Figure F28. Spliced record for Site 1122. To reduce noise, MS, GRAPE density, and reflectance data illustrated were smoothed with a 5-point Gaussian window.

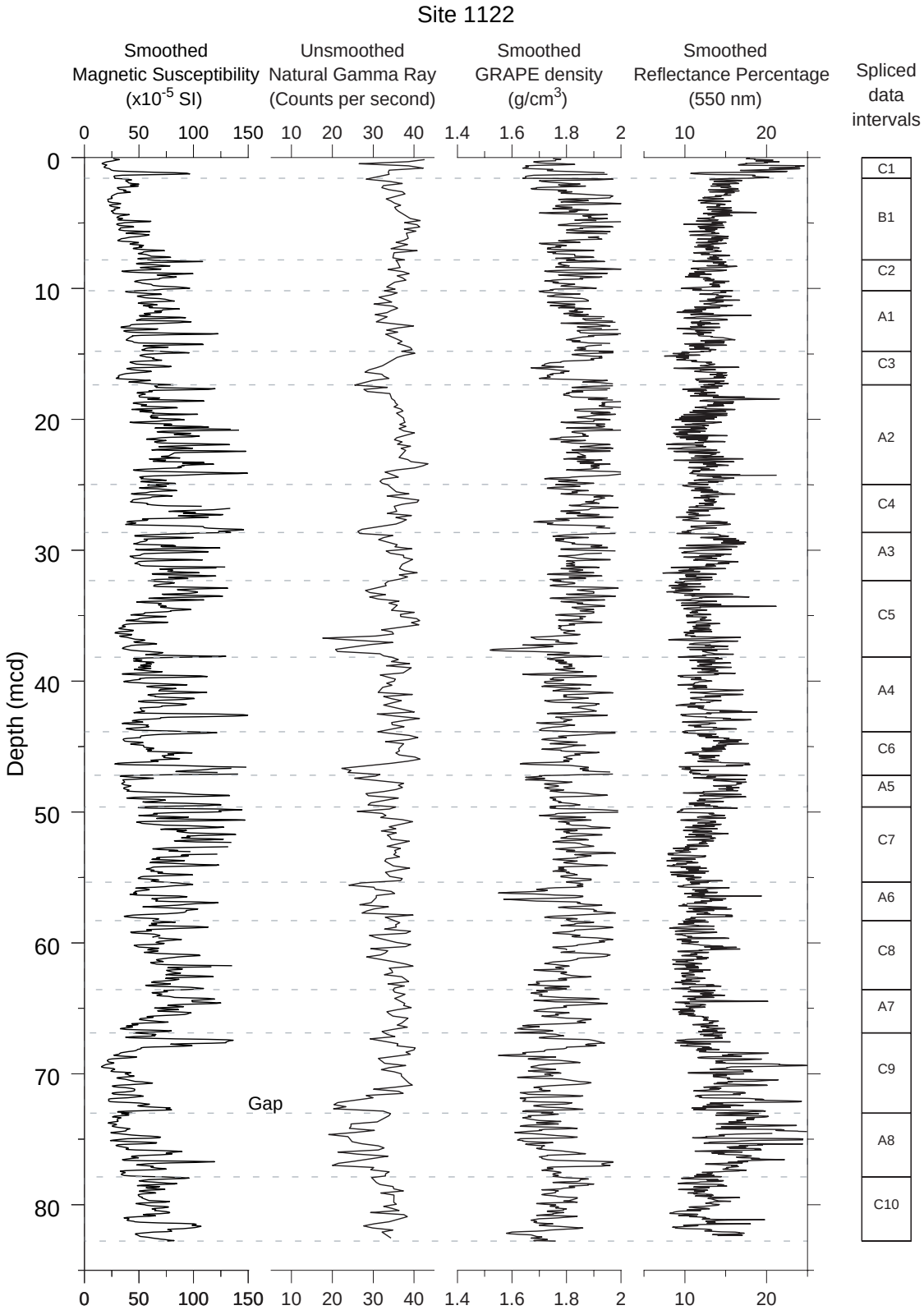
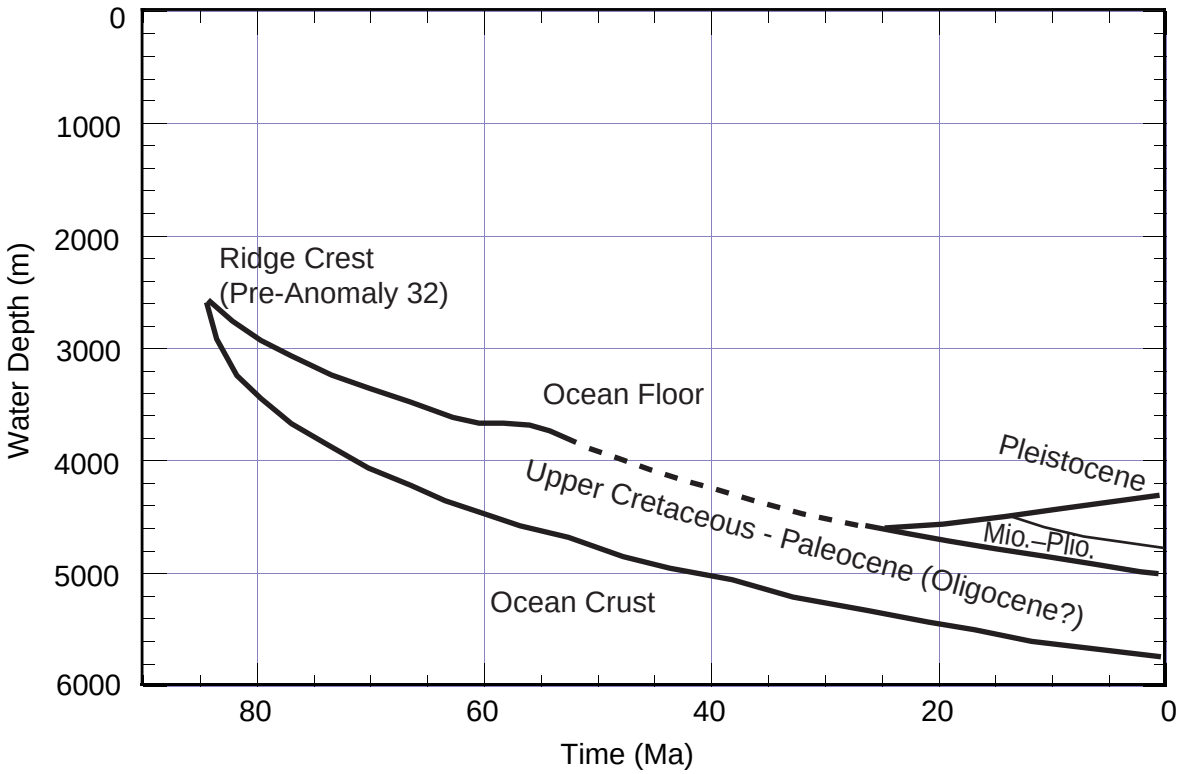


