BOREHOLE LOG

PROJET: ADAPT
SITE: Bylot
BOREHOLE NO.: 2.1
COORDINATES: Lat: 73.14178 N Long: 79.96666 W
ELEVATION:
START DATE:
END DATE:

Instrumentation
- Temperature sensor (Decagon ECT)
- Temperature sensor (YSI 44033)
- Volumetric water content, temperature and bulk electrical conductivity (Decagon 5ET)
- Volumetric water content (Decagon EC-5)
- Pressure sensor

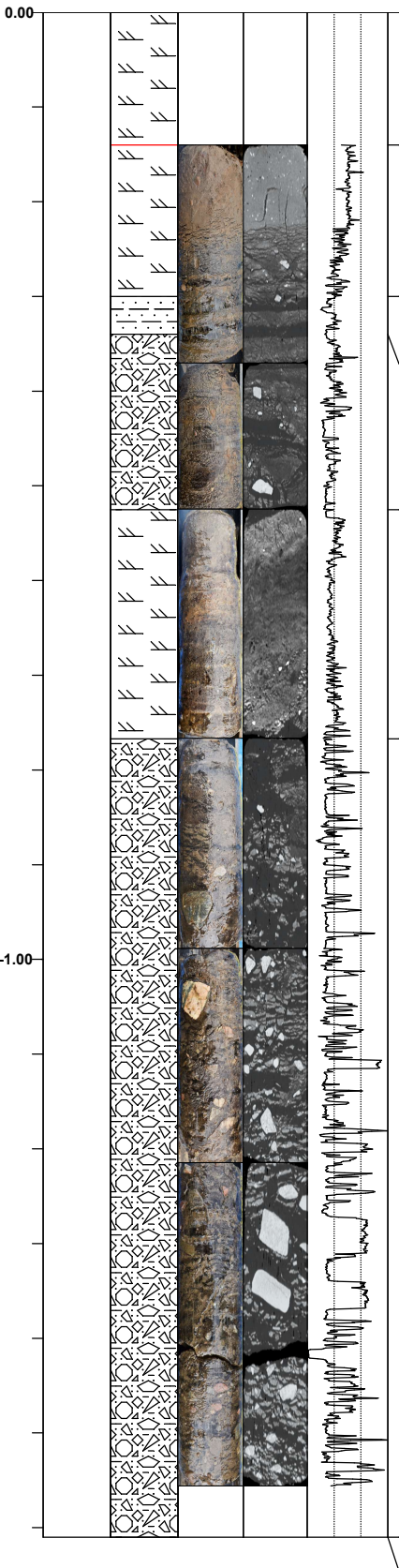
Instrumentation
- PVC casing

Sampling method
- Excavation
- Diamond core
- Slit spoon
- Destructive

Recovery
- Recovered
- No recovery

Sample state
- Ud-F Undisturbed and frozen
- Ud-Uf Undisturbed and unfrozen
- D-F Disturbed and frozen
- D-Uf Disturbed and unfrozen

C/H/N
- w Water content (%)
- ρ Bulk density (g/cm-3)
- C Carbon (%)
- H Hydrogen (%)
- N Nitrogen (%)



Depth (m)	Stratigraphy	Soil description	Sampling method	Recovery	Sample state	Sample name	Volume (%) Soil / Ice / Air	Water content (%)	Salinity (ppm)	Grain size G	Grain size S	Grain size M-C	Consistency wl	Consistency wp	Consistency Ip	Consistency IL	USCS	Consol. kPa C3	C/H/N w	C/H/N ρ	C/H/N C	C/H/N H	C/H/N N	Radiocarbon dates 14C (BP)	±	Material
		Brown organic matter. Thaw front at 0.14 m.			D-Uf																					
		Organic, heterometric (silt, sand, gravel), brown, porous invisible and lenticular cryostructure at the bottom			Ud-F																					
		Sand, silt, grey, lenticular cryostructure (wavy, discontinuous ice lenses)				Bylot_Mesic_1_41-43													62.174	1.075	5.891	0.955	0.387			
		Heterometric (silt, sand, gravel), pockets of organic matter, grey, layered and reticulate cryostructure, vertical air bubbles			Ud-F																					
						Bylot_Mesic_1_58-60													71.902	1.007	3.985	0.720	0.254			
		Organic, silt, black and brown/orange, very ice-rich, porous visible			Ud-F	Bylot_Mesic_1_60-62													68.407	1.351	3.414	0.759	0.203			
						Bylot_Mesic_1_83-85													74.149	0.851	5.256	0.872	0.325			
		Heterometric (silt, sand, gravel, cobble), grey, very ice-rich, reticulate to suspended cryostructure, vertical air bubbles			Ud-F																					
						Bylot_Mesic_1_106-108													62.472	1.131	2.408	0.552	0.125			
					Ud-F																					
						Bylot_Mesic_1_126-128													55.902	1.148	0.762	0.356	0.018			
					Ud-F																					
						Bylot_Mesic_1_159-161													45.514	1.427	0.669	0.317	0.016			
		End of borehole at 1,61 m.																								

Version 1.4 E. L'Hérault and A-S. Carbonneau (2015-06)