



			SIT	E 929 H	OL	E	A CORE	2	Н		CORED 4.5 - 14.0 mbs
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}		{	1		1		~~~~~		S	2.5Y 6/1 10YR 5/2	CLAY WITH NANNOFOSSILS and NANNOFOSSIL CLAY WITH FORAMINIFERS General Description: This core contains gray (10YB 6(1)
	mun		Sector New Local Sector		2		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		ı S I	10YR 6/1	CLAY WITH NANNOFOSSILS and gray (2.5Y 6/1) and brown (10YR 5/2) NANNOFOSSIL CLAY WITH FORAMINIFERS. Fe oxide crusts occur in Section 1, 70 cm, at the base of a NANNOFOSSIL CLAY WITH FORAMINIFERS layer. The contact between the two major lithologies is sharp. Two turbidites of graded
}	man -	}	A the second sec		3	eistocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ΡI	2.5Y 6/1 To	Section 6, 90–93 and 109–111 cm. They have sharp bottom and gradational top contacts. The entire core is slightly bioturbated and soft from coring. Disseminated pyrite and Fe oxides occur throughout.
}	5	}	9		4	Ple			s I	10YR 6/1 2.5Y 6/1	
}	hame		ν		5					2.5Y 6/1 To 10YR 6/1	
3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	}	8						1	10YR 6/1	
>		}	6		6		3 † F		1	2.5Y 6/1 To 10YR 6/1	







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SITE 929 HOLE A CORE 4H CORED 23.5 - 33.0 mbsf Disturb Sample Natural Reflec- Magnetic Section Graphic Color Age Mete tance (%) suscepti-Description gamma Structure Lith. 5-(550 nm) bility² ray1 WW 10-NANNOFOSSIL CLAYEY MIXED 10YR SEDIMENT WITH FORAMINIFERS 5/1 2 and CLAY 15-Р 10YR General Description: 6/1 This core contains gray (10YR 6/1) NANNOFOSSIL CLAYEY MIXED P 10YR SEDIMENT WITH FORAMINIFERS 5/1 and gray (10YR 5/1) CLAY 4 F interbedded with gradational contacts. The entire core is slightly bioturbated and mottled. Disseminated Fe sulfide 2 and Fe oxide occur in mm- to cm-10YR scale bands throughout the core, and 6/1 Fe sulfide and Fe oxyhydroxide P ----nodules occur in some sections. Turbidite deposits occur in Section 2 at 34 cm, and in Section 4, at 114 and Ρ 50-3 136 cm. 55-10YR Pleistocene 5/1 P Ρ 60--10YR 6/1 65-_____ 70-10YR 4 F s 5/1 4 F 75-10YR P 80-6/1 10YR ****** Ρ 5/1 85-S 10YR 80-Р 5/1 To 95--10YR Ρ 6/1 100-105-******* P 10YR 110-6/1 Ρ Μ 115-

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SITE 929 HOLE A CORE 5H

Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structu	re	Disturb	Sample	Color	Description
	- Mr		Participation Contractor		1		P P P P P P P P P P P P P P P P P P P		:	1	10YR 5/1 10YR 6/1 10YR 5/1 10YR 6/1 10YR 5/1	CLAY WITH SILT and CLAY WITH FORAMINIFERS AND NANNOFOSSILS General Description: This core contains gray (10YR 6/1) CLAY WITH FORAMINIFERS AND NANNOFOSSILS and gray (10YR 5/1) CLAY WITH SILT interbedded with gradational contacts. The entire core is slightly bioturbated and mottled. Disseminated Fe sulfide and Eo wide descriptions to serve
	~~~~~~		1. 3 A		3	stocene	ллллллллллл. Р			I S I	10YR 5/1 To 10YR 6/1 10YR 6/1 10YR 5/1	Te oxide occur in min- to cm-scale bands throughout the core, and Fe sulfide and Fe oxyhydroxide nodules occur in some sections. A turbidite deposit occurs in Section 6 from 82 to 99 cm.
	~~~~		Sulling and sulling and		5	Plei	P 18			S I	10YR 6/1 10YR 5/1	
	- 1-		and a straight of the straight		6 7 CC		P	F		I	10YR 6/1 10YR 5/1 10YR 6/1 10YR 5/1	









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SITE 929 HOLE A CORE 7H Section Meter Graphic Age

Lith.

Sample

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Structure

Color

CORED 52.0 - 61.5 mbsf

929A-7H Description

SITE 929 HOLE A CORE 8H

CORED 61.5 - 71.0 mbsf

Natural Section Sample Graphic Color tance (%) suscepti-Age gamma Structure Distu Description Met Lith. ray¹ (550 nm) bility² 3 NANNOFOSSIL CLAY MIXED P 10YR SEDIMENT WITH FORAMINIFERS 5/1 P and NANNOFOSSIL CLAY S t. P 2.5Y General Description: B 6/1 This core contains gray (2.5Y 6/1) NANNOFOSSIL CLAY MIXED 10YR SEDIMENT WITH FORAMINIFERS S P 27 27 2 5/1 and grayish brown (10YR 5/1) 2.5Y NANNOFOSSIL CLAY, The 6/1 NANNOFOSSIL CLAY MIXED 2 P SEDIMENT contains small amounts P (5%) of silt-sized quartz grains. There 10YR is drilling slough in Section 1, 0-15 5/1 cm, but otherwise the core is 語様 undisturbed. The whole core is P slightly burrow mottled. Disseminated 2.5Y pyrite, as well as blebs and nodules 拉拉 P 3 6/1 of pyrite, are observed throughout the P 10YR core. Yellow-brown Fe oxide color 5/1 bands are visible at Section 2, 82-84 按 P 2.5Y cm, Section 3, 72-74 cm, Section 5, Ρ P 6/1 7-12 and 31-35 cm, and Section 6, late Pliocene 134-135 cm. 10YR 社会 5/1 P 2.2 2.5Y P 6/1 V L _ _ 10YR 5 5/1 22 P 2.5Y 6/1 P 10YR 5/1 P P 2.5Y P 6/1 P 10YR

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CORED 90.0 - 99.5 mbsf

929A-11H

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1	1		SIT	E 929 H	IOL	E	A CORE	1	3H		CORED 109.0 - 118.5 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	month when the and the second of the second				1 2 3 4 5 6	early Pliocene	= = ~	me m	S S	10YR 6/1 To 10YR 7/1	CLAYEY NANNOFOSSIL OOZE and NANNOFOSSIL CLAY MIXED SEDIMENT General Description: This core contains light gray (10YR 7/1) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS alternating with gray (10YR 6/1) NANNOFOSSIL CLAY MIXED SEDIMENT. About 1% silt-size quartz is present in the OOZE. The entire core is slightly bioturbated. Horizons with disseminated pyrite and yellow-brown Fe oxide bearing thin color bands are present in several sections of the core. In Section 6, 0–60 cm, and from Section 6, 90 cm, to Section 7, 22 cm, cm-scale light to dark color banding occurs. In addition, two thin layers of foraminifer sand occur in Section 6, 20–50 cm, which are distorted by differential friction due to coring. The uppermost and the lowermost parts of the core are moderately disturbed (slough) by drilling.

			SIT	E 929 H	HOL	EA	CORE	14	Η		CORED 118.5 - 128.0 mbsf	929A-14H 1	2	3	1	5
Natural gamma ray 1	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	aby Str	ucture	Disturb	Sample	Color	Description	5		B	4	
	- www.www.	10 15 S			1 2 3 4 5 6 7 CC	late Miocene		MM	S S	2.5Y 6/2 To 2.5Y 7/2 10YR 6/1 To 10YR 6/2 2.5Y 7/2 2.5Y 7/2	CLAYEY NANNOFOSSIL MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE General Description: This core contains light gray (10YR 7/1, 2.5Y 7/2) CLAYEY NANNOFOSSIL OOZE alternating with gray (10YR 6/1, 6/2) CLAYEY NANNOFOSSIL MIXED SEDIMENT. From Section 2, 125 cm, to the bottom of the core the sediment is slightly bioturbated. In the upper part of the core wavy and partially contorted cm-scaled color bands occur. In addition many offsets in these bands are present in Section 2. In Section 1, 0–50 cm, the sediment is filled with many pieces of crushed and broken liners, indicating heavy coring disturbance. The color bands in the upper sections could have been originally an interval of thin horizontal alternating beds subsequently compressed by the coring disturbance.	10 15 15 20 15 20 15 20 15 20 15 20 15 20 15 20 15 20 15 20 17 17 17 17 17 17 17 17 17 17				
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SITE 929 HOLE A CORE 17X CORED 147.1 - 156.8 mbsf Reflec- Magnetic Structure Natural Graphic Lith. Sample Color gamma tance (%) suscepti-Description Met (550 nm) ray¹ bility² NANNOFOSSIL CLAY and CLAYEY NANNOFOSSIL OOZE General Description: This core contains light gray (2.5Y 7/2) CLAYEY NANNOFOSSIL OOZE to NANNOFOSSIL CLAYEY MIXED 10YR 6/2 (10YR 6/2) NANNOF OSSIL CLAY with sharp scoured contacts. The top 3 of the light gray interval is marked by a thin cm-thick layer of s FORAMINIFER OOZE, which might indicate a turbidite deposit or -** winnowing. In addition, two other u mm-scale bands of foraminifer ooze occur in Section 4 at 10 and 50 cm. 33 A clay-rich band occurs within the **** 3 light gray sequence in Section 3 at 30–50 cm and is represented by an M individual thick color band in the structure column. The entire core is Ň ate 33 moderately bioturbated and mottled, Z 33 and the top 10 cm of the core is 33 2.5Y 7/2 moderately disturbed by drilling. 33 33 S 33 33 33 33 33 33 33 S w N 25 33 33 33 10YR 6 33 6/2 33 33 М 0 20 20 30 20 40 0







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			SIT	E 929 F	IOL	E	A CORE	1	9X		CORED 166.4 - 176.1 mbsf
Natural gamma ray 1	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
- And a start -	My Monthe manune -	from more -			1 2 3 4 5 CC	late Miocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	w	S	7.5YR 6/2	CLAY WITH NANNOFOSSILS General Description: This core consists entirely of pinkish gray (7.5YR 6/2) CLAY WITH NANNOFOSSILS. The sediment is extremely uniform in color and composition, showing very few structures and other features. This uniformity is remarkable in that no other Ceara Rise cores have failed to show cyclicity on cm- to dm-scales. The core appears to be slightly bioturbated, and the upper 6 cm of Section 1 is obviously drilling disturbed (flow-in).