Figure F29. Sketch of oceanic subsidence history of Site 1122, Bounty Fan, in almost 4500-m present-day water depth. The site is slightly to the east of marine magnetic Anomaly 32 (late Campanian, ~72 Ma). Over 600 m of Neogene turbiditic and "drift" type sediment fill was cored at Site 1122. Campanian–Paleocene siliceous clays, overlying ocean basement at the site, are inferred from analog strata cored at Site 1121 and DSDP Site 275 (see **"Lithostratigraphy,"** p. 3, in the "Site 1121" chapter) and from multichannel seismic data at Site 1122. The basal, oceanic sediments are estimated to be ~1 km thick.



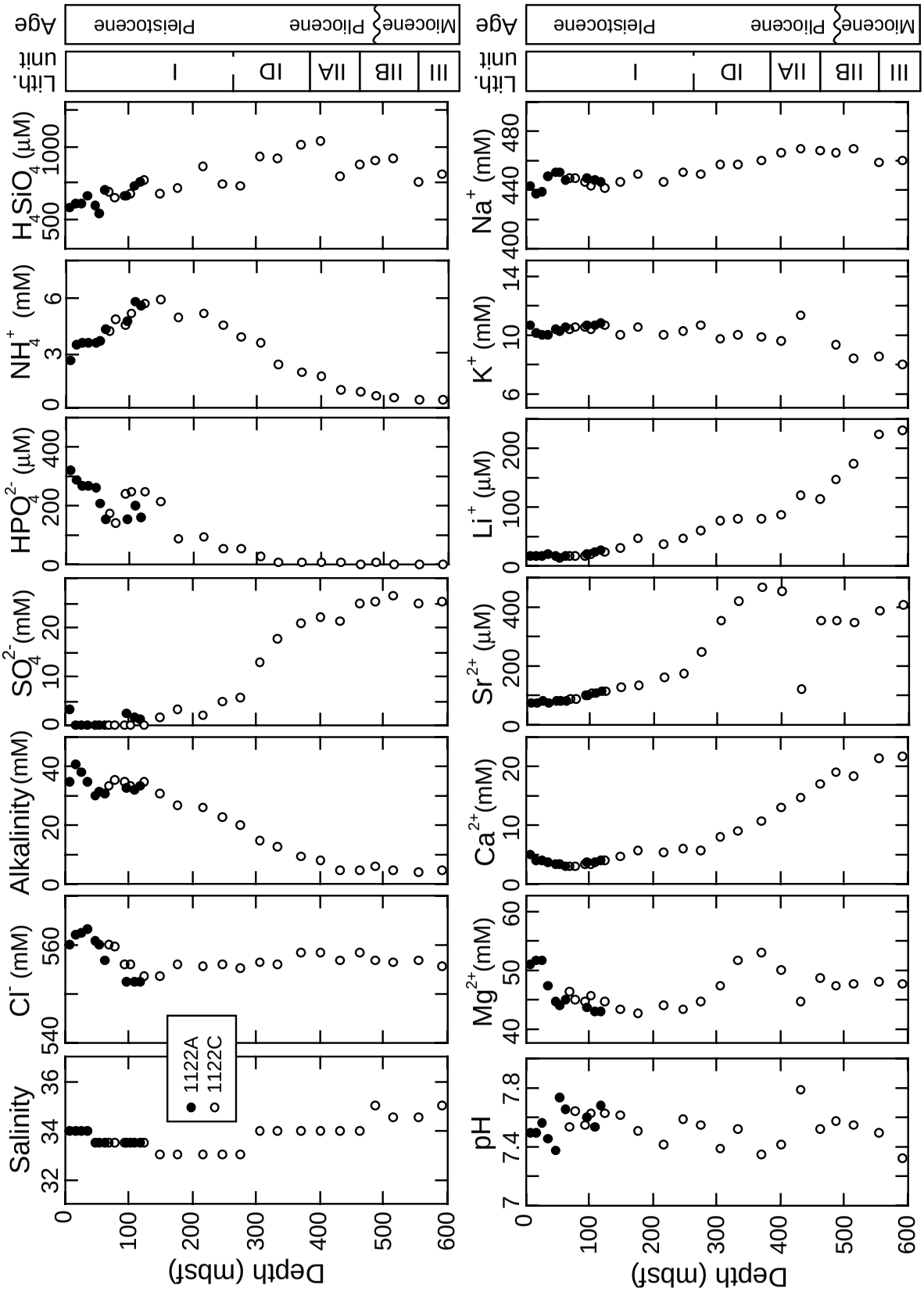


Figure F30. Depth profiles of interstitial-water constituents at Site 1122.

Figure F31. Headspace methane concentrations in sediments from Holes 1122A, 1122C, and, for comparison, Site 1119.

