

# NGHP Expedition 1

## Cored Interval Site 21 - Hole A

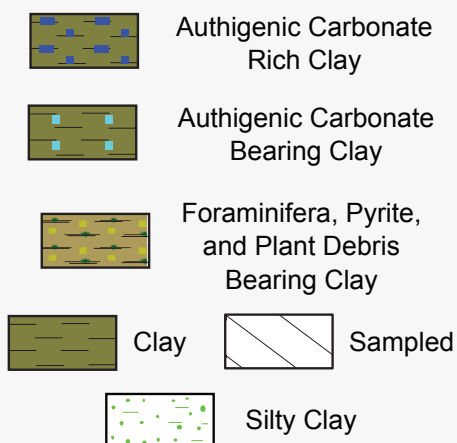
1049 Seafloor (m)

### Barrel Sheet Key

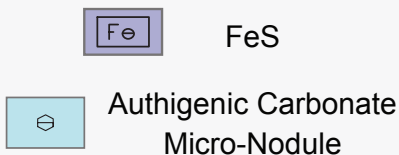
#### Cored & Recovered:



#### Lithology:



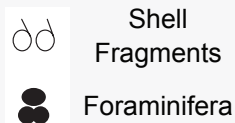
#### Diagenesis:



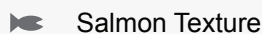
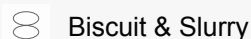
#### Structures:



#### Fossils:



#### Disturbance:



CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 01X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			U Sand								
			M Sand								
			VF Sand								
			Silt								
			Clay								
49	1	1					Ø		☉	☉	MAJOR LITHOLOGY: Clay COLOR: 10YR 2.5/1 Black DIAGENESIS: Authigenic carbonate micro-nodules in Sec. 1 at 41-42, 51-59cm FOSSILS: Shell fragments in Sec. 1 at 12cm DISTURBANCE: Very disturbed in Sec. 1 at 0-4cm Mousse texture in Sec. 1 at 63-67, 82-87cm SMEAR SLIDES: Sec. 1 at 60cm
50		2			HYD7						
		c			HYD4						
		c			IW						
51											
52											
53											
54											
55											
56											
57											
58											

Depth (mbfs)	CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 02Y									
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description	
			Grain Size									
			VC Sand	MC Sand								
58	X											No core recovered
59												

Depth (mbfs)	CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 03E									
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description	
			Grain Size									
			VC Sand	VF Sand								
59	X											No core recovered
60	X											

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 04X							Description	
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
			Grain Size								
			VC Sand	Clay							
60	4	1									<p>MAJOR LITHOLOGY: Clay / Foraminifera, Pyrite and Plant Debris Bearing Clay            COLOR: 10YR 2.5/1 Black            DIAGENESIS: Authigenic carbonate micro-nodules in Sec. 1 at 95-100cm; Sec. 2 at 49cm            DISTURBANCE: Biscuits/slurry in Sec. 4 throughout            Mousse texture in Sec. 1 at 0-52cm; Sec. 2 at 8-30cm            SMEAR SLIDES:            Sec. 2 at 10cm            Sec. 2 at 52cm</p>
61		2									
62		3				IW, HYD5					
63		4				IW					
64		c									
		c									

CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 05X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			W Sand								
			VF Sand								
			Silt								
			Clay								
65	5	1									MAJOR LITHOLOGY: Authigenic Carbonate Bearing Clay COLOR: 2.5Y 4/2 Greyish brown DISTURBANCE: Moderately disturbed throughout SMEAR SLIDES: Sec. 1 at 10cm
66											
67											
68											
69											

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 06Y												
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description				
			Grain Size												
			VC Sand	Clay											
69	6	1										<p>MAJOR LITHOLOGY: Authigenic Carbonate Bearing Clay            MINOR LITHOLOGY: Iron Monosulfide Rich Clay            COLOR: 2.5Y 2.5/1 Black            DISTURBANCE: Moussey texture in Sec. 1 at 6-15cm            Soupy in Sec. 1 at 29-45cm            SMEAR SLIDES:            Sec. 1 at 65cm            Sec. 1 at 69cm</p>			
70															

Depth (mbsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 07E								
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand V Sand M Sand F Sand	Silt	Clay						
70	7	1					Fe				<p>MAJOR LITHOLOGY: Authigenic Carbonate Rich Clay            COLOR: 10Y 2.5/1 Greenish black            DIAGENESIS: Iron monosulfides in Sec. 1 at 20cm            DISTURBANCE: Salmon texture in Sec. 1 at 0-47cm            Mousse texture in Sec. 1 at 74-112cm            SMEAR SLIDES:            Sec. 1 at 40cm</p>
71											



CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 08X									
Depth (mbsf)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
			Grain Size								
			VC Sand								
			W Sand								
			MF Sand								
			Silt								
			Clay								
71		1			VOID						MAJOR LITHOLOGY: Authigenic Carbonate Bearing Clay / Clay COLOR: 10Y 2.5/1 Greenish black FOSSILS: Shell fragments in Sec. CC at 16cm DISTURBANCE: Very disturbed in Sec. 1 at 86-100cm Mousse texture in Sec. 1 at 3-25cm Gas expansion cracks in Sec. 3 at 28-129cm Moderately disturbed in Sec. 4 at 4-22, 28-32, 39-45, 73-93cm SMEAR SLIDES: Sec. 3 at 80cm Sec. 4 at 43cm
					VOID						
72		2			HYD124 PNN						
					1YD125, MAR, MAF, MAG						
73		3									
74		4			EXO						
75		5			PV, HYD126						
						IW					
		CC									
		CC									

CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 09X							Description	
Depth (mbsf)	Cored / Recovered	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
		Grain Size								
	Section	VC Sand	VC Sand	VC Sand	VC Sand	Silt	Clay			
76	1	[Greenish black clay with silt patches]								<p><b>MAJOR LITHOLOGY:</b> Clay / Authigenic Carbonate Rich Clay  <b>COLOR:</b> 10Y 2.5/1 Greenish black in Sec. 1 at 0-80cm, Sec. 6, and Sec. CC            10Y 3/1 Very dark greenish grey in Sec. 1 (at 80-127cm), 2, 3 and 5  <b>STRUCTURE:</b> Silt patches in Sec. 5 at 50, 65cm  <b>FOSSILS:</b> Visible forams in Sec. 2 at 0-28cm; Sec. 3 at 14-18cm  <b>DISTURBANCE:</b> Mildly disturbed in Sec. 1 at 0-3cm; Sec. 2 at 23-27cm            Mild biscuits/slurry throughout core  <b>SMEAR SLIDES:</b>            Sec. 2 at 78cm            Sec. 6 at 36cm</p>
77	2	[Greenish black clay with silt patches]		EXO, MAR, MAF, MAG						
78	3	[Greenish black clay with silt patches]								
79	4	[Greenish black clay with silt patches]		IW, HYD127						
80	5	[Greenish black clay with silt patches]		PV						
81	6	[Greenish black clay with silt patches]		MBR, MBF, MBG, EXO						
82	CC	[Greenish black clay with silt patches]								

Depth (mbstf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 10Y									
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description	
			Grain Size									
80	1	1	VC Sand M Sand VF Sand	Silt Clay								<p>MAJOR LITHOLOGY: Clay            COLOR: 5GY 3/1 Very dark greenish grey            FOSSILS: Shell fragments in Sec. 1 at 41-42cm            DISTURBANCE: Moderately disturbed in Sec. 1 at 15-22, 32-35, 62-87cm            Moussey texture in Sec. 1 at 0-15, 71-78cm            Gas expansion cracks throughout            SMEAR SLIDES:            Sec. 1 at 50cm</p>
81					IW							

Depth (mbfsf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 11E									
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description	
			Grain Size									
			VC Sand	W Sand	MF Sand	Silt	Clay					
81	1	1										Entire core sampled and kept under pressure
82												

Depth (mbstf)	CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 12X							Description	
	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure	Fossils		Disturbance
			Grain Size								
			VC Sand	Clay							
82		1			PV						<p>MAJOR LITHOLOGY: Silty Clay            COLOR: N/3 Very dark grey            STRUCTURE: Silt patch in Sec. 5 at 84cm            FOSSILS: Visible forams and shell fragments rare throughout entire core            DISTURBANCE: Mild biscuits/slurry throughout core            Gas expansion cracks in Sec. 5 at 98-122cm            SMEAR SLIDES:            Sec. 2 at 37cm            Sec. 6 at 60cm</p>
		2			VOID						
84		3			PV, HYD139, HYD138, HYD137, HYD136, HYD135, HYD134, HYD133, HYD132, HYD131, HYD130, HYD129, HYD128						
		4			IW						
					VOID						
86		5									
87		6									
88		7									
		c									
		c									

CORE		SEDIMENTARY LOG NGHP-1 / Site 21A / Core 13X							Description				
Depth (mbfs)	Cored / Recovered	Section	Lithology		Sampling	Bioturbation	Diagenesis	Structure		Fossils	Disturbance		
			Grain Size										
			VC Sand	W Sand	MF Sand	Silt	Clay						
87		1										GRS	Entire core sampled
88													
89													
90													
91													