NASA Cold Land Processes Field Experiment Overview and Preliminary Results

For more CLPX information:

CLPX

www.nohrsc.nws.gov/~cline/clp.html



Cold Land Processes Experiment

PURPOSE: Develop the quantitative understanding, models, and remotely sensed measurements needed to extend our local-scale understanding of water fluxes, storage and transformations in cold land areas to regional and global scales.





Cold Land Processes Experiment



Multi-scale, multi-sensor approach to build comprehensive data set needed to meet NASA Earth Science Enterprise science objectives.



Moderate Snow Packs (~1 m) in the Fraser MSA

The nested study areas in Colorado, USA provide a comprehensive range of snow and frozen soil characteristics.

Deep Snow Packs (~2 m) in the Rabbit Ears MSA





Cold Land Processes Experiment

Airborne platforms provide active and passive microwave remote sensing data and gamma radiation validation data to validate and improve algorithms and develop sensor specifications for a future space flight mission to measure snow and frozen ground.



NOAA AC690: GAMMA (<0.3 nm Snow Water Equivalent Detection) from 500' AGL

