

DR 2004135

Figure DR1. Orthogonal projection and equal-area plot of samples from the S. Lorenzo lacustrine basin. Numbers denote demagnetization steps in °C. Thermal demagnetization yields well-defined components of demagnetization, usually after a small viscous component is removed. Open and solid circles represent projections onto the vertical and horizontal planes, respectively. Total natural remanent magnetization (NRM) intensities are shown.

Figure DR2. Orthogonal projection and equal-area plot of samples from the S. Lorenzo lacustrine basin. Numbers denote demagnetization steps in °C. Thermal demagnetization shows two components with overlapping temperature spectra, usually after a small viscous component is removed. Open and solid circles represent projections onto the vertical and horizontal planes, respectively. Total natural remanent magnetization (NRM) intensities are shown.

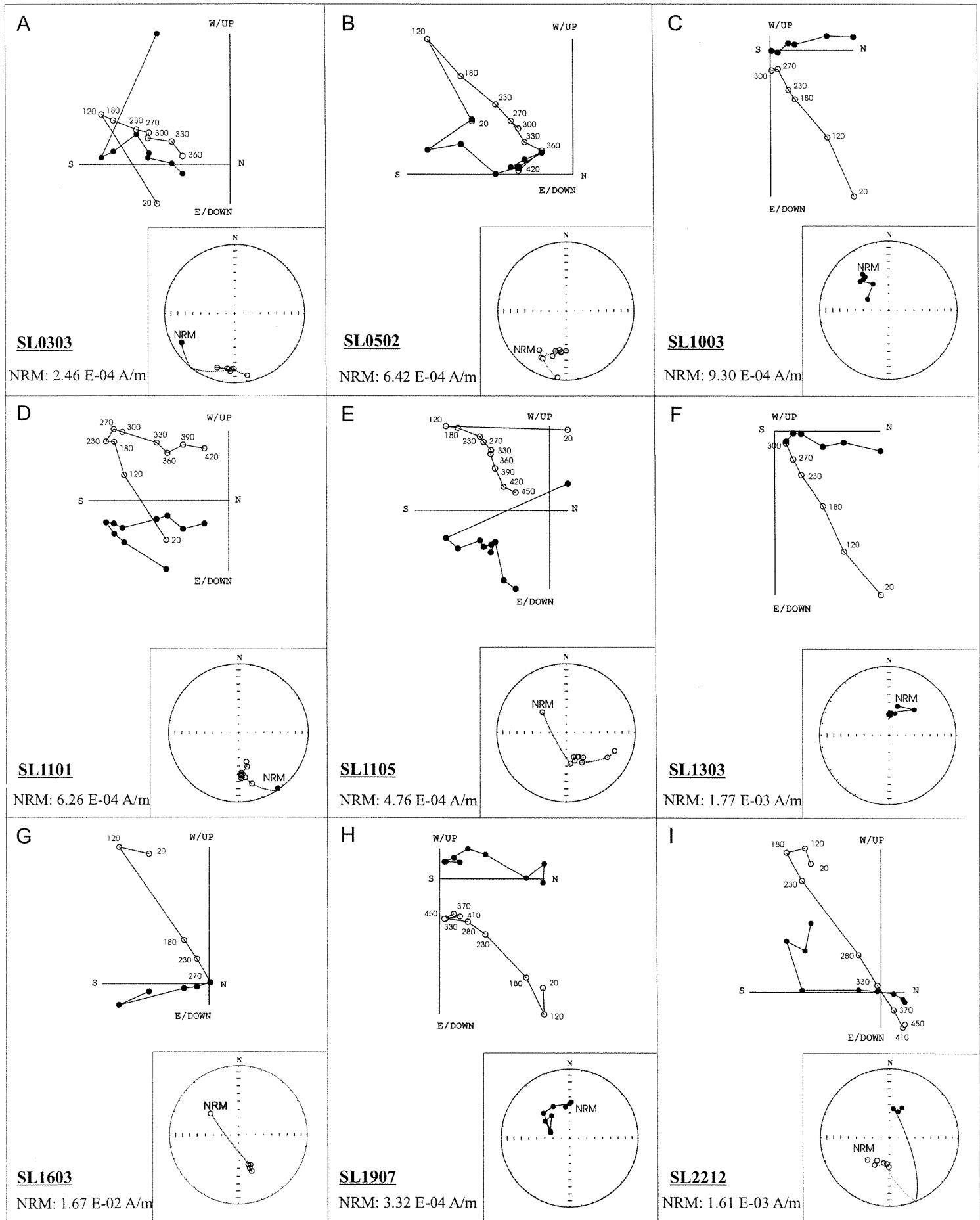


Fig. Dr1

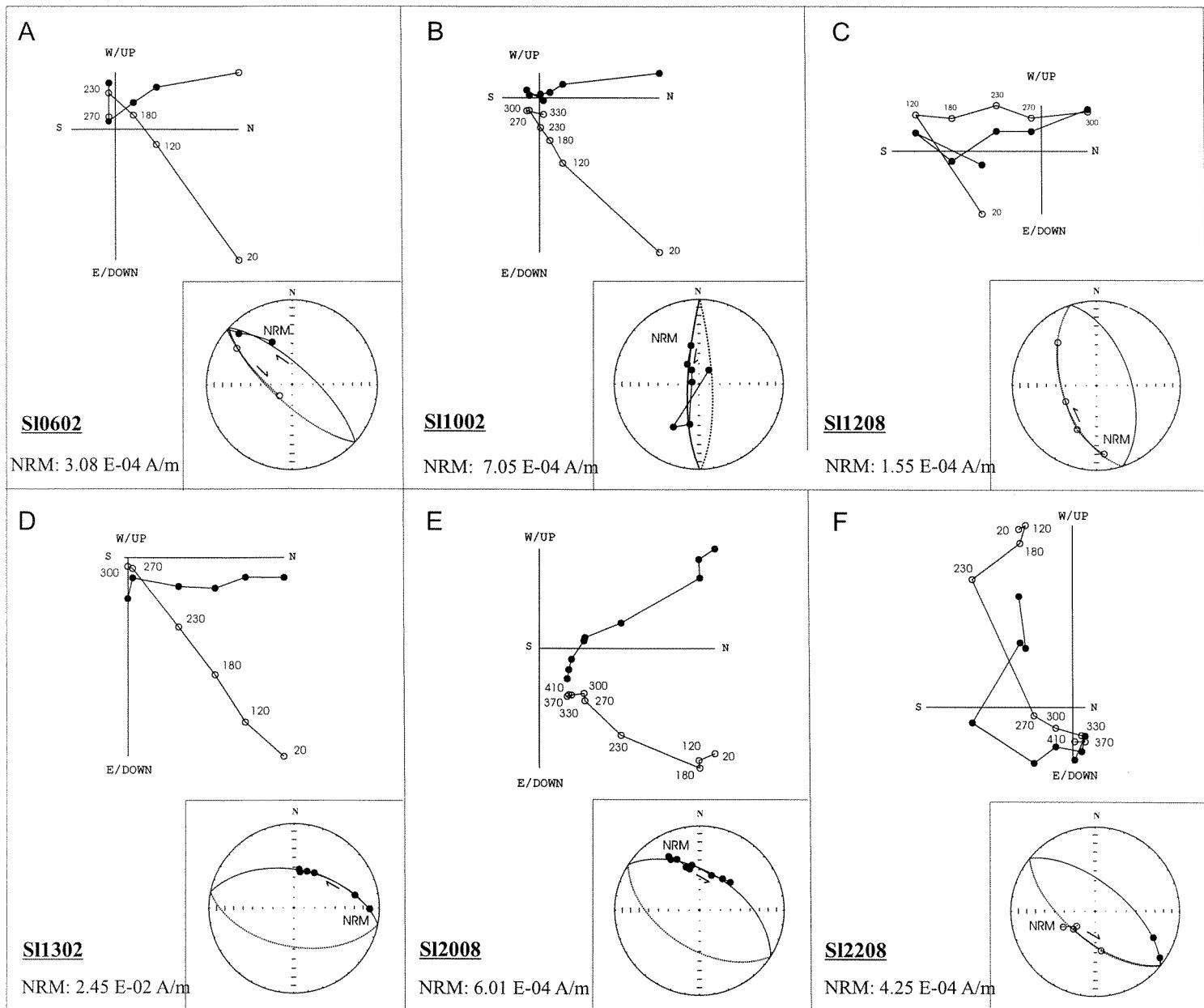


Fig. Dr2

TABLE DR1. SITE MEAN PALEOMAGNETIC DIRECTIONS

Sites (age)	$N(n,c)$	Geographic coordinates				Stratigraphic coordinates		
		D	I	k	α_{95}	D	I	S_0
SL02 (M)	9 (2,4) 193.10	-37.70	20.01	17	178.51	-46.65	250, 18	
SL03 (M)	8 (2,3) 188.20	-23.10	89.24	12.7	174.98	-24.97	268, 29	
SL05 (M)	9 (7,1) 217.10	-51.30	18.78	12.3	176.28	-49.89	289, 32	
