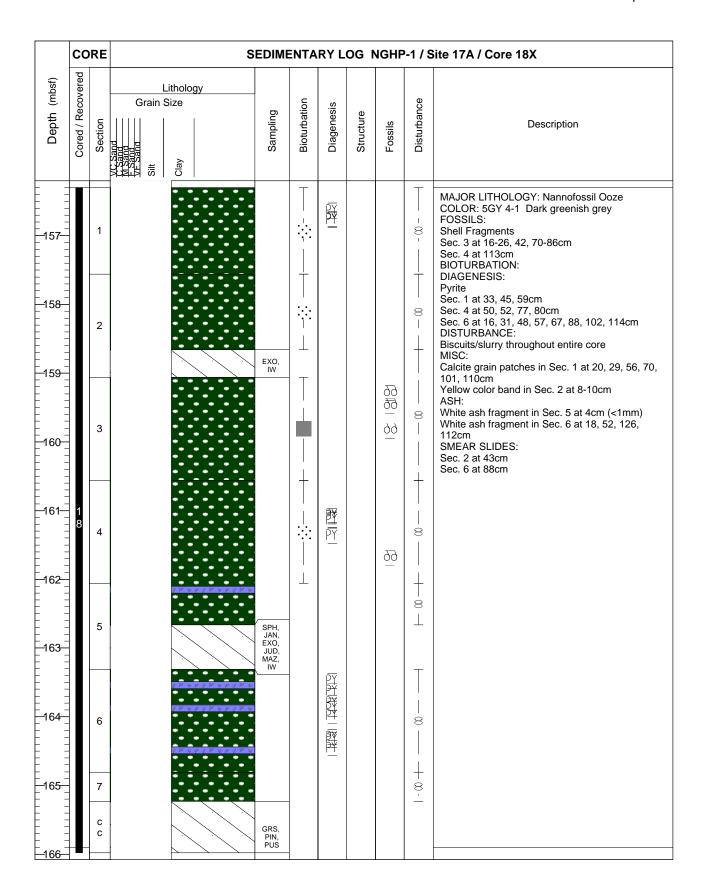
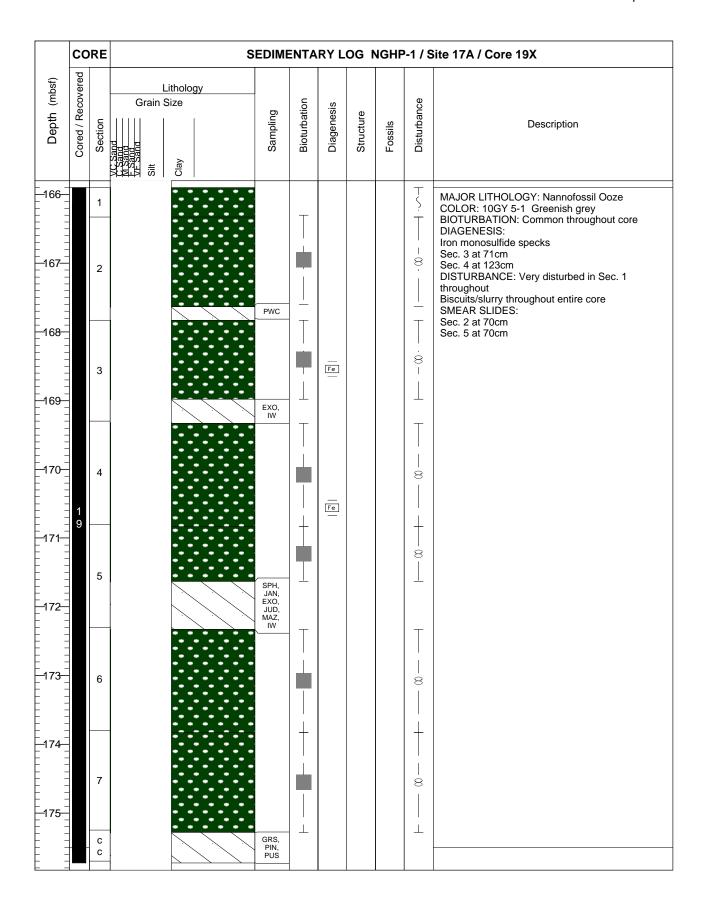
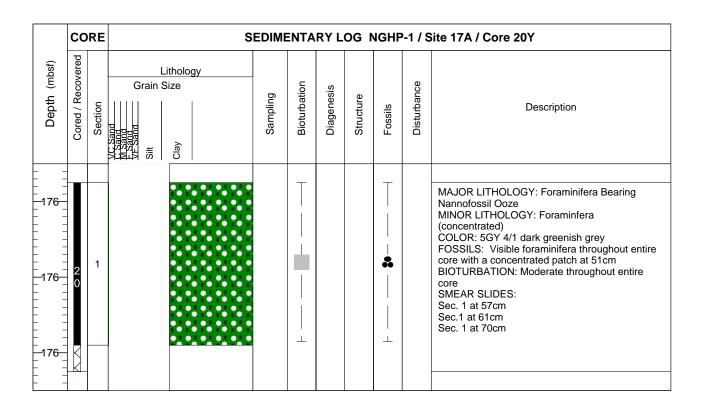
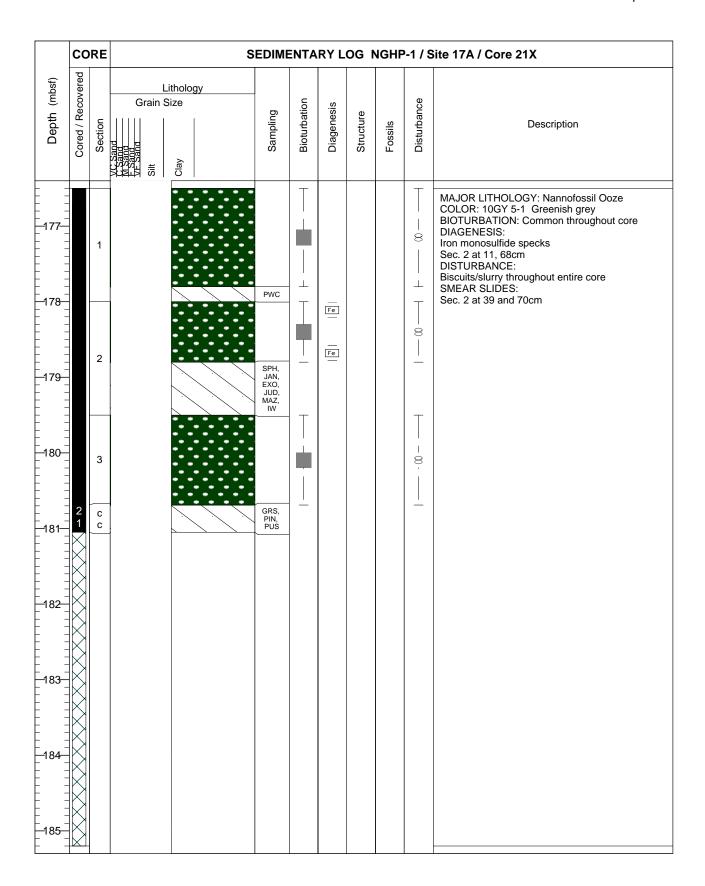


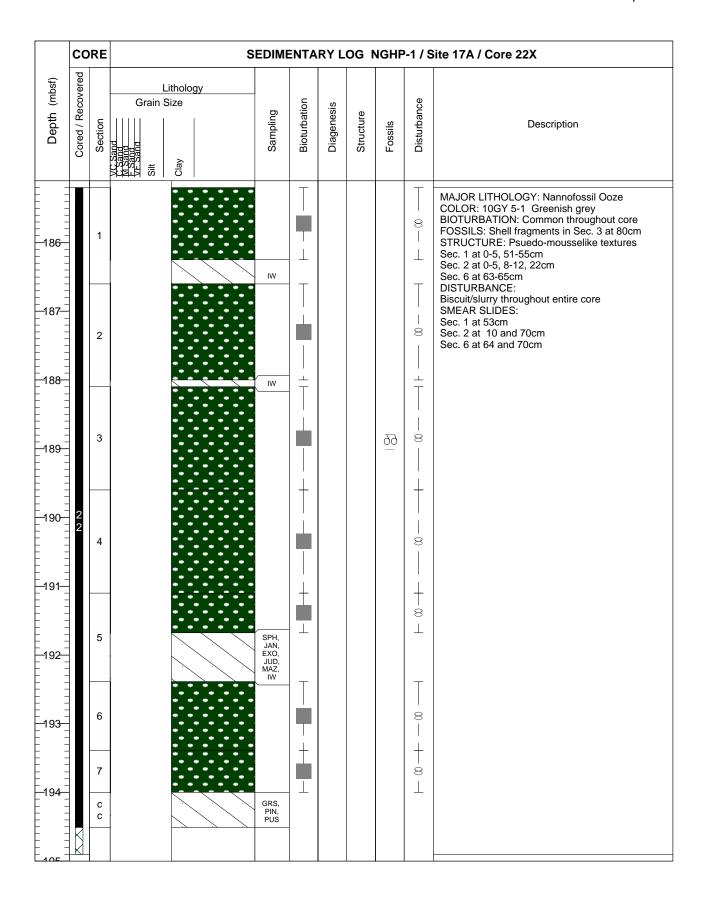
	СО	RE	SEDIMENTARY LOG NGHP-1 / Site 17A / Core 17X							
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-149 -149 -150 -151 -152 -153 -153 -153 -153 -153 -153 -153 -153		1 0 0		GRS, PIN, PUS				+ ◆ * +	F∞1	MAJOR LITHOLOGY: Authigenic Carbonate Rich Nannofossil Ooze COLOR: 10GY 4/1 Dark greenish grey FOSSILS: Visible foraminifera throughout entire core BIOTURBATION: Rare throughout entire core DIAGENESIS: FeS spots at 14, 21, 28cm DISTURBANCE: Biscuits/slurry throughout entire core 0-12cm highly disturbed SMEAR SLIDES: Sec. 1 at 21cm

