

## 19. PRELIMINARY PALEOMAGNETIC RESULTS, LEG 8<sup>1</sup>

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The accompanying data were obtained with a slow-speed spinner magnetometer employing fluxgate sensors and phase-lock detection. The device used for partially demagnetizing the Leg 8 core-hole samples has a four-axis sample tumbler and 60-hertz alternating field which decreases from 150 oersted peak value to zero oersted in about 2 minutes. The remanent magnetic measurements were made within a magnetic shield, but the partial demagnetization took place within the earth's field.

Inclination is with respect to the present horizontal, - upward, assuming vertical boreholes. Declinations

are relative only to a given core barrel, assuming no core rotation within the barrel. The first row of data for each sample refers to the natural remanent magnetization, the second row to the remanent magnetization after partial demagnetization at 150 oersted peak alternating field. The angular and intensity errors are estimated probable errors determined from redundant measurements.

The only site considered suitable for preliminary paleomagnetic measurements was Site 68; five samples were available from Core 1, Site 68.

### SUMMARY OF MAGNETIC DATA

Sample Designation	Distance from Section Top	Incl. (deg.)	Decl. (deg.)	Intensity ( $\times 10^5$ emu/cc)	Angular error (deg.)	Intensity error (per cent)
68-1-2	91	-23.3	210.9	2.61	0.7	6
		-54.9	338.0	0.58	1.8	11
68-1-3	71	-10.0	182.4	4.92	0.0	2
		-45.9	185.4	0.80	4.4	11
68-1-4	15			(not measurable)		
68-1-5	90	-16.3	214.0	0.65	4.1	21
		-20.0	325.6	6.38	2.2	25
68-1-6	10	-15.4	178.1	2.97	0.1	4
		-75.3	141.1	0.41	2.0	18

<sup>1</sup>Publication authorized by the Director, U.S. Geological Survey.