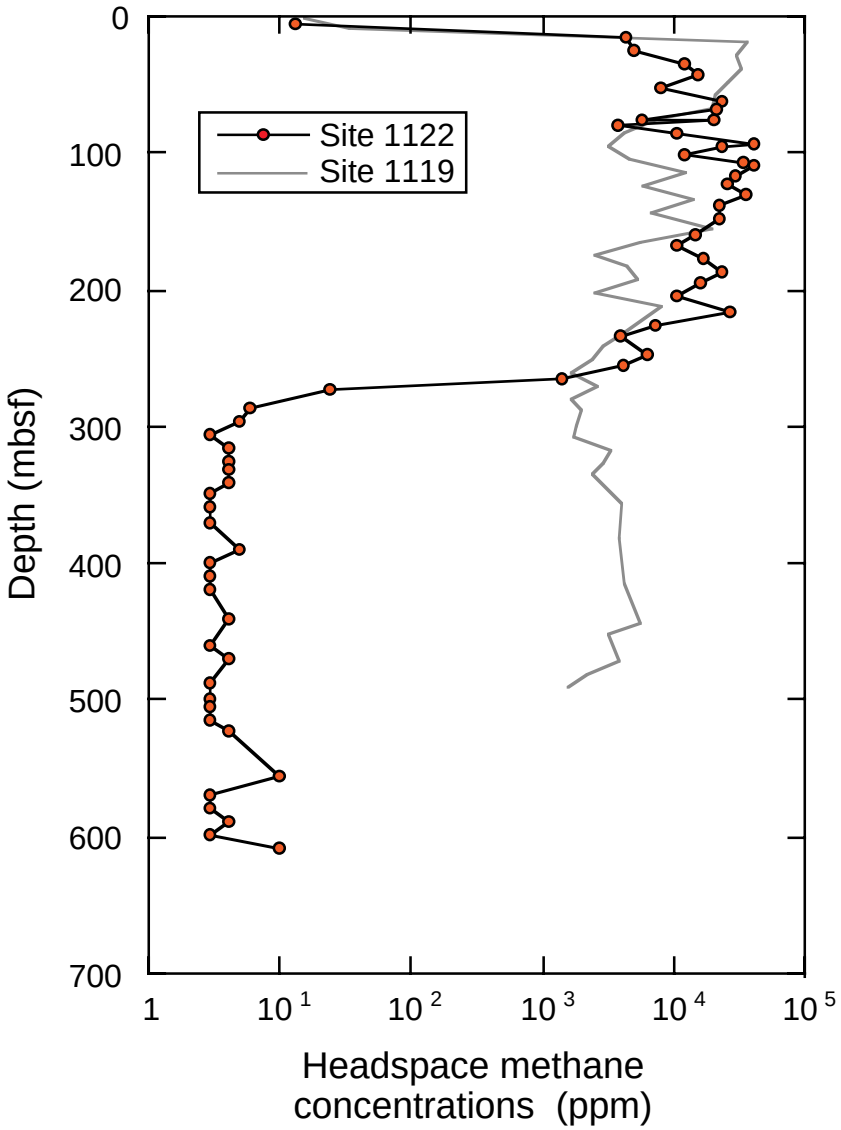


Figure F32. Carbonate contents in sediments from Holes 1122A and 1122C.

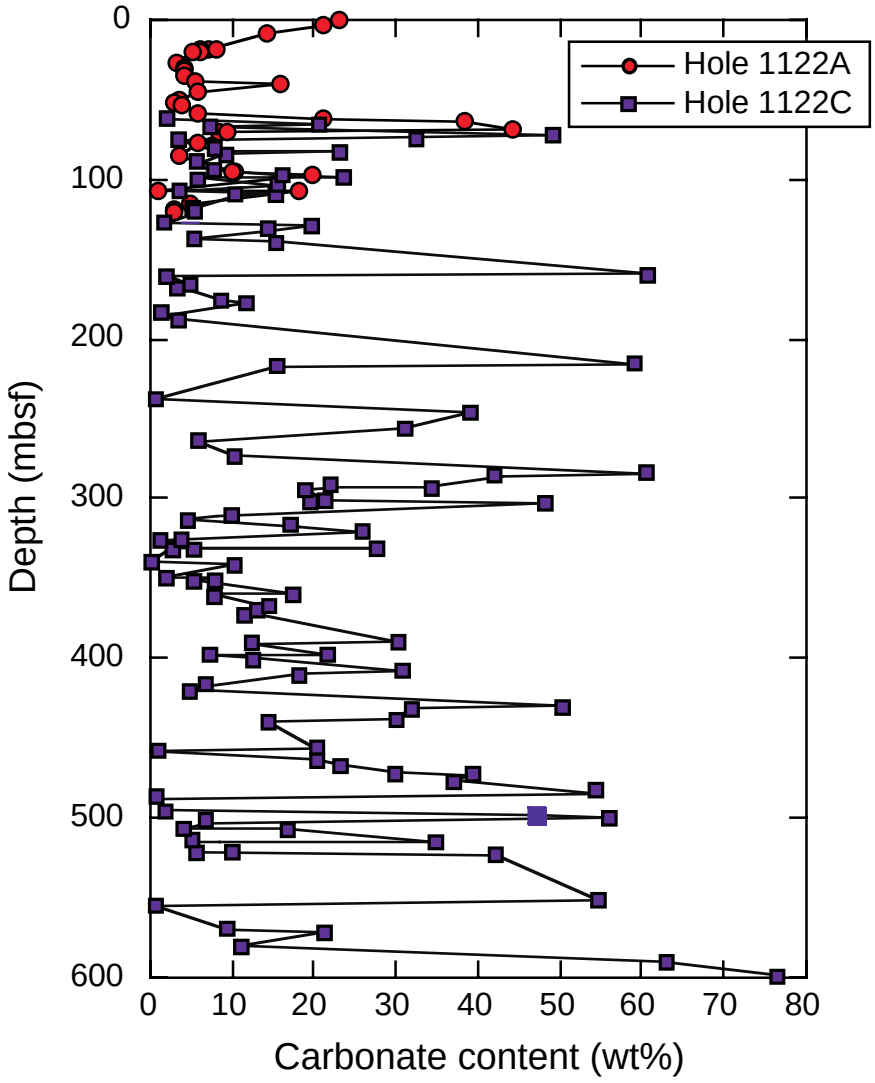
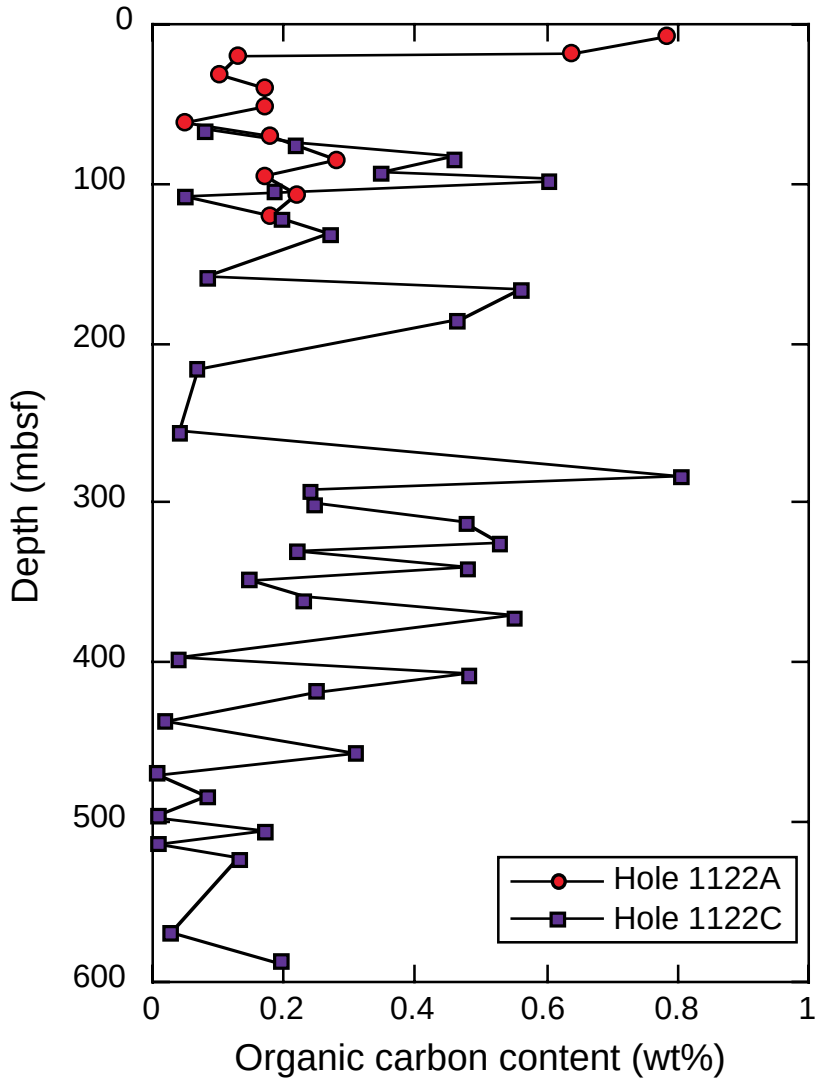