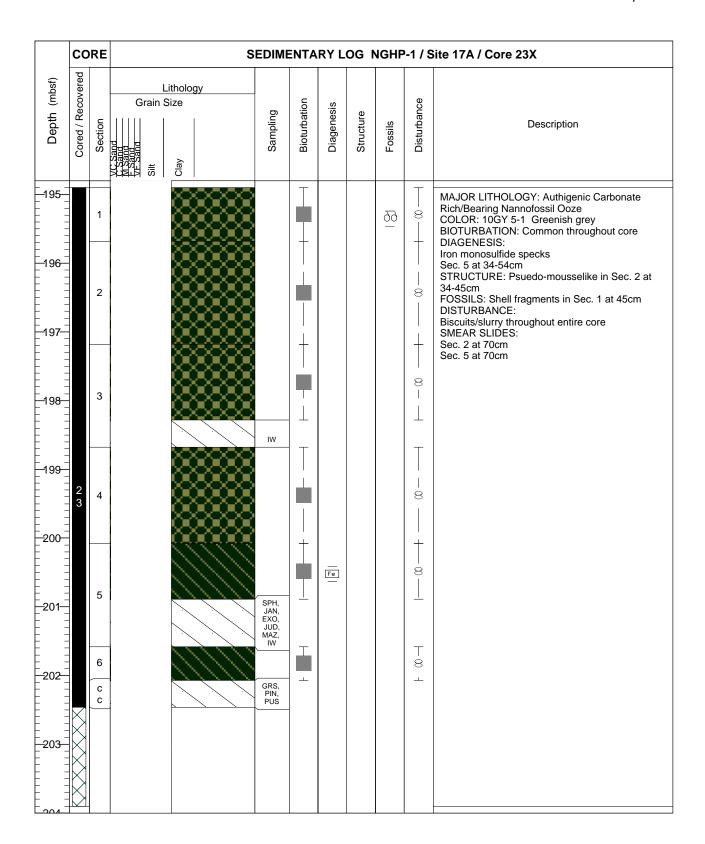


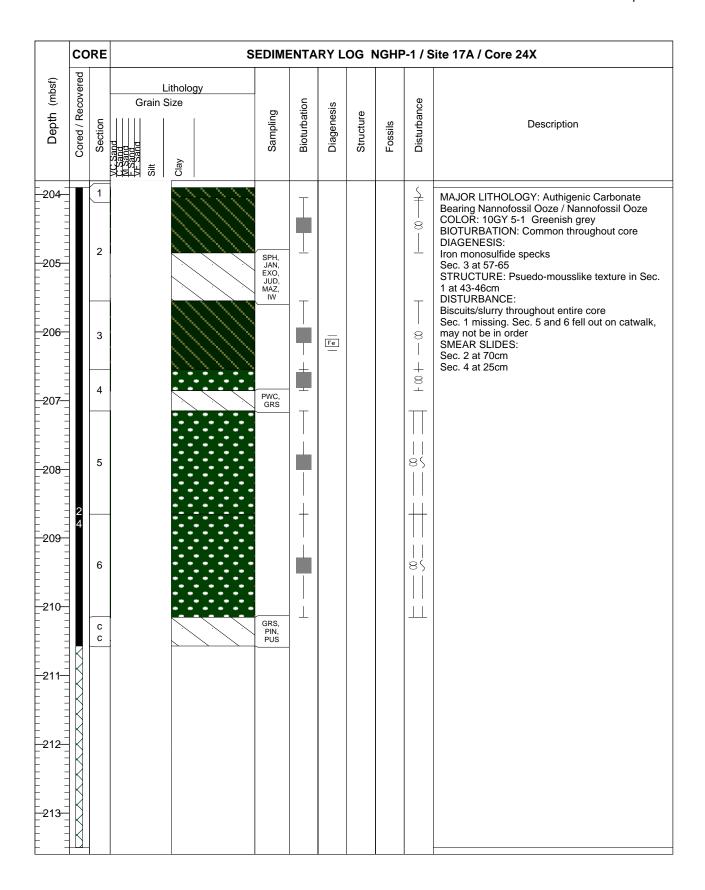


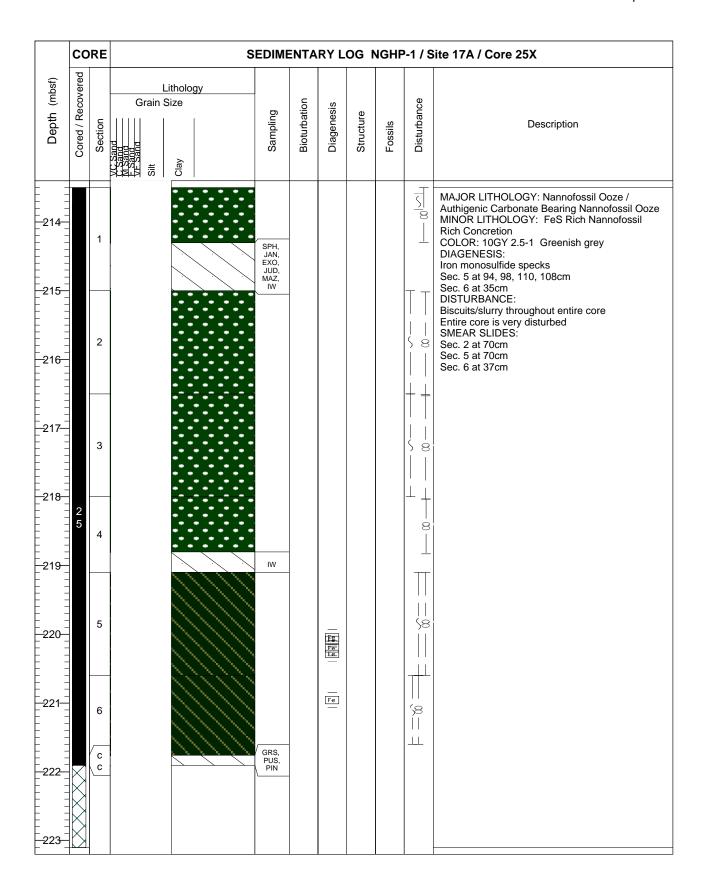




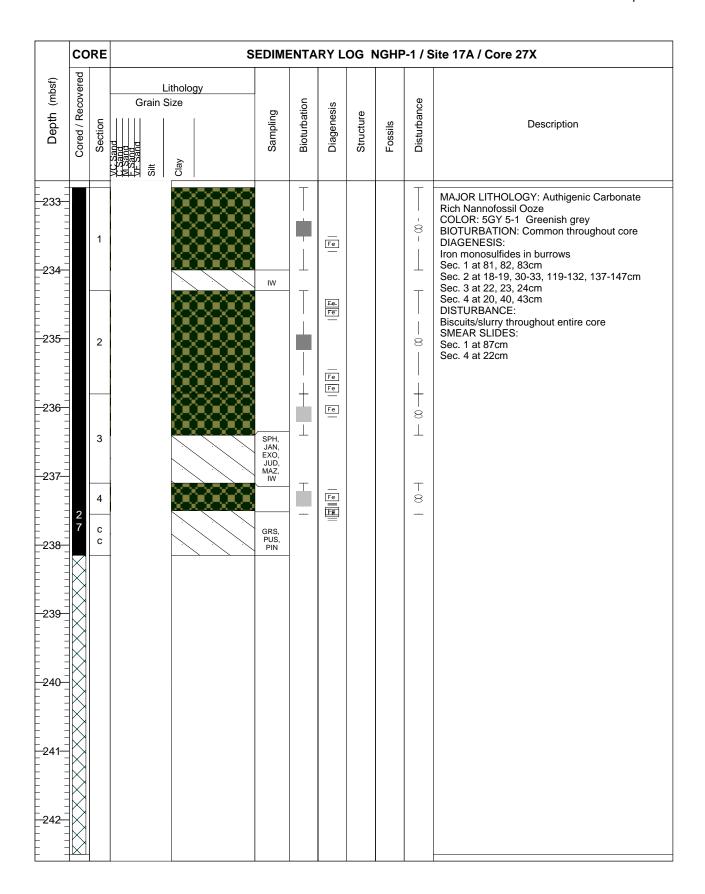


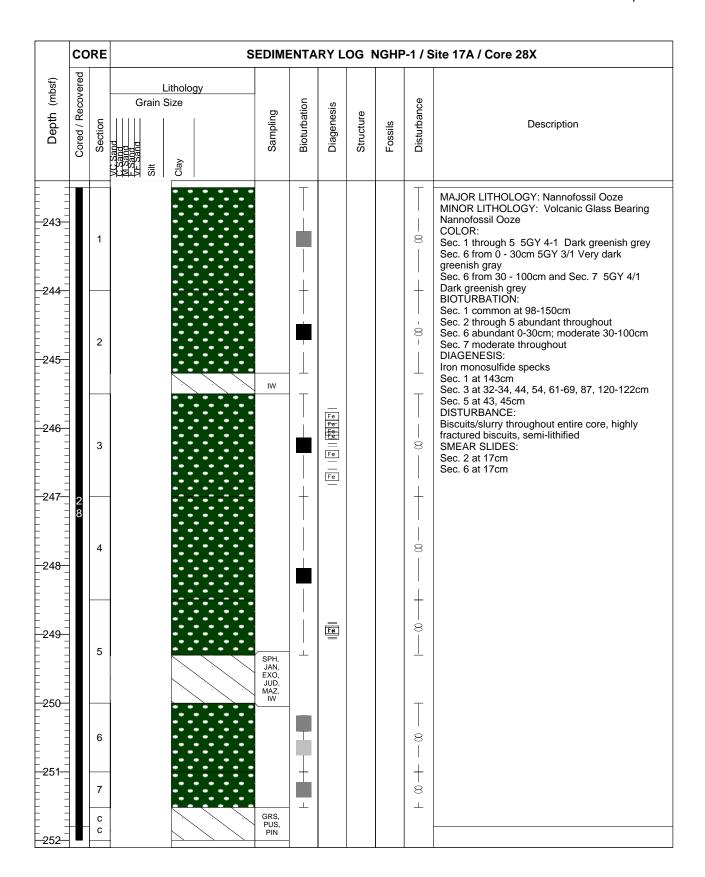


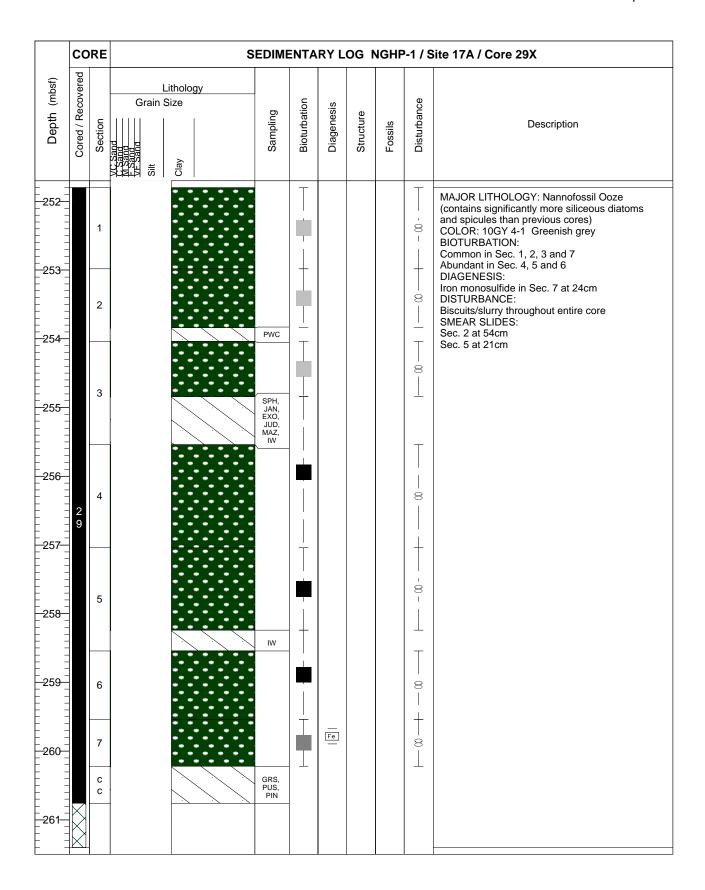


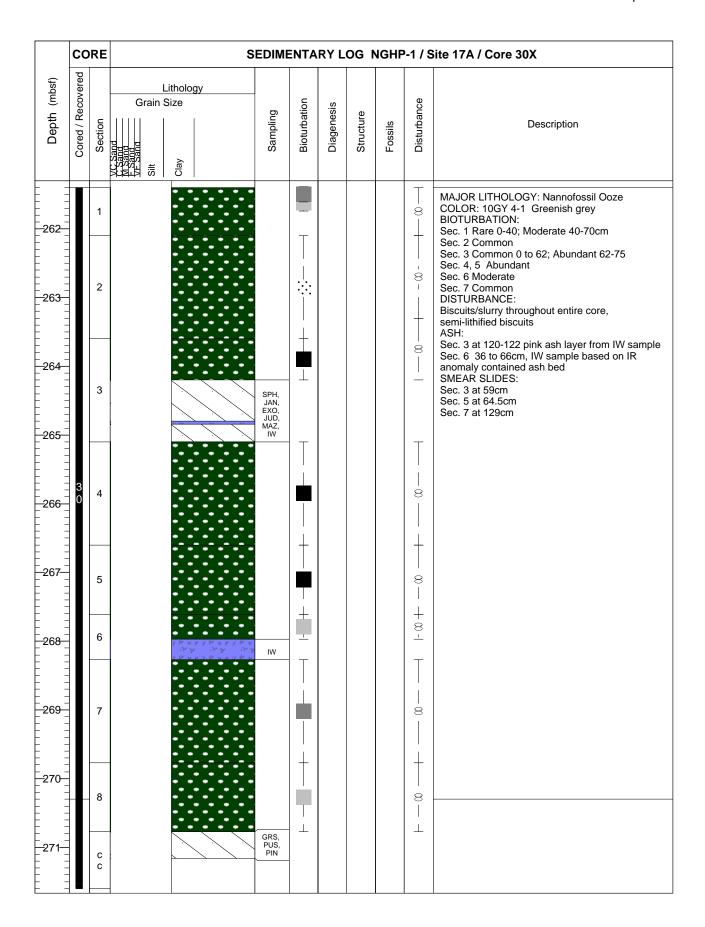


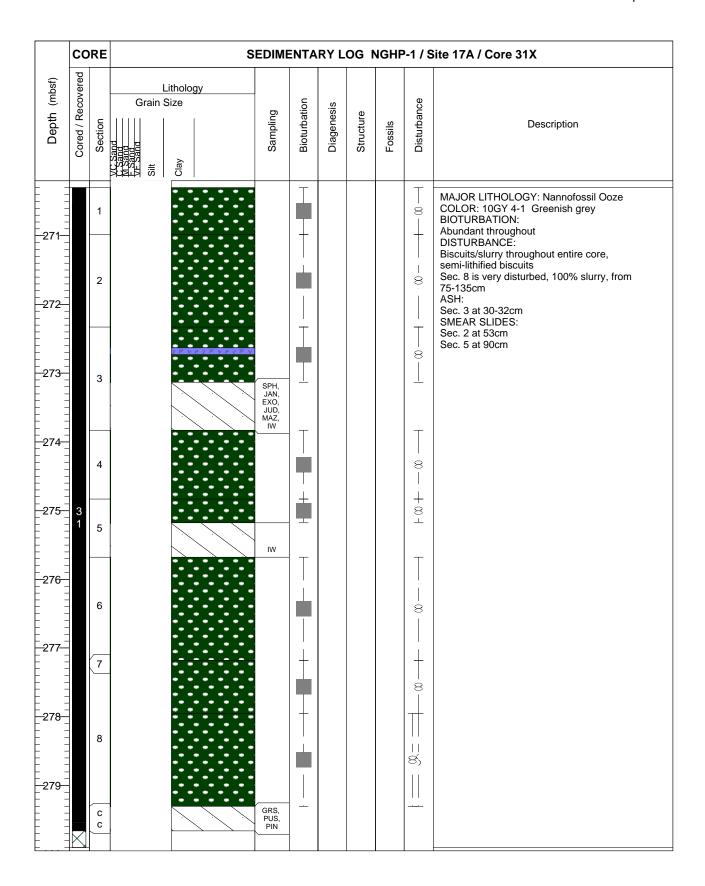
	СО	RE	E SEDIMENTARY LOG NGHP-1 / Site 17A / Core 26X								
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description	
-224 -225 -225 -226 -227 -228 -228 -230 -231 -231 -231 -232		1 2 4 C C C		SPH, JAN, EXO, JUD, MAZ, IW					$\overline{}$	MAJOR LITHOLOGY: Authigenic Carbonate Rich Nannofossil Ooze COLOR: Sec. 1 through Sec. 3 10GY 5-1 Greenish grey Sec. 4 at 0 to 47cm 10Y 5/1 Greenish grey Sec. 4 at 47 to 124cm 10GY 5/1 Greenish grey DISTURBANCE: Biscuits (semi-lithified)/slurry throughout entire core SMEAR SLIDES: Sec. 2 at 110cm	

