BOREHOLE LOG

PROJET: ADAPT
SITE: Kuujjuarapik (SAS2)
BOREHOLE NO.: SAS2A-1
COORDINATES: X: 55.2261 Y: -77.6958
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

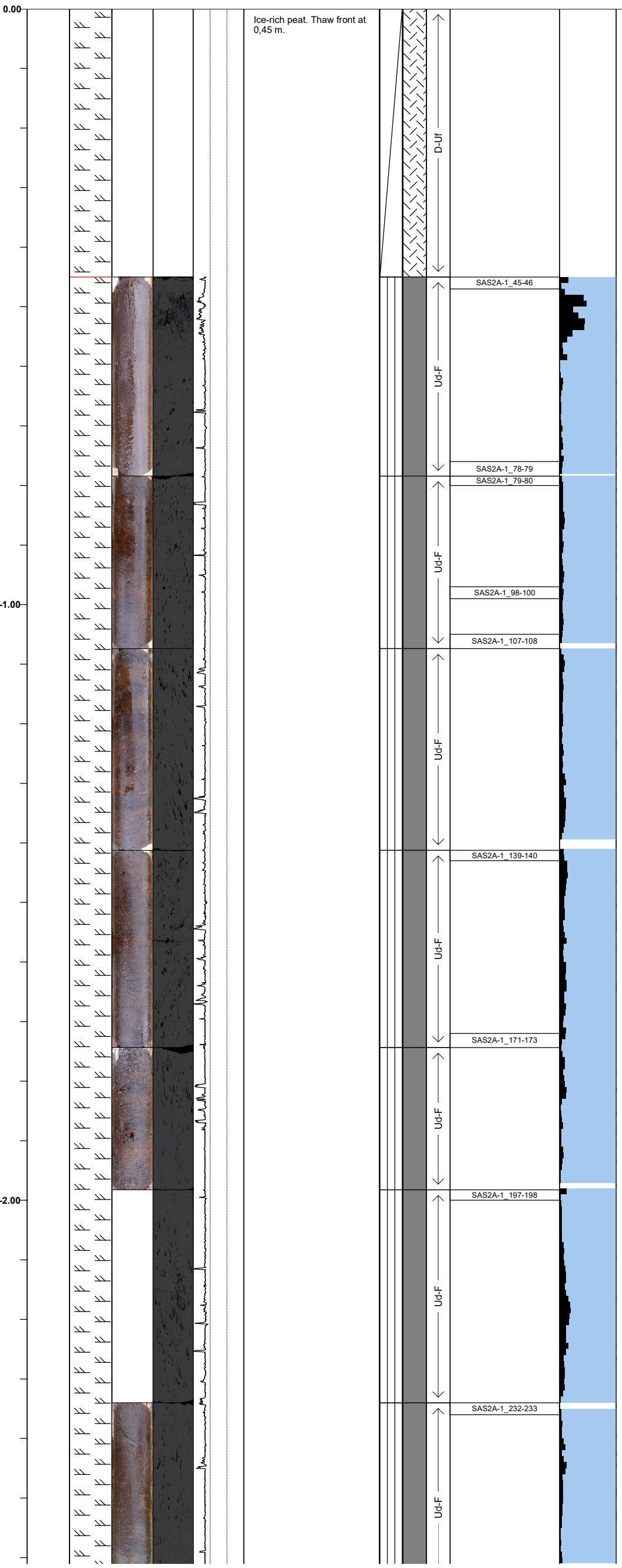
Sampling method
- Excavation
- Diamond core
- Slit spoon
- Destructive

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

Stratigraphic information | Sampling characteristic | Laboratory analysis



Depth (m)	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 ρ	C/H/N C	C/H/N H	C/H/N N	Radiocarbon dates 14C (BP)	±	Material
0.00	Ice-rich peat. Thaw front at 0,45 m.		D-Uf																					
			Ud-F	SAS2A-1_45-46													83.81	0.670	45.234	5.887	2.589	3535	25	Peat
			Ud-F	SAS2A-1_78-79													93.49	0.743	47.240	6.288	2.589			
			Ud-F	SAS2A-1_79-80													83.82	0.897	25.410	8.312	1.433			
-1.00			Ud-F	SAS2A-1_98-100													95.78	0.933	47.322	6.168	2.060			
			Ud-F	SAS2A-1_107-108													92.47	0.743	43.753	6.489	2.183			
			Ud-F																					
			Ud-F	SAS2A-1_139-140													94.29	0.998	42.394	6.242	1.639			
			Ud-F	SAS2A-1_171-173													95.83	1.043	47.559	6.106	2.353			
-2.00			Ud-F	SAS2A-1_197-198													93.34	0.785	37.702	6.552	1.714			
			Ud-F	SAS2A-1_232-233													94.62	1.026	45.400	6.014	2.086			

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

BOREHOLE LOG

PROJET: ADAPT
SITE: Kuujjuarapik (SAS2)
BOREHOLE NO.: SAS2A-1
COORDINATES: X: 55.2261 Y: -77.6958
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

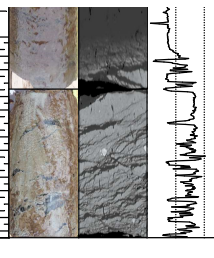
Instrumentation
- PVC casing

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 (%)

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
						Gravelly silty deposit. Subhorizontal wavy ice lenses and occasional fine vertical ice lenses.			Ud-F	SAS2A-1_266-267														36.41	1.528	0.456	0.043	0.041			
										SAS2A-1_281-282															30.09	2.172	0.340	0.063	0.037			

End of borehole at 2,84 m.

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