

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
42	SHHELLS	4.5-5	1940±70 S-3225
43	DRIFTWOOD	29	5070±90 S-3226
44	WHALE BONE	20	4495±80 S-3227
45	DRIFTWOOD	20	3680±80 S-3228
46	WHALE BONE	20	4600±80 TD-5010
48	DRIFTWOOD	20	4440±80 S-3229
49	WHALE BONE	19.5	5870±70 S-3230
50	DRIFTWOOD	4.5	1500±60 S-3231
51	DRIFTWOOD	29	5070±90 S-3226
52	DRIFTWOOD	21	5450±70 S-3229
53	DRIFTWOOD	18	3820±80 S-3234
55	DRIFTWOOD	4	1300±50 S-3235
58	DRIFTWOOD	78	6050±90 GSC-4886
60	DRIFTWOOD	3	1290±50 S-3236
62	DRIFTWOOD	3.5-4.0	300±60 S-3140
63	DRIFTWOOD	29	5070±90 S-3226
64	DRIFTWOOD	5	1570±60 S-3227
65	DRIFTWOOD	18	3740±80 S-3142
66	DRIFTWOOD	53.5	6900±100 S-3143
67	DRIFTWOOD	16	3680±90 S-3144
68	DRIFTWOOD	40.5	6420±90 S-3145
69	DRIFTWOOD	29.5	5610±90 S-3228
71	DRIFTWOOD	25	5000±80 S-3146
78	DRIFTWOOD	90	6020±70 GSC-4888
88	DRIFTWOOD	29	5990±80 S-3147
89	DRIFTWOOD	9	2870±60 S-3148
90	DRIFTWOOD	21.5	4370±80 S-3149
91	DRIFTWOOD	31	5180±70 S-3150
92	DRIFTWOOD	28	4670±80 S-3151
94	DRIFTWOOD	38	5850±120 S-3152
95	DRIFTWOOD	18-18.17	3000±80 S-3229
96	DRIFTWOOD	20	5390±80 S-3153
97	DRIFTWOOD	7-9	1950±90 S-3154
108	DRIFTWOOD	12	2900±80 S-3127
109	DRIFTWOOD	18	3920±80 S-3240
110	DRIFTWOOD	27	4990±90 S-3241
111	DRIFTWOOD	20	3950±70 S-3242

**Tikraq River Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
77	SHHELLS	10.1	2940±70 S-3089
78	DRIFTWOOD	18.9-20.4	4470±80 S-3090
81	DRIFTWOOD	11.5	2720±80 S-3104
83	DRIFTWOOD	70.4	6650±110 S-3095

**Fitgerald Bay Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
405	DRIFTWOOD	15	6600±80 GSC-4777
408	DRIFTWOOD	82	6240±110 GSC-4696

**North-Central Bernier Bay Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
39	DRIFTWOOD	4	1390±70 S-3293
40	DRIFTWOOD	11.5-13	3220±80 S-3294
41	DRIFTWOOD	19-20	3740±70 S-3311
43	DRIFTWOOD	19-20	3640±60 S-3295
45	DRIFTWOOD	21.5	4050±80 S-3296
46	DRIFTWOOD	16	3870±80 S-3297
52	DRIFTWOOD	20.5	3870±80 S-3312
56	DRIFTWOOD	18.5-19.4	3650±80 S-3298
58	DRIFTWOOD	31	4920±80 S-3299
60	DRIFTWOOD	30.5	4850±100 S-3313
62	DRIFTWOOD	15	3040±60 S-3300
65	DRIFTWOOD	28	4250±80 S-3301
66	DRIFTWOOD	19.5	3720±80 S-3314
68	DRIFTWOOD	17.5	4370±80 S-3302
71	DRIFTWOOD	60-66	6920±90 GSC-5073
72	DRIFTWOOD	15	3040±70 S-3315
75	DRIFTWOOD	3	1280±70 S-3303
78	DRIFTWOOD	10	2180±70 S-3304
79	DRIFTWOOD	11	2820±70 S-3316
83	DRIFTWOOD	19.5	3600±80 S-3317
86	DRIFTWOOD	27.91	4600±80 S-3305
102	DRIFTWOOD	14	3250±80 S-3306
103	DRIFTWOOD	38.5	5390±90 S-3307
104	DRIFTWOOD	1-3	2900±80 GSC-5084

**Jungersen Bay Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
466	DRIFTWOOD	28.5	4300±110 S-3124
472	DRIFTWOOD	18	3320±80 S-3258
477	DRIFTWOOD	17	2800±70 S-3259
487	DRIFTWOOD	19	4220±80 S-3181
488	DRIFTWOOD	20.5	3870±80 S-3182
489	DRIFTWOOD	20	4620±100 S-3125
502	DRIFTWOOD	16	3960±80 S-3183
503	DRIFTWOOD	12	2310±80 S-3260

