

NORTHERN RESEARCH BASINS QUESTIONNAIRE
WATER BALANCE STUDIES
June 6, 2003

1) Name and location of research watershed	C2, C3, and C4 sub-basins of the Caribou-Poker Creeks Research Watershed, Interior Alaska, ~65° 10' N, 147° 30' W
2) Participants with address and email	W. Robert Bolton, Larry D. Hinzman, and Kenji Yoshikawa Water and Environmental Research Center University of Alaska Fairbanks Fairbanks, AK 99775 USA ftwrb@uaf.edu, fldh@uaf.edu , ffky@uaf.edu 907-474-7975, 907-474-7979 (Fax)
3) Watershed size	C2 – 5.2 km ² , C3 – 5.7 km ² , C4 – 11.4 km ²
4) Permafrost extent	Permafrost is discontinuous, generally found along north facing slopes and valley bottoms. C2 ~ 3.5%, C3 ~ 53%, C4 ~ 19%.
5) Soils description	Poorly developed silt loams with varying amounts of sand and gravel overlying a mica-schist bedrock. An organic mat of varying thickness covers the silt loam.
6) Vegetation description	Black spruce is typically found along north-facing slopes and valley bottoms. Aspen, birch, alder, and occasional white spruce on the south-facing, well-drained soils. Some tussock tundra and sphagnum mosses in valley bottoms.
7) Climate	Continental climate characterized by large annual temperature variations and low precipitation.
8) Topography	Rolling hills of the Yukon-Tanana Uplands. Elevations range from 226 to 770 m.
9) Period of record	Hydrological and meteorological data have been collected since 1969, with continuous measurements beginning in 1978.
10) Other	A 365 ha experimental wildfire was conducted in the C4 sub-basin in Summer 1999.