

Table 1. Flow unit divisions from this study compared with subdivisions used during Leg 165.

Flow unit	Leg 165 unit	Unit			Depth interval (mbsf)	Leg 165		Unit		Depth interval (mbsf)
		Top	Bottom	Formation		Unit	Top	Bottom		
53A	4	1001A-52R-8, 30 cm 1001B-32R-6, 121 cm Chilled margin	1001A-53R-4, 43 cm 1001B-32R-8, 113 cm	486.91-491.20 486.82-bottom of hole	A	1-4	1001A-52R-6, 59 cm Chilled margin	1001A-53R-4, 43 cm	485.13-491.20	
53B	5	1001A-53R-4, 43 cm	1001A-53R-4, 124 cm	491.20-492.01	B	5	1001A-53R-4, 43 cm	1001A-54R-1, 71 cm	491.20-494.71	
	6-10	Basalt breccia, glassy and vesicular rinds				6-10				
54A	11	1001A-54R-1, 0 cm	1001A-54R-1, 71 cm	494.00-494.71		5-11	Basalt breccia, basaltic hyaloclastite breccia, glassy clastic matrix			
	12	Basalt breccia and basaltic hyaloclastite breccia with glassy clastic matrix				12				
54B	13	1001A-54R-2, 24 cm	1001A-54R-2, 105 cm	495.68-496.49	C	13	1001A-54R-1, 71 cm	1001A-54R-3, 102 cm	494.71-497.89	
	14-16	Basaltic hyaloclastite breccia with glassy clastic matrix (units 14-16)				14-16				
54C	17	1001A-54R-3, 0 cm Chilled margin	1001A-54R-3, 102 cm	496.87-497.89		12-17	Chilled margin			
54D	18-19	1001A-54R-3, 102 cm Chilled margin	1001A-54R-4, 43 cm	497.89-498.70	D	18-19	1001A-54R-3, 102 cm Chilled margin	1001A-54R-4, 43 cm	497.89-498.70	
54E	20	1001A-54R-4, 43 cm	1001A-54R-4, 127 cm	498.70-499.54		20				
	21	Chilled margin			E	21	Chilled margin	1001A-54R-5, 30 cm	498.70-499.84	
54F1	22	1001A-54R-5, 3 cm Chilled margin	1001A-54R-5, 30 cm	499.57-499.84		20-22	1001A-54R-4, 43 cm Chilled margin			
54F2#	23	1001A-54R-5, 30 cm Chilled margin and white chalk with possible laminations.	1001A-54R-5, 43 cm	499.84-499.97	F	23	1001A-54R-5, 30 cm Chilled margin and white chalk with possible laminations.	1001A-54R-5, 43 cm	499.84-499.97	
54G1	24	1001A-54R-5, 43 cm	1001A-54R-6, 85 cm	499.97-501.89	G	24	1001A-54R-5, 43 cm	1001A-54R-7, 85 cm	499.97-503.30	
		Core break with change in basalt texture and an abrupt change in inclination				24				
54G2	24	1001A-54R-6, 85 cm Glassy basalt possibly a chilled margin	1001A-54R-7, 40 cm	501.89-502.85		24				
54H	25	1001A-54R-7, 40 cm	1001A-54R-7, 77 cm	502.85-503.22		25				
	26	Carbonate with subangular basalt clasts			*	24-26	1001A-54R-7, 85 cm	1001A-54R-7, 107 cm	503.30-503.52	
54I#	27	1001A-54R-7, 85 cm Basaltic hyaloclastite fragments in a carbonate matrix	1001A-54R-7, 107 cm	503.30-503.52		27				
55A	29	1001A-55R-1, 3 cm Chilled margin, possibly pillow lava fragments	1001A-55R-1, 105 cm	503.63-504.65	H	28-29	1001A-55R-1, 0 cm	1001A-55R-1, 105 cm	503.60-504.65	
55B	32	1001A-55R-1, 120 cm Chilled margin, possibly pillow lava fragments	1001A-55R-1, 150 cm	504.80-505.10		30-31				
55C	32	1001A-55R-2, 0 cm Chilled margin, possibly pillow lava fragments	1001A-55R-2, 22 cm	505.10-505.32		32				
55D	33	1001A-55R-2, 28 cm Chilled margin	1001A-55R-2, 105 cm	505.32-506.15		32				
55E	34	1001A-55R-2, 105 cm Chilled margin	1001A-55R-2, 117 cm	506.15-506.27	I	33	1001A-55R-1, 105 cm	1001A-55R-3, 35 cm	504.65-506.86	
55F	35	1001A-55R-2, 121 cm Chilled margin	1001A-55R-2, 140 cm	506.31-506.50		34				
55G#	37	1001A-55R-3, 5 cm Chilled margin	1001A-55R-3, 18 cm	506.56-506.69		35				
55H	38	1001A-55R-3, 20 cm Chilled margin, many small basalt fragments, possibly pillow fragments	1001A-55R-3, 35 cm	506.71-506.86		36				
55I#	46	1001A-55R-3, 87 cm Likely recovery gap between cores	1001A-55R-3, 105 cm	507.38-507.56		37				
56A	46	1001A-56R-1, 0 cm Chilled margin	1001A-56R-1, 20 cm	513.20-513.40	J	37	1001A-55R-3, 35 cm	1001A-56R-1, 78 cm	506.86-513.98	
56B	47	1001A-56R-1, 20 cm Chilled margin	1001A-56R-1, 45 cm	513.40-513.65		38				
56C#	47	1001A-56R-1, 45 cm Chilled margin with basalt clasts surrounded by calcite matrix	1001A-56R-1, 78 cm	513.65-513.98		39-48				
56D	47	1001A-56R-1, 99 cm Chilled margin with basalt clasts surrounded by calcite matrix	1001A-56R-1, 141 cm	514.19-514.61	K	49	1001A-56R-1, 78 cm	1001A-56R-1, 141 cm	513.98-514.61	
56E	52	1001A-56R-2, 67 cm	1001A-56R-3, 99 cm	515.37-517.04		49				
					L	51	1001A-56R-1, 141 cm	1001A-56R-3, 137 cm	514.61-517.42	

Notes: Leg 165 Unit gives the unit names and Leg 165 Formation gives the formation names from Sigurdsson, Leckie, Acton, et al. (1997). Chilled margins are evidenced by quench basalts typically with glass. # = no reliable paleomagnetic data were obtained from these units; * = not included in any formation.