Site 1065

Note: blank=none; T=trace (0-2%); R=rare (2-10%); C=common (10-25%); A=abundant (25-50%); D=dominant (>50%)

Sample									Size			Composition																												
Leg	Site	Hole	Core	Type	Section	cm	Depth (mbsf)	Thin Section #	Sand size	Silt size	Clay size	Quartz	Feldspar	Mica	Glauconite	Clay	Rock Fragments	Met. Fragments	Accessory minerals	Opaque Minerals	Pyrite	Carbonate	Calcite	Dolomite	Cement	Foraminifers	Radiolarians	Nannofossils	Silicoflagellates	Bioclasts	Pellets	Interclast	Bivalve	Shell debris	Algae	Plant debris	Organic debris	Micrite	Sediment or Rock Name	Comments
173	1065	A	1	R	2	139-141	253.89	1	80	20		D	R	R			R	R																					Lithic graywacke	
173	1065	A	1	R	3	4–7	254.04	2	>90	<10		D	T	T			T	T																					Lithic arenite	
173	1065	A	1	R	3	111-115	255.11	5															D							C	D	D							Boundstone/peloidal packstone	100% calcite; pellets ~80%. Encrusted coral, Serpulid tubes.
173	1065	A	1	R	3	73–75	254.73	3			100												D			T		?D											Micrite/Nannofossil chalk	>90% calcite
173	1065	A	1	R	3	73–75	254.73	4	>80		<20												D							T	D		R						Peloidal/Interclast grainstone	Trace echinoderm plates with calcite overbrowths. One large (~1 cm diameter) ?oncoid
173	1065	A	1	R	4	34–37	255.84	6		40	60	C		A		R			T																				Pelite (metamorphic)	
173	1065	A	5	R	1	99–102	290.59	7														D				T		D											Nannofossil chalk	100% carbonate
173	1065	A	6	R	2	85–86	300.05	8				D		C																									Mica schist-metamorphic	Pebble
173	1065	A	6	R	2	30–32	301	9														D																	Nannofossil chalk with pebble	Pebble: iron stained pelite
173	1065	A	8	R	CC	4–7	318.54	10	100			R	T				A	C				C																	(Micro)conglomerate	Carbonate fragments: peloidal grit/ boundstone
173	1065	A	8	R	CC	8–10	318.58	11				R	T				C	C																T	R				Very coarse litharenite	Carbonate lithoclast-mostly peloidal grit/ broundstone
173	1065	A	9	R	1	7–9	328.17	12		R	D	R									T		D													T		D	Micrite with silt	
173	1065	A	9	R	1	49–52	328.59	13		D		R									T			D												T			Dolomite with silt	
173	1065	A	14	R	CC	0–2	376	14				D		A																									Biotite hornfels-metamorphic	Pebble
173	1065	A	16	R	CC	0–3	395.3	15									D								A														Conglomerate	Dolomitic cement
173	1065	A	22	R	CC	16–21	482.91	16				R					C				T				C														Conglomerate	Dolomite cement; carbonate lithoclasts replaced by dolomite
173	1065	A	23	R	1	36–40	501.86	17									D				T			C	D														Conglomerate	
173	1065	A	24	R	1	48–52	521.28	18		20	80	C				D			T																	R			Silty claystone	
173	1065	A	24	R	1	72–75	521.52	19		30	70	A				D			T																		R		Silty claystone	
173	1065	A	27	R	1	79–84	550.49	21		5	95	R				D			T																		R		Claystone	
173	1065	A	27	R	1	26–31	549.96	20		10	90	C				D			T			T															R		Silty claystone	
173	1065	A	28	R	1	53–55	559.83	22		5	95	R				D									A												T		Brercciated claystone	
173	1065	A	29	R	CC	10–13	570.16	23		30	70	A				D			T																		R		Silty claystone	Dolomitic cement
173	1065	A	30	R	1	55–57	579.05	24				A	T			D									A												T		Brecciated silty claystone	Dolomitic cement
173	1065	A	31	R	1	33–35	588.43	25		30	70	A				D			T																		T		Silty claystone	
173	1065	A	31	R	CC	16–18	590.81	26		10-30	70-90	A				D			T			T														T			Silty claystone	
173	1065	A	32	R	CC	14–19	599.31	27		20	80	C				D			T	T		T															T		Silty claystone	
173	1065	A	34	R	1	66–68	617.76	28	b 50	a 30 b 20	a 70 b 30	T					C					C			C												T		a) Silty claystone; b) clayey sand	