**Morin Point Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
537	DRIFTWOOD	21	3950±70 S-3043
540	DRIFTWOOD	24	4350±70 S-3074
541	DRIFTWOOD	30	5220±80 S-3100
542	DRIFTWOOD	23	4380±70 S-3046
546	DRIFTWOOD	34	5600±90 S-3042
549	DRIFTWOOD	31	5175±100 S-3041
586	DRIFTWOOD	95	8140±110 GSC-4754
589	DRIFTWOOD	120	8630±90 GSC-4742

**Sunday Bay Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
106	DRIFTWOOD	4	1130±60 S-3318
107	DRIFTWOOD	3.5	3850±80 S-3319
108	DRIFTWOOD	2.5	1400±60 S-3320
110	DRIFTWOOD	15	3670±70 S-3321
113	DRIFTWOOD	10.5	2800±70 S-3322
114	DRIFTWOOD	1.5-2	1300±60 S-3323
117	DRIFTWOOD	1	480±60 S-3324
121	DRIFTWOOD	16.5	3650±70 S-3325
122	DRIFTWOOD	19.5	3990±80 S-3326
124	DRIFTWOOD	17.4	2910±70 S-3327
125	DRIFTWOOD	74	>31 000 GSC-5082
126	DRIFTWOOD	76	30 400±660 GSC-6214
130	DRIFTWOOD	17	3860±80 S-3328
132	DRIFTWOOD	12	3820±80 S-3329
137	DRIFTWOOD	8.5-9.5	2580±70 S-3330
138	DRIFTWOOD	11	2410±70 S-3331
140	DRIFTWOOD	18.5-19	3700±70 S-3332
141	DRIFTWOOD	17.5	3920±70 S-3333
144	DRIFTWOOD	14.5	3450±70 S-3334
145	DRIFTWOOD	18.5	4310±80 S-3335
146	DRIFTWOOD	18.5	4100±80 S-3336
147	DRIFTWOOD	21	4360±80 S-3337
149	DRIFTWOOD	17.5	3990±80 S-3338
150	DRIFTWOOD	8.5-9.5	2700±70 S-3339
154	DRIFTWOOD	40-44	6430±70 GSC-5173

**Berlinguet River Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
408	DRIFTWOOD	19.5	5340±80 S-3247
440	DRIFTWOOD	18	3260±80 S-3248
445	DRIFTWOOD	20.5	4090±80 S-3249
451	DRIFTWOOD	20.5	3700±80 S-3250
453	DRIFTWOOD	29	4010±80 S-3251
459	DRIFTWOOD	68.5	6840±140 GSC-5088
460	DRIFTWOOD	64	6860±100 GSC-5089