Figure F33. Organic carbon contents in sediments from Holes 1122A and 1122C.



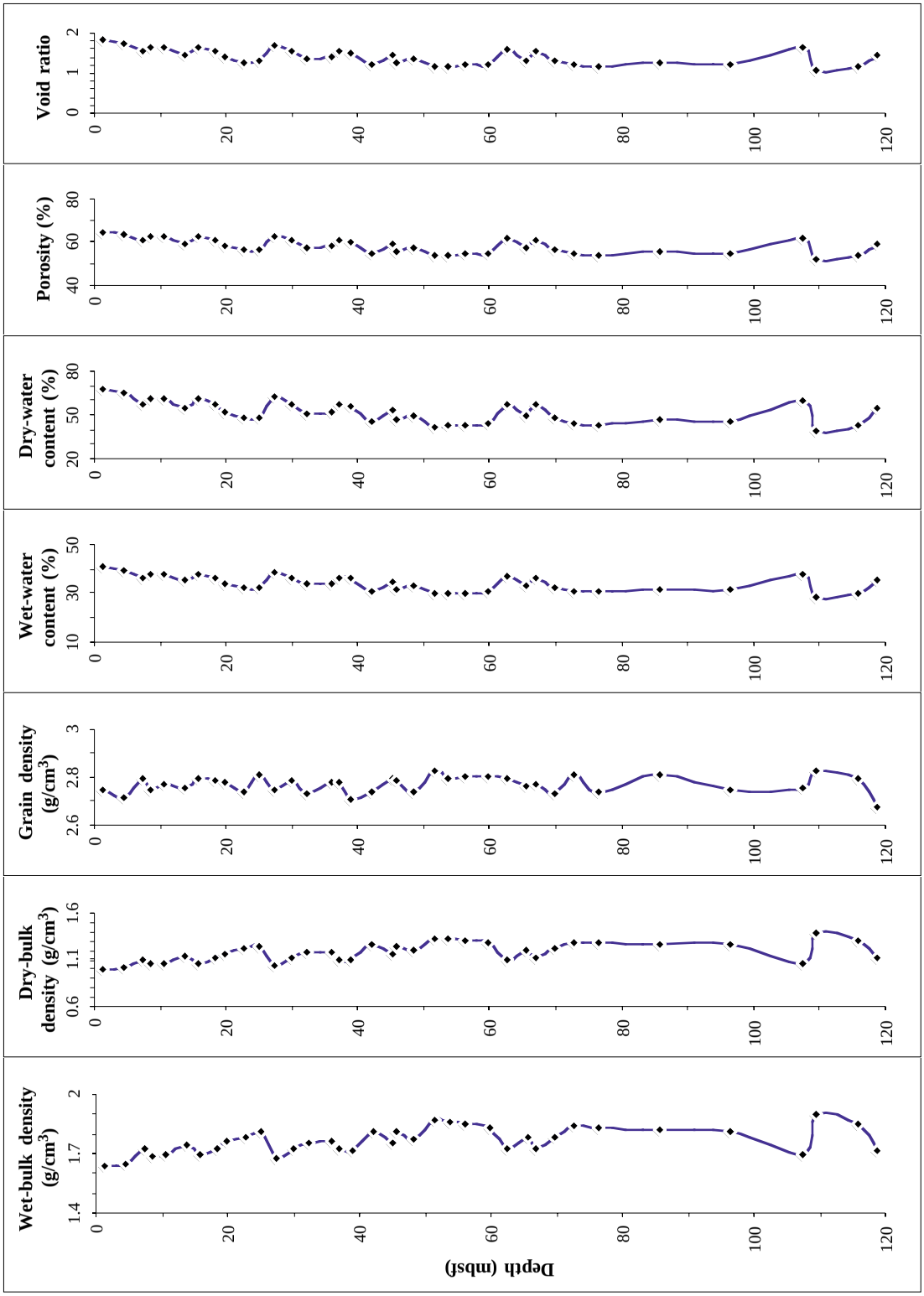


Figure F34. Index properties measurements from cores from Hole 1122A.