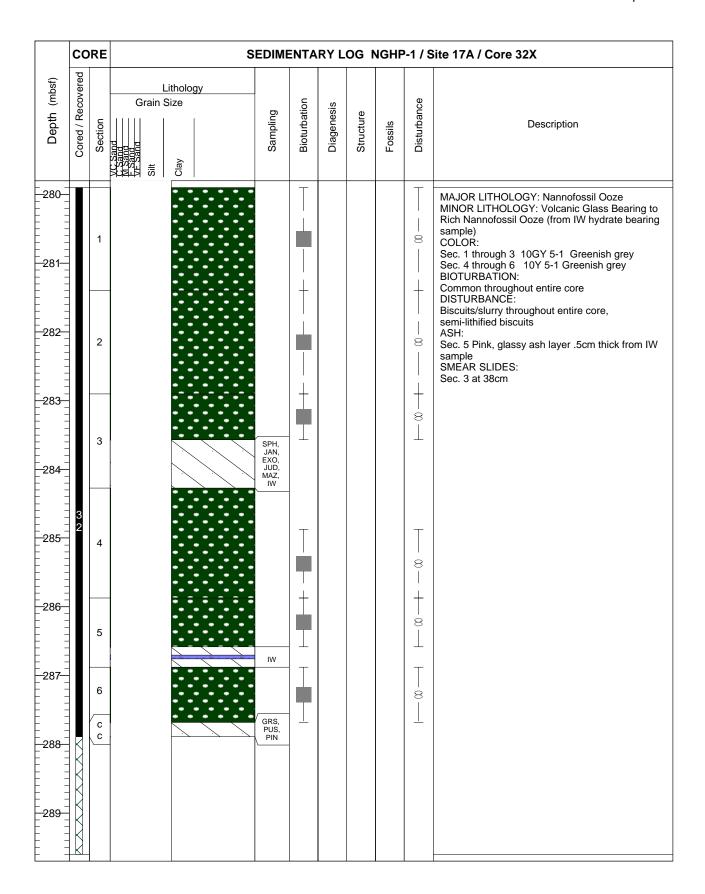




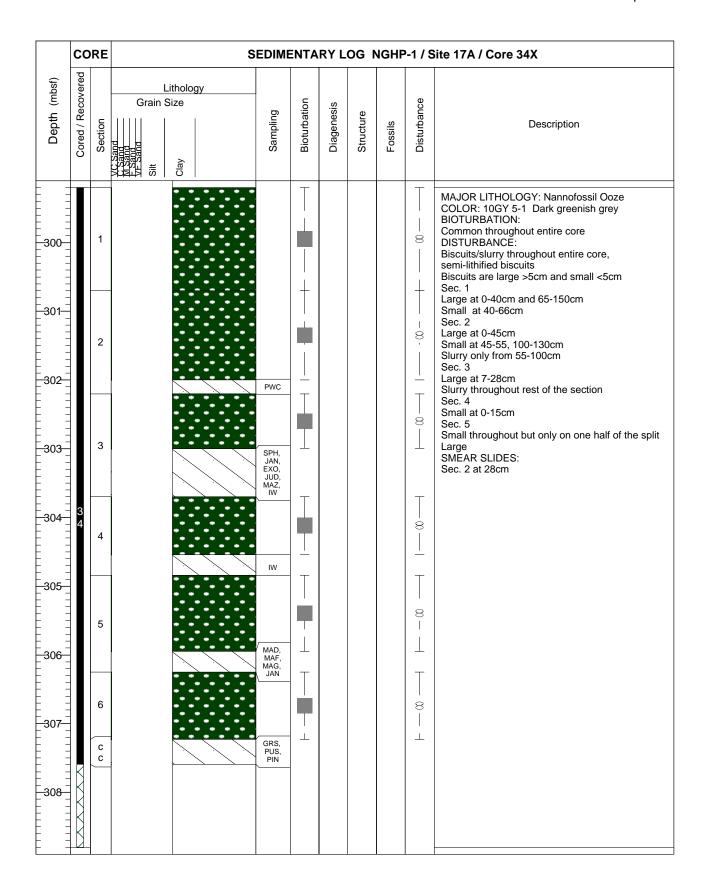


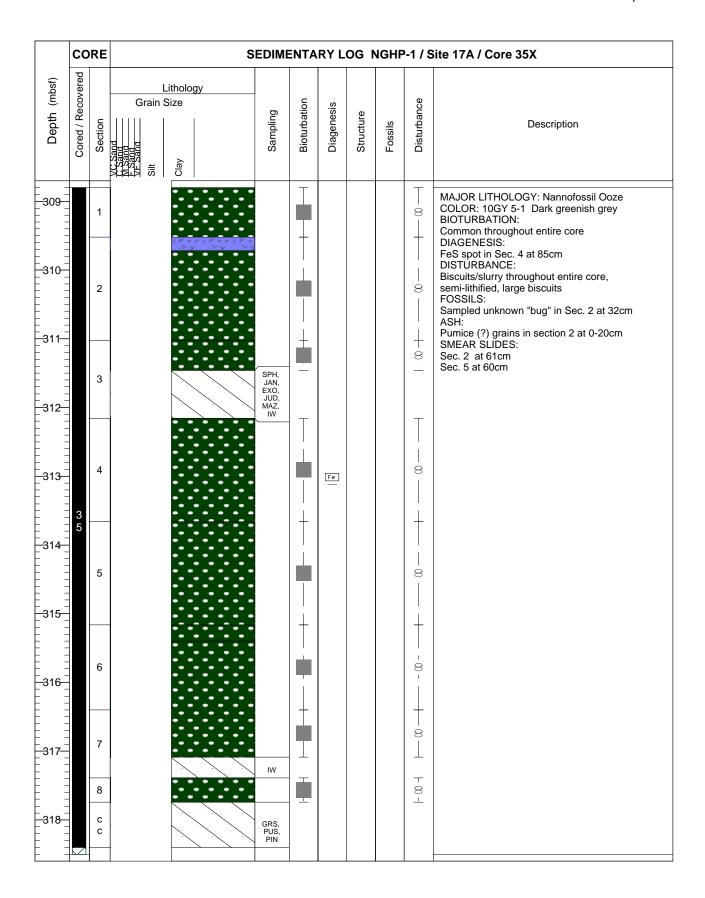


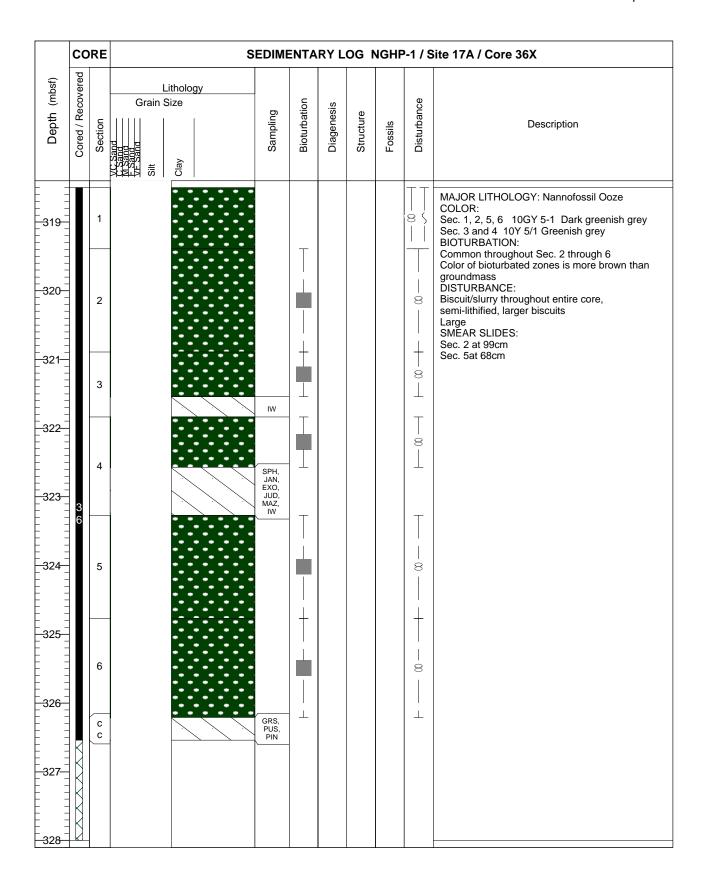


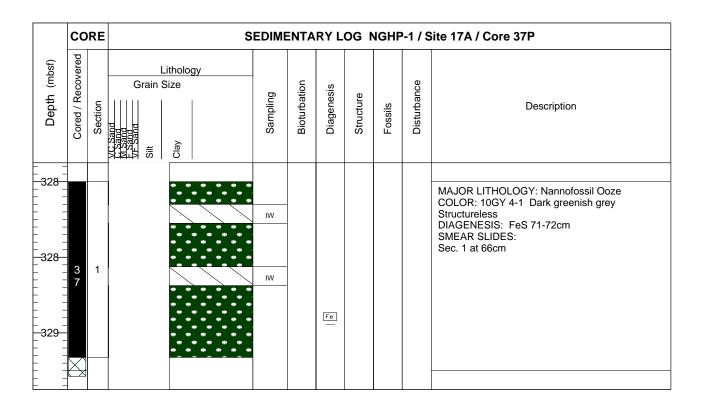


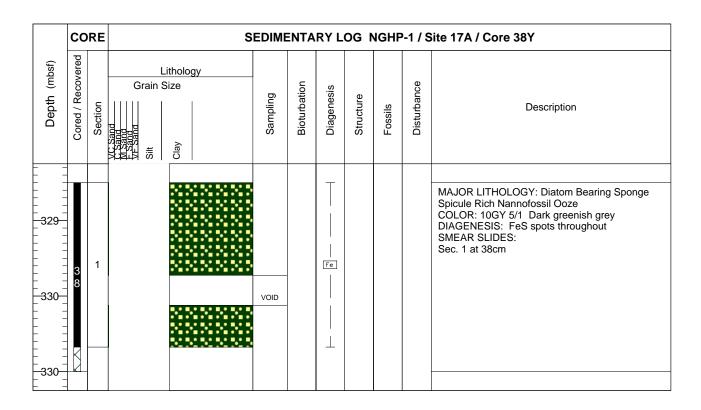
	СО	RE	SEDIMENTARY LOG NGHP-1 / Site 17A / Core 33X							
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
291	\square	1 2 c c c		SPH, JAN, EXO, JUD, MAZ, IW					$\vdash \infty \dashv \qquad \vdash \infty \dashv$	MAJOR LITHOLOGY: Nannofossil Ooze COLOR: 10GY 5-1 Dark greenish grey BIOTURBATION: Common throughout entire core DISTURBANCE: Biscuits/slurry throughout entire core, semi-lithified biscuits SMEAR SLIDES: Sec. 2 at 12cm