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Natural Reflective (storm) Country				SITE	929 H	OLE	AC	CORE	20X		CORED 176.1 - 185.7 mbsf	929A-20X 1	2	3	4 5	6	7
Image: Second	Natura gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	iraphic Lith.	Section	Stru	icture	Disturb Sample	Color	Description	5-					
		Mundamen Mundament Mundament -2	www.www.www.			1 2 3 4 5 6 7 CC	Alianning alian	255 255 255 255 255 255 255 255 255 25	S	7.5YR 6/3 To 5GY 7/2	CLAY WITH NANNOFOSSILS, CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS, and CLAYEY NANNOFOSSIL MIXED SEDIMENT General Description: This core contains at least four distinct lithologies that include light yellowish-brown (2.5Y 6/4) CLAY WITH NANNOFOSSILS, pale green (5GY 7/2) CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS, and pinkish gray (7.5YR 6/3) CLAYEY NANNOFOSSIL MIXED SEDIMENT. Most of the beds are finely laminated. The entire core exhibits soft sediment deformation features suggestive of slumping. These features include wedge-planar, wavy, and contorted laminae, truncated and vertical bedding, microfaults, folding, and sharp bedding contacts. In addition, several 2- to 5-cm-thick pale green (5GY 7/2) FORAMINIFER OOZE turbidites are present and represented by the fining-upward sequence symbol in the structure column. The interbedded clay, foraminifer nannofossil ooze symbol is used to represent the mixed and highly variable lithology.						

125-130-135-140-145-150CC

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SITE 929 HOLE A CORE 21X

CORED 185.7 - 195.4 mbsf

Natural gamma ray ¹	tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	month month and month	Imm Mannaman Marman			1 2 3 4 5		※※ ※ <td></td> <td>I SSS P</td> <td>10YR 6/3 To 2.5Y 6/4</td> <td>CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAY General Description: This core contains at least four distinct lithologies including light yellow brown (2.5Y 6/4) NANNOFOSSIL CLAYE NANNOFOSSIL OOZE, and light gray (2.5Y 7/2) to white (5Y 8/1) CLAYEY NANNOFOSSIL COZE WITH FORAMINIFERS. Most of the beds are finely laminated. Sections 1–5 of this core exhibit soft sediment deformation features suggestive of slumping. These features include wedge-planar, wavy, and contorted laminae, truncated bedding, and microfaults. The interbedded clay, foraminifer nannofossil ooze symbol is used to represent the mixed and highly variable lithology of the slump deposit.</td>		I SSS P	10YR 6/3 To 2.5Y 6/4	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAY General Description: This core contains at least four distinct lithologies including light yellow brown (2.5Y 6/4) NANNOFOSSIL CLAYE NANNOFOSSIL OOZE, and light gray (2.5Y 7/2) to white (5Y 8/1) CLAYEY NANNOFOSSIL COZE WITH FORAMINIFERS. Most of the beds are finely laminated. Sections 1–5 of this core exhibit soft sediment deformation features suggestive of slumping. These features include wedge-planar, wavy, and contorted laminae, truncated bedding, and microfaults. The interbedded clay, foraminifer nannofossil ooze symbol is used to represent the mixed and highly variable lithology of the slump deposit.
<pre>}</pre>	}				6		» » » » »		м	2.5Y 7/2 To 5Y 8/1	







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SITE 929 HOLE A CORE 23X

CORED 205.1 - 214.4 mbsf



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		:	SITE	929	HOLE	A CORE	24	Х		CORED 214.4 - 224.0 mbs	sf	929A-24X 1	2	3	4	5	6	7	CC
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Structure	Disturb	Sample	Color	Description		5			-		1		
	-25							s s M	5Y 6/2 To 7.5YR 6/2 7.5YR 6/2 To 7.5GY 7/1	CLAYSTONE WITH NANNOFOSSILS AND SILT, CLAYSTONE WITH FE OXIDES, and CLAYEY NANNOFOSSIL CHALK WITH FORAMINIFERS General Description: This core contains light brown (7.5YR 6/2) CLAYSTONE WITH FE OXIDES that alternates with light olive gray (5Y 6/2) CLAYSTONE WITH FE OXIDES that alternates with light gray (7.5QY 7/1) CLAYEY NANNOFOSSILS AND SILT in the upper 5 sections and with light gray (7.5QY 7/1) CLAYEY NANNOFOSSIL CHALK below. Thin beds (<20 cm) of CLAYSTONE WITH- FE OXIDES are represented by individual color bands in the structure column. The color contacts are very gradational. The entire core is moderately bioturbated and mottled.	nd RS NH e	10 15 20 25 30 35 40 45 50 55 60 55 70 75 80 85 80 85 10 11 11 11 12 11 11 11 12 11 11 11 11 11							
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SITE 929

SITE 929 HOLE A CORE 25X

CORED 224.0 - 233.6 mbsf

Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	www.www.www.				1 2 3 4 5	middle Miocene			S	5Y 8/1 To 10YR 6/3	CLAYSTONE and NANNOFOSSIL CLAYSTONE General Description: This core contains light brown (10YR 6/3) to gray (2.5Y 5/2) CLAYSTONE alternating with white (5Y 8/1) NANNOFOSSIL CLAYSTONE. Both lithologies contain biosilicious fragments of about 3%. Thin beds (<20 cm) of CLAYSTONE are represented by individual color bands in the structure column. The color contacts are very gradational. Turbidites occur in Section 2, 122–150 cm, and in Section 5, from 145 cm to Section 6, 145 cm. They consist of sand-sized (fining-upward) FORAMINFER CHALK and have sharp bottom and gradational top contacts. The lower turbidite exhibits increased concentrations of orange mud clasts (mm scale) toward the base, which are arranged in cm-scale horizontal bands. The entire core is moderately bioturbated and mottled, except for the turbidites.
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Natural gamma ray ¹	Reflec- Ma tance (%) sus (550 nm) t	agnetic scepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5
month and -	month man and and and and and and and and and a				1 2 3 4 5 6 6 7 7 CC	early Miocene			I SS S	5GY 5/1 To 5GY 7/1	NANNOFOSSIL CLAYEY MIXED SEDIMENTARY ROCK and CLAYSTONE General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK alternating with thin beds of gray (5GY 5/1) CLAYSTONE. Both Ilithologies contain radiolarian fragments up to 5%. The beds of CLAYSTONE are represented by individual color bands in the structure column when less than 20 cm thick. The color contacts are gradational. The entire core is moderately bioturbated and mottled with <i>Chondrites, Planolites,</i> and <i>Zoophycas</i> burrows. The core is slightly fractured throughout due to XCB-coring, especially in the clay- rich layers.	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 80 85 100 105 110



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			SIT	E 929 H	IOL	E	A CORE	31	Х		CORED 281.6 - 291.3 mbst
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		Annow A			1 2 3 4 5 6 7 7 000	early Miocene			S S	5GY 5/1 To 5GY 7/1	NANNOFOSSIL CLAYEY MIXED SEDIMENTARY ROCK and CLAYSTONE WITH RADIOLARIANS General Description: This core contains light greenish gray (SGY 7/1) CLAYEY NANNOFOSSIL CHALK alternating with thin beds of gray (SGY 5/1) CLAYSTONE WITH RADIOLARIANS. The light units contain biosiliceous fragments up to 11%, the dark units up to 25%. The beds of CLAYSTONE WITH RADIOLARIANS are represented by individual color bands in the structure column when less than 20 cm thick. The color contacts are gradational. The entire core is moderately bioturbated and mottled with <i>Chondrites, Planolites</i> , and <i>Zoophycos</i> burrows. The entire core is slightly fractured, especially in the clay-rich layers, due to XCB-coring. The sharp contact in Section 4, 10 cm, might be produced by shearing.



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Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	- Murrow Mr -				1 2 3 4 5 6 7 CC	early Miocene	**************************************		S S	5GY 6/1 To 5GY 7/1	CLAYEY NANNOFOSSIL CHALK and NANNOFOSSIL CLAYSTONE General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK alternating with thin beds of gray (5GY 6/1) NANNOFOSSIL CLAYSTONE. The thin beds (<20 cm) of CLAYSTONE are represented by individual color bands in the structure column. The color contacts are gradational. The entire core is moderately bioturbated and mottled with <i>Chondrites, Planolites</i> , and <i>Zoophycos</i> burrows. The entire core is slightly fractured, especially in the clay-rich layers, due to XCB-coring. The CLAYSTONE contains trace quantities of radiolarians. Both lithologies contain zeolites and disseminated pyrite.