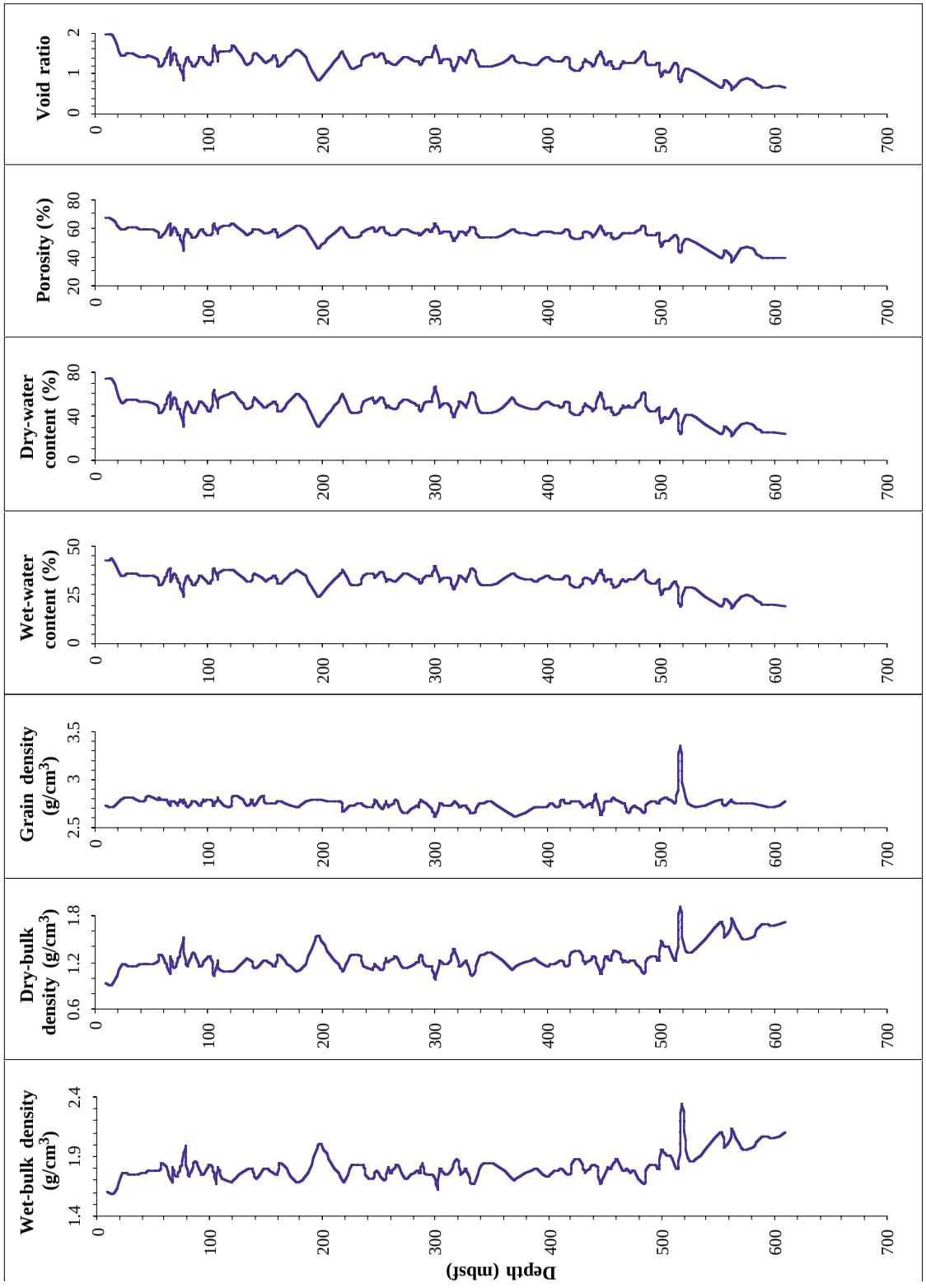


Figure F35. Index properties measured from cores from Hole 1122C.

Figure F36. MST measurements from Hole 1122A including GRAPE density, magnetic susceptibility, natural gamma-ray intensity, and *P*-wave velocity.