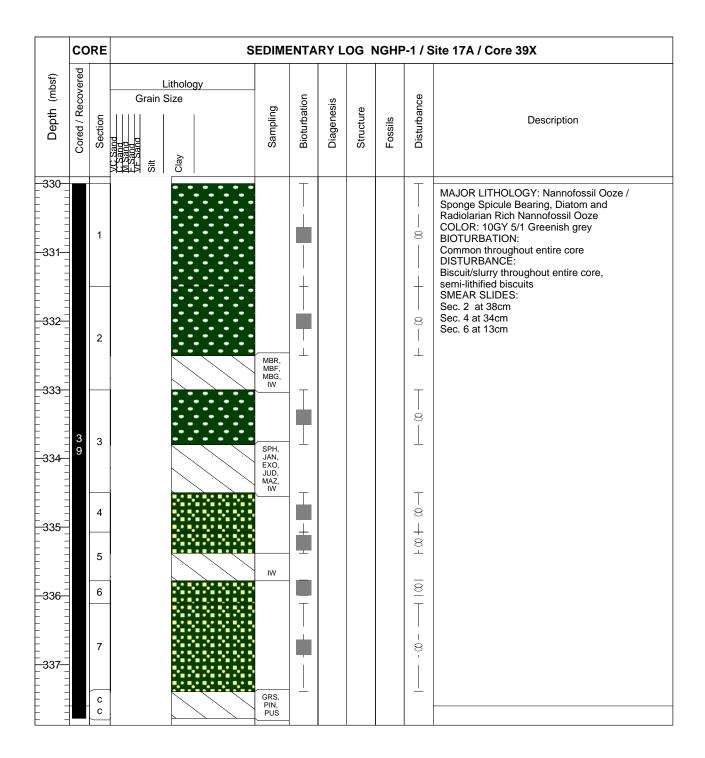


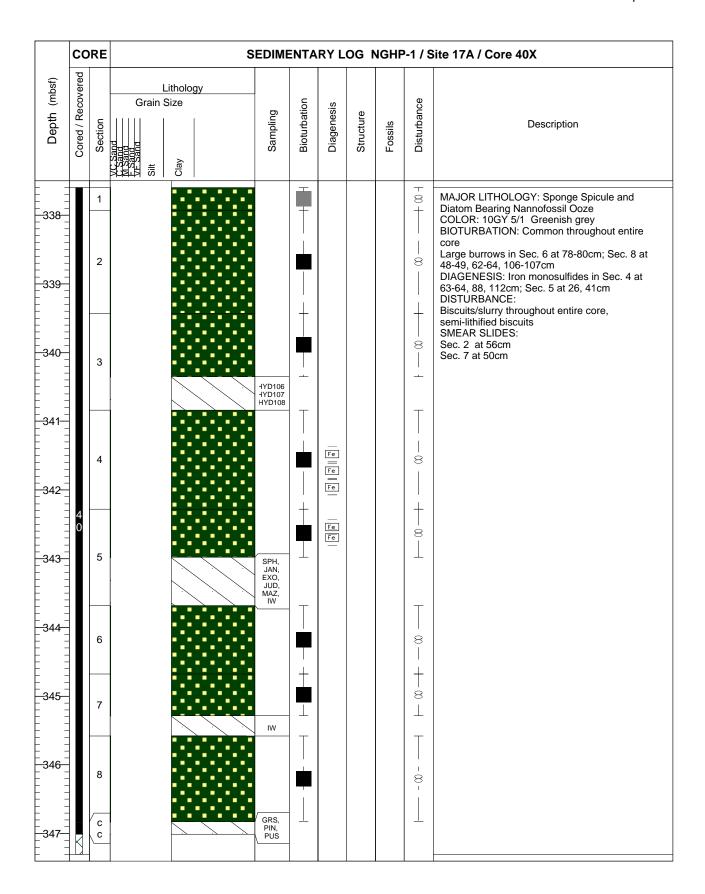


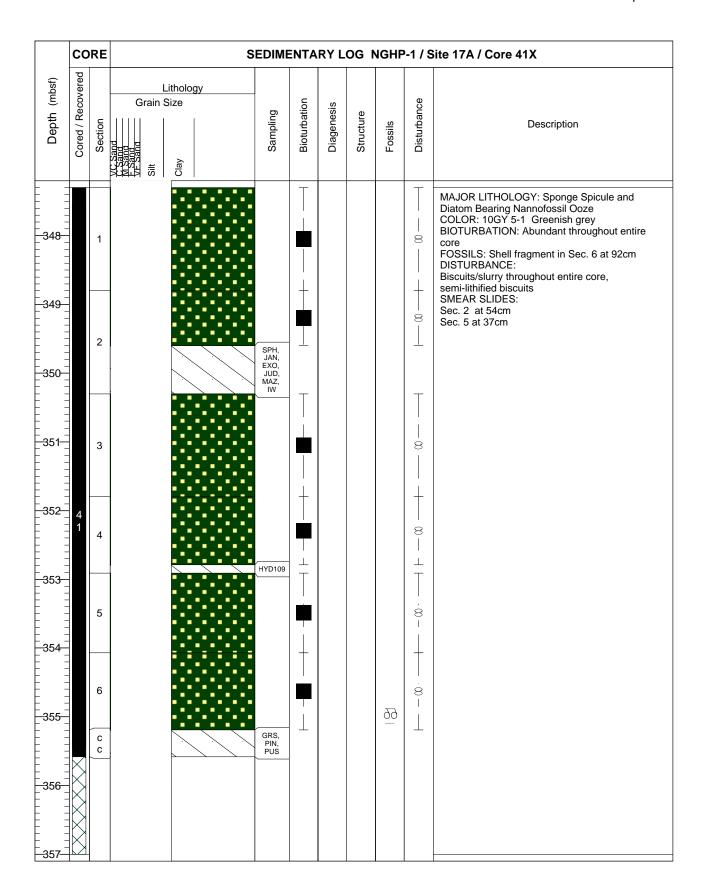


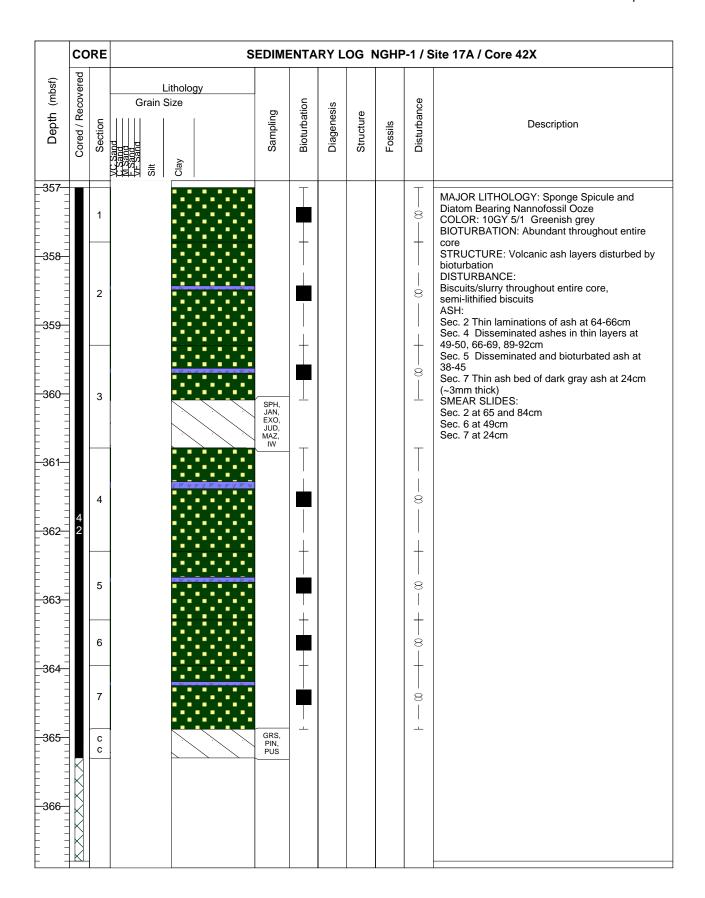


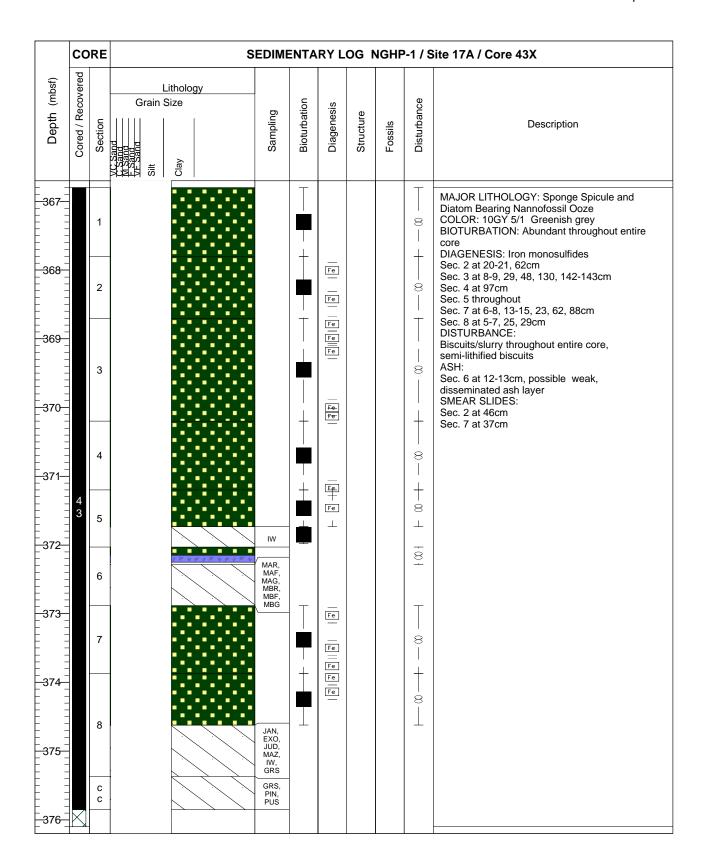


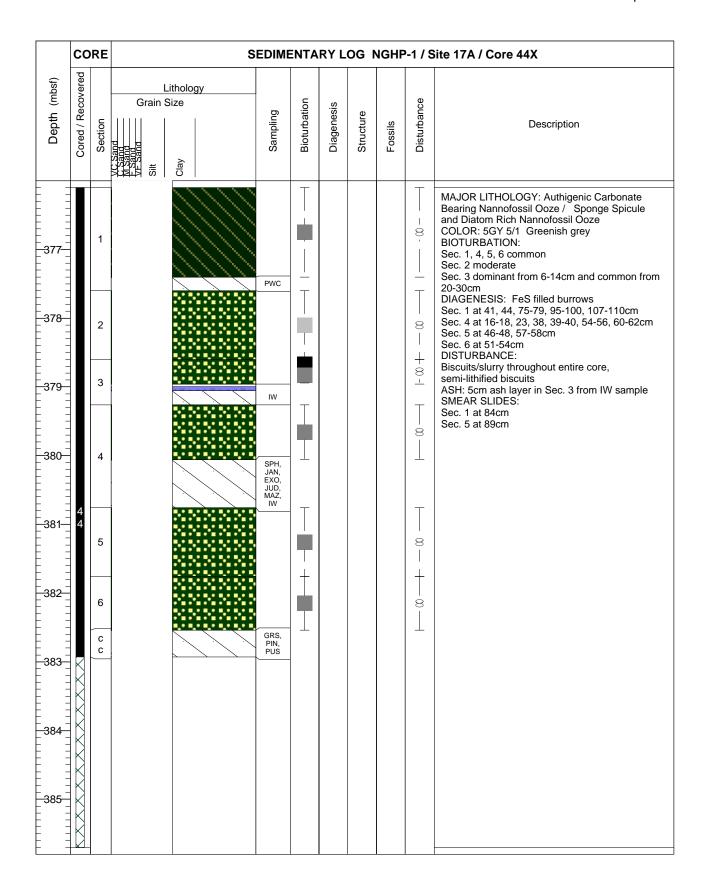




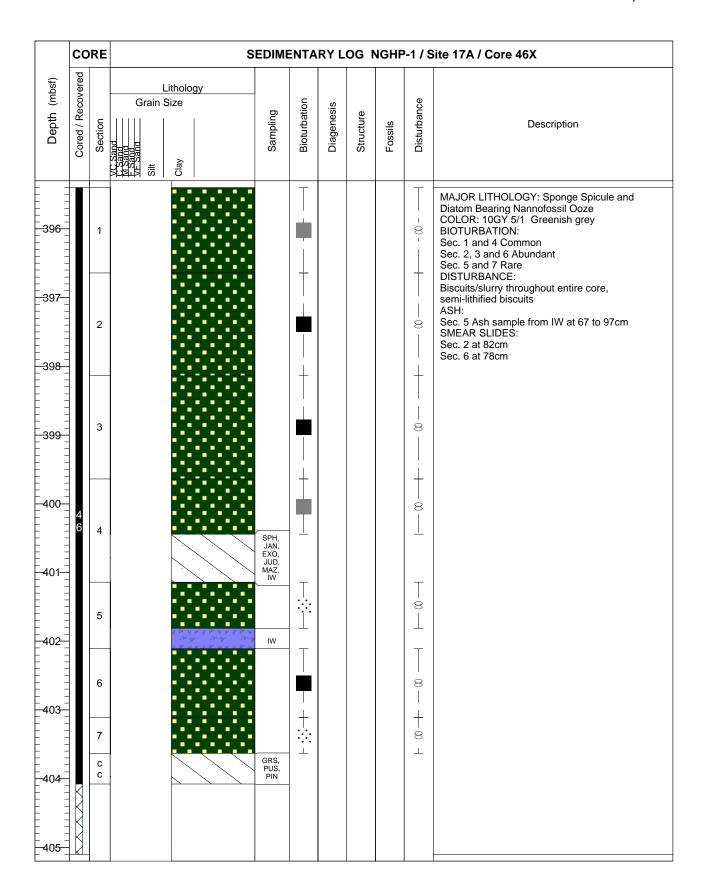


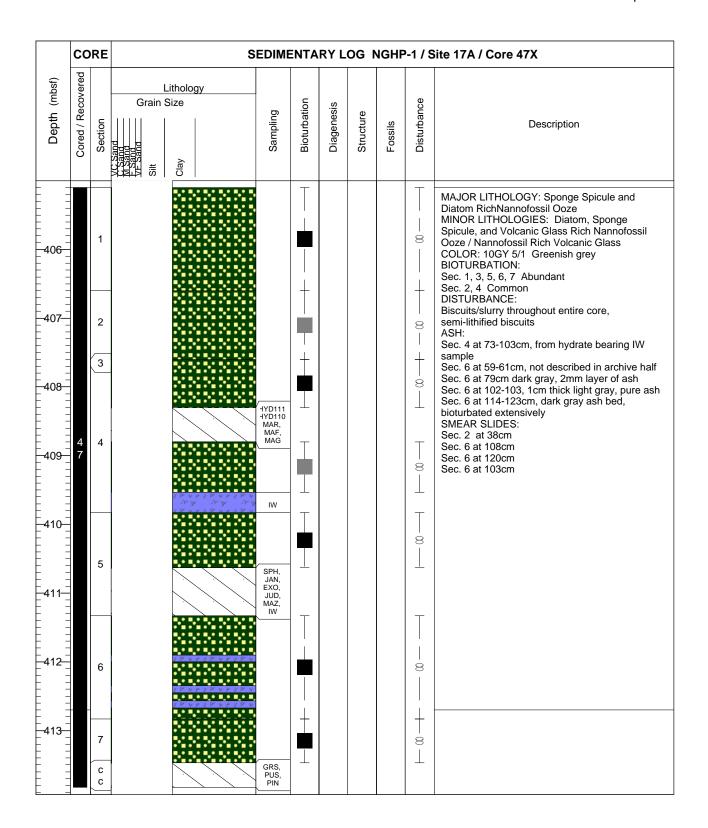


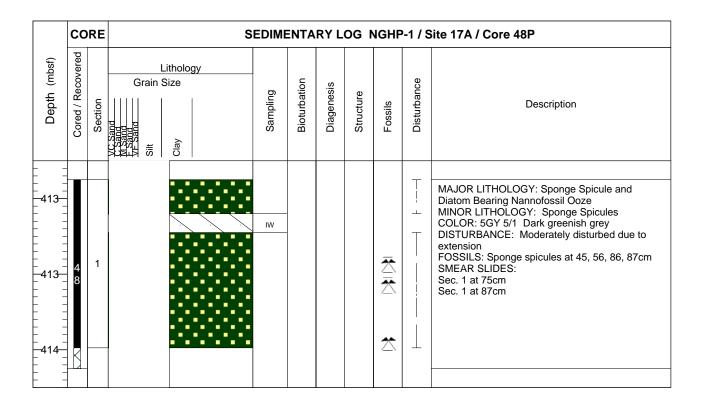


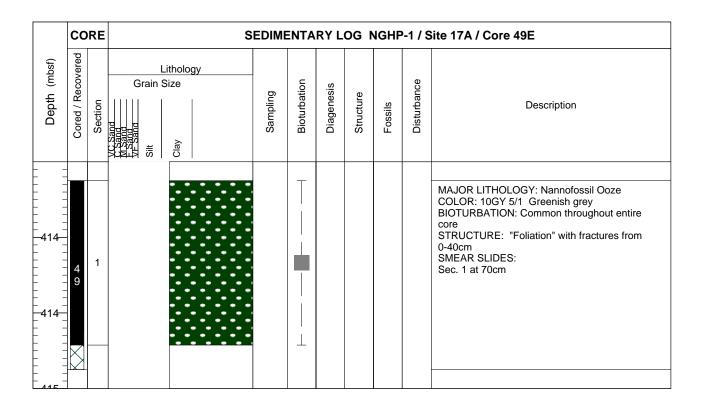


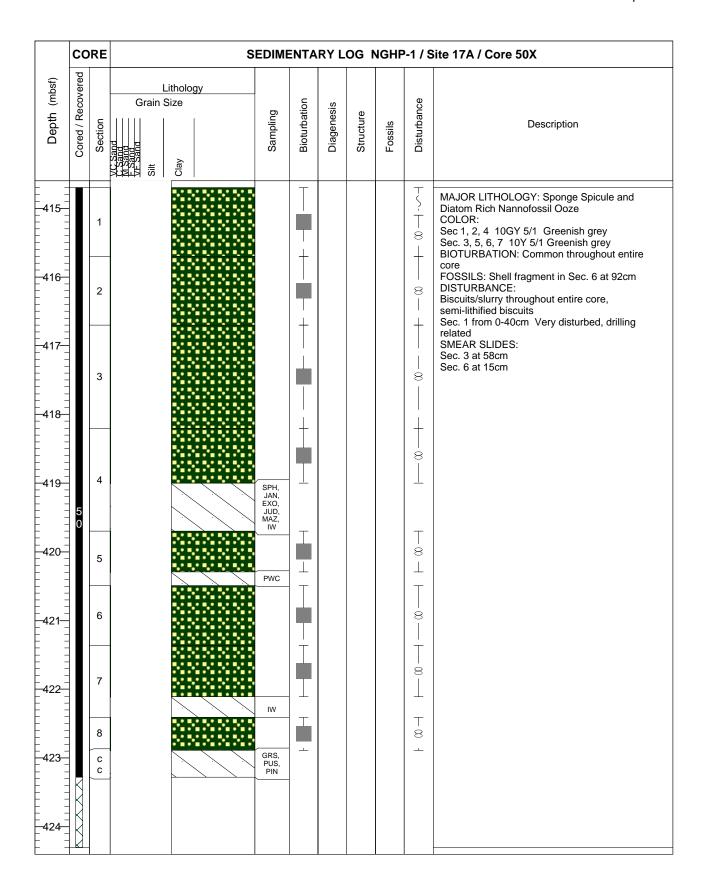
	СО	RE	s	EDIME	ENTA	RY L	OG N	NGHP	P-1 / S	Site 17A / Core 45X
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-388 -388 -389 -391 -391 -391 -392 -393 -393 -393	45	1		IW GRS, PUS, PIN	\vdash				$\vdash \omega \dashv$	MAJOR LITHOLOGY: Carbonate Rich Nannofossil Ooze COLOR: 5GY 5/1 Greenish grey BIOTURBATION: Common throughout entire core DIAGENESIS: FeS filled burrows at 24-26, 35-37, 42-44, 46-48cm DISTURBANCE: Biscuits/slurry throughout entire core, semi-lithified biscuits SMEAR SLIDES: Sec. 1 at 34cm