TS #	Interval	Rock name *Comments*	Description
1	1065A-1R-2, 139-141 cm	Lithic graywacke *Low grade metamorphism*	Fine grained sand: angular clasts; moderately sorted. Clasts dominated by single and polycrystalline quartz grains; most quartz shows shadow extinction. Rare feldspar (plagiociase). Matrix forms 0-20%: micas and clay minerals. Minimal grain contact solution. Pebble from Unit II
2	1065A-1R-3, 4-7 cm	Metamorphosed lithic arenite *Low grade metamorphism*	Medium sand; angular clasts. Clasts dominated by single and polycrystalline quartz grains; most quartz shows shadow extinction Rare feldspar (plagiociase). Matrix ~10%: micas and clay minerals; some grain contact solution Pebble from Unit II
3	1065A-1R-3, 73-75 cm	Carbonate mudstone/ wackestone	Micrite with scattered foraminifers Pebble from Unit II
4	1065A-1R-3, 85-88 cm	Peloidal/intraclastic grainstone	Allochems medium to coarse sand grade. Part of thin section shows microspar cement; intra-particle porosity preserved elsewhere, save for calcite overgrowths around echinoderm plates Pebble from Unit II
5	1065A-1R-3, 111-115 cm	Peloidal packstone *Cryptalgal structure: possible bindstone*	Peloids fine to medium sand grade. Long colonial coral fragment traverses slide, and is encrusted by a variety of algae, and a Chaetitid Pebble from Unit II
6	1065A-1R-4, 34-37 cm	Pelite *Low grade metamorphism*	Very fine grained quartz, clay minerals and mica (muscovite) Pebble from Unit II
7	1065A-5R-1, 9-102 cm	Carbonate mudstone/ wackestone	Micrite with planktonic foraminifers
8	1065A-6R-1, 84-86 cm	Mica schist *Greenschist facies metamorphism*	Quartz: ~50%; muscovite: ~30%; biotite: ~10%. Fairly strong foliation defined by muscovite alignment; biotite porphyroblasts Pebble from Unit II
9	1065A-6R-2, 30-32 cm	Pelite *Low grade metamorphism*	Similar to 1065-1 R-3, 111-115 cm, but red (?hematite) iron staining Pebble from Unit II
10	1065A-8R-CC, 4-7 cm	Breccia	Clasts: slate, schist, carbonates (biomicrite: deformed, fractured) Matrix: intraclast grainstone / microsparite, qtz rich Unit VA
11	1065A-8R-CC, B-20 cm	Breccia	Limestone lithoclasts (biomicrite, angular-rounded), pelites, quartz Matrix: sparite cemented sand grains of quartz, pelite, carbonate Calcite filled vein
12	1065A-9R-1, 7-9 cm	Micrite	With quartz silt; calcite filled fractures Unit VA
13	1065A-9R-1, 49-52 cm	Calcareous siltstone	Laminated, organic matter, little variations in grain size or quartz content Unit VA
14	1065A-14R-CC, 0-2 cm	Biotite hornfels *Contact metamorphism*	This clast is within Subunit VA, but was probably washed downhole from Unit II. ~10% biotite porphyroblasts. Matrix crystal size ~0.01 mm; largely white mica with minor quartz. Relict foliation. Original rock may have been a slate
15	1065A-16R-CC, 0-3 cm	Breccia	Subrounded clasts of quartz arenite, limestone, pelite, carbonate (dolomitic?) cement Unit VA
16	1065A-22R-CC, 16-21 cm	Breccia	Subrounded clasts, carbonate (?dolomite) cemented; quartz, quartz, arenite pelite Unit VA

17	1065A-23R-1, 36-40 cm	Breccia, silty claystone	Breccia: Quartz arenite, siltstone, quartz, pyrite, plagioclase, limestone Unit VB
18	1065A-24R-1, 48-52 cm	Claystone with fine silt	Laminated by varying silt/clay content; Chondrites Unit VB
19	1065A-24R-1, 72-75 cm	Silty claystone / claystone	Laminated by varying contents of clay and organic matter Unit VB
20	1065A-27R-1, 26-31 cm	Clay	Slightly silty; laminated, Chondrites; sandy silt laminae at top Unit VB
21	1065A-27R-1, 79-84 cm	Claystone	Laminated, ?fining upward, Chondrites, fine grained layer at top above inclined laminae (?cross laminae) Unit VB
22	1065A-28R-1, 53-55 cm	Claystone, brecciated	'Pieces' fit together across fractures which are cemented with calcite which is partially dolomitized Unit VB
23	1065A-29R-CC, 10-13 cm	Silty claystone	Laminated by variable amounts of organic matter; ?dolomitized Unit VB
24	1065A-30R-1, 55-57 cm	Breccia	Clasts: pelites, quartz, rare plagioclase Unit VB
25	1065A-31R-1, 33-35 cm	Silty claystone	Laminated, variable amounts of silt, clay and organic matter chondrites Unit VB
26	1065A-31R-CC, 15-18 cm	Silty claystone	Plant debris (organic matter), at the top a 5 mm silt layer with disturbed lower boundary (?erosion surface) Unit VB
27	1065A-32R-CC, 15-20 cm	Claystone / silty claystone	Chondrites, silt rich lenses partly dolomitized Unit VB
28	1065A-34R-1, 66-68 cm	Coarse sandstone, siltstone	Sandstone clasts: highly fractured minerals (?pyroxene), ?limestone, siltstone, claystone ?epidote Unit VB

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