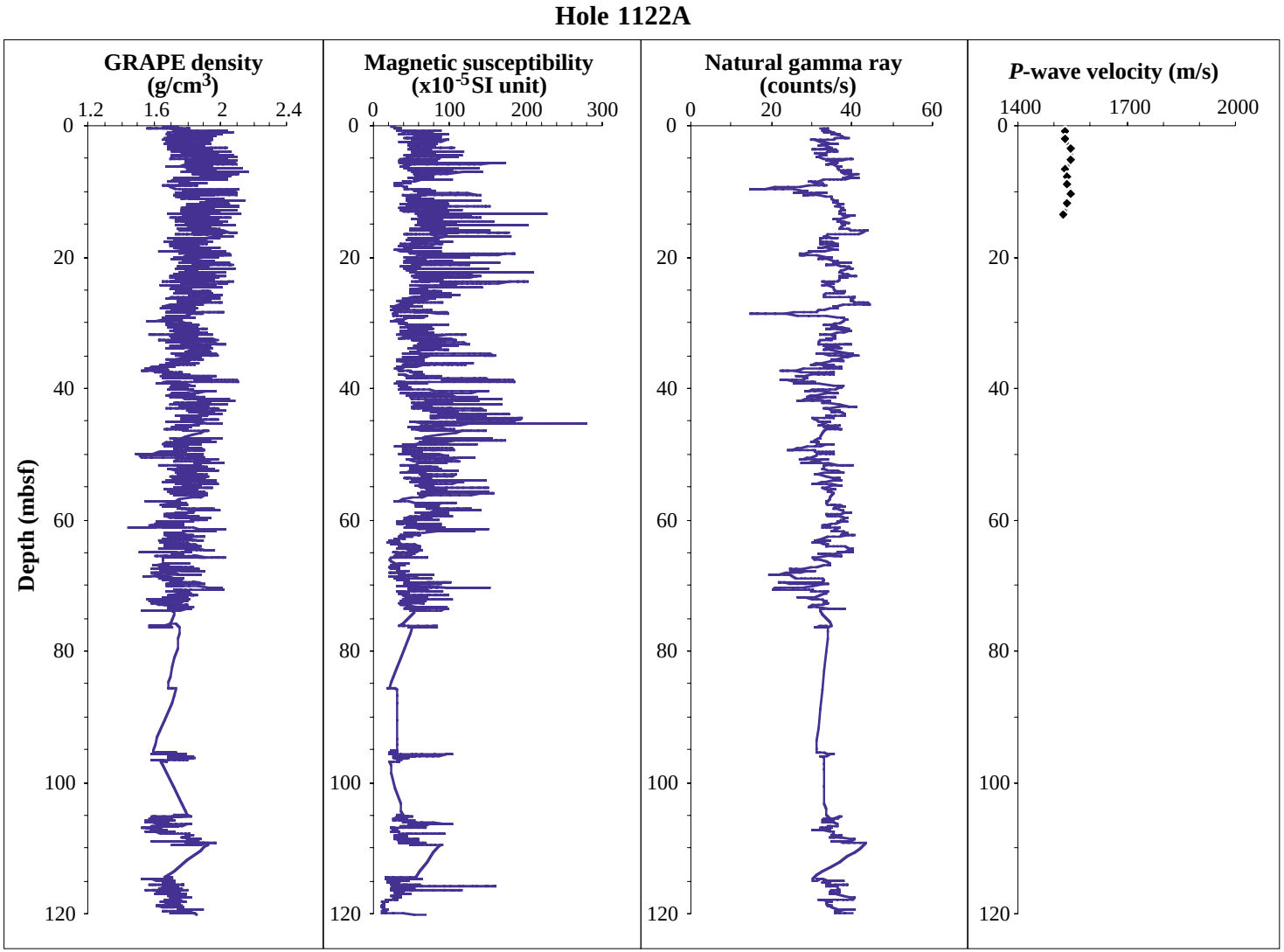


Figure F37. MST measurements from Hole 1122C including GRAPE density, magnetic susceptibility, natural gamma-ray intensity, and *P*-wave velocity.

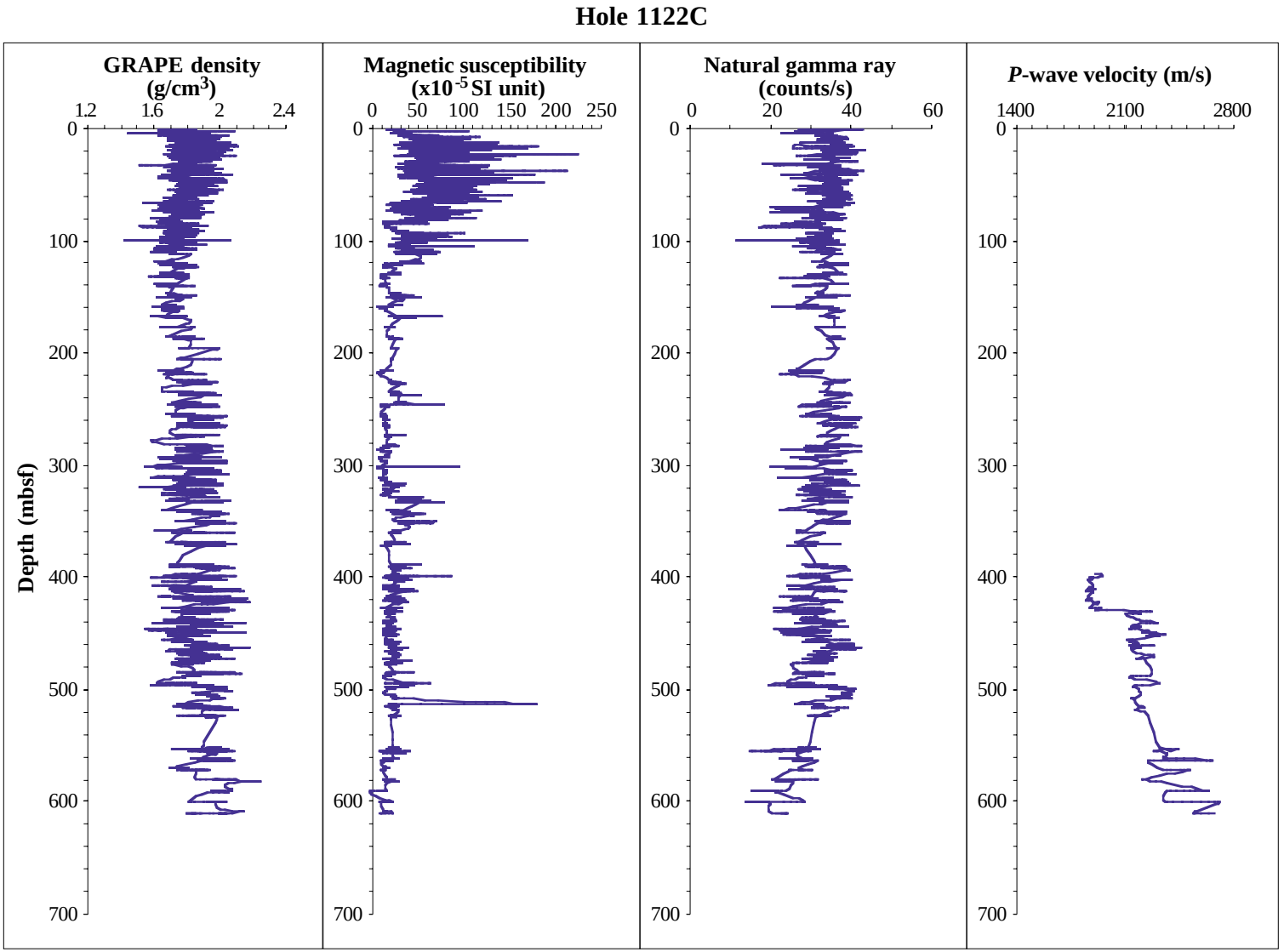


Figure F38. Density measurements in Hole 1122C using the GRAPE instrument on the MST in comparison with index properties. The circle markers indicate the distribution of wet-bulk density based on index property measurement.