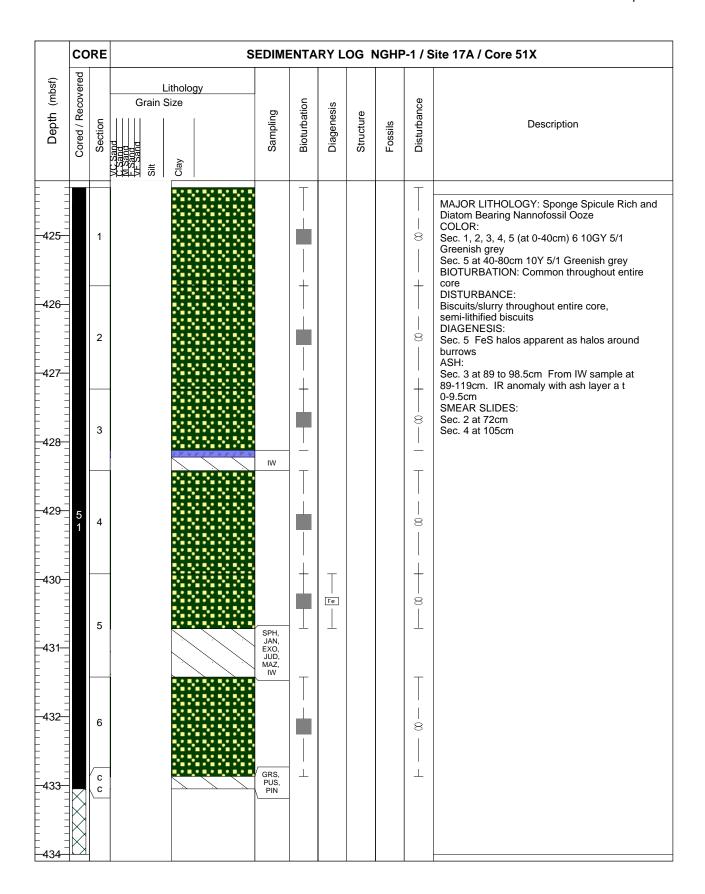


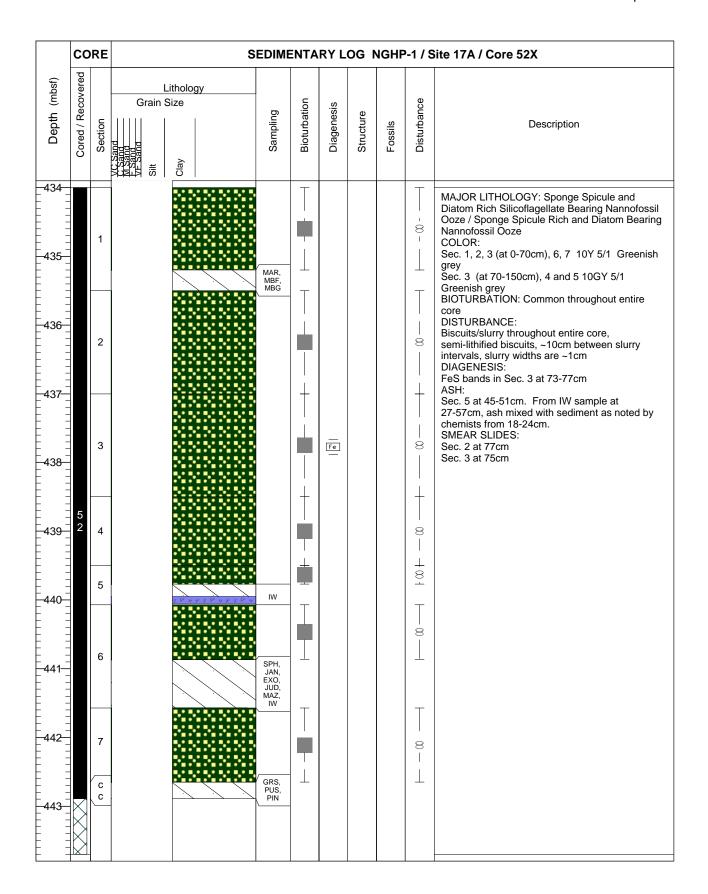


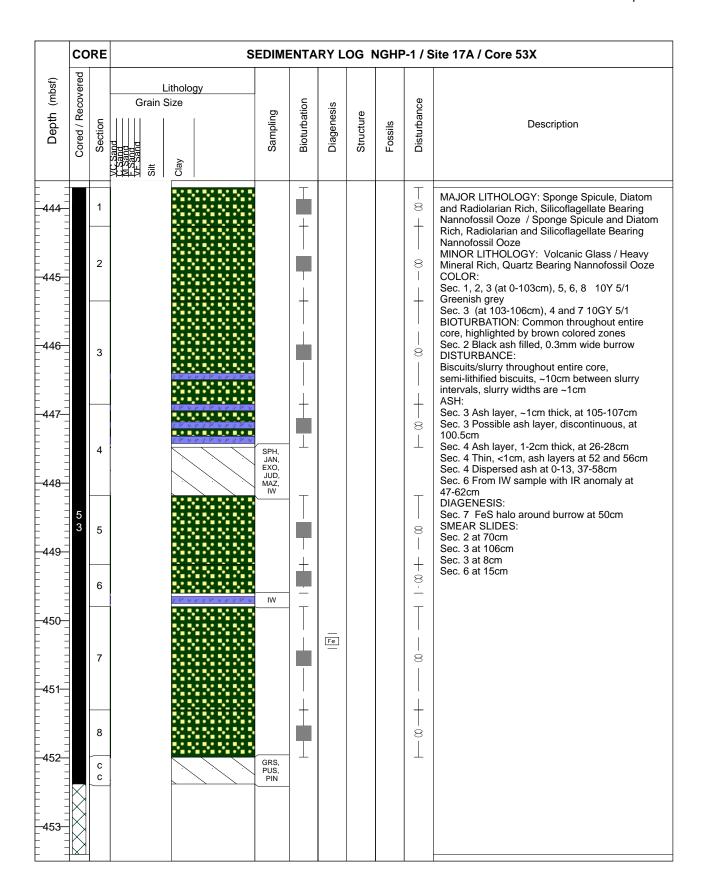


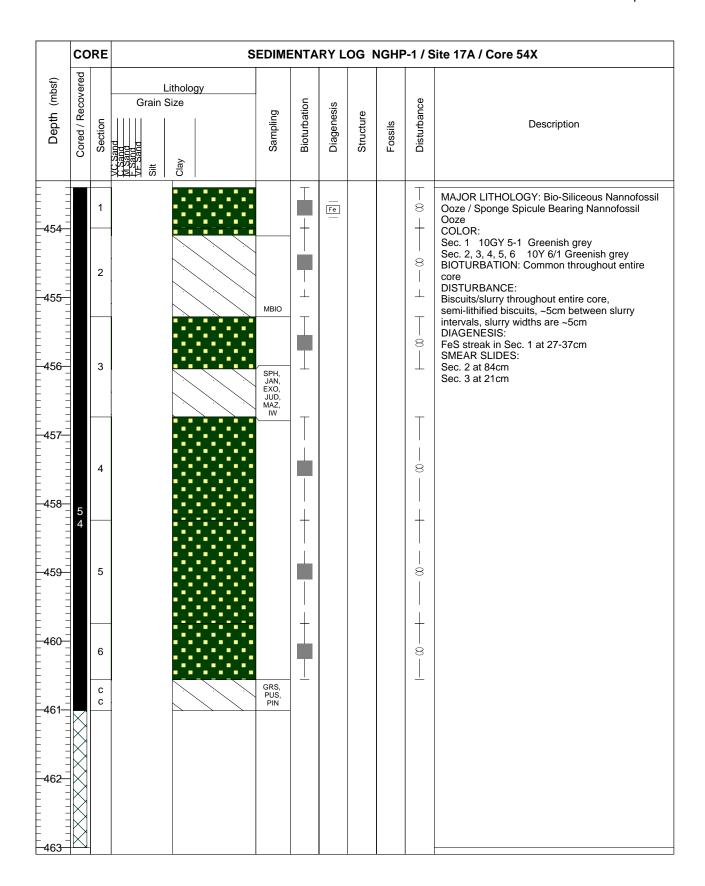




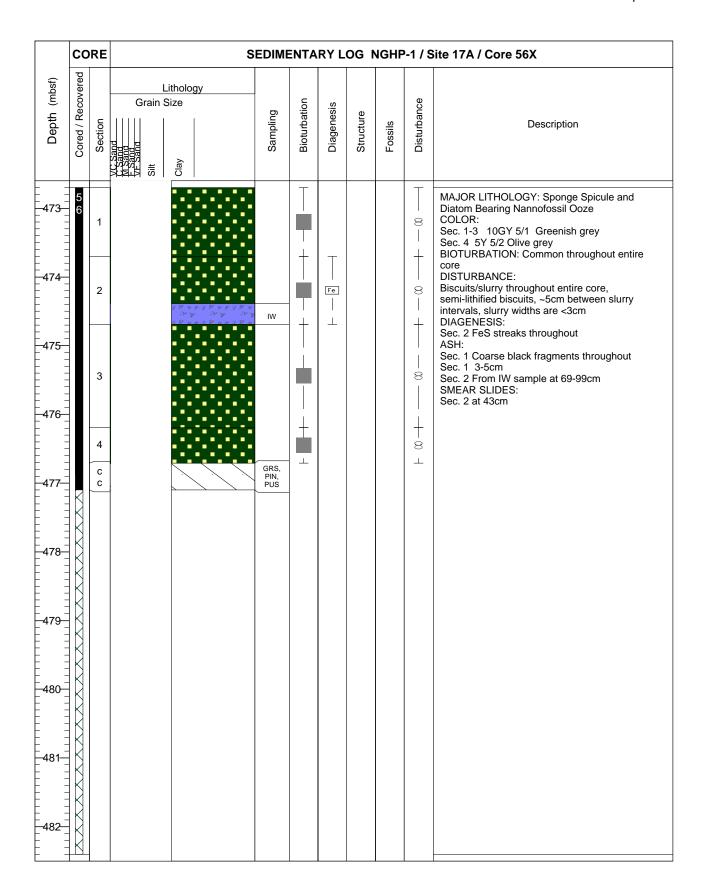


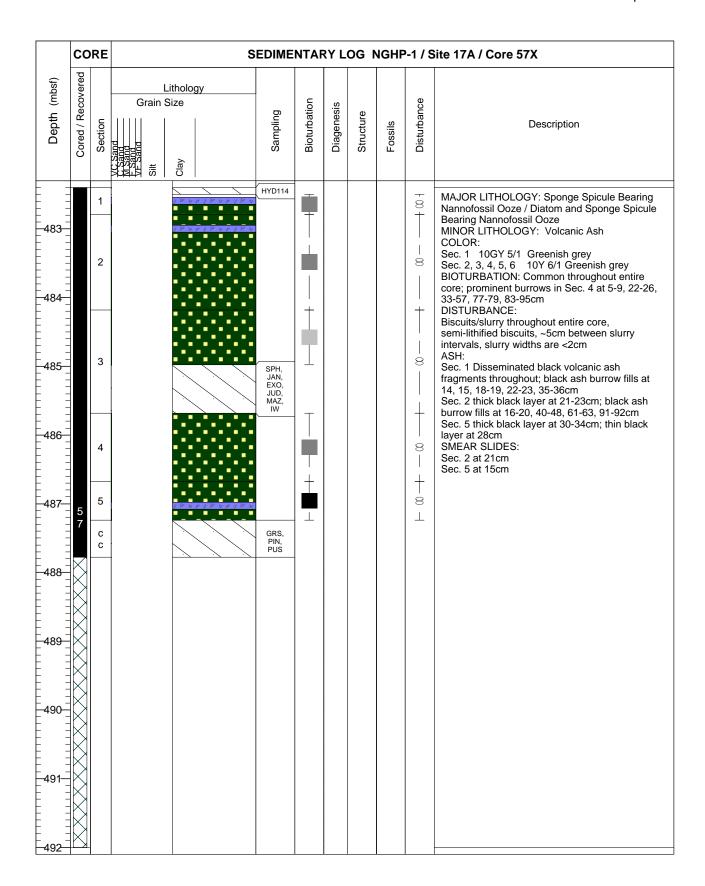




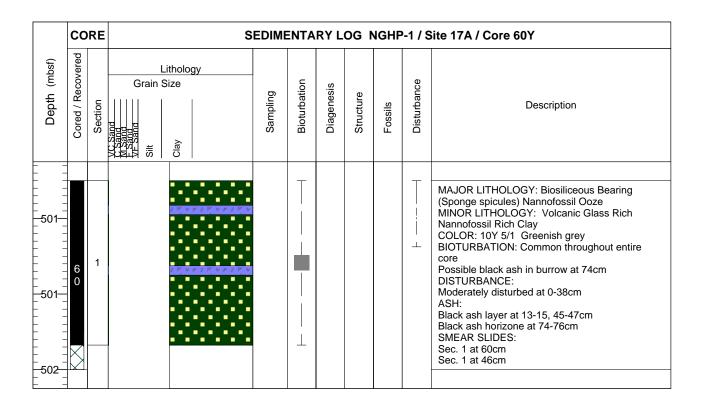


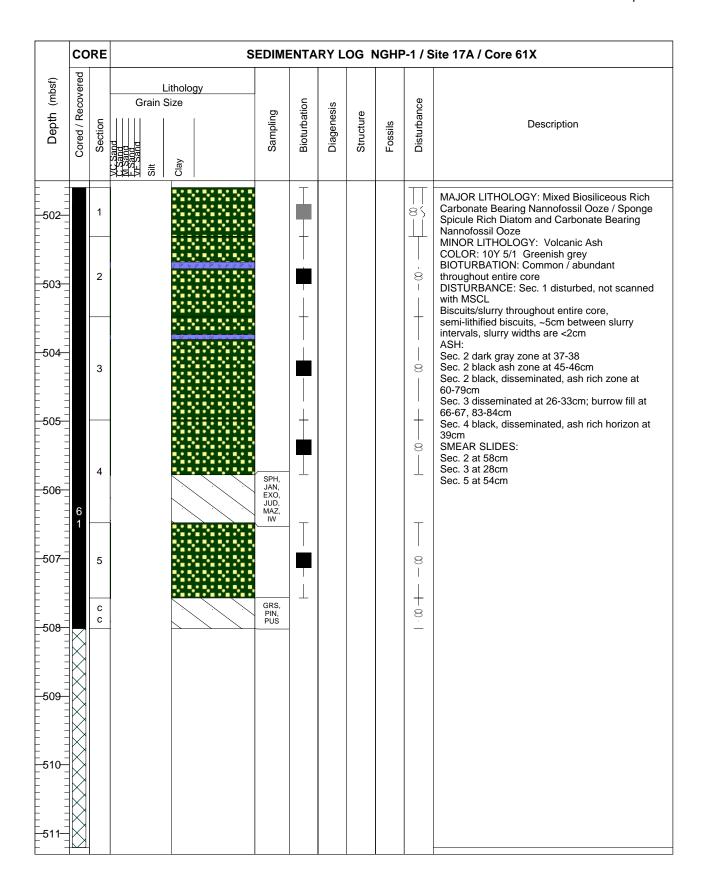
	СО	RE	s	EDIME	ENTA	RY L	OG N	NGHP	P-1 / S	ite 17A / Core 55X
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-464 -465 -467 -467 -469 -470 -471 -471	50 50	1 2 3 4 5 6 C C C		GRS, IW, HYD112 PWC, SPH, JAN, EXO, JUD, MAZ, IW IW GRS, PUS, PUS, PIN					$\vdash \smile \varnothing - \dashv \smile \vdash \varnothing + \smile \smile - \varnothing - \smile + \smile \varnothing - \dashv \vdash \varnothing \vdash \vdash \smile \vdash \varnothing \vdash \neg \neg \neg \neg$	MAJOR LITHOLOGY: Sponge Spicule Bearing Nannofossil Ooze / Diatom and Sponge Spicule Bearing Nannofossil Ooze MINOR LITHOLOGY: Volcanic Ash COLOR: Sec. 1 10GY 5/1 Greenish grey Sec. 2, 3, 4, 5, 6 10Y 6/1 Greenish grey BIOTURBATION: Common throughout entire core DISTURBANCE: Biscuits/slurry throughout entire core, semi-lithified biscuits, ~5cm between slurry