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			SIT	E 929 H	IOL	E	A CORE	3	5X		CORED 320.4 - 330.0 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
					1 2 3 3 4 5 5 6 6 7 7 CCC	early Miocene	***************************************		S	7.5GY 6/1 7.5GY 6/1 7.5GY 7/1 7.5GY 7/1 7.5GY 7/1 7.5GY 7/1 7.5GY 6/1	NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY and CLAYEY NANNOFOSSIL CHALK General Description: This core contains light greenish gray (7.5GY 7/1) NANNOFOSSIL CHALK WITH FORAMINIFERS AND CLAY alternating with thin beds of gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK. The color contacts are gradational. A small turbidite with parallel and cross-laminae occurs in Section 3, 95–102 cm, and has sharp bottom and top contacts. The entire core is moderately bioturbated and mottled with <i>Chondrites, Planolites,</i> and <i>Zoophycos</i> burrows. The entire core is slightly fractured, especially in the clay-rich layers, due to XCB- coring.

			SIT	E 929 H	OL	.E /	A CORE	3	6X		CORED 330.0 - 339.7 mbsf	929A-36X
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5-
man man	month when the second	man man	2 3 4 5 7 2 8		1 2 3 3 4 4 5 5 6 6 7 7 7	early Miccene			S S I	5GY 7/1 5GY 6/1	NANNOFOSSIL CHALK WITH CLAY and CLAYSTONE WITH NANNOFOSSILS General Description: This core contains light greenish gray (SGY 7/1) NANNOFOSSIL CHALK WITH CLAY alternating with thin beds of gray (SGY 6/1) CLAYSTONE WITH NANNOFOSSILS. The color contacts are gradational. Thin, mm- scale, green and purple color bands are common within the darker sediments. The entire core is moderately bioturbated and mottled with <i>Chondrites, Planolites</i> , and <i>Zoophycos</i> burrows. The entire core is slightly fractured, especially in the clay-rich layers, due to XCB-coring.	10

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SITE 929 HOLE A CORE 46X

CORED 426.4 - 436.1 mbsf







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125-130-135-140-145-1504

SITE 929



			SIT	E 929 H	IOL	E	A CORE	48	3X		CORED 445.7 - 455.3 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
garay www.	tage (SE) Vor Word Word Word Word Word Word Word Wo	susceptive	Perturbation of the state of th		2 3 4 5 6 7 2	early Oligocene Age	Structure		co co Sample	5 5GY 6/1 5GY 6/1 <t< td=""><td>Description CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH RADIOLARIANS General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK alternating with gray (5GY 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH RADIOLARIANS. The color contacts are gradational. Both lithologies contain small amounts of biosiliceous fragments (2% in light, 15% in dark layers). The entire core is slightly bioturbated and mottled with <i>Chondrites, Planolites</i>, and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or are surrounded by purple halos. Thin dark green and purple color bands occur in several sections. The core is slightly fractured, especially in the clay-rich layers, due to XCB-coring.</td></t<>	Description CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH RADIOLARIANS General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK alternating with gray (5GY 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH RADIOLARIANS. The color contacts are gradational. Both lithologies contain small amounts of biosiliceous fragments (2% in light, 15% in dark layers). The entire core is slightly bioturbated and mottled with <i>Chondrites, Planolites</i> , and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or are surrounded by purple halos. Thin dark green and purple color bands occur in several sections. The core is slightly fractured, especially in the clay-rich layers, due to XCB-coring.
10 15 2	0 40	0 5 1	0		-	-		_			

			SI	TE 929 H	IOL	.E	A CORE	49	ЭX		CORED 455.3 - 465.0 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
کے	5	{	1.1.1		1		~~~~~	ーーーー		5GY 7/1	CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK
3	5		1				3	1		5GY 6/1	General Description: This core contains light greenish
5	3	}	-				3	11		5GY 7/1	with gray (5GY 6/1) CLAYEY
?	3	2	2		2		3	11		5GY 6/1	NANNOFOSSIL MIXED SEDIMENTARY ROCK. The color contacts are gradational. Both
Ş	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ş	3				3	\/\	S	5GY 7/1	lithologies contain small amounts of biosiliceous fragments (10% in light, 13% in dark layers). The entire core is slightly bioturbated and mottled with Chondrites. Planolites, and
3	3	\geq	-		3		3	11111		5GY 6/1	Zoophycos burrows. Some burrow fills contain fine-grained pyrite and/or
3	3	$ \zeta $				ene	3	1111		5GY 7/1	Thin dark green and purple color bands occur in several sections. The
3	~~~~	5	5			Oligoc	3	111		5GY 6/1 5GY	the clay-rich layers, due to XCB- coring.
3	3	3			4	early	3	+		7/1 5GY	129-300940-0
5	3	$\left \right\rangle$	6				3	1111	S	- 5GY-	
ξ	$ \langle \rangle$	{	1.00		-		333	1/1-1	0	6/1 5GY	
2		3	Z				3	11/1		7/1	
2	5		-		\vdash		3	1111			
Ę	$\left \right\rangle$		8		6		3	11/1/		5GY 6/1	
È	}	Z					33	11/1/		To 5GY 7/1	
Z	5	3	a.		7		3	1111		0.6597	
			-		cc		3	1111	м		

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			SI	E 929 H	IOL	E	A CORE	50	X		CORED 465.0 - 474.6 mbs
gamma ray ¹	Heflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
-	m	5			1		Р	111111		5GY 6/1	CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK
3	2	ξ	1				— · · P	111111		5GY 7/1 5GY 6/1	General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHAI K alternation with gray (5GY
m	J. WW	where we have a second	Summer Summer		2		- р - , , , , , , , , , , , , , , , , , , ,	1/	6	5GY 7/1 To 5GY 6/1	6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. The color contacts are gradational. Both lithologies contain small amounts of biosiliceous fragments (8% in light, 11% in dark layers). The entire core is slightly bioturbated and mottled with <i>Chondrites, Planolites</i> , and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or
2	{		4		3	eue	3	1111		5GY 6/1	are surrounded by purple halos. Thin dark green and purple color bands occur in several sections. The core is
ξ	}	3	and the second second		4	early Oligoce	*****	1111111111	t	5GY 7/1 To 5GY 6/1	slightly fractured, especially in the clay-rich layers, due to XCB-coring.
$\frac{3}{2}$	M	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Hand Provident		5		3 † F	111111111		5GY 7/1 5GY 6/1	
\leq	MM	5	Her: Hilling		_		3 3 4 F	11111111		5GY 7/1 5GY 7/1 To 5GY	
ZZ	m	3	C HINNEY		6		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	11111		5GY 6/1	
\leq	5	}	the second second		7		~~~~~	111111	м	7/1 5GY 6/1	

5-10-85-100-105-110-115--120--125-130-135wigo . 140-145-

929A-50X 1 2 3 4 5

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150-



130-135-140-145SITE 929

CC









SITE 929 HOLE A CORE 54X

CORED 503.2 - 507.8 mbsf

Natural gamma ray 1	tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
5	M	Į	and rate		1				s	10Y 7/1	CLAYEY NANNOFOSSIL LIMESTONE and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK
	- munumumumum				2 3 4 5 CC	Eocene		Λ	S	5GY 5/1 To 10Y 7/1 5GY 5/1	General Description: This core contains light gray (10Y 7/1) CLAYEY NANNOFOSSIL LIMESTONE alternating with greenish gray (5GY 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. The mixed sediment rock layers are all <20 cm thick and are indicated with individual thick color band symbols in the structure column. The color contacts are gradational. Both lithologies contain a minor biosiliceous component (2% in light, traces in dark layers). The entire core is slightly to moderately bioturbated and mottled. Some burrow fills contain fine-grained pyrite. Thin purple color bands occur in Section 1, and a thick purple zone with disseminated manganese occurs in Section 1 from 104 to 109 cm. The core is moderately fractured throughout (biscuits) grading to severe fracturing in the more clay-rich layers.

0 20 20 40 0 10 20



	SI	TE 929 H	HOL	E	A CORE	5	5X		CORED 507.8 - 517.8 mbsf
Reflec- tance (%) (550 nm)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
2				Eoc.	=	1×1	S M	5GY 7/1	NANNOFOSSIL CLAYSTONE General Description:
0 35									(SGY 7/1) NANNOFOSSIL CLAYSTONE. Section 1 consists of only scattered pieces from 30 to 42 cm. The core catcher contains several thin purple and green color bands which are concave downward from drilling.
	CIT	E 020 L		E	A CORE	56	a¥.		
	311	E 929 F	101				JA .		CORED 517.8 - 527.5 MDST
Reflec- ance (%) (550 nm)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
Reflec- lance (%) (550 nm)	Meter 5	Graphic Lith.	D 1 Section	Eoc. Age	Structure	HH // Disturb	Z w w Sample	10Y 6/1	Description NANNOFOSSIL CLAYSTONE General Description:











