

2009S Integrated Albedo Data

Location: Every 2.5m along the 2009 South Site transect line, ~200m long
UTM Zone 4 North
From 7920261.77 N 587718.95 E (“0 m end”)
To 7920274.16 N 587519.66 E (“200 m end”)

Collection: Wavelength integrated albedos (from 300-3000 nm) were measured every 2.5 m along the transect line, according to a tape measure laid out along the transect daily. The instrument used was a Kipp and Zonen CM14 Albedometer with voltage output read either manually using a voltmeter or with a Campbell CR10 Datalogger. Albedo measurements were collected by mounting the sensor on a 1.5 m long arm and positioning it ~1 m above the snow surface to minimize shadowing.



Kipp and Zonen CM14 Albedometer
Photo: Chris Petrich

Data Format: Data files are comma separated text with a single header line naming the columns. Filename indicates date. Individual daily files have column 1 representing distance along the transect line (0-200 m) and column 2 representing albedo at that location. Summary file includes a matrix of all data with each date's albedo's representing a column. Average file shows the average albedo in the second column for dates listed in the first column.