**Northeast Bernier Bay Series**

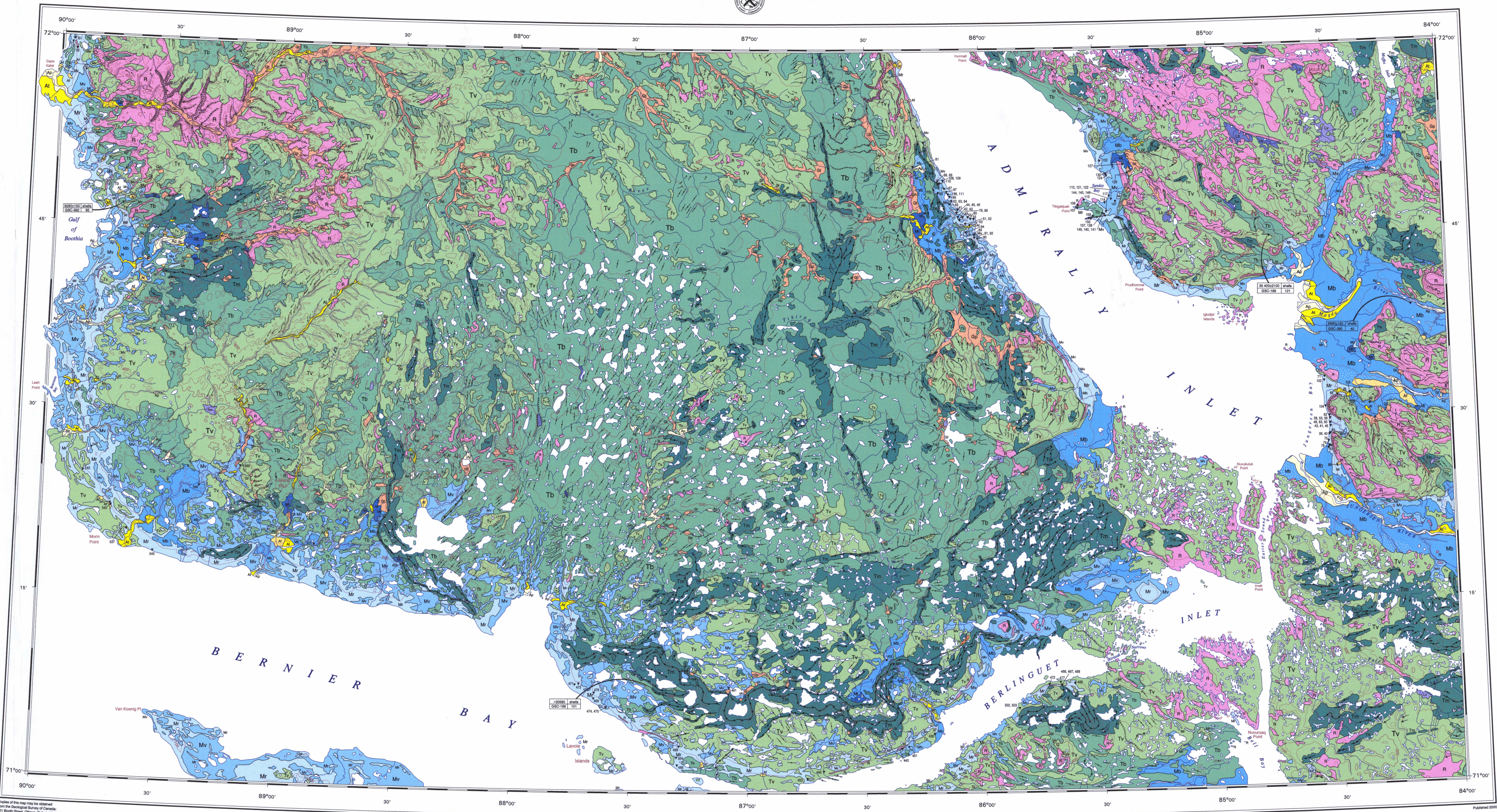
FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
462	DRIFTWOOD	8	2290±70 S-3262
469	DRIFTWOOD	18.5	3860±80 S-3263
471	DRIFTWOOD	20.5	3740±80 S-3264
473	DRIFTWOOD	27.5	4530±80 S-3265
474	DRIFTWOOD	17	3330±100 S-3266
475	DRIFTWOOD	19	3780±80 S-3267
476	DRIFTWOOD	30	4860±80 S-3268
488	DRIFTWOOD	47	6150±90 S-3269
491	DRIFTWOOD	86.8	7910±120 GSC-5090
502	DRIFTWOOD	80.5	7540±110 GSC-5091
504	DRIFTWOOD	97	5200±90 S-3260

**Berlinguet Inlet East Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
466	DRIFTWOOD	28.5	4300±110 S-3124
472	DRIFTWOOD	18	3320±80 S-3258
477	DRIFTWOOD	17	2800±70 S-3259
487	DRIFTWOOD	19	4220±80 S-3181
488	DRIFTWOOD	20.5	3870±80 S-3182
489	DRIFTWOOD	20	4620±100 S-3125
502	DRIFTWOOD	16	3960±80 S-3183
503	DRIFTWOOD	12	2310±80 S-3260

**Berlinguet Inlet West Series**

FIELD NUMBER (B/D/C/A)	MATERIAL	RADIOCARBON AGE (BP)	LABORATORY NUMBER
537	DRIFTWOOD	21	3950±70 S-3043
540	DRIFTWOOD	24	4350±70 S-3074
541	DRIFTWOOD	30	5220±80 S-3100
542	DRIFTWOOD	23	4380±70 S-3046
546	DRIFTWOOD	34	5600±90 S-3042
549	DRIFTWOOD	31	5175±100 S-3041
586	DRIFTWOOD	95	8140±110 GSC-4754
589	DRIFTWOOD	120	8630±90 GSC-4742



**MAP 1960A SURFICIAL GEOLOGY BERLINGUET INLET AND BOURASSA BAY BAFFIN ISLAND NUNAVUT**

Scale 1:250 000 / Échelle 1:250 000

Geology by A.S. Dyke 1988, 1989 and 1990 and M.J.G. Hooper 1988 and 1989

Digital cartography by Y.F. St Pierre Savard, Geoscience Information Division

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map from data compiled by Geomatics Canada, modified by the Geoscience Information Division

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area. Mean magnetic declination 2000, 43°28' W, decreasing 30.1' annually. Readings vary from 33°50' W in the SW corner to 50°34' W in the NE corner of the map.