intervals, slurry widths are <2cm DIAGENESIS: Sec. 4 FeS halos at 13,19cm MISC: Sec. 1 Coarse black fragments throughout and layers at 14, 28, 33, 43, 55, 88-89, and burrows at 17, 43, 73-77cm Sec. 4 Coarse black fragments at 67-72cm Sec. 7 Coarse black fragments dispersed at 26-32cm ASH: Sec. 2 almost pure white ash from IW sample at 17-47cm Sec. 3 thick black layer at 6-11cm Sec. 3 thin black layer at 19-20cm Sec. 7 fine grained, brown ash layer from IW sample SMEAR SLIDES: Sec. 1 at 89cm Sec. 3 at 24cm Sec. 4 at 90cm

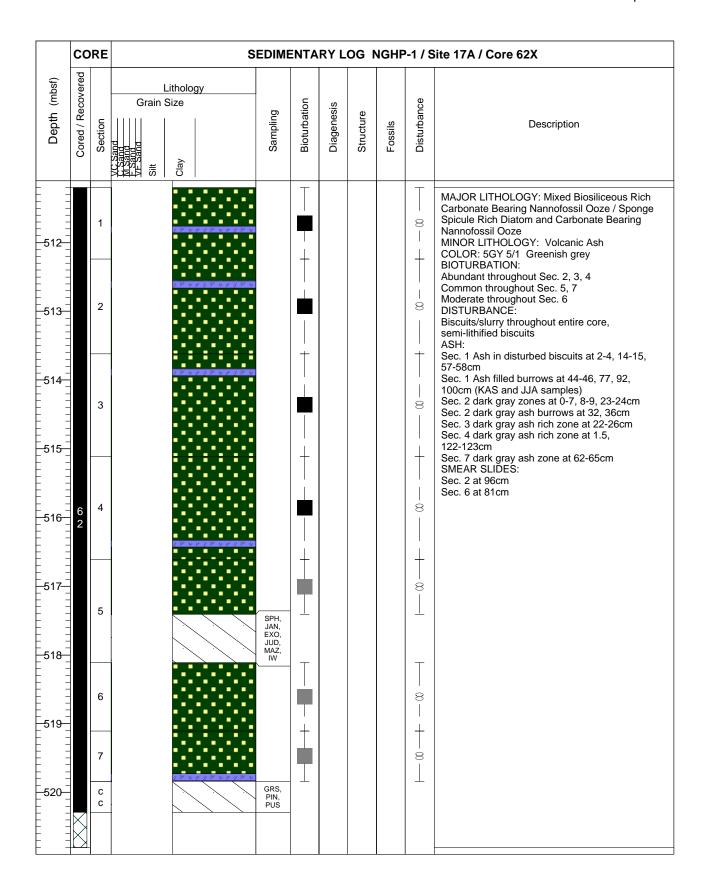


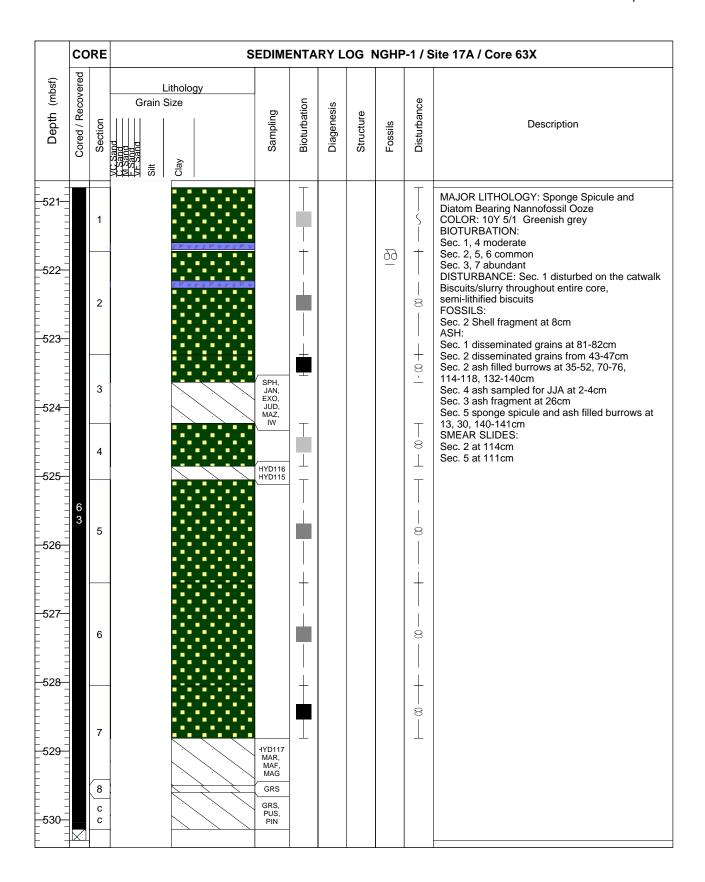


	СО	RE	S	EDIME	ENTA	RY L	OG N	NGHF	P-1 / S	Site 17A / Core 59P
Depth (mbsf)	Cored / Recovered	Section	Crain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-500 500 500 500	59 📉	1	y Every Ever					3.	 	MAJOR LITHOLOGY: Sponge Spicule and Diatom Bearing Nannofossil Ooze MINOR LITHOLOGY: Volcanic Glass Rich Nannofossil Ooze COLOR: 5GY 5/1 Greenish grey FOSSILS: Shell fragment at 6cm, possible benthic foram? DISTURBANCE: Disturbed by splitting process ASH LAYERS: 29cm gray ash layer 30cm dark gray ash layer 30.5 gray ash layer SMEAR SLIDES: Sec. 1 at 23cm Sec. 1 at 31cm