CORED 9.5 - 19.0 mbsf

0 20 10 20 0 50 100



SITE 929 HOLE B CORE 3H

	Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	Tay -	(330 mm)	} }			1		P 33	000	S	10YR 6/1 2.5Y 6/1	NANNOFOSSIL CLAYEY MIXED SEDIMENT WITH FORAMINIFERS and NANNOFOSSIL CLAY WITH FORAMINIFERS General Description: This core contains gray (2.5Y 6/1)
	{	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		200		2		P 3		S	6/1 2.5Y 6/1	NANNOFOSSIL CLAY WITH FORAMINIFERS alternating with gray (10YR 6/1) NANNOFOSSIL CLAYEY MIXED SEDIMENT WITH FORAMINIFERS All rolor contacts
	}	Y	2	.1				1 F 3			10YR 6/1	are gradational. The entire core is slightly bioturbated and mottled. Yellow and dark gray color bands are common throughout the core, and there are may interactly with
	{	M	{	4		3	ene	P 3 † F 3 (P)		S	2.5Y 6/1	disseminated pyrite. Turbidites occur in Section 2, 106–107 cm, Section 3, 96–97 cm, Section 4, 138–139 cm, Section 5, 82–88, 108–110, and
	$\left\{ \right.$	~	{	5		4	Pleistoc	P 3			6/1 2.5Y 6/1	121–122 cm. The top 50 cm of Section 1 is soupy from drilling.
	}		~	6		_		P }			10YR 6/1 2.5Y	
		{	www.	Z		5					6/1 10YR 6/1	
	{	$\sum_{i=1}^{n}$	{	8		-		=			2.5Y 6/1	
	}	5		P		6		P 3			10YR 6/1	
6	20 1		100 20			7 CO		— }		м	6/1	



			SIT	E 929 H	101	E	B CORE	4	н		CORED 28.5 - 38.0 mbsf	929
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	
}	5	}_	ten form		1		→ P	>	S	10YR 6/1	CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and NANNOFOSSIL CLAY	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2		2			1		10YR 7/1 10YR 7/1 To 10YR 6/1	General Description: This core contains interbedded light gray (10YR 7/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and gray (10YR 6/1) NANNOFOSSIL CLAY. The color contacts are gradational. The upper 10 cm of the core contains flow-in structures, and there is a	
X	3	ł	3				~~~~~			10YR 6/1 10YR	dilling induced vertical fracture which offsets the sediments by 5 cm occuring in Section 2 from 0 to 80 cm. There are numerous vellow and dark gray Fe	1
	Ś	}	4		3		з З Р			10YR 6/1	oxide and pyrite-rich thin color bands in all sections. In general, they occur at the tops of the gray clay intervals. The entire core is slightly bioturbated. Two	
5	2	ł	5			istocene	\$ } } }			10YR 7/1	small turbidites are present in Section 1, 80–83 cm, and in Section 4, 112–114 cm.	1000
	5	}	6			Ple				10YR 7/1 To 10YR 6/1		
{	3	<pre>{</pre>	Z		5		3		s	10YR 7/1 10YR		-
$\left\{ \right.$	2	$\langle$	8		6			0		6/1 10YR 7/1 10YR		
		<pre>k</pre>	a -		7		P			6/1 10YR 7/1 To 10YB		1
	1	1 .	-		C	q	3		м	6/1		1





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19 H

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125-130-135-140-145-150-

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SITE 929

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SITE 929 HOLE B CORE 7H

CORED 57.0 - 66.5 mbsf

gamma ray ¹	tance (%) (550 nm)	suscepti- bility ²	Meter	Graphic Lith.	Sectio	Age	Struc	ture	Distur	Sampl	Color	Description
)	Y	Z			1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	P	N		10YR 6/1	NANNOFOSSIL CLAY and CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS
Ş	X	$\left\{ \right\}$	Tankin L					P P P		S	10YR 6/1 To 10YR	General Description: This core contains interbedded light gray (10YR 7/1) CLAYEY NANNOFOSSIL MIXED SEDIMENT WITH FORAMINIFERS and gray
{	3	2	S		2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				7/1	(10YR 6/1) NANNOFOSSIL CLAY. The color contacts are gradational. There are some yellow and dark gray Fe oxide and pyrite-rich thin color
ł	Jur	1	Line.				~~~~~	9 9			10YR 6/1	bands. In general, they occur at the tops of the gray clay intervals. The upper 10 cm of the core contains flow- in structures.
}	$\left  \right\rangle$	3	4		3	ane	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				1070	
5	3	~	511111		4	late Plioce	· · · · · · · · · · · · · · · · · · ·	P			6/1 To 10YR 7/1	
3	3	~	P				· · · · ·	Р			10YR 6/1	
5	2	$\left\{ \right\}$			5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			s	10YR 7/1	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ş	{	Truch		_		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	@			10YR 6/1	
3	{	2	11118		6		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ρ				
Ş	5	>	91111		7		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~) P			6/1 To 10YR 7/1	3



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SITE 929





929B-10H

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1016





	SI	TE 929 I	HOL	EB	CORE	12H		CORED 104.5 - 114.0 mbsf	929B-12H 1	2	3 4
Natural Reflec- Magi gamma tance (%) susc ray 1 (550 nm) bil	netic cepti- lity ²	Graphic Lith.	Section	Age	tructure	Sample	Color	Description	5-		
			1 2 3 4 5 6 7 CC	early Pliocene		S S	2.5Y 5/2 To 2.5Y 6/2	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAY General Description: This core contains light gray (2.5Y 6/2) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS alternating with gray (2.5Y 5/2) NANNOFOSSIL CLAY. The color contacts are gradational. Yellow and dark gray thin color Fe oxide and pyrite bands and pyrite blebs are present throughout the core. The uppermost part of the core is very disturbed by coring (slough).	10		

125-

145--150-

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SITE 929 HOLE B CORE 13H

125-130-135-140-

145-

150

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Nuture Refere: Magnetic of Susception B Structure Structu	SITE 929 HOLE B CORE 13H	CORED 114.0 - 123.5 mbsf	929B-13H 1 2	3 4 5 6
Image: Second State Classes and State Sta	Natural gamma ray ¹ (550 nm) bility ² bility ² Graphic Lith. Suscepti- bility ² Graphic Lith. Suscepti- bility ² bility ² b	Description	5	
		CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAYEY MIXED SEDIMENT General Description: This core contains light gray (10YR 7/1) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS alternating with gray (10YR 6/2) NANNOFOSSIL CLAY MIXED SEDIMENT. About 1% silt-size quartz is present in the OOZE. The entire core is slightly bioturbated. Horizons with disseminated pyrite and yellow-brown Fe oxide bearing thin color bands are present in several sections of the core. Sections 5 and 6 are marked by a transition to thin layer color banding of the two main lithologies. The NANNOFOSSIL CLAY MIXED SEDIMENT lithology is represented by the parallel laminae symbol through this interval. A thin lithologies. The NANNOFOSSIL CLAY MIXED SEDIMENT lithology is represented by the parallel laminae symbol through this interval. A thin in Section 5, 20–50 cm, which is distorted by differential friction due to coring. The uppermost part of the core is moderately disturbed (slough) by drilling. The way and offset bedding in Sections 5 and 6 appears to be due to coring disturbance.		

		SI7	FE 929 F	101	_E	B CORE	: 1/	4X		CORED 123.5 - 133.1 mbsf	929B-14X	1	2
Natural Reflect gamma tance (* ray ¹ (550 nr	 Magnetic suscepti- bility² 	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5-	S.	
	mun manner war	۰ ۲ اور ۱۰۰۰ اور ۲۰۰۰		1 2 3 4 5	Miocene			S S	2.5YR 6/2 To 2.5YR 7/2 7/2	CLAYEY NANNOFOSSIL MIXED SEDIMENT, NANNOFOSSIL CLAY, and CLAYEY NANNOFOSSIL OOZE General Description: This core contains light gray (2.5Y 7/2) CLAYEY NANNOFOSSIL OOZE and (10YR 7/2) CLAYEY NANNOFOSSIL MIXED SEDIMENT alternating with gray (10YR 6/2, 2.5YR 6/2) NANNOFOSSIL CLAY. Section 1 contains wavy and partially contorted mm- to cm-scale color bands. Below Section 1, CLAY intervals are represented by the thick and medium color bands in the structure column. The color transitions are gradational. The entire core is slightly bioturbated.	10		

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105-110-115-120-125-130-. 135-140---

145-150-

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4 5

CC





120-125-130-135-

140-

145-

150--3 5

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CC

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SITE 929



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CC

PALE

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120 | | 125 | | 130 | | 135 | | 140 | | 145 | | 150 |

10.10
SITE 929 HOLE B CORE 20X

CORED 181.0 - 190.7 mbsf

929B-20X 1

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4

Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	Trank	Š	1		1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		s	2.5Y 7/4	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains light gravish brown
	month -		3 4 5 6 7		2 3 4 5 6 7 CC	Miocene	★ ★ WWWW ● ● ● <td< td=""><td></td><td>S</td><td>2.5Y 7/4 To 2.5Y 6/2</td><td>Class 6(2) to pale yellow (2.5Y 7/4) (CLY FY NANNOFOSSIL OOZE WITH FORAMINIFERS. Below Section 1, 100 cm, the core exhibits soft sediment deformation features suggestive of slumping. Most of these beds are finely laminated and contain variable amounts of clay and foraminifers. Thus, the interbedded clay, foraminifer nannofossil ooze symbol is used to represent the mixed and highly variable lithology. Structures that are indicative of slumping include wedge-planar, wavy, and contorted laminae, truncated and vertical bedding and sharp bedding contacts. In addition, several 2- to 5- cm-thick pale green (5GY 7/2) FORAMINIFER OOZE turbidites are present and represented by the fining- upward sequence symbol in the structure column.</td></td<>		S	2.5Y 7/4 To 2.5Y 6/2	Class 6(2) to pale yellow (2.5Y 7/4) (CLY FY NANNOFOSSIL OOZE WITH FORAMINIFERS. Below Section 1, 100 cm, the core exhibits soft sediment deformation features suggestive of slumping. Most of these beds are finely laminated and contain variable amounts of clay and foraminifers. Thus, the interbedded clay, foraminifer nannofossil ooze symbol is used to represent the mixed and highly variable lithology. Structures that are indicative of slumping include wedge-planar, wavy, and contorted laminae, truncated and vertical bedding and sharp bedding contacts. In addition, several 2- to 5- cm-thick pale green (5GY 7/2) FORAMINIFER OOZE turbidites are present and represented by the fining- upward sequence symbol in the structure column.



