

VIII. DIRECTION OF LONG AXIS OF A SASTRUGI

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A sastrugi represents the forms eroded by katabatic winds. The long axis of a sastrugi is oriented along the direction of the prevailing winds. During oversnow traverses, the directions of the long axis of sastrugi were measured at about 20 km intervals by a magnetic hand compass.

Figure 1 shows the map of traverse routes and direction of long axis of a sastrugi observed by the JARE-23 oversnow traverse party and also by the other traverse party in the Mizuho Plateau (Watanabe, 1978). The thicker solid lines show the direction of long axis of a sastrugi obtained by JARE-23.

The stations and directions of long axis of sastrugi are tabulated in Table 1.

Reference

Watanabe, O. (1978): Distribution of surface features of snow cover in Mizuho Plateau. *Memoirs of National Institute of Polar Research, Special Issue, 7*, 44-62.

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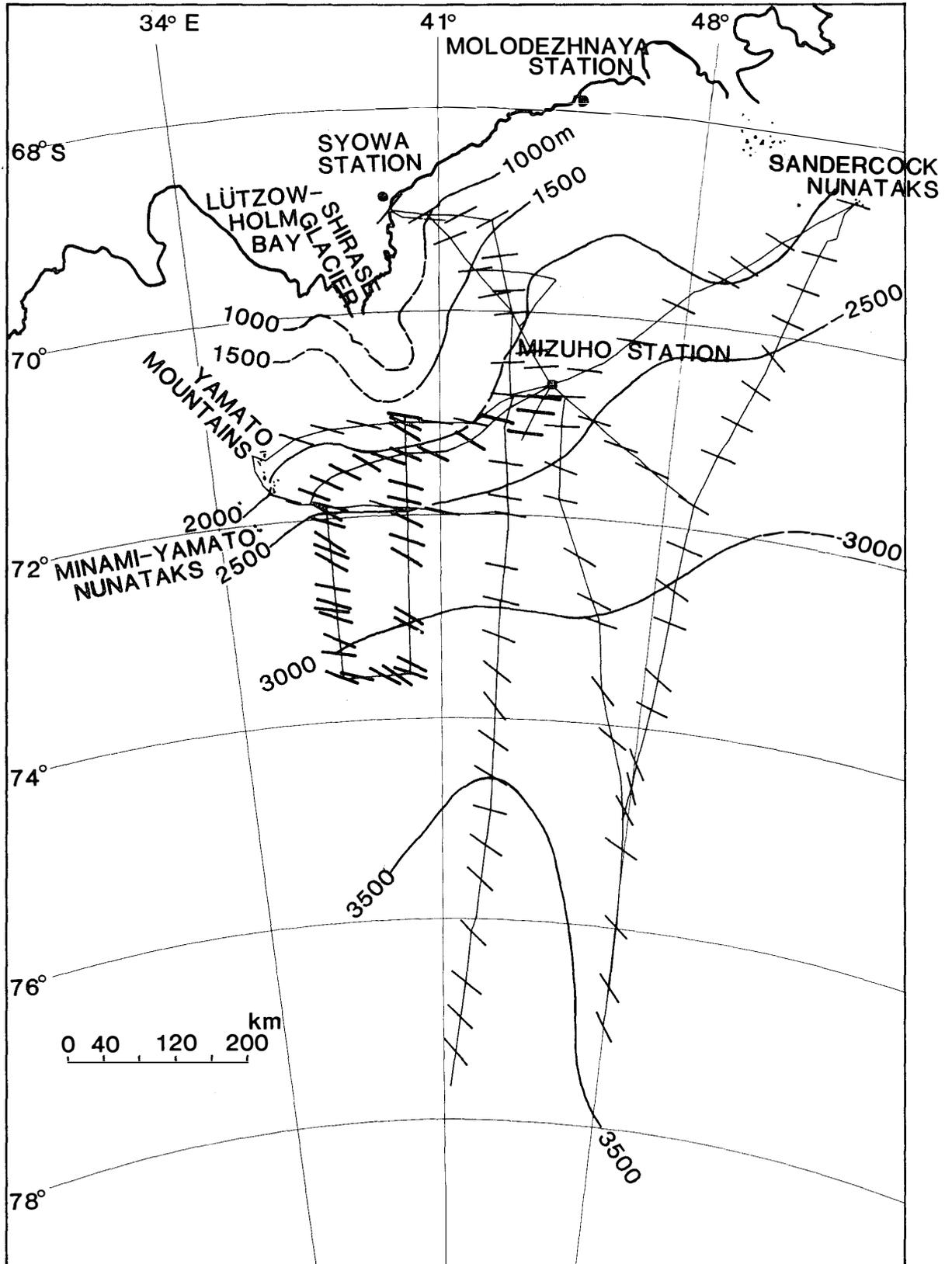


Fig. 1. Direction of long axis of sastrugi on snow surface.

Table 1. Station and direction of long axis of sastrugi along the oversnow traverse routes in 1982-1983.