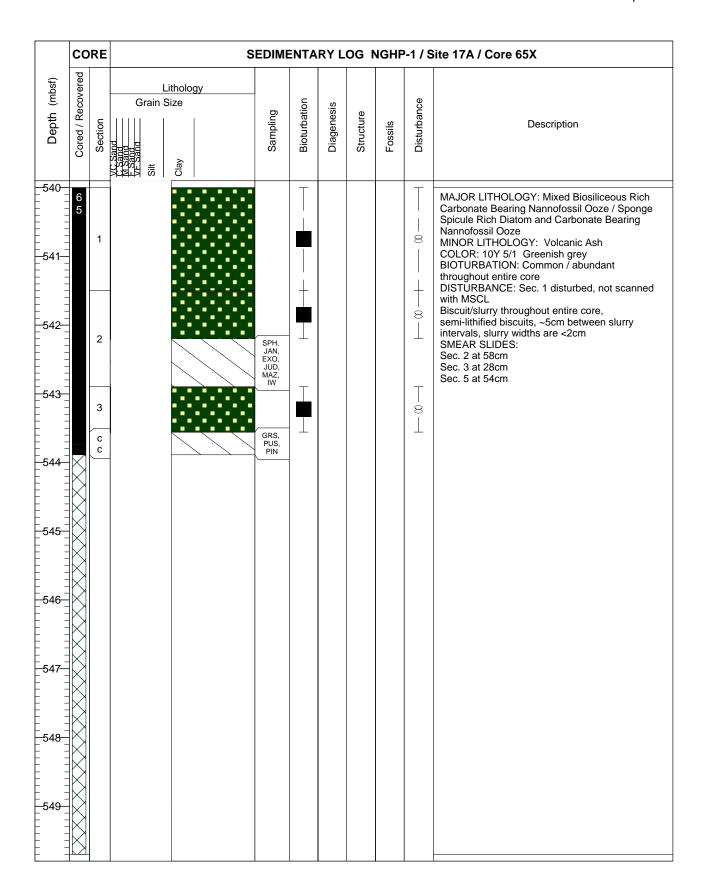


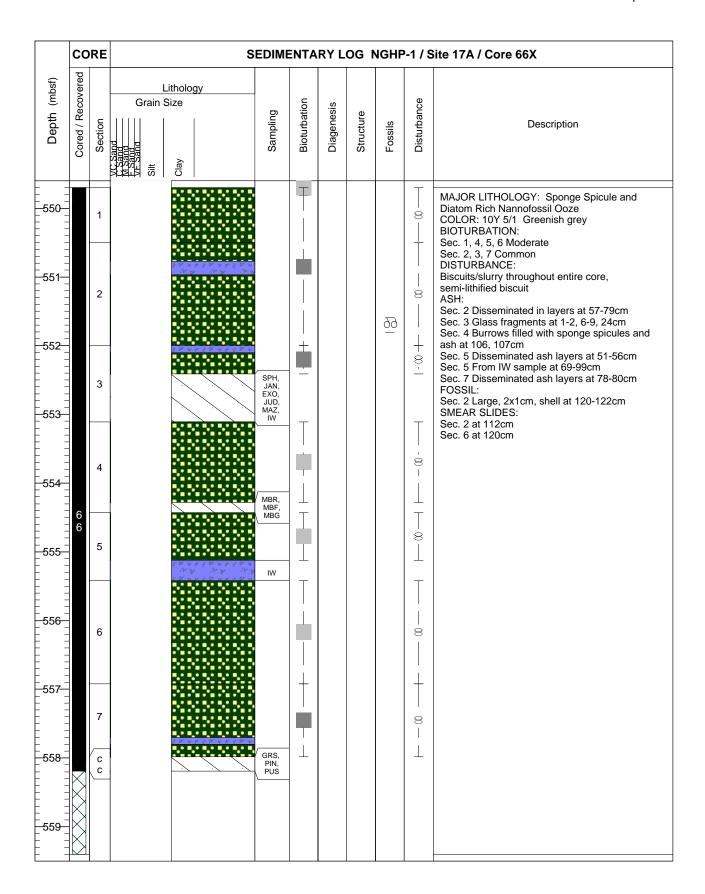




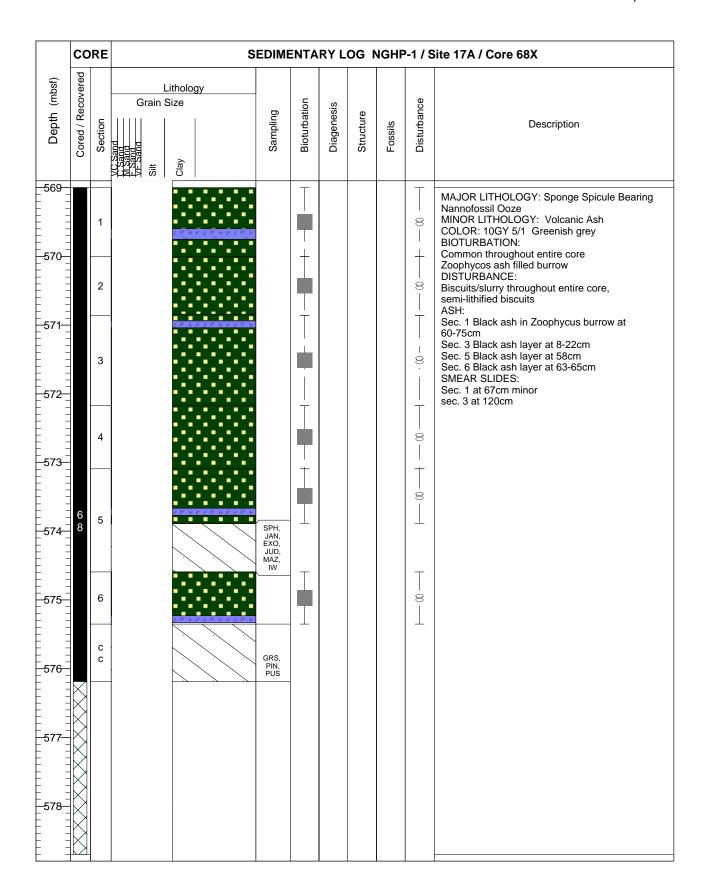


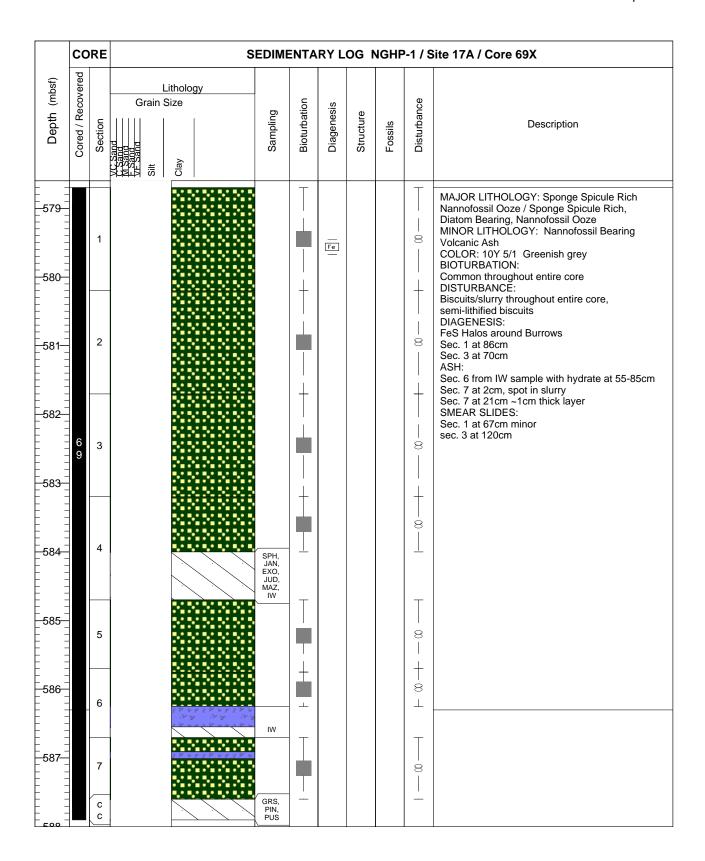
	СО	RE	s	EDIME	ENTA	RY L	OG N	NGHP	P-1 / S	Site 17A / Core 64X
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
531	6 4	1		SPH, JAN, EXO, JUD, MAZ, IW	├ ∷;- ⊢				T 8 - T	MAJOR LITHOLOGY: Sponge Spicule and Diatom Bearing Nannofossil Ooze COLOR: 5GY 5/1 Greenish grey BIOTURBATION: Sec. 1, 3 Rare Sec. 2 Common DISTURBANCE:
532		2							8	Biscuit/slurry throughout entire core, semi-lithified biscuits ASH: Disseminated in discrete layers/bands Sec. 3 at 3-5, 9-11, 20-22, 26-28, 33-34, 36-38, 42-44, 64-66, 74-77cm SMEAR SLIDES: Sec. 21 at 29cm
533		3	72 v + 72 v + 72 v		+ :::				8	Sec. 3 at 60cm
534		СС		GRS, PIN, PUS						
535	XXXX									
536										
538										
539										
540										





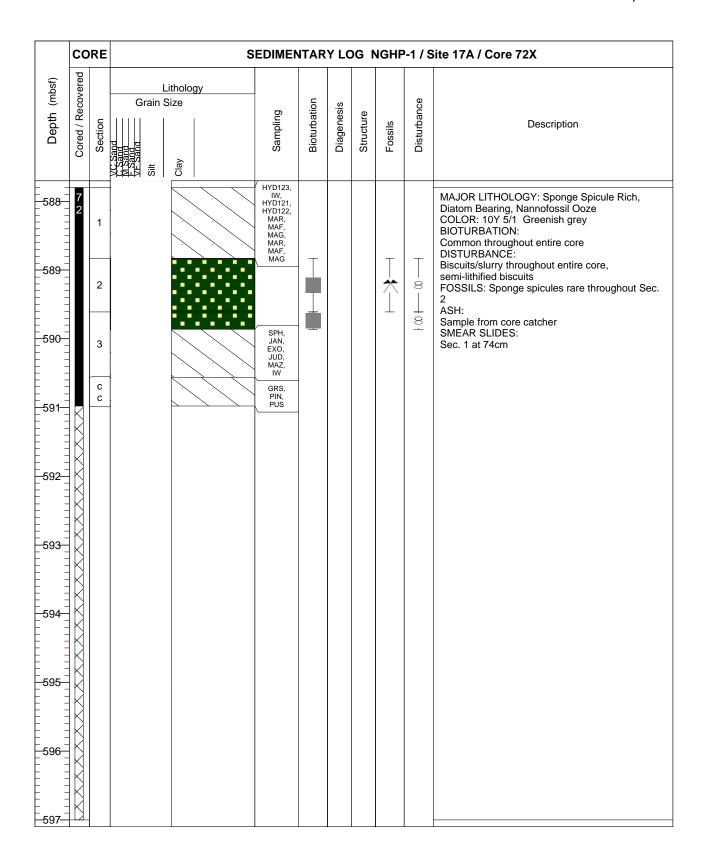
	СО	RE	S	EDIME	ENTA	RY L	OG N	NGHP	P-1 / S	Site 17A / Core 67X
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-563 -564 -564 -565 -565 -566 -566 -566	67	1 2 3 4 5 6 C C C		GRS, SPH, JAN, EXO, JUD, MAZ, IW HYD120 HYD119 HYD118 IW GRS, PIN, PUS					────────────────────────────────────	MAJOR LITHOLOGY: Authigenic Carbonate Rich Nannofossil Ooze / Sponge Spicule and Diatom Bearing Nannofossil Ooze / Sponge Spicule Rich Silicoflagellate and Diatom Bearing Nannofossil Ooze MINOR LITHOLOGY: Volcanic Ash COLOR: 5GY 5/1 Greenish grey BIOTURBATION: Sec. 1, 2, 5 Rare Sec. 4 Abundant Sec. 7 Common DISTURBANCE: Biscuits/slurry throughout entire core, semi-lithified biscuits Sec. 3 Black ash layer at 10-11cm Sec. 5 Black volcanic glass rich zone at 45-48cm SMEAR SLIDES: Sec. 1 at 67cm Sec. 1 at 97cm Sec. 3 at 120cm Sec. 4 at 60cm

