

Stage 1: Combining main lithologies

Lithology group plotted	Carbonate	Diatom Ooze	Diatom Clay/Silt/Mud	Diatom-rich Clay/Silt/Mud	Silt	Sand
Exp 385	- Micrite	- Nanno-rich diatom ooze	- Diatom clay	- Diatom-rich clay	- Clayey silt	- Silty sand
Lithological Modifiers	- Micrite-rich limestone - Diatom-rich micrite - Dolomite	- Clay-rich diatom ooze - Silt-rich diatom ooze - Micrite-rich diatom ooze	- Silt-rich diatom clay - Diatom Silt - Clay-rich diatom silt - Nanno-rich diatom clay	- Diatom-rich silty clay - Diatom-rich sandy clay - Diatom-rich silt - Diatom-rich clayey silt	- Sandy silt - Silty clay - Micrite-rich clay	- Micrite-rich sand - Organic-rich sand - Foram-rich chert

Stage 2: DESClogik database

Sample	Top Depth [m]	Bottom Depth [m]	Main Lithology
385-U1551A-6H-1-A	37.1	37.93	clay
385-U1551A-6H-1-A	37.93	37.94	micrite
385-U1551A-6H-1-A	37.94	38.25	clay
385-U1551A-6H-1-A	38.25	38.28	micrite
385-U1551A-6H-1-A	38.28	38.33	clay
385-U1551A-6H-1-A	38.33	38.34	silty sand
385-U1551A-6H-1-A	38.34	38.4	clay
385-U1551A-6H-1-A	38.4	38.41	silty sand
385-U1551A-6H-1-A	38.41	38.55	clay
385-U1551A-6H-2-A	38.55	38.73	clay
385-U1551A-6H-2-A	38.73	38.74	micrite
385-U1551A-6H-2-A	38.74	39.09	clay
385-U1551A-6H-3-A	40.05	41.52	clay
385-U1551A-6H-4-A	41.52	41.7	diatom clay
385-U1551A-6H-4-A	41.7	41.7	
385-U1551A-6H-4-A	41.7	42.59	sand
385-U1551A-6H-5-A	42.59	43.68	sand
385-U1551A-6H-5-A	43.68	43.72	micrite
385-U1551A-7H-1-A	43.7	45.05	sand
385-U1551A-7H-1-A	44.73	44.92	
385-U1551A-7H-2-A	45.05	46.25	sand
385-U1551A-7H-3-A	46.25	47.73	sand
385-U1551A-7H-3-A	47.71	47.73	
385-U1551A-8H-1-A	47.7	49.11	sand
385-U1551A-8H-2-A	49.11	50.41	sand
385-U1551A-8H-2-A	49.32	49.53	
385-U1551A-8H-2-A	49.4	49.81	
385-U1551A-8H-3-A	50.41	51.62	sand
385-U1551A-8H-4-A	51.62	53.11	sand
385-U1551A-8H-5-A	53.11	53.75	sand

Stage 3: Summative synthesis

CORE	%	%	%	%	%	%
1H	0	0	0.4	0	99.6	0
2H	1.5	0	3	93.9	1.6	0
3H	30.2	34.6	16.8	18.4	0	0
4H	44.8	40.6	0	14.7	0	0
5H	5.7	93.7	0	0	0	0.7
6H	31.6	64.4	0	2.7	0	1.4
7H	100	0	0	0	0	0
8H	100	0	0	0	0	0
9H	100	0	0	0	0	0
10H	32.8	8.4	57.8	0.1	0.9	0
11H	2.2	5.9	88.1	3.7	0.1	0
12H	4	3	90.7	0	2.3	0
13H	53.4	0	34.5	0	12.1	0
14H	97.6	0	2.4	0	0	0
15H	97.9	0	0	0	2.1	0
16F	98.4	0	0	0	1.6	0
17F	100	0	0	0	0	0
18F	80	6.4	0	0	13.6	0
19F	34.9	0	0	0	65.1	0

Carbonate Diatom Ooze Diatom Clay Diatom-Rich Clay Silt Sand

Stage 4: Constructed column- Site U1551