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CC

SITE 929



135 -140 -145 -150 -

1026

SITE 929

CC

41 57

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20 30 0 20 0 25 50

CC PAU _ _ -105-110-115-120-125-130-135-140-145-150-

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DRILLED 0.0-3.0 mbsf



			SI	FE 929 H	HOL	.E	C CORE	E 1	н		CORED 3.0 - 12.5 mbsf	929C
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5
}	4	۔ ح	1		1		† F }	0000		10YR 6/2	NANNOFOSSIL CLAYEY MIXED SEDIMENT and CLAY WITH NANNOFOSSILS General Description:	10
\$		}	2		2		=			2.5Y 6/1 10YR 6/2	This core contains gray (10YR 6/2) CLAY WITH NANNOFOSSILS and gray (2.5Y 6/1) NANNOFOSSIL CLAYEY MIXED SEDIMENT WITH FORAMINIFERS. Fe oxide crusts occur in Section 3.75 cm at the base	3
	}	ł	and and		~ ~				s	2.5Y 6/1	of a MIXED SEDIMENT layer. The contact between the two major lithologies is sharp. A turbidite of	3
ζ	3	}	3				3 3 9		S S	10YB	graded SANDY SILT WITH CLAY occurs in Section 2, 20–21 cm. The entire core is slightly bioturbated. Disseminated ovrite and Fe oxides	4
2		}	4	444			333			6/2	occur throughout. Section 1 is very disturbed (soupy) due to the implosion of the liner.	5
		{	5		4	stocene	3 3 P 3 P			2.5Y 6/1		6
5	3	ł	and mark		6	Plei	~~~ @			10YR 6/2		7
>	3	{	6		5		— ³ Р			2.5Y 6/1		E
	Ę	}	Z				3			10YR 6/2		E
	1	}	8		0	1	■			2.5Y 6/1		S
Z	2	1	the second second	4 1-1-1-1 1-1			3 P			6/2		10
Ş	ł	3	9		7		3 } }			10YR 6/2		11 11
1		1 m	-		co		ŝ		М			12



SITE 929



SITE 929



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CC



130-135-140-145-150-

Lith.

Natural

gamma

ray¹

Reflec-

tance (%)

(550 nm)

suscepti-

bility²

1s

1031



125 130-135-140-145-150-

20 30 10 20 0 100 200 CC









М 6/1

SITE 929 HOLE C CORE 5H

CORED 41.0 - 50.5 mbsf



CC



929C-5H 1 2 3 4 5 6 7

SITE 929 HOLE C CORE 6H

CORED 50.5 - 60.0 mbsf

Natural gamma	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
2	3	13	- turn				3 3 P 3		07	5Y 7/1	NANNOFOSSIL CLAYEY MIXED SEDIMENT WITH FORAMINIFERS and CLAY WITH NANNOFOSSILS
			Participant and				»» Р Р			5Y 7/1 To 5Y 6/1	General Description: This core contains light gray (5Y 7/1) NANNOFOSSIL CLAYEY MIXED SEDIMENT WITH FORAMINIFERS and gray (5Y 6/1) CLAY WITH NANNOFOSSILS in alternating beds
					2		••••••••••••••••••••••••••••••••••••••			5Y 6/1	with gradational contacts. Fe sulfide nodules and disseminated Fe sulfides are common throughout the core. Faint Fe oxide-rich yellow color bands occur in many sections. The entire core is slightly bioturbated and mottled. The void in Section 5 from 20 to 58 cm is an artifact of dilling.
{	2	Ş	4		3		3 П 2 2			5Y 7/1 To	and the sedimentation is continuous across the gap.
	3	{	1111		-	istocene) P		s	5Y 6/1	
$ \langle$		~	Trut		4	Ple	e e e e e e e e e e e e e e e e e e e		10.25	5Y 7/1	
2	5		61	Void			- - -			5Y 6/1	
2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5	2		5		γ P 3			5Y 7/1	
$ \langle$	3						× (To 5Y 6/1	
{	3	Ę	8		6		~ ®		s	5Y 6/1	
	}		Lind Lind		7		······································			5Y 7/1 To 5Y 6/1	
0 20	10 20 -	50 0 5	1	-1	cc		5		М		



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130 — 135 — 140 — 145 — 150 —

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SITE 929

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		SII	E 929 F	HOL	E	C CORE	- 9	н		CORED 79.0 - 88.5 mbst	929C-9H 1	2	3	4
Natural Ref gamma ray ¹ (550	lec- (%) Suscepti- nm) bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5			
				1 2 3 4 5 6 7 CC	late Pliocene		wwww	S	10YR 7/1 10YR 6/1 10YR 7/1 10YR 6/1 10YR 6/1 10YR 6/1 10YR 7/1 10YR 7/1 10YR 7/1	NANNOFOSSIL CLAYEY MIXED SEDIMENT WITH FORAMINIFERS and CLAY WITH NANNOFOSSILS General Description: This core contains light gray (10YR 7/1) NANNOFOSSIL CLAYEY MIXED SEDIMENT WITH FORAMINIFERS alternating with gray (10YR 6/1) CLAY WITH NANNOFOSSILS with gradational contacts. The core is slightly bioturbated throughout. Fe sulfide and contacts. The core is sulfide are common throughout the core, and faint Fe oxide-rich yellow color bands occur in many sections. Section 1, 0–90 cm, and Section 5, 135–150 cm, are drilling disturbed with flow-in structures.	10 - 15			

125-130-135-140-

145-150

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1038

SITE 929

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SITE 929 HOLE C CORE 10H

CORED 88.5 - 98.0 mbsf

Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structu	ire d	DISIDIO	Sample	Color	Description
	3	- 1	and more		1		~~~~~	P	** **		10YR 7/1	CLAY WITH NANNOFOSSILS and CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS
			T					Р			10YR 6/1	General Description: This core contains light gray (10YR 7/1) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS alternating
			2		2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	P				NANOFOSSILS with gradational contacts. The core is slightly bioturbated throughout. Fe sulfide nodules and disseminated Fe sulfides
5		5	3				****	P		S	10YR 7/1 To 10YR 6/1	are common throughout the core, and faint Fe oxide-rich yellow color bands occur in many sections. The top 40 cm is disturbed with flow-in structures.
}		2			3	ene	***			s	1942	
}	Y	A MAN	5		4	early Plioc	~~~~	P				
1		Jun	P				······································	P			10YR 6/1	
5		5	C		5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				10YR 7/1 10YR	
}		~	8				3				7/1 To 10YR 6/1	
}			and the second		6		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ρ			10YR	
		2 	9		7 CC		333	P		м		i i



			SIT	E 929 F	10	LE	CC	ORE	1	1H		CORED 98.0 - 107.5 mbsf	929C-11H 1
Natural gamma	Reflec- tance (%)	Magnetic suscepti-	Aeter	Graphic Lith.	ection	Age	Struc	cture	isturb	ample	Color	Description	5
ray	(550 nm)	bility ²	~		S	1				ŝ	<u> </u>		
}		amont	. L'andree		1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	P	I.	s	10YR 6/1	NANNOFOSSIL CLAY and CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS General Description: This core contains gray (10YR 6/1)	
		month	S		2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Р			1	NANNOFOSSIL CLAY and light gray (10YR 7/1) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS in alternating beds with very gradational contacts. The entire core is slightly bioturbated and mottled. Fe sulfide nodules and disseminated Fe sulfide are common throughout the core, and thin yellow Fe oxide-rich color bands occur in several sections. The uppermost 5 cm of the core shows slight stretching from drilling.	
		mon	4		4	early Pliocene	*****	Р (9) Р Р			10YR 6/1 To 10YR 7/1		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	www.			5		`~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	P					80
		and show .	"		6 7		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ρ		S M			



SITE 929 HOLE C CORE 12H

CORED 107.5 - 117.0 mbsf





			SITE 929 H	IOLE	C COR	E 1	3H		CORED 117.0 - 126.5 mbsf	929C-13H	1	2	3	4	5	6	7	CC	
Natura gamma ray 1	tance (%) (550 nm)	Magnetic suscepti- bility ²	Graphic Lith.	Section	Structure	Disturb	Sample	Color	Description	5-	2					and the second		H	
		A Martin -2		1 2 3 4 5 6 7 CC	wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	M	S S	10YR 6/2 To 2.5Y 7/2	CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS and NANNOFOSSIL CLAY General Description: This core contains light gray (2.5Y 7/2) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS alternating with gray (10YR 6/2) NANNOFOSSIL CLAY. About 1% sit-size quartz is present in the OOZE. The entire core is slightly bioturbated. Horizons with disseminated pyrite and yellow-brown Fe oxide bearing thin color bands are present in several sections of the core. Sections 2 through 5 are marked by a transition to thin layer color banding of the two main lithologies. The lithology is represented by the parallel laminae symbol through this interval. A thin layer of FORAMINIFER SAND occurs in Section 2, 120–125 cm, which is distorted by differential friction due to coring. The uppermost part of the core is moderately disturbed (slough) by drilling. The wavy and offset bedding in Sections 2 through 5 appears to be due to coring disturbance.	10   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -									

1042

SITE 929

SIT	E 929 H	IOL	E	C CORE	14	4X		CORED 126.5 - 136.1 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
-	÷.	cc	Mio.	3		М		NANNOFOSSIL CLAY
			late					General Description: This core contains gray (10YR 6/2) NANNOFOSSIL CLAY. The core is slightly bioturbated. The age of this short core is late Miocene.