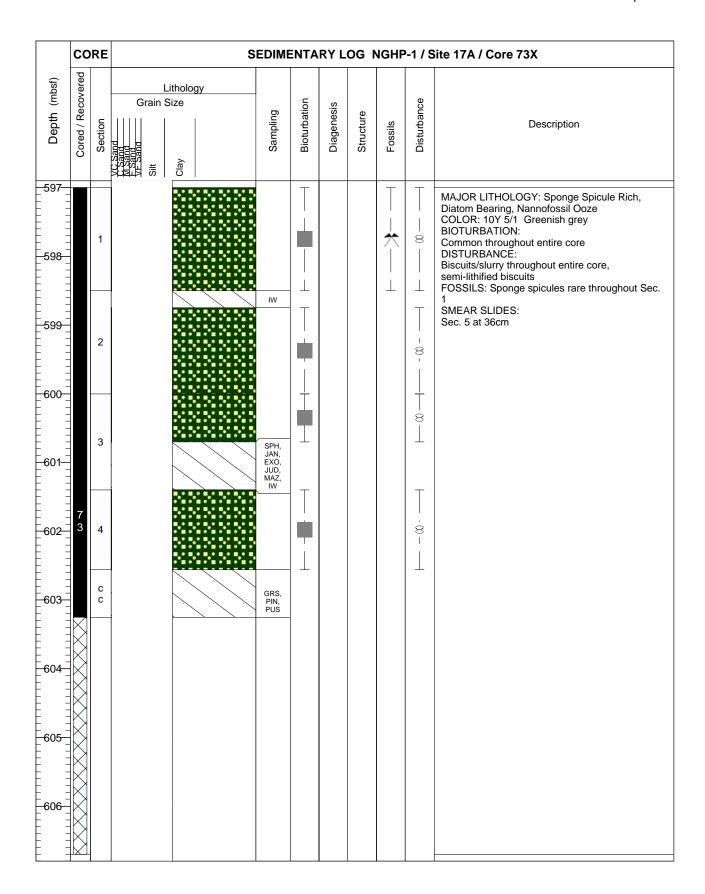


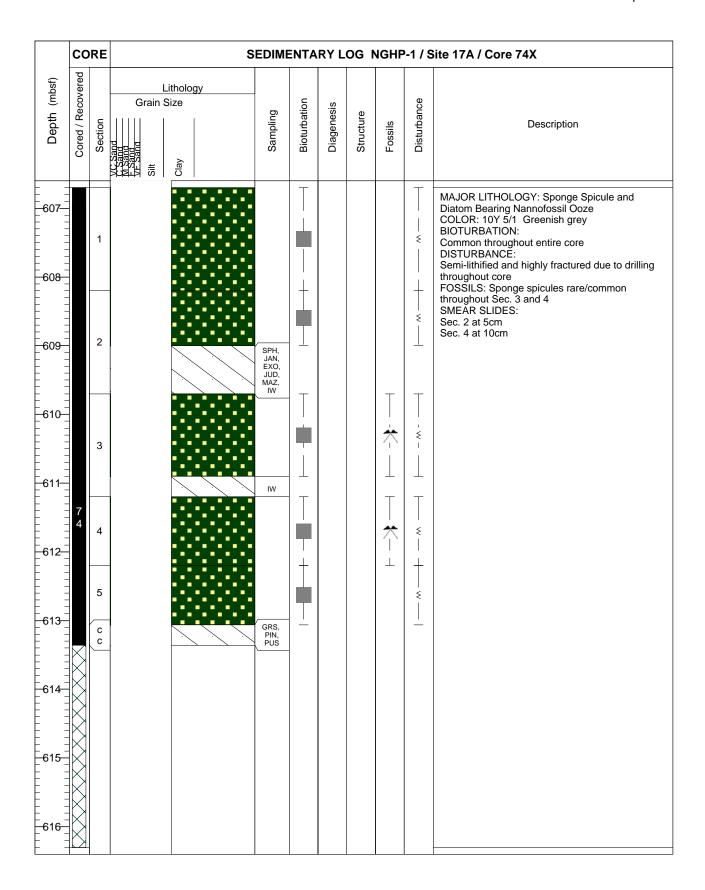


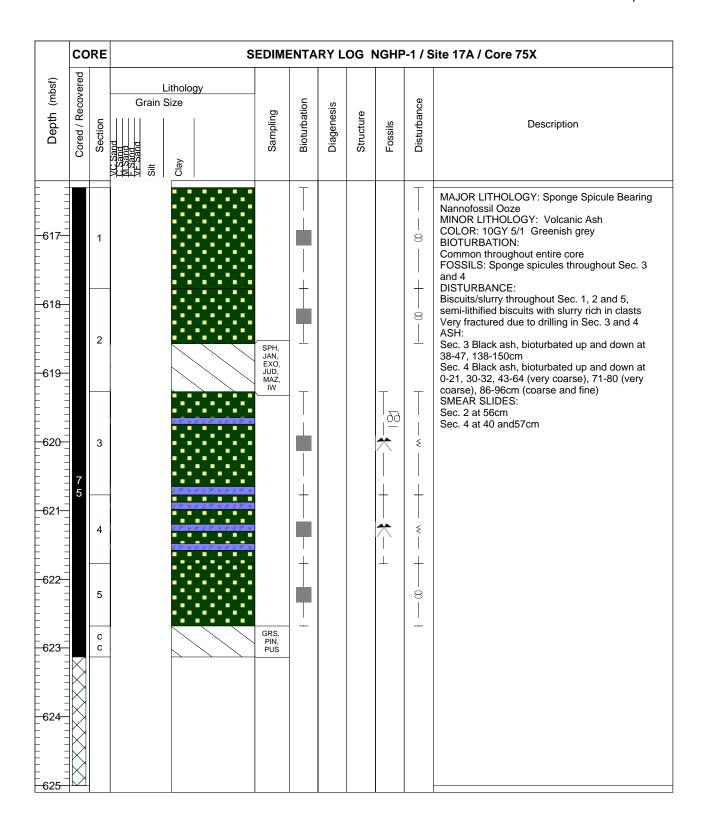
	СО	RE	s	EDIME	ENTA	RY L	OG N	NGHP	-1 / S	ite 17A / Core 70P
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
 	7								+ <u>> -</u>	Highly disturbed, only rubble recovered

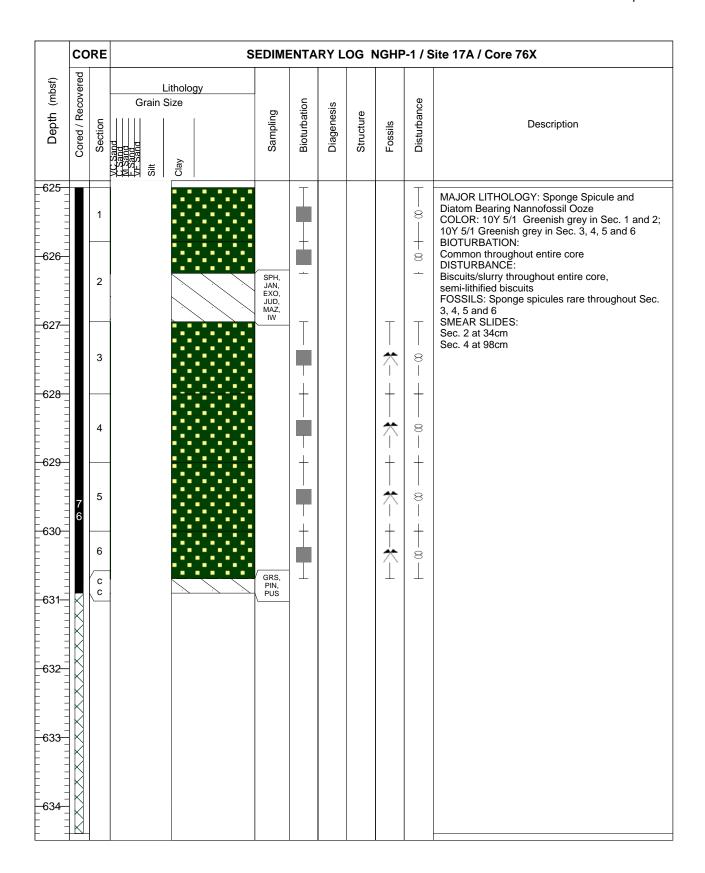
	СО	RE	s	EDIME	ENTA	RY L	OG N	IGHP	-1 / S	ite 17A / Core 71E
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-587- 										No core recovered











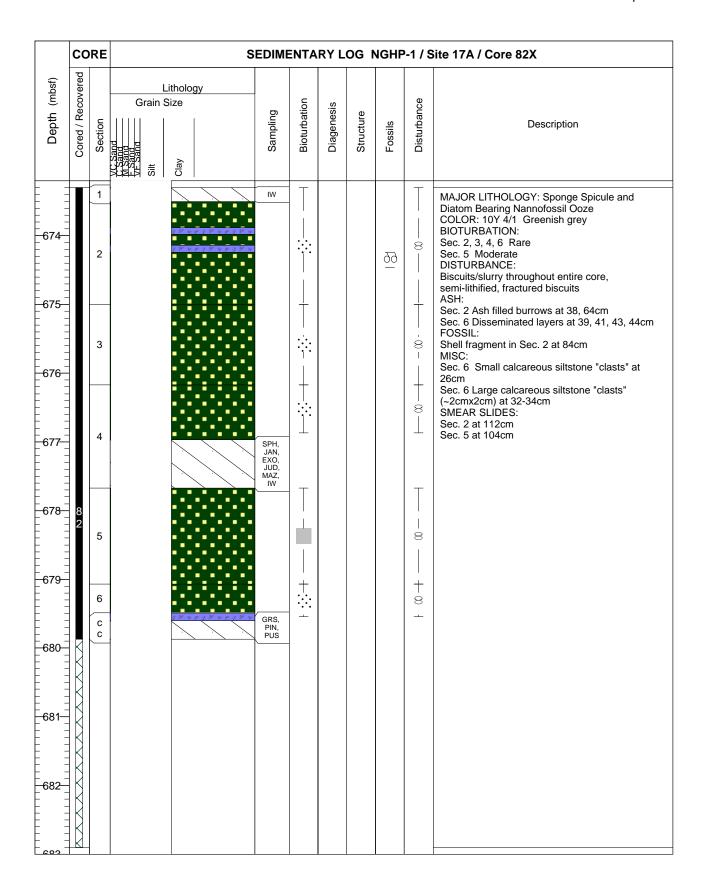
	СО	RE	S	EDIME	ENTA	RY L	OG N	NGHF	P-1 / S	Site 17A / Core 77X
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
635		1	72 v p 7 2 v p 7 2 v		+				8	MAJOR LITHOLOGY: Sponge Spicule and Diatom Bearing Nannofossil Ooze MINOR LITHOLOGY: Volcanic Ash COLOR: 10GY 5/1 Greenish grey BIOTURBATION:
636		2							8 +	Abundant in Sec. 2; rare in Sec. 3, 4, 5 and 6 DISTURBANCE: Biscuits/slurry throughout Sec. 1, 2 and 3, semi-lithified biscuits Top of core disturbed due to rubble that fell into hole
637		3		SPH, JAN, EXO, JUD, MAZ, IW					8 1	ASH: Sec. 1 Black ash layer speckled with ash/pumice/volcanic fragments at 26-28, 43-47, 80-82cm Sec. 2 Black ash filled burrows 41-42cm Sec. 2 Black ash rich layer at 91-95cm Sec. 4 Black ash rich layer at 44-45cm Sec. 5 Ash/Sponge Spicule filled burrow at 72, 89cm
638	7	4								Sec. 6 Ash/Sponge Spicule filled burrow at 6-15cm Sec. 6 Black ash bed at 39-50cm SMEAR SLIDES: Sec. 2 at 54cm Sec. 6 at 4cm
640	7	5			+ :::					
641		6 00		GRS, PIN, PUS	 					
642										
644										

	СО	RE	S	EDIME	ENTA	RY L	OG N	NGHF	P-1 / S	Site 17A / Core 78X
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-645 -646 -647 -648 -650 -651 -652 -653	78	1 2 3 4 5 6 c c		SPH, JAN, EXO, JUD, MAZ, IW						MAJOR LITHOLOGY: Sponge Spicule and Diatom Bearing Nannofossil Ooze MINOR LITHOLOGY: Volcanic Ash COLOR: 5GY 5/1 Greenish grey DISTURBANCE: Biscuits/slurry throughout entire core, semi-lithified biscuits Sec. 6 disturbed throughout, not logged with MSCL ASH: Sec. 1 Black ash bed at 34-37cm Sec. 2 Black ash bed at 84-87 Sec. 3 Black ash and sponge spicule filled burrows at 6-14cm Sec. 4 Black ash rich zone at 3-12cm Sec. 5 Black ash filled burrow at 94-95cm SMEAR SLIDES: Sec. 2 at 53cm Sec. 4 at 43cm

	СО	RE	S	EDIME	ENTA	RY L	OG N	NGHF	P-1 / S	Site 17A / Core 79X
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-654 -655 -655 -656 -657 -658 -660 -660 -661 -661 -662 -662 -662	79	1 2 3 5 6 C C C C		SPH, JAN, EXO, JUD, MAZ, IW				<u>99</u>	├─	MAJOR LITHOLOGY: Sponge Spicule and Diatom Bearing Nannofossil Ooze MINOR LITHOLOGY: Volcanic Ash COLOR: 10GY 5/1 Greenish grey BIOTURBATION: Common in Sec. 5; rare in Sec. 1, 2 and 6; moderate in Sec. 3 and 4 Prominent burrows in Sec. 5 at 24-29, 38-41, 51-52, 57-69, 97-101cm FOSSILS: Shell fragment in Sec. 3 at 66-68cm and in Sec. 5 at 112-113cm DISTURBANCE: Biscuits/slurry throughout entire core, semi-lithified biscuits ASH: Sec. 1 Black ash and sponge spicule filled burrows at 10-12, 29-30, 58, 127, 129, 136, 146cm Sec. 1 Black ash bed at 61-64, 66-78, 80-83cm Sec. 2 Black ash and sponge spicule filled burrows at 3-4, 7, 10-11, 28-29, 46, 51-52, 59, 65, 70cm Sec. 2 Black ash bed at 87-96cm Sec. 3 Black ash and sponge spicule filled burrows at 6, 18-19, 34, 38-39, 42, 48-49, 58-59, 69, 77, 82, 93-94, 127, 130, 145cm Sec. 4 Black ash and sponge spicule filled burrows at 9, 27, 28, 31-32, 35, 36-37, 43-44, 68-69cm Sec. 5 Black ash and sponge spicule filled burrows at 21, 54, 93, 113-114, 119, 131cm Sec. 6 Black ash and sponge spicule filled burrows at 24, 39, 47, 54-55, 59-60, 66-67, 70, 74, 91, 106-107cm Sec. 6 Black ash bed at 35-37cm SMEAR SLIDES: Sec. 1 at 130cm Sec. 3 at 90cm

	СО	RE	S	EDIME	ENTA	RY L	OG N	NGHP	P-1 / S	Site 17A / Core 80X
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-664 -665 -666 -667 -667 -669 -670 -671 -672	XXXXXXXXXXXXXXX oom	1 2 3 3 4 C C C C		SPH, JAN, EXO, JUD, JUD, IW					$+ \omega + \omega - \cdots - \omega - \cdots + \cdots - \omega - \cdots -$	MAJOR LITHOLOGY: Sponge Spicule and Diatom Bearing Nannofossil Ooze MINOR LITHOLOGY: Volcanic Ash COLOR: 10GY 5/1 Greenish grey BIOTURBATION: Moderate in Sec. 2 and 4; rare in Sec. 1 and 3 Large inclined burrow in Sec. 3 at 8-16cm STRUCTURE: Inclined layers in Sec. 3 at 54, 56, 62-66, 68-70, 74-76cm Silty grains in Sec. 4 at 120-150cm DISTURBANCE: Biscuits/slurry throughout entire core, semi-lithified biscuits ASH: Ash and sponge spicule filled burrows Sec. 1 at 19-20cm Sec. 2 at 19, 20, 22cm Sec. 3 at 10-11cm Sec. 4 at 5-22cm SMEAR SLIDES: Sec. 1 at 10cm Sec. 3 at 61cm

	СО	RE	S	EDIME	ENTA	RY L	OG N	IGHP	-1 / S	Site 17A / Core 81E
Depth (mbsf)	Cored / Recovered	Section	Lithology Grain Size Saud Outs And Andrew	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
	8 1	1								MAJOR LITHOLOGY: Sponge Spicule and Diatom Bearing Nannofossil Ooze COLOR: 10GY 4/1 Dark greenish grey Poorly preserved core. Soft, sticky, large clasts of angular to sub-rounded 1cm-2cm diameter. SMEAR SLIDE: Sec. 1 at 6cm



	СО	RE	SEDIMENTARY LOG NGHP-1 / Site 17A / Core 83X								
Depth (mbsf)	Cored / Recovered	Section	Grain S Grain S With Sand Nit Sand Silt	thology ize	Sampling	Bioturbation	Diagenesis	Structure	Fossils	Disturbance	Description
-684 -684 -685 -686 -687 -687 -688 -689 -689 -690 -690	Δα α	1 2 C C C			SPH, EXO, IW GRS, PIN, PUS					$\infty-4\infty$ 10	MAJOR LITHOLOGY: Sponge Spicule and Diatom Bearing Nannofossil Ooze COLOR: 10Y 4/1 Greenish grey BIOTURBATION: Sec. 1 Moderate Sec. 2 Rare STRUCTURE: DISTURBANCE: Biscuits/slurry throughout entire core, semi-lithified, fractured biscuits ASH: Sec. 1 Ash filled burrows at 17-21, 51, 93cm MISC: Sec. 1 Large "clasts" of lithified material at 22-23, 41-42, 54-55cm SMEAR SLIDES: Sec. 1 at 67cm