

SOIL MOISTURE—VEGETATION—TEMPERATURE RELATIONSHIPS IN CENTRAL ALASKA

J.N. LUTHIN and G.L. GUYMON

Department of Water Science and Engineering, University of California, Davis, Calif. (U.S.A.)
Institute of Water Resources, University of Alaska, Fairbanks, Alaska (U.S.A.)

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ABSTRACT

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Measurements of soil moisture and soil temperature were made during the summer of 1972 at four locations in the Goldstream valley near Fairbanks, Alaska. Two sites were under aspen—birch forest, one in stunted black spruce forest and one in cleared grassland. These field results and observations of conditions in central Alaska led to the development of a model showing the interrelationship among drainage, vegetative cover, and the thermal regime of the mineral soil. In addition the subsystems comprising the thermal regime system have been identified.