Station No.	Direction of the long axis of a sastrugi	Station No.	Direction of the long axis of a sastrugi
SS 0	282°	SS 150	290°
10	292	157	282
15	302	160	282
20	285	165	300
25	292	170	300
40	290	175	292
55	297	178	297
60	297	181	292
65	292	184	287
70	302	190	298
100	301	196	291
106	304	200	304
109	301	205	302
115	301	210	309
120	301	215	294
125	291	221	309
130	305	225	304
135	301	229	294
145	287	235	294

Station No.	Direction of the long axis of a sastrugi	Station No.	Direction of the long axis of a sastrugi
YM 37	282	G1 5	284
39	276 - 282	10	274
60	301	15	274
80	286	20	274
96	300	25	264
111	291	35'	274
115	307		
120	303		
125	303		
130'	300		
135	307		
140	304		
145	308		
150	299		
162	284		
164'	294		

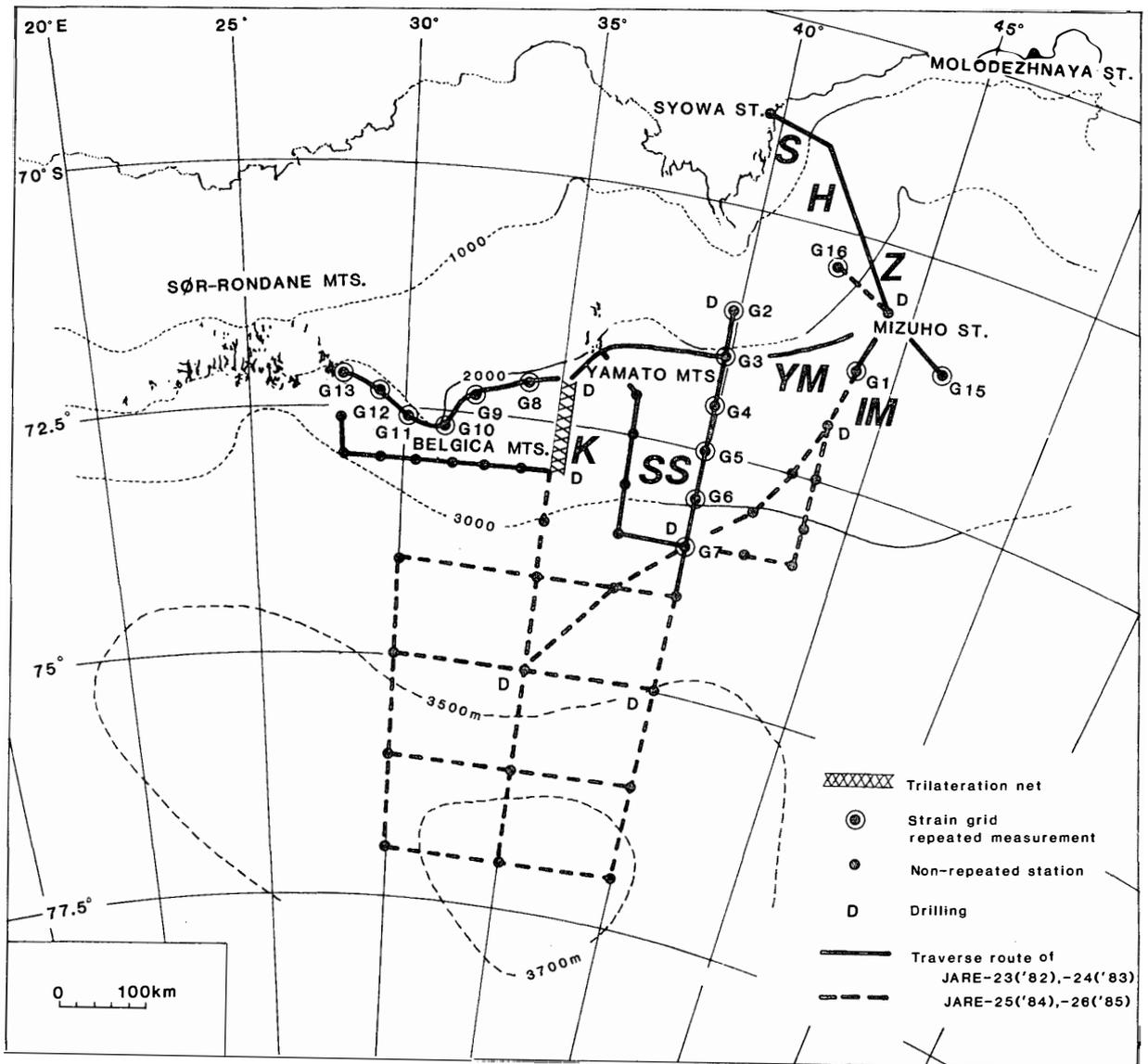


Fig. A. A map of the routes of the oversnow traverses in East Queen Maud Land, East Antarctica.