

2009S Snow/SSL/Pond Depths

Location: Every 0.5 m 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: Snow, surface scattering layer (SSL), or melt pond depths are measured either manually by inserting a metal probe with centimeter gradations into the surface until it struck hard ice and recording the depth or using a SnowHydro automated snow depth probe in the same manner. Positive (+) measurements reflect snow or loose decaying ice crystals known as the surface scattering layer, while negative (-) measurements indicate melt pond depths. Measurements were made every 0.5m, along the transect lines.

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 snow/SSL/pond depth at that location. Summary file includes a matrix of all data with each date’s depths representing a column.