Elevations in feet above mean sea level

MAP LIBRARY / CARTOTHEQUE

REFERENCES: Dyke, A.S. 1992. Landscapes of cold-temperate Late Wisconsinan ice caps, Arctic Canada. Progress in Physical Geography, v. 17, p. 223-247. Jackson, G.D. and Sangster, D.F. 1987. Geology and resource potential of a proposed national park, Baffin Island and northwest Baffin Island, Northwest Territories. Geological Survey of Canada, Paper 87-17, 31 p.

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1960A

**SURFICIAL DEPOSITS QUATERNARY HOLOCENE**

- Ice: glacier
- COLLUVIUM: block and rubble accumulations, 1-50 m thick
- Ca: Talus: active block and rubble accumulations as much as 50 m thick forming talus cones; talus and talus below cliffs resulting from rock falls and debris flows; commonly crossed by debris flow channels and levees
- Cr: Rock glacier debris: talus, generally 10-50 m thick, deformed by active flow of interstitial or buried ice to form rock (talus) glaciers with transverse ridges and furrows, and pits, and with steep, unstable sides and fronts
- FLUVIAL SEDIMENTS: alluvium; gravel and sand, 2-20 m thick
- Ap: Alluvial plains; active braided floodplains; includes active proglacial outwash
- At: Alluvial terraces
- Af: Alluvial fans
- MARINE AND GLACIAL MARINE SEDIMENTS: gravel, sand, silt, and clay, 1-20 m thick, deposited in deltaic and beach environments during regression of the postglacial sea
- Mr: Beach sediments: gravel and sand, 1-4 m thick, forming ridges and swales
- Mt: Deltaic sediments: clay, silt, sand, and gravel, 5-20 m thick, forming coarsening upward sequences under dissected terraces
- Mv: Deepwater proglacial silt veneers: silt, clay silt, and fine sand with dropstones, 1-2 m thick
- Mb: Deepwater proglacial silt blankets: silt, clay silt, and fine sand with dropstones and minor gravel, 2-10 m thick
- GLACIAL LACUSTRINE SEDIMENTS: clay, silt, sand, and gravel deposited in glacier dammed lakes in deepwater and deltaic environments
- Lt: Deltaic sediments: clay, silt, sand, and gravel, 5-20 m thick, forming coarsening upward sequences under dissected terraces
- Lv: Deepwater proglacial silt veneers: silt, clay silt, and fine sand with dropstones, 1-2 m thick
- Lb: Deepwater proglacial silt blankets: silt, clay silt, and fine sand with dropstones, 2-5 m thick
- GLACIOFLUVIAL SEDIMENTS: gravel and sand, 1-10 m thick, deposited behind, at, and in front of the ice margin
- Gp,Lf: Proglacial outwash: gravel and sand, 1-10 m thick, forming braided floodplains, Gp: terraces, Gf: fans, Gf
- Gr,h: Ice contact stratified drift: gravel and sand, 1-5 m thick, forming eskers, Gr: and kames, Gh

**EARLY HOLOCENE AND WISCONSINAN**

- Tm: Tills: non-sorted clay matrix, 0.5-50 m thick, deposited in subglacial and ice marginal environments; lithic composition generally reflects underlying bedrock
- Tv: End moraines: 5-60 m high, composed of or mantled by till, extensively kettled in places; large features mainly covered by debris-rich rock glacier ice
- Td: Till veneers: 0.5-2 m thick and discontinuous
- Tb: Till blankets: 2-10 m thick forming an undulating blanket with drumlins and ribbed moraines in places

**PRE-QUATERNARY**

- R: ROCK: rock of various compositions and ages (Jackson and Sangster, 1987) vertically modified by glacial erosion during the Quaternary; only and hummocky surfaces, for moulded in places, with lake basins in subglacially scoured regions; smooth surfaces exhibiting little or no signs of glacial erosion in periglacial interiors (Dyke, 1992); cliffs resulting from glacial over-steepening

**Geological boundary**

- Areas covered by periglacial icefields during the Little Ice Age (indicated by a white pattern)
- Area of active wind erosion; minor attached dunes (indicated by a white pattern)
- Direction of eroding wind
- Small rock glacier
- Pingo
- Kettle (large, small)
- Glacial lake spillway
- Glacial lake limit
- Marine limit
- Bouldery ridge; subglacially deformed fulcrum
- Lateral meltwater channel; barb on upslope side
- Subglacial and proglacial meltwater channel (large, small)
- Esker
- Ice contact face
- Ribbed moraine
- Lateral moraine
- End moraine
- Lateral shear moraine
- Margin of dispersal train; teeth toward east, steep side of teeth face down ice
- Drumlined hill
- Crag and tail
- Ice moulded bedrock
- Striae (ice flow direction known, unknown)
- Cirque
- Cliff in bedrock

**Radiocarbon date**

Date Material  
Lab no. Elevation (m)