Supplementary Table 3: Clast-fabric statistics and interpretations

Interpreted stratigraphic unit and lithofacies	Station ID	Fabric Site | Sample ID	Depth_Top (m)	Fabric Type	Number of Clasts Observed	Modality[1]	V_1 strike[2] (°)	V_1 dip[2] (°)	S_1[2]	S_2[2]	S_3[2]	Elongation [1-(S_2/S_1)]	Isotropy (S_3/S_1)	Interpreted ice-flow (°)
G-1	115-21-003	115-21-003-B01	1.30	a-axis	30	Spread bimodal	107	12	0.56	0.36	0.08	0.36	0.15	WNW-ESE (287-107)
G-1	115-21-010/115-22-301	115-21-010-A01	1.35	a-axis	31	Spread unimodal	1	10	0.74	0.19	0.07	0.74	0.09	S (181)
G-1	115-21-005	115-21-005-A01	1.30	a-axis	31	Spread bimodal	349	22	0.67	0.20	0.13	0.70	0.20	S (169)
F diamict	115-19-001	115-19-001-A01	1.35	a-axis	30	Unimodal	9	12	0.85	0.12	0.03	0.86	0.04	SSW (192)
D-3	115-21-010/115-22-301	115-22-301-A01	3.60	a-axis	29	Spread unimodal	193	5	0.72	0.18	0.09	0.75	0.13	SSW (193)
D-1	115-21-002	115-21-002-C01	8.95	a-axis	30	Spread unimodal	187	10	0.60	0.29	0.11	0.53	0.18	S (187)
A	115-21-002	115-21-002-Z01	11.00	a-axis	39	Spread unimodal	39	3	0.68	0.28	0.04	0.59	0.06	SW (219)

1. From Hicock, S. R., Goff, J. R., Lian, O. B. and Little, E. C. 1996: On the interpretation of subglacial till fabric; Journal of Sedimentary Research, v. 66, no. 5, p. 928-934.

2 Eigenvector (V_1) and eigenvalues (S_1, S_2, S_3) as defined by Mark 1973: Analysis of axial orientation data, including till fabrics; Geological Society of America Bulletin, v. 84, p. 1369-1374.