

VII. GEOMAGNETIC DATA

Yoshiaki ABE*

Observers: Yoshiaki Abe and
Masayuki Kuwashima

The declination (D) and the inclination (I) of geomagnetism were measured at 14 stations and the total force (F) was at 8 stations, during the oversnow traverse from Syowa Station to the Yamato Mountains in November 1973-January 1974 (see Fig. A and report I in this volume). Instruments used for the measurements were a G.S.I. magnetometer (Sokkisha Co., Japan) for D and I; a proton magnetometer G-186 (Geometric Co., U.S.A.) for F. The measurements were made at a distance of more than 50 m away from oversnow vehicles. At each station, D and I were measured twice in succession; F ten times at intervals of six seconds. The reading accuracy of the instruments was 0.1' for D and I, and 1 γ for F; that of time (G.M.T.) was 1 min.

Results of measurements are shown in Table 1. The positions and elevations of stations are tabulated in report II. The accuracy of the results is regarded as $\pm 3-5$ min for D and I; ± 10 γ for F, considering the error in positions of stations and the daily variation of geomagnetism. Geomagnetic values obtained by JARE-10 in 1969-1970 along the same traverse route as the present one were published in Data Reports (Yoshida and Yoshimura, 1972).

* Geographical Survey Institute, Ministry of Construction, Otemaenochō, Higashi-ku, Osaka 540.

Reference

Yoshida, M. and A. Yoshimura (1972) : Geomagnetic survey in the Mizuho Plateau-West Enderby Land area, East Antarctica, 1969-1971. JARE Data Rep., 17 (Glaciology), 204-217.

Table 1. Geomagnetic data in Mizuho Plateau, 1973-1974.
F: total force, D: declination, and I: inclination. Positions and elevations of stations should be referred to report II.

Station	Date	GMT	F	D	I
			$\times 10^r$		
S 16	10 Nov. 1973	1215	4543		
S 19	10 Nov. 1973	1332	4557		
S 23	10 Nov. 1973	1529	4598		
"	11 Nov. 1973	0748	4593		
S 30	11 Nov. 1973	0956	4600		
H 27	11 Nov. 1973	1112	4594		
H 59	11 Nov. 1973	1405	4616		
H 77	11 Nov. 1973	1521	4609		
Z11-1	13 Nov. 1973	1852		48° 52' W	-66° 04'
C138	18 Nov. 1973	2015		49 15	-66 18
C 98	20 Nov. 1973	1947		47 47	-66 21
C 64	23 Nov. 1973	1920		46 27	-65 55
C 37	25 Nov. 1973	1123		45 02	-65 56
Yamato D-0	4 Dec. 1973	1622		44 07	-65 24
Yamato B-12	18 Dec. 1973	1701		44 22	-65 52
A010	25 Dec. 1973	1649		44 25	-66 30
A055	6 Jan. 1974	1049			-66 23
A606	11 Jan. 1974	1450		47 41	-66 38
A650	15 Jan. 1974	1534		47 32	-66 47
S215	19 Jan. 1974	2022		49 42	-66 41
S200	20 Jan. 1974	1934		50 00	-66 42
S174	21 Jan. 1974	1913		49 30	-66 21