Table T14. Correlations of seismic sequence boundaries to core surfaces, Hole M0028A. (See table notes.)

Predicted age BKSA95 (Ma)	Seismic sequence boundaries	Seismic picks (ms)	Predicted depth (mbsf)		Predicted core	Actual depth (mbsf)	Actual core, section, interval (cm)	Remarks	Age derived from age-depth plot (Ma)	
			Monteverde	Seismic and velocity function core					BKSA95	Error
					313-M0028A-		313-M0028A-			
?14.1	m4	215	174	171	Not cored	NR	NR			
	m4.1	284	234	231–232	5R	236.1/236.6/236.3	6R-1, 61, 110; 6R-2, 26	MFS; 3 density peaks; nodules		
	NR	NR	NR	NR	NR	244.16	8R-2, 103	FS clays/shoreface; minor density increase		
	m4.5	295	244	241–243	8	246.04	9R-1, 135	TS base shells; ? due to disturbance; start density maximum	13.8–14.0	12.8–14.8
	m4.5	NR	NR	NR	NR	247.78	10R-1, 5	SB minor erosional surface; sand/clay SOT/off; impedance contrast		
	NR	NR	NR	NR	NR	254.03	12R-1, 19.5 cm	FS clayey silt over sands, moderate impedance contrast		
14.8–15.8	m5	317	262	258–263	16	268–271	Not cored	SB; base log sands; 271 mcd	14–15	13.5–15.5
16.0–16.5	m5.2	375	316	310–313	34R–35R	310.92	34R-2, 95	TS; sharp erosional surface; muds/shelly sands; thin impedance contrast	16.0	15.5–16.2
	m5.2	NR	NR	NR	NR	313.48	35R-2, 48	SB erosional contact with fine–medium sand over shelly clay; thin impendance contrast		
	NR	NR	NR	NR	NR	320.62	37R-1, 143	FS clay/very fine sand; heavily burrowed		
	NR	NR	NR	NR	NR	323.5	38R-2, 33	Top glauconitic sandstones and gravels; impedance contrast yields strong intra-sequence reflection		
17.2	m5.3	409	347	340–348	51–52R	335.48–342.44	Not cored	SB disturbed; gravely glass/shelly glauconitic sandstone	~16.6	16.4–16.8
	NR	NR	NR	NR	NR	349.72–351.59	Between 53R and 54R	Glauconitic sandstone/quartz sands		
	m5.32	NR	NR	370–375	NR	NR	NR	No expression		
	m5.33	458	393	NR	NR	NR	NR	No expression		
17.8–18.2	m5.4	565	497	489–498	103–105R	?495.19	105R-1, 58	SB base thin sand bed/clayey silt	~18	17.3–18.3
19.5	?m5.45	582	514	510–517	110–112R	505.93	Base of 108R	Clay, coring gap, granuliferous sands; large density increase	?18.2	17.0–18.4
	?m5.45	582	514	510–517	110–112R	508.36	109R-1, 82	Base graded bed		
	?m5.45	582	514	510–517	110–112R	512.33	110R-2, 114	SB favored: base of sands/top of clay		
19.7	m5.47	598	530	521–530	114–118R	519.68	113R-1, 67		?18.3	17.0–18.4
20.2	m5.6	617	545	540–550	124–127R	544.55–546.47	126R/127R	SB coring gap	?18.6	18.6–19.6
20.4	?m5.7	662	595	589–599	143–147R	592.37	145R-1, 15, to 145R-2, 7	Indurated zone		
	?m5.7	662	595	589–599	143–147R	600.3/604.42	Base of 147R/top of 149R	SB? not cored; downslope granuliferous sands/micaceous, slightly shelly lignitic sands		
	?m5.7	662	595	589–599	143–147R	611.6	152R-1, 108	Major surface: medium sand, surface (SB or MFS), clay		18.6–20.5
21.5–22.0	m5.8	721	657	649–651	164–165R	662.98	169R-1, 61	SB major surface; glauconite sand over siltstone; density contrast starts 660 at increase glauconite	21.3	20.0–21.5

Notes: BKSA95 from Cande and Kent (1995). Seismic picks from Seisworks. Predicted depth and ages for seismic sequence boundaries m1 to m5.8 from Monteverde et al. (2008). Two predicted depths in two way travel time (TWT) and depth (mbsf) are given, the first from Monteverde et al. (2008). Actual depth and actual core are the best fit to surfaces or other contacts noted in the cores. Preliminary age and age error are derived from "**Chronology.**" NR = not resolved. MFS = maximum flooding surface, FS = flooding surface, TS = transgressive surface, SB = sequence boundary, SOT = shoreface–offshore transition, off = offshore.