SL06 (M)	6 (0,6) 151.00	-48.00	397.61	3.4	151.00	-48.00	270, 8	
SL08 (M)	9 (7,0) 213.00	-35.70	23.92	12.6	204.36	-36.28	312, 13	
SL11 (M)	9 (8,0) 164.30	-37.70	53.80	7.6	171.29	-52.15	142, 16	
SL12 (M)	8 (2,6) 188.70	-34.40	3.45	11.3	188.70	-34.40	0, 0	
SL16 (?)	10 (8,1) 158.00	-67.70	63.09	5.1	182.45	-60.30	48, 14	
SL13 (?)	9 (7,1) 11.80	55.70	107.61	5.4	356.89	56.47	270, 10	
SL10 (J)	8 (4,4) 335.10	50.10	32.31	10.3	335.10	50.10	70, 25	
SL22 (J)	15 (7,4) 358.60	49.70	34.79	7.2	12.50	46.00	79, 13	
SL15 (J)	8 (1,3) 356.40	50.90	190.40	9.4	341.50	55.30	236, 12	
SL17 (J)	13 (0,5) 358.60	71.60	102.99	7.6	5.60	56.90	15, 15	
SL19 (J)	11 (2,4) 315.20	56.60	47.31	11	343.30	48.60	310, 10	
SL20 (J)	9 (7,2) 335.90	41.50	19.28	12.2	354.50	51.60	105, 20	
Mean		15	357.90	49.60	16.83	9.6		
					34.43	6.6	356.5	48.50

Note: M = Late Matuyama chron; J = Jaramillo subchron; ? = greigite bearing sites; N = number of demagnetised samples (n = number of set points; c = number of remagnetization circles); D = declination (in degrees); I = inclination (in degrees); k = best estimate of the precision parameter; α_{95} = angular radius of the cone in which the mean direction lies within 95% confidence; S_0 = bedding attitude. The magnetic polarity of sites SL13 and SL16 has been considered unreliable because the main magnetic carrier is greigite

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