929C-14X	CC
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70-	100
75-	1
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80	-
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90-	
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95	_
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105-	-
-	
	1
115	
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120-	
125-	
-	
130-	
-	
135-	
140-	
145	
150-	1.2
100	

SITE 929



190 --195 --140 --145 --150 --

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SITE 929

CC

PALEO

SITE 929 HOLE C CORE 16X

CORED 145.6 - 155.2 mbsf

Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	- Marine Ma Marine Marine Mari		1 2 3 4 5 6 7		1 2 3 4 5	late Miocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		S	2.5Y 7/2	CLAYEY NANNOFOSSIL COZE and NANNOFOSSIL CLAY General Description: This core contains light gray (2.5Y 7/2) CLAYEY NANNOFOSSIL OOZE and gray (10YR 6/2) NANNOFOSSIL CLAY. About 1% silt-size quartz is present in the OOZE. The entire core is slightly bioturbated. The CLAYEY NANNOFOSSIL OOZE in Sections 1 through 5 is very uniform. The contacts between the two lithologies are sharp.
1 5	K	5	0.00							6/2	
r		1			cc		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		м	10YR 6/2	

5-10-15-20-25-30----35--40--45---50-55-60-65-70--75-80---85---90--85--100---105----110--115--120-125--130--135-140-145-150-

929C-16X 1 2 3 4 5 CC

SITE 929 HOLE D CORE 1H CORED 0.0 - 7.0 mbsf Natural Reflec- Magnetic Disturb Sample Section Meter Graphic Color Age suscepti Description gamma tance (%) Structure Lith. (550 nm) bility2 ray 1 7.5YR CLAY WITH NANNOFOSSILS and E NANNOFOSSIL CLAYEY MIXED 6/1 SEDIMENT WITH FORAMINIFERS General Description: This core contains gray (2.5Y 5/1) CLAY WITH NANNOFOSSILS and gray (2.5Y 6/1) to pinkish gray (7.5YR 6/1) NANNOFOSSIL CLAYEY MIXED SEDIMENT WITH 2.5Y FORAMINIFERS. The entire core is 5/1 slightly bioturbated. Disseminated pyrite and Fe oxides are present throughout. An Fe oxide crust occurs Ξ 9 in Section 1, 50 cm, at the base of a MIXED SEDIMENT layer. The contact between the two major lithologies is sharp. Thin turbidites of n graded SANDY SILT WITH CLAY occur in Section 2, 35-52 cm, and Section 3, 105 cm. 2.5Y 6/1 2.5Y 5/1 2.5Y 6/1 S  $\equiv$ 7.5YF 6/1 S 5 2.5Y 5/1 M

20 30 0 20 0 50 100

929D-1H 1 2 3 4 5 CC 5-10---15-PALED 20-25-30-30 | 35 | 40 | 45 | 50-55-60-65-70-75-80-85--90-85-100-105-110-115-120-125-130-135-140-145-150-

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929D-2H 1 2

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929D-4H 1 2 3 4 5 6 7

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DRILLED 0.0-471.5 mbsf



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SITE 929

SITE 929 HOLE E CORE 2R



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SITE 929 HOLE E CORE 4R

CORED 500.8 - 510.4 mbsf

Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	Mummum -				1 2 3 4	late Eocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	X	S S	5GY 6/1 To 5GY 7/1 5GY 6/1 5GY 7/1 5GY 6/1	CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK alternating with thin beds of gray (5GY 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. The thin beds of the darker unit are represented as color bands in the structure column. The color contacts are gradational. The entire core is slightly bioturbated and mottled with <i>Chondrites, Planolites,</i> and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or are surrounded by purple halos. Thin dark green and purple color bands occur in several sections. The core is moderately fractured throughout (biscuits) due to rotary drilling.

10 20 20 40 0 10 20



			SII	E 929 F	OL	E	E CORE	5	H		CORED 510.4 - 520.0 mbst		
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description		
>	3	5	Leve				~~~~	V V		5GY 7/1	CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY BOCK		
1	$\sum$		1		1		ŝ	1		6/1			
5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	{	1	2				S	s t	5GY 7/1	General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK alternating with gray (5GY 6/1 CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. The color contacts are gradational. The entire core is slightly bioturbated and mottled with <i>Chondnites</i> , <i>Planolites</i> , and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or are surrounded by purple halos. Thin dark		
}	Vi	$\overline{s}$	2		2					5GY 6/1			
Ş	~~~~	$\langle$	.L			late Eocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 7/1			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~						3		~~~~~	1111111111	S	5GY 6/1	several sections. The entire core is moderately fractured (biscuits) due to rotary drilling.
{	5 2		~~~~	11111		5GY 7/1							
Ĺ	\$	ξ		cc		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	111/	м	5GY 6/1				

5-10-15-20-. 25-PALED 80-35-40-. ... 45-50-55--60-. 65--70--...... 75-. 80-. . 85--... 90--95--100-105-110--115--120-125--130--135--140-145-150-

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929E-5R 1 2 3 4 CC

			SIT	E 929 H	IOL	E	E CORE	6	۲.		CORED 520.0 - 529.3 mbsf
Natural gamma ray1	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	murum hundran	man and a second a			1 2 3 4 5 6 CC	late Eocene			S S M	5GY 7/1 To 6/1 6/1 5GY 7/1 To 10Y 6/1	CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK alternating with gray (10Y 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. Gray beds thinner than 20 cm are represented by individual color bands in the structure column. The color contacts are gradational. Section 1 exhibits soft sediment deformation features suggestive of slumping such as wavy laminae, convolute bedding, and microfaults. The entire core is moderately bioturbated and mottled with <i>Chondrites, Planolites</i> , and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or are surrounded by purple halos. Thin dark green and purple color bands occur in several sections. The core is slightly to moderately fractured (biscuits) due to rotary drilling.



			511	E 929 F	IOL	E.	E CORE	: 7	R		CORED 529.3 - 539.0 mbsf
Natural gamma ray 1	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
Murren +	Wwwwwwwwwww				1 2 3 4	late Eocene	***************************************		s	5GY 7/1 To 6/1 5GY 7/1 10Y 6/1 5GY 7/1 10Y 6/1 5GY 7/1 10Y 6/1 5GY 7/1	CLAYEY NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK alternating with gray (10Y 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. Gray beds thinner than 20 cm are represented by individual color bands in the structure column. The color contacts are gradational. The entire core is moderately bioturbated and motiled with <i>Chondrites, Planolites,</i> and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or are surrounded by purple halos. Thin dark green and purple color bands occur in several sections. The core is moderately fractured (biscuits) due to rotary drilling.











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			011	L 323 1	IOL	- C	E CONE	: 10	Jn		CORED 556.3 - 567.9 MDSI
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
- WWW WWW WWW	- muntiple was a man and the second	month of the second of the sec			1 2 3 4 5 6 CC	middle Eocene	P P P		S T T M	7.5GY 6/1 5GY 7/1 7.5GY 6/1 7.5GY 7/1 7.5GY 6/1 7.5GY 7/1 7.5GY 6/1 7.5GY 7/1 7.5GY 6/1 7.5GY 7/1 7.5GY 7/1 7.5GY 6/1 7.5GY 7/1	CLAYEY NANNOFOSSIL LIMESTONE and CLAYEY NANNOFOSSIL LIMESTONE WITH FORAMINIFERS General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL LIMESTONE WITH FORAMINIFERS alternating with gray (7.5GY 6/1) CLAYEY NANNOFOSSIL LIMESTONE. The color contacts are gradational. The entire core is slightly bioturbated and mottled with <i>Chondrites, Planolites</i> , and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or are surrounded by purple halos. Thin dark green and purple color bands occur in some sections. In Section 6, 50–75 cm, a small turbidite is present. The core is slightly to moderately fractured due to rotary drilling.



