BOREHOLE LOG

PROJET: ADAPT
SITE: Kuujjuarapik (SAS2)
BOREHOLE NO.: SAS2A-2
COORDINATES: X: 55.22615 Y:-77.69585
ELEVATION:
START DATE: 2013/20/08
END DATE: 2013/20/08

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

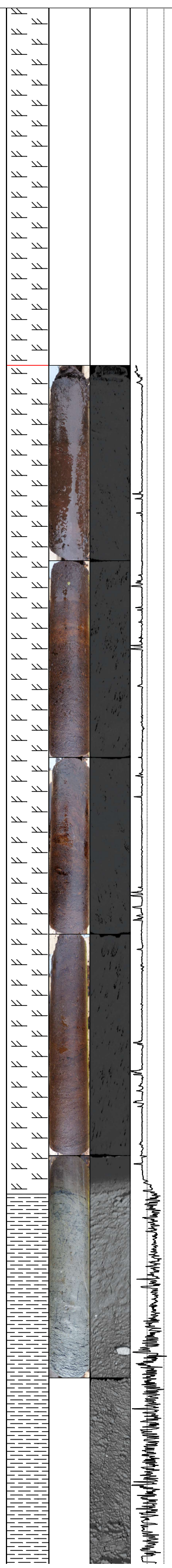
Sampling method
- Excavation
- Diamond core
- Slit spoon
- Destructive

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 (%)
- *p* Bulk density (g/cm-3)
- C Carbon (%)
- H Hydrogen (%)
- N Nitrogen (%)

Stratigraphic information | **Sampling characteristic** | **Laboratory analysis**



Depth (m)	Stratigraphy	Soil description	Sampling method	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	C/H/N w	C/H/N p	C/H/N C	C/H/N H	C/H/N N	Radiocarbon dates 14C (BP)	±	Material
0.00		Ice-rich peat. Presence of many air pocket. Thaw front at 0,6 m.		D-Uf																					
				Ud-F	SAS2A-2_60-61													82.18	0.482	46.263	6.072	2.164	3900	25	Peat
					SAS2A-2_93-94													94.62	0.869	46.896	5.969	1.853			
				Ud-F	SAS2A-2_94-95													93.07	1.241	45.765	6.042	2.070			
-1.00					SAS2A-2_126-127													94.30	0.981	41.429	5.355	1.752			
				Ud-F																					
				Ud-F	SAS2A-2_157-158													95.20	1.037	44.321	5.917	1.908			
					SAS2A-2_194-195													91.68	0.680	43.787	6.107	2.094			
				Ud-F	SAS2A-2_195-196													83.37	0.687	20.469	2.911	0.983			
-2.00		Silty deposit with little cobble. Reticulated cryostructure.																							
				Ud-F	SAS2A-2_231-232													37.58	1.416	0.245	0.055	0.030			

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

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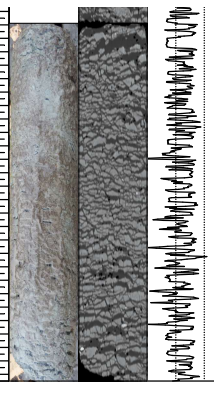
Depth (m)	Instrumentation	Stratigraphy	Image	CT (HU) 3071 / -1024	TI profile (HU) -1024 / 1024 / 3071	Soil description	Sampling method	Recovery	Sample state	Sample name	Volume (%) Soil / Ice / Air (0 – 100)	Water content (%)	Salinity (ppm)	Grain size G	Grain size S	Grain size M-C	Consistency wl	Consistency wp	Consistency Ip	Consistency IL	USCS	Consol. kPa			C/H/N *w*	C/H/N *p*	C/H/N C	C/H/N H	C/H/N N	Radiocarbon dates 14C (BP)	±	Material
						End of borehole at 2,98 m.			Ud-F	SAS2A-2_262-263															42.51	1.189	0.680	0.199	0.074			
										SAS2A-2_297-298															45.01	1.493	1.023	0.273	0.086			

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