U.S. Climate Reference Network (USCRN) & Soil Moisture and Soil Temperature Observations

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