

A Dual-Use Snow Research Station

Jessie Ellen Cherry

email: jcherry@ldeo.columbia.edu

Columbia University/Lamont-Doherty Earth Observatory

Collaborators: Bruno Tremblay (LDEO), Bill Schuster (Black Rock Forest),
Allan Frei (Hunter College, CUNY)

ABSTRACT

A dual-use snow research station is proposed for winter deployment at Black Rock Forest (BRF), a Columbia University research facility, and summer deployment at various sites in the Arctic. Thus, the investigators get a maximum amount of use from a single set of equipment. Monitoring and modeling snow at BRF is important for water resource planning in Orange County, NY. Observation and modeling of snow in the Arctic is important for investigating basic snow physics, as well as snow-related change and variability in a climatically sensitive region. Prior support from the LDEO Climate Center has helped build several basic elements of a snow research station. The current proposal seeks to complete this basic assemblage of instruments. A future proposal to a state agency is planned, so that funds can be secured to support and maintain the station.