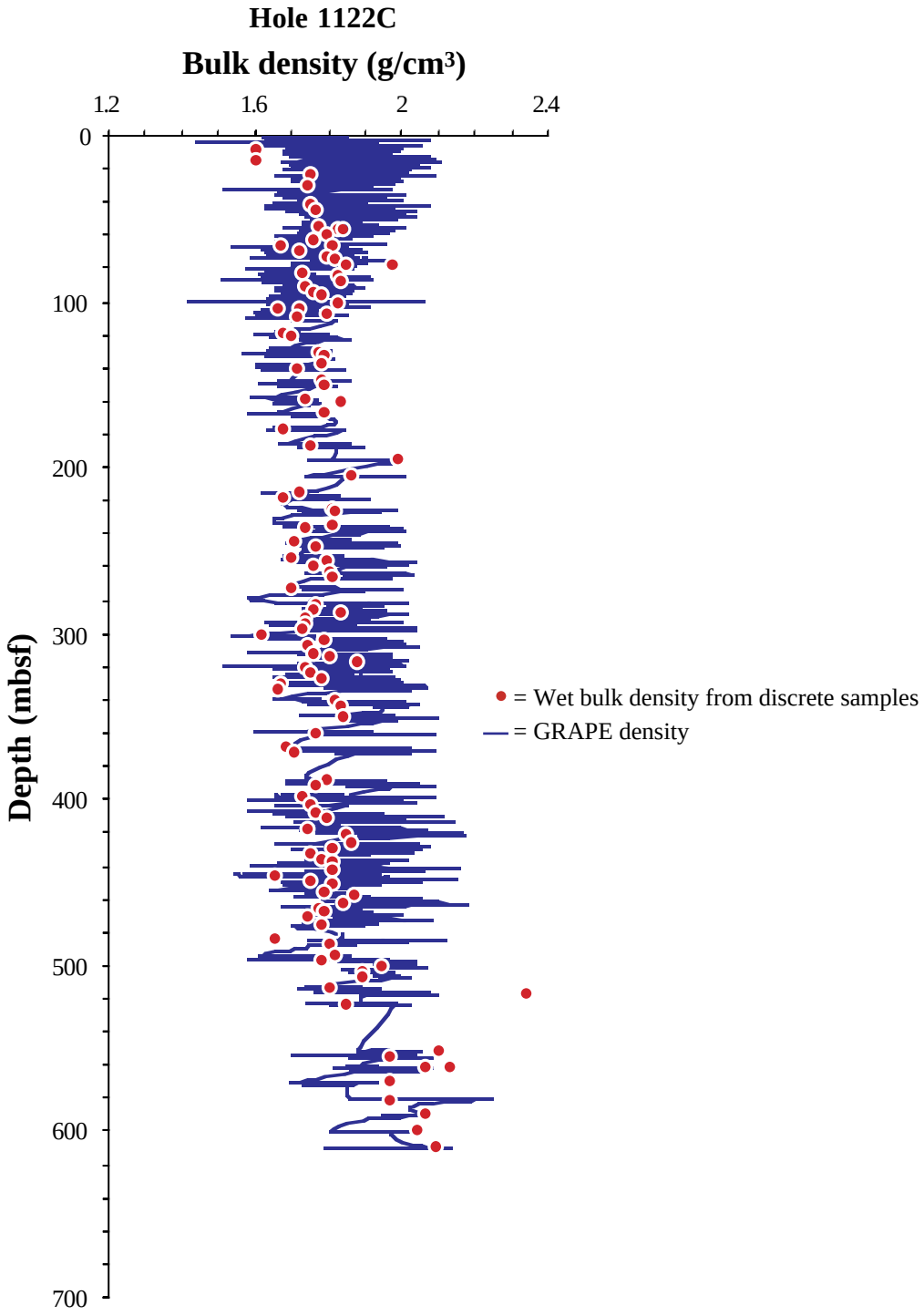


Figure F39. Distribution of shear strength in cores and the ratio of vane shear strength to overburden pressure determined from Holes 1119B, 1122A, and 1122C.