1061



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1062

SITE 929 HOLE E CORE 12R

CORED 577.5 - 587.2 mbsf

Natural gamma	Reflec- tance (%)	Magnetic suscepti-	Meter	Graphic Lith.	Section	Age	Structure	Disturb	ample	Color	Description
	-{				1		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			5GY 6/1 To 5GY 7/1	CLAYEY NANNOFOSSIL LIMESTONE and CLAYSTONE WITH SILT General Description: This core contains light greenish gray (5GY 7/1) to light gray (10Y 7/1)
K		{	2				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 7/1	CLAYEY NANNOFOSSIL LIMESTONE alternating with greenish gray (5GY 6/1, 5GY 5/1) CLAYSTONE WITH SILT. The color contacts are
$\left \right\rangle$		\rangle	Line		2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			10Y 7/1	gradational. The entire core is slightly bioturbated and mottled with
$ \rangle$	{	5	3				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 6/1	Chondrites, Planolites, and Zoophycos burrows.
}	}	{	- Inter				~~~~~			5GY 7/1	n un exemple d'all'effective autor and an annual annual
R		$\left \right\rangle$	4		3	e	3			5GY 6/1	
$ \langle$	-		and the state			le Eocen	~~~~~			5GY 7/1	
2	www.	$\sum_{i=1}^{n}$	5		4	middl	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		s	5GY 5/1	
}	{	}	9l.		5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 6/1	
}	ξ	Ş	2		1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 7/1	
5	3)	11				3	1		5GY 6/1	
Kara and a second secon		{	8		6		******		S	5GY 7/1	
<u>ζ</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~)	9		7 CC		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	м	5GY 6/1	



			SIT	E 929 H	IOL	E	E CORE	1	3R		CORED 587.2 - 596.9 mbsf	929E-13R	1	2
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5-	2	Π
m m m m m m m m m m m m m m m m m m m	m Munumun mulan	man man has			1 2 3 4 5 6 CC	middle Eocene			S	5GY 7/1 5GY 7/1 To 5GY 7/1 5GY 7/1 5GY 6/1	CLAYEY NANNOFOSSIL LIMESTONE WITH CALCAREOUS FRAGMENTS and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS General Description: In this core, we observed light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL LIMESTONE WITH CALCAREOUS FRAGMENTS with some beds of greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS. The entire core is motiled and moderately bioturbated with Zoophycos, Planolites, Chondrites, and a few vertical burrows. Four small turbidites occurred in Section 1 at 109–118 cm, Section 2 at 48–54 cm and 141–144 cm, and Section 5 at 80–85 cm. These turbidites contain associated laminae, fining-upward sediments, and cross-bedding. A normal microfault occurs in Section 2 at 67–73 cm. There are thin purple and green color bands in some beds.	10		
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			SIT	E 929 H	IOL	E	E CORE	1	4R		CORED 596.9 - 606.5 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			1		****	11 11		5GY 6/1	CLAYEY NANNOFOSSIL LIMESTONE WITH CALCAREOUS FRAGMENTS and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS
2	mour		P		2		■ 	111	s	5GY 7/1	This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL LIMESTONE WITH CALCAREOUS FRAGMENTS and greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS in alternation beds with very gradational
	nym	~	h		3	ocene		111	1	5GY 6/1	contacts. The darker greenish gray units, which are thinner than 20 cm, are represented with individual thick color bands in the structure column. The core is slightly to moderately fractured in some sections by rotary dillice. A tubility section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the section 20 cm of the s
	M	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	5 · · · · · · · · · · · · · · · · · · ·		4	middle Ec	***************************************			5GY 7/1	drilling. A turbine occurs in Section 3 from 45 to 54 cm. The entire core is moderately bioturbated and mottled, with some burrows and mottles containing purple material (possibly manganese-rich sediments). <i>Zoophycos</i> trace fossils are common. Thin white and dark green color bands occur in some locations.
	Mur		P		6		»»» »»»» •••••••••••••••••••••••••••••	/		507	
}	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~			7		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		м	7/1 To 5GY 6/1	



Natural Reflec- gamma tance (%) rav ¹ (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5-10	
				S 1 1 2 3 4 5 6 7	middle Eocene			s s	5GY 7/1 5GY 7/1 5GY 6/1 5GY 7/1 5GY 6/1 5GY 7/1 5GY 6/1 5GY 6/1 5GY 6/1	CLAYEY NANNOFOSSIL LIMESTONE and NANNOFOSSIL LIMESTONE WITH CLAY AND CALCAREOUS FRAGMENTS General Description: This core contains light greenish gray (SGY 7/1) CLAYEY NANNOFOSSIL LIMESTONE alternating with gray (SGY 6/1) NANNOFOSSIL LIMESTONE WITH CLAY AND CALCAREOUS FRAGMENTS. Gray beds thinner than 20 cm are represented by individual thick color bands in the structure column. The color contacts are gradational. Thin purple color bands occur in several sections. Sections 2–4 exhibit soft sediment deformation features suggestive of slumping. These features include convolute bedding, folds and way laminae. Within the redeposited sediments a sharp color contact is present in Section 4, at 92 cm, with purple specks of probably disseminated manganese oxides below. A small, finely laminated turbidite occurs on top of the slump at Section 2, 111–115 cm and has a sharp bottom contact. A second laminated turbidite (fining-upward sequence) is present in Section 6, at 30–42 cm, and exhibits mm-thin mud clasts. The entire core is slightly bioturbated and mottled with <i>Chondrites, Planolites</i> , and <i>Zoophycos</i> burrows. Some burrow fills contain fine-grained pyrite and/or are surrounded by purple halos.		

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		STLE YZ	SITE 92	SITE 929

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			SIT	E 929 H	IOL	E	E CORE	1	6R		CORED 616.1 - 625.8 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	MAN MANNA -	Two was a start of the start of			1 2 3 4 5 6 7 CC	middle Eocene	Me Me Me		S S M	5GY 7/1 5GY 6/1 5GY 7/1 5GY 6/1 5GY 7/1 5GY 6/1 5GY 7/1 5GY 6/1 5GY 6/1 5GY 6/1 5GY 6/1	CLAYEY NANNOFOSSIL LIMESTONE WITH FORAMINIFERS and CLAYEY NANNOFOSSIL LIMESTONE General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL LIMESTONE WITH FORAMINIFERS alternating with gray (5GY 6/1) CLAYEY NANNOFOSSIL LIMESTONE. The color contacts are gradational. Thin purple color bands occur in several sections. Sections 1 and 2 exhibit soft sediment deformation features suggestive of slumping. These features include convolute bedding, folds and wavy laminae. The entire core is slightly bioturbated and mottled. Some burrow fills contain fine-grained dark material and/or are surrounded by purple halos.

		SITE 9	929 HC	LE	E CORE	17	'R		CORED 625.8 - 635.3 mbsf	929E-17R 1	2	3	4	5	6	7	1
Natural Reflec- gamma tance (%) ray ¹ (550 nm)	Magnetic suscepti- bility ²	Meter T	raphic	Age	Structure	Disturb	Sample	Color	Description	5	HO	19.2			17		F
	Am Martin Martin			1 2 3 and 2			S S M	5GY 6/1 5GY 7/1	NANNOFOSSIL LIMESTONE WITH CLAY AND FORAMINIFERS and CLAYEY NANNOFOSSIL LIMESTONE WITH CALCAREOUS FRAGMENTS General Description: This core contains light greenish gray (5GY 7/1) NANNOFOSSIL LIMESTONE WITH CLAY AND FORAMINIFERS alternating with thin beds of gray (5GY 6/1) NANNOFOSSIL LIMESTONE WITH CALCAREOUS FRAGMENTS. The thin beds (<20 cm) of the darker unit are presented as color bands in the structure column. The color contacts are gradational. Thin purple color bands occur in several sections. The entire core is slightly bioturbated and mottled. Some burrow fills contain fine-grained dark material and/or are surrounded by purple halos. The entire core is moderately fractured.	10							

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SITE 929

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SITE 929 HOLE E CORE 18R

CORED 635.3 - 645.0 mbsf

Natural gamma ray 1	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	-				1 2 3 4 5	middle Eocene			S S	5GY 6/1 To 5GY 7/1	CLAYEY NANNOFOSSIL LIMESTONE and CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL LIMESTONE alternating with thin beds of gray (5GY 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK. The thin beds (<20 cm) of the darker unit are presented as color bands in the structure column. The color contacts are gradational. Thin purple color bands occur in several sections. The entire core is slightly bioturbated and mottled. Some burrow fills contain fine-grained dark material and/or are surrounded by purple halos.

929E-18R 1 2 3 4 5 CC 5-10-15-PALE 20-25-30-35-40-45-50-55-60--85--70--75--80--85--90---85--100--105--110--115--120--125--130--135--140-145-150--

	SITE 929	HOLE	E CORE	E 19	9R		CORED 645.0 - 654.7 mbsf	929E-19R	1
Natural Reflec- Magnetic gamma tance (%) suscepti- ray ¹ (550 nm) bility ²	Graphi	Section	Structure	Disturb	Sample	Color	Description	5-	21
		ниннининининининининининининининининин			I S M	5GY 6/1 To 5GY 7/1	CLAYEY NANNOFOSSIL LIMESTONE WITH CALCAREOUS FRAGMENTS and CLAYEY NANNOFOSSIL LIMESTONE General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL LIMESTONE WITH CALCAREOUS FRAGMENTS alternating with thin beds of gray (5GY 6/1) CLAYEY NANNOFOSSIL LIMESTONE. The thin beds (<20 cm) of the darker unit are presented as color bands in the structure column. The color contacts are gradational. Thin purple color bands occur in several sections. The entire core is slightly bioturbated and mottled. Some burrow fills contain fine- grained dark material and/or are surrounded by purple halos. The entire core is slightly fractured, especially in the clay-rich layers.	10	

10 15 0 25 0 10 20

SITE 929





Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	- 1 M M M M M M M M M M M M M M M M M M	www.			1 2 3 4 5 6	middle Eocene			S S	5GY 6/1 To 5GY 7/1	NANNOFOSSIL CLAYSTONE and CLAYEY NANNOFOSSIL LIMESTONE General Description: This core contains light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL LIMESTONE alternating with thin beds of gray (5GY 6/1) NANNOFOSSIL CLAYSTONE. The thin beds (<20 cm) of the darker unit are presented as color bands in the structure column. The color contacts are gradational. The entire core exhibits abundant <1 mm-size white "specks," which are recrystallized and spar-filled foraminifers. Thin purple color bands occur in several sections. The entire core is slightly bioturbated and mottled. Some burrow fills contain fine-grained dark material and/or are surrounded by purple halos. The entire core is slightly fractured, especially in the clay-rich layers.





