Arctic Tundra Flux Study in the Kuparuk River Basin (Alaska), 1994-1996

Chapin et al. 1994-1996 site characteristics data

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Tab-delimited ASCII text file comprising 17 columns, described below from left to right.

File has a single header line with the field names.

Missing data are indicated by the string -999

Field Names.....Descriptions

site idyyyyss (year followed by 2-digit site number)

veg_type.... text field identifying broad vegetation class

lat.... latitude (deg N positive), decimal degrees

lon.... longitude (deg E positive), decimal degrees

elev elevation above mean sea level, meters

soil Db soil bulk density, g cm-3

soilmoist soil volumetric water content, %

thaw_mean.... depth of thaw (from surface to permafrost table at time of flux measurements), meters

lai mean leaf area index, m2 m-2 [LiCor LAI-2000]

canht mean canopy height (mean), meters

z0 median aerodynamic roughness length (median for site), meters

Gs mean.... surface conductance to water vapor tranfer (mean), mm s-1

Gs max.... surface conductance to water vapor tranfer (maximum daily), mm s-1

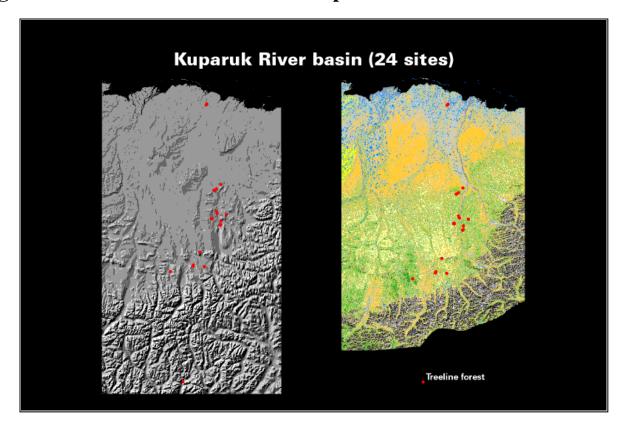
Ga mean.... surface aerodynamic conductance, mm s-1

alpha_PT Priestley and Taylor alpha

dist_to_coast..... distance from site to Arctic coast along a due north line, km

z minus d instrument height minus displacement height, meters

Images of the site locations in the Kuparuk River Basin



Grayscale map:

The grayscale map is elevation from a USGS 300-m resolution shaded relief map of Alaska.

Land cover map:

Muller, S. V., A. E. Racoviteanu, and D. A. Walker. 1999. Landsat MSS-derived land-cover map of northern Alaska: extrapolation methods and a comparison with photo-interpreted and AVHRR-derived maps. International Journal of Remote Sensing 20, 2921-2946.

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