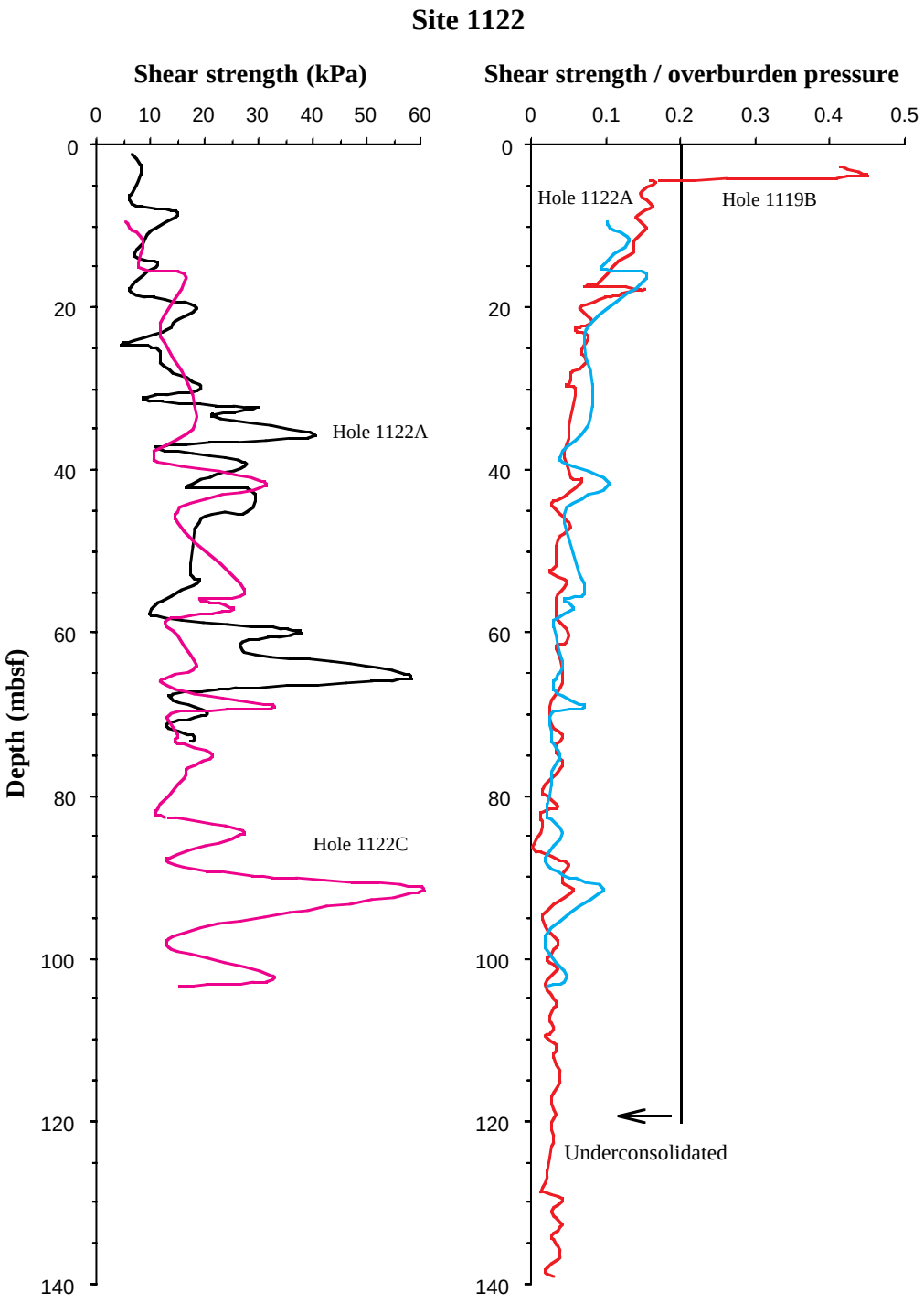


Table T1. Summary of seismic units and depth reflectors.

Plotted using assumed velocity profile							
Reflector	Unit	Time to top (ms TWT)	Assumed velocity (m/s)	Depth to reflector (m)	Thickness (m)	Cumulative thickness (m)	Character of reflections within units
Seabed				0	60		
R-1a		80	1510	60	69		Reflectors separate bundles of grouped waves
R-1b		170	1520	129	100		
R-1c		300	1530	230	68		
R-1d		387	1540	298	66		Faint reflectors; muddier subunit
	A				364	364	South-migrating sediment waves
R-2a		470	1550	364	54		
R-2b		523	1600	418	82		
	B				136	500	N-onlapping S-prograding and downlapping
R-3		580	1725	500			*Paraconformity (onlaps north)*
Depth drilled to 627 m							
	C				139	639	North-onlapping sediment prism
R-4		730	1750	639			*Unconformity Y (Davey, 1977)*
	D				1069	1708	Postrift sedimentary cover
Basement		1485	2300	1708			Oceanic crust
Estimated thickness to basement: 1708 m							

Plotted using velocity profile provided by downhole measurements							
Reflector	Unit	Time to top (ms TWT)	Assumed velocity (m/s)	Depth to reflector (m)	Thickness (m)	Cumulative thickness (m)	Character
Seabed				0	62		
R-1a		80	1548	62	73		Reflectors separate bundles of grouped waves
R-1b		170	1591	135	109		
R-1c		300	1629	244	74		
R-1d		387	1645	318	72		Faint reflectors; muddier subunit
	A				390	390	South-migrating sediment waves
R-2a		470	1660	390	57		
R-2b		523	1710	447	54		
	B				111	501	N-onlapping S-prograding and downlapping
R-3		580	1728	501			*Paraconformity (onlaps north)*
Depth drilled to 627 m							
	C				130	631	North-onlapping sediment prism
R-4		730	1730	631			*Unconformity Y (Davey, 1977)*
	D				1076	1708	Post-rift sedimentary cover
Basement		1485	2300	1708			Oceanic crust
Estimated thickness to basement: 1708 m							

Note: Horizontal lines separate the main seismic units recognized. Italics indicate unconformities.

Table T2. Site 1122 expanded coring summary. (**See table note.** Continued on next 12 pages).

Core	Date (September 1998)	Time (UTC)	Core depth (mbsf) Top	Core depth (mbsf) Bottom	Length (m) Cored	Length (m) Recovered	Recovery (%)	Section	Length (m) Liner	Length (m) Curated	Section depth (mbsf) Top	Section depth (mbsf) Bottom	Catwalk samples	Comment
181-1122A-														
1H	6	0040	0	9.3	9.3	9.32	100.2							
								1	1.5	1.5	0	1.5		
								2	1.5	1.5	1.5	3		
								3	1.5	1.5	3	4.5		
								4	1.5	1.5	4.5	6	IW	
								5	1.5	1.5	6	7.5	HS	
								6	1.5	1.5	7.5	9		
								7	0.14	0.14	9	9.14		
								CC	0.18	0.18	9.14	9.32	PAL	
									9.32	9.32				
2H	6	0155	9.3	18.8	9.5	9.66	101.7							
								1	1.5	1.5	9.3	10.8		
								2	1.5	1.5	10.8	12.3		
								3	1.5	1.5	12.3	13.8		
								4	1.5	1.5	13.8	15.3	IW	
								5	1.5	1.5	15.3	16.8	HS	
								6	1.5	1.5	16.8	18.3		
								7	0.48	0.48	18.3	18.78		
								CC	0.18	0.18	18.78	18.96	PAL	
									9.66	9.66				
3H	6	0300	18.8	28.3	9.5	9.77	102.8							
								1	1.5	1.5	18.8	20.3		
								2	1.5	1.5	20.3	21.8		
								3	1.5	1.5	21.8	23.3		
								4	1.5	1.5	23.3	24.8	IW	
								5	1.5	1.5	24.8	26.3	HS	
								6	1.5	1.5	26.3	27.8		
								7	0.63	0.63	27.8	28.43		
								CC	0.14	0.14	28.43	28.57	PAL	
									9.77	9.77				
4H	6	0425	28.3	37.8	9.5	10.05	105.8							
								1	1.5	1.5	28.3	29.8		
								2	1.5	1.5	29.8	31.3		
								3	1.5	1.5	31.3	32.8		
								4	1.5	1.5	32.8	34.3	IW	
								5	1.5	1.5	34.3	35.8	HS	
								6	1.5	1.5	35.8	37.3		
								7	0.9	0.9	37.3	38.2		
								CC	0.15	0.15	38.2	38.35	PAL	
									10.05	10.05				
5H	6	0530	37.8	47.3	9.5	8.82	92.8							
								1	1.5	1.5	37.8	39.3		
								2	1.5	1.5	39.3	40.8		
								3	1.5	1.5	40.8	42.3		
								4	1.5	1.5	42.3	43.8		