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			SI	TE 929 H	HOL	E	E CORE	E 2	3R		CORED 683.2 - 692.8 mbsf	929E-23R 1
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5-
	- www.www.www.		1		2	early Eocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		s s M	5GY 5/1 5GY 6/1 5GY 5/1 To 5GY 6/1	NANNOFOSSIL CLAYSTONE and CLAYSTONE WITH NANNOFOSSILS General Description: This core contains greenish gray (5GY 6/1) CLAYSTONE WITH NANNOFOSSILS alternating with thin beds of greenish gray (5GY 5/1) NANNOFOSSIL CLAYSTONE. The thin beds (<20 cm) of the darker unit are presented as color bands in the structure column. The color contacts are gradational. The entire core is slightly bioturbated and mottled with Zoophycos, Chondrites, and Planolites. Some burrow fills contain fine-grained dark material and/or are surrounded by purple halos. The entire core is moderately fractured.	10 1 1 1 1 1 1 1 1 1

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SITE 929 HOLE E CORE 24R

CORED 692.8 - 702.5 mbsf

Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	furn			10101010101010101010101010101010101010	1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 5/1	NANNOFOSSIL CLAYSTONE and CLAYSTONE WITH NANNOFOSSILS General Description: This core contains greenish gray (SGX 6/1) NANNOFOSSIL
	MMM	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1	01010101010101010	2				S	5GY 5/1 To 5GY 6/1	CLAYSTONE alternating with thin beds of greenish gray (5GY 5/1) CLAYSTONE WITH NANNOFOSSILS. Thin beds (<20 cm) of the lighter unit are presented as individual color bands. The color contacts are
$\left\{ \right\}$	hand	$\left\{ \right.$	dista in the form		3	ocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ーーーー		5GY 6/1	gradational. The entire core is slightly bioturbated and mottled with Zoophycos. Some burrow fills contain fine-grained dark material.
5	Z	3	4 11 19 19			early Ec	~~~~			5GY 5/1	fractured (biscuiting).
{	2	$\left\{ \right\}$					3	1		5GY 6/1	
{	M	$\left\{ \right\}$			4		****		S	5GY 5/1 To 5GY 6/1	
{	AMA -		arararararara		5		~ ~ ~ ~ ~ ~ ~		м	5GY 5/1	

10 20 20 30 0 10 20



		SI	TE 929 H	101	_E	E CORE	2	5R		CORED 702.5 - 712.2 mbsf	929E-25R
Natural gamma ray ¹	Reflec- Magneti tance (%) suscept (550 nm) bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	5 —
3		- L		1		*****			5GY 6/1 To 5GY 7/1	CLAYSTONE WITH CALCAREOUS FRAGMENTS and CLAYSTONE WITH CALCAREOUS FRAGMENTS AND FORAMINIFERS	10   15   20
$\left \right\rangle$	55	2				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		S	5GY 6/1 5GY 7/1	General Description: This core contains light greenish gray (5GY 7/1) CLAYSTONE WITH CALCAREOUS FRAGMENTS AND FORAMINIFERS alternating with	25   30
2		-		2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			6/1 5GY	thin beds of greenish gray (5GY 6/1) CLAYSTONE WITH CALCAREOUS FRAGMENTS.	35 — 40 —
15		3 ) -				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			6/1 To 5GY 7/1	I hin beds (<20 cm) of the lighter unit are presented as individual color bands. The color contacts are gradational. The entire core is	45 — 50 —
$\left \right\rangle$		4_			Sene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 6/1	Some burrow fills contain fine- grained dark material.	55 -
122	5 3	75		4	early Eoc	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 7/1 5GY		65   65
3	{  5			-		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			6/1 5GY 6/1		70— — 75—
I	32					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			10 5GY 7/1		80 — 
E	5	SZ2				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ī	s	5GY 6/1		
F		8		6		~~~~~			6/1 To 5GY 7/1		85 — 100 —
Ę						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					105
5		}		7		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			5GY 7/1		115-
10 20	0 20 0 5	10	]rÞ-9]	100	1		-	I ivi			120-



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SITE 929

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			SIT	E 929 H	101	E	E CORE	2	5R		CORED 712.2 - 721.9 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
mm			Particularian Particularia		1		***			5GY 6/1	CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS and CLAYEY NANNOFOSSIL LIMESTONE WITH FORAMINFERS General Description: This core contains greenish gray (5G) 6/1) CLAYEY NANNOFOSSIL LIMESTONE WITH FORAMINIFERS and gray (10Y 6/1) CLAYEY
5	~	5	3		2		····· /	1 1 1 1	s	6/1 To 5GY 5/1	NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS. One bed of greenish gray (5GY 5/1)
			Le chandres de la company		3	early Eocene	*****		S	5GY 6/1	CLAYSTONE occurs in Section 2 from 60 to 80 cm. Thin beds (<20 cm) of th lighter unit are presented as individual color bands. The color contacts are gradational. The entire core is slightly bioturbated and mottled. Some burror fills contain fine-grained dark material
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			1		4		****	>	s	10Y 6/1	Slickensides occur along some of the angular fractures. Because no other indication of faulting or sediment deformation occurs, these structures may have been caused by drilling disturbance. The slickensides are represented by the microfault symbol in the structure are defined.
5	m	Z	<u> 1.1.1.1.1.1</u>		5		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	< ++++		5GY 6/1	in the structure column.

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10 20 20 30 0 10 20



			SIT	E 929 H	IOL	E	E CORE	28	BR		CORED 731.6 - 741.2 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	- MMmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm				1 2 3 4 5	early Eocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	+++++++++++++++++++++++++++++++++++++++	s s s	5GY 6/1 10GY 5/1 5GY 6/1 5Y 6/1 5GY 6/1 5GY 6/1	CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS, CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH FORAMINIFERS, and CLAYSTONE General Description: This core contains greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS, gray (10GY 5/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH FORAMINIFERS, and gray (5Y 6/1) CLAYSTONE. The color changes are very gradational. The entire core is slightly bioturbated. Moderate fracturing with drilling biscuits occurs in all sections, with some intervals being completely filled with drilling paste.



SITE 929 HOLE E CORE 29R CORED 741.2 - 750.9 mbsf Reflec- Magnetic Natural Sample Section Meter Q. Graphic Color Age Structure tance (%) susceptigamma Description Lith. (550 nm) bility² ray¹ CLAYEY NANNOFOSSIL MIXED S SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS General Description: This core contains gray (10Y 6/1) to light gray (10Y 7/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS. The color changes are very gradational. The entire core is slightly bioturbated. In Section 2, 116–117 cm, a thin S layer of black CLAYSTONE occurs. The entire core is slightly fractured 10Y **A luturuluru** 7/1 early Eocene due to rotary drilling. 10Y 6/1 5 10Y 7/1 М



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SITE 929

SI	TE 929 HOLE	E CORE 31R		CORED 760.6 - 770.2 mbsf	929E-31R 1	2 3	4	5 6
Natural gamma ray ¹ (550 nm) Keflec- Magnetic suscepti- bility ²	Graphic Lith.	Sturble Sample	Color	Description	5-73			
		×××××××××××××××××××××××××××××××××××××	5¥ 7/1	CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK WITH CALCAREOUS FRAGMENTS General Description: This core contains a light gray (5Y 7/1) CLAYEY NANNOFOSSIL MIXED SEDIMENTARY ROCK CALCAREOUS FRAGMENTS. The lithology and the color are uniform except for a thin layer of gray (5Y 6/1) CLAYSTONE WITH CALCAREOUS FRAGMENTS AND NANNOFOSSILS in Section 3, 50–55 cm. The entire core is slightly bioturbated. Small "specks" and "streaks" of disseminated pyrite are distributed throughout. The core is slightly to partially heavily fractured due to rotary drilling.				
	929E 32	2R NO RECO	VER)	, ,	130			

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SITE 929

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SITE 929 HOLE E CORE 33R

CORED 779.9 - 789.5 mbsf

Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Participanti Participanti		1 2 3	aleocene	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		S	5Y 7/1	CLAYEY NANNOFOSSIL LIMESTONE General Description: This core contains a light gray (5Y 7/1) to gray (10Y 6/1) CLAYEY NANNOFOSSIL LIMESTONE. The entire core is slightly bioturbated. Small "specks" and "streaks" of disseminated pyrite are distributed throughout. The core is slightly to partially heavily fractured due to rotary drilling.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Particular Part		4	late Pa	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	11111111111111		10Y 6/1	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Butter Carlo		5		* * * * * * * * *			5Y 7/1	
~	2	× 10 2	- L		7		~ ~ ~ ~	111/1/1	S M	10Y 6/1	

929E 34R Entire core given to paleontologists.



			SIT	E 929 H	IOL	E.	E CORE	3	5R		CORED 799.2 - 808.9 mbsf
Natural gamma ray ¹	Reflec- tance (%) (550 nm)	Magnetic suscepti- bility ²	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
3	5	3	. Lane		1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	++++	S	5Y 7/1	CLAYEY NANNOFOSSIL LIMESTONE and CLAYEY NANNOFOSSIL LIMESTONE WITH
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	S	L.L.		2	aleocene	3		s	5Y 6/1	General Description: This core contains light gray (5Y 7/1)
No.	1	5	P. L.		3	ď	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		м	5Y 7/1	CLAYEY NANNOFOSSIL LIMESTONE WITH FORAMINIFERS and gray (5Y 6/1) CLAYEY NANNOFOSSIL LIMESTONE. The
0 10 3	30 40	05									entire core is slightly bioturbated. Small "specks" and "streaks" of disseminated pyrite are distributed throughout. The core is moderately fractured (biscuits) due to rotary drilling.

