 830 cm
volcanic ash layer

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare

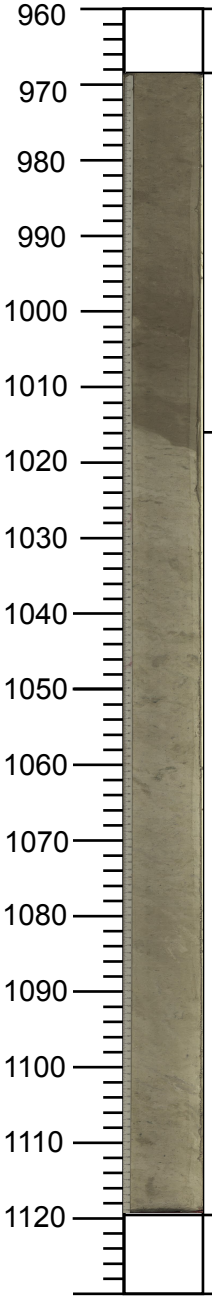
Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)

ss-smear slide

CORE LOG

CORE ID	MV1014-02-12JC
SHEET	8 of 11
Lat.	0° 28.236' S
Long.	86° 2.935' W
Water Depth	2821 M
Described by	HF



Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
960–1016	5Y6/2															X				X	
1016		X																			
1016–1120	10Y7/1															X				R	
1038	ss				C	A		R	C	R	B										
1090	ss				C	A		R/X	A	R	B										

Interval (cm): 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120

Remarks

Date Open & Desc. 11/02/2010

Interval Depth 968.3-1119.5 cm

968.3-1016 cm
Light olive gray (5Y6/2) silty clay. Foram rich ooze with mottles. Bioturbated. Smells like egg.

1016-1119.5 cm
Slanted contact from 1015-1019 cm.

Light greenish gray (10Y7/1) clay with few mottles.
Ash deposits throughout. Glauconite.

density samples taken at sea:
988-990, 1088-1090 cm

ss:1038, 1090 cm
common foram fragments, diverse diatoms, rare silicoflagellates

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare
Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)
ss-smear slide

CORE LOG

CORE ID: MV1014-02-12JC

SHEET 9 of 11

Lat. 0° 28.236' S

Long. 86° 2.935' W

Water Depth 2821 M

Described by

Date Open & Desc. 11/02/2010

Interval Depth 1119.5-1271.1 cm

Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
1120–1148	5Y7/1														X					X	
1148		X																			
1148–1182	5Y6/3														X					A	
1170	ss				C/A	A		R	A	X/C	B										
1182				X																	
1190	ss				X	A		R	A	X	B									X	
1220–1240	5Y7/1														X					R	
1260	ss				C/A	A		R/X	A	R/X	B										X

Remarks

1119.5-1138 cm
Light gray (5Y7/1) silt. Foram rich ooze with mottles. Bioturbated.

1148-1182 cm
Pale olive (5Y6/3) sandy silt with splotches of light gray (5Y7/1). Fine laminations from 1148-1153 cm. Heavily bioturbated.

1182-1271.1 cm
Light gray (5Y7/1) silt. Foram rich ooze with mottles decreasing downcore. Bioturbated.

ss:1170, 1190, 1260 cm
rare silicoflagellates, diverse diatoms, abundant foram fragments at 1170, 1260 cm, present at 1190 cm

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare

Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)

ss-smear slide

CORE LOG

CORE ID: MV1014-02-12JC

SHEET: 10 of 11

Lat.: 0° 28.236' S

Long.: 86° 2.935' W

Water Depth: 2821 M

Described by:

Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
1270–1420	5Y7/2														X					R	
1340	ss				C/A	A		R/X	A	X	B										
1380	5Y7/2														X						X

Remarks

Date Open & Desc.: 11/02/2010

Interval Depth: 1271.1-1422.4 cm

1271.1-1422.4 cm
Light gray (5Y72) sandy silt. Foram ooze moderately bioturbated. Few more mottles around 1330 cm.

Sulfur smell.

density samples taken at sea:
1291-1293, 1391-1393 cm

ss: 1341 cm
abundant foram fragments, diverse diatoms, rare silicoflagellates

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare

Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)

ss-smear slide

CORE LOG

CORE ID: MV1014-02-12JC

SHEET 11 of 11

Lat. 0° 28.236' S

Long. 86° 2.935' W

Water Depth 2821 M

Described by

Interval (cm)	Color	contact: sharp	contact: grad.	contact: mottled	biogenous mat.: foram	calcareous	pter	rad.	diatom	spicules	plant frag.	Volc. Glass	grain size: gravel	sand	silt	clay	structure: lamin	grd.bed	x bed	mottles	homogen
1420–1570	5Y7/2														X					R	
1530	ss				A	A		R	C/A	R	B										
1540–1570	5Y7/2														X						X

Remarks

Date Open & Desc. 11/02/2010

Interval Depth 1422.4-1571.3 cm

1422.4-1571.3 cm
Light gray (5Y72) sandy silt. Foram ooze moderately bioturbated, decreasing downcore. Horizontal burrow at 1455 cm. Slanted burrow from 1464-1468 cm. Slanted sediment bands from 1464-1542 cm, growing fainter downcore.

Sulfur smell.

density samples taken at sea:
1442-1444, 1542-1544 cm

ss: 1532 cm
rare silicoflagellates, diverse diatoms, abundant foram fragments

Fossils: X-Present C-Common B-Barren
A-Abundant R-Rare

Contacts: s-sharp; g-gradational; m-mottled

graded bed (turbidite)

ss-smear slide