

**Appendix 3. Data from the firn core at the point I-11
(S80°45'01.0", W125°46'42.8")**

Core samples	Samples length, cm	Samples diameter, cm	Samples volume, cm ³	Samples weight, g	Density, g/cm ³	Depth, cm
1	20	7.911465	983.1815027	319.2	0.324660298	79
1	5.5	7.63905	252.0758708	81	0.321331827	99
1	20	7.524326667	889.3140654	330.6	0.371747185	104.5
1	20	7.601373333	907.6198865	313.3	0.345188558	124.5
1	20	7.52856	890.3150379	372.5	0.418391226	144.5
1	20	7.802245	956.2226887	372.9	0.389971922	164.5
1	17.5	7.56158	785.8742024	295.2	0.375632638	184.5
1	123	7.65265714	5664.603254	2084.7	0.368022244	128.6/204
2	20	7.568353333	899.751699	359.7	0.399776961	188.5
2	21.5	7.715673333	1005.254453	440.3	0.437998557	208.5
2	12	7.49681	529.6928806	189.1	0.356999323	230
2	53.5	7.59361222	2434.699033	989.1	0.406251445	209/242
3	17	7.8105	814.5101042	334.1	0.410185212	274/291
4	20	7.658946667	921.4207065	409.2	0.444096814	304.5
4	20	7.813886667	959.0783618	431.5	0.449911099	324.5
4	20	7.537873333	892.5191591	362	0.405593534	344.5
4	7.5	7.75462	354.2192724	136.1	0.384225283	364.5
4	20	7.83336	963.8646419	439.2	0.455665641	372
4	20	7.905326667	981.6564364	435.2	0.443332294	392
4	19	7.807113333	909.5455432	392	0.430984466	412
4	126.5	7.75873238	5982.304121	2605.2	0.43548438	359.1/431
5	20	7.75462	944.5847263	425.3	0.45025077	431
5	20	7.819813333	960.5337946	444.2	0.462451194	451
5	20	7.727526667	937.9958175	432.2	0.460769645	471
5	20	7.67334	924.8871824	440.6	0.476382426	491
5	80	7.743825	3768.001521	1742.3	0.462393656	461/ 544
6	20	7.327265	843.3418928	392.8	0.465766024	533
6	20	7.509086667	885.7152262	429.5	0.48491884	553
6	21.5	7.389495	922.0571938	427.7	0.463854089	573
6	61.5	7.40861556	2651.114313	1250	0.47149985	553/594.5
7	20	7.692813333	929.5874798	432.8	0.465582863	596.5
7	20	7.801186667	955.9632932	469.2	0.490813825	616.5
7	20	8.256693333	1070.858741	484.6	0.45253401	636.5
7	20	7.68604	927.9512426	477.9	0.515005507	656.5
7	24	7.796953333	1145.911276	579.9	0.506060122	676.5
7	104	7.84673733	5030.272032	2444.4	0.485937934	636.5/700.5
8	25	7.766473333	1184.343282	617.8	0.5216393	700.5
8	18.25	7.8232	877.2464439	456.8	0.520720264	725.5
8	43.25	7.79483667	2061.589726	1074.6	0.521248232	713/744.5
9	20	7.67588	925.4995891	495.7	0.535602615	747
9	17	7.73684	799.2194308	406.3	0.508371023	767
9	24	7.74192	1129.791965	592.4	0.52434432	784
9	21.5	7.75462	1015.428581	499.4	0.491812038	808
9	18	7.691966667	836.4445842	441.1	0.527351134	829.5
9	100.5	7.72024533	4706.384150	2434.9	0.517361083	787.1/847.5
10	20	7.71906	935.9415128	498.5	0.532618751	847.5

10	20.5	7.74827	966.6143413	519.1	0.537029069	867.5
10	20	7.728373333	938.2013719	499.8	0.532721455	888
10	9	7.747	424.2281692	230.1	0.542396797	908
10	69.5	7.73567583	3264.985395	1747.5	0.535224446	877.8/917
11	20	7.73176	939.0238144	531.4	0.565906841	916.5
11	21.5	7.74446	1012.769522	554.3	0.547311099	936.5
11	20	7.760546667	946.0291241	514.8	0.544169293	958
11	9	7.73811	423.2550894	230.6	0.544825108	978
11	70.5	7.74371917	3321.077550	1831.1	0.551357194	947.3/987
12	20	7.727526667	937.9958175	548	0.584224353	987
12	20	7.7978	955.1334639	533.1	0.558141893	1007
12	19.5	7.774093333	925.6013799	514.6	0.55596287	1027
12	23	7.751233333	1085.323829	599	0.55190901	1046.5
12	82.5	7.76266333	3904.054491	2194.7	0.562159162	1016.9/1069.5
13	19.5	7.774093333	925.6013799	502.8	0.543214402	1069.5
13	17.5	7.789333333	833.9279089	476.2	0.571032574	1089
13	16	7.780866667	760.7917782	454.5	0.597403932	1106.5
13	53	7.78143111	2520.321067	1433.5	0.56877674	1088.3/ 1122.5
14	19.5	7.771553333	924.9966422	533.6	0.576866959	1122.5
14	20	7.7978	955.1334639	543.6	0.569135121	1142
14	20.25	7.781713333	963.0866546	555.2	0.576479798	1162
14	18	7.794413333	858.8735956	500.3	0.582507138	1182.25
14	77.75	7.78637	3702.090356	2132.7	0.576079943	1152.2/1200.5
15	20.25	7.771553333	960.5734362	563.5	0.586628756	1198.25
15	20	7.791873333	953.6821299	560	0.587197749	1218.5
15	20	7.796953333	954.9260629	550	0.575960822	1238.5
15	19	7.78002	903.2436336	540	0.597845343	1258.5
15	79.25	7.7851	3772.425263	2213.5	0.586757814	1228.4/ 1277.5
16	20	7.766473333	947.4746254	570	0.601599225	1277.5
16	20.5	7.752926667	967.77655	580	0.599311897	1297.5
16	19.5	7.779173333	926.811448	530	0.5718531	1318
16	60	7.76619111	2842.062623	1680	0.59111998	1297.7/ 1343
17	21	7.789333333	1000.713491	589	0.588580054	1337.25
17	20	7.77494	949.5415416	569	0.599236553	1358.25
17	20	7.801186667	955.9632932	579	0.605671791	1378.25
17	20.75	7.770706667	984.0768446	610	0.619870291	1398.25
17	81.75	7.78404167	3890.295170	2347	0.603296125	1368/ 1419
18	20	7.812193333	958.6627266	570	0.594578243	1419
18	20	7.812193333	958.6627266	580	0.605009441	1439
18	12	7.796953333	572.9556378	342	0.596904852	1459
18	52	7.80711333	2490.281091	1492	0.599129153	1439/ 1471
19	20	7.758853333	945.6163264	550	0.581631244	1475.5
19	20	7.735146667	939.8466173	560	0.595841906	1495.5
19	20	7.689426667	928.769181	581	0.625559086	1515.5
19	20	7.743613333	941.9052009	590	0.626390001	1535.5
19	20	7.7089	933.4793198	580	0.621331386	1555.5
19	100	7.727188	4689.616645	2861	0.610071188	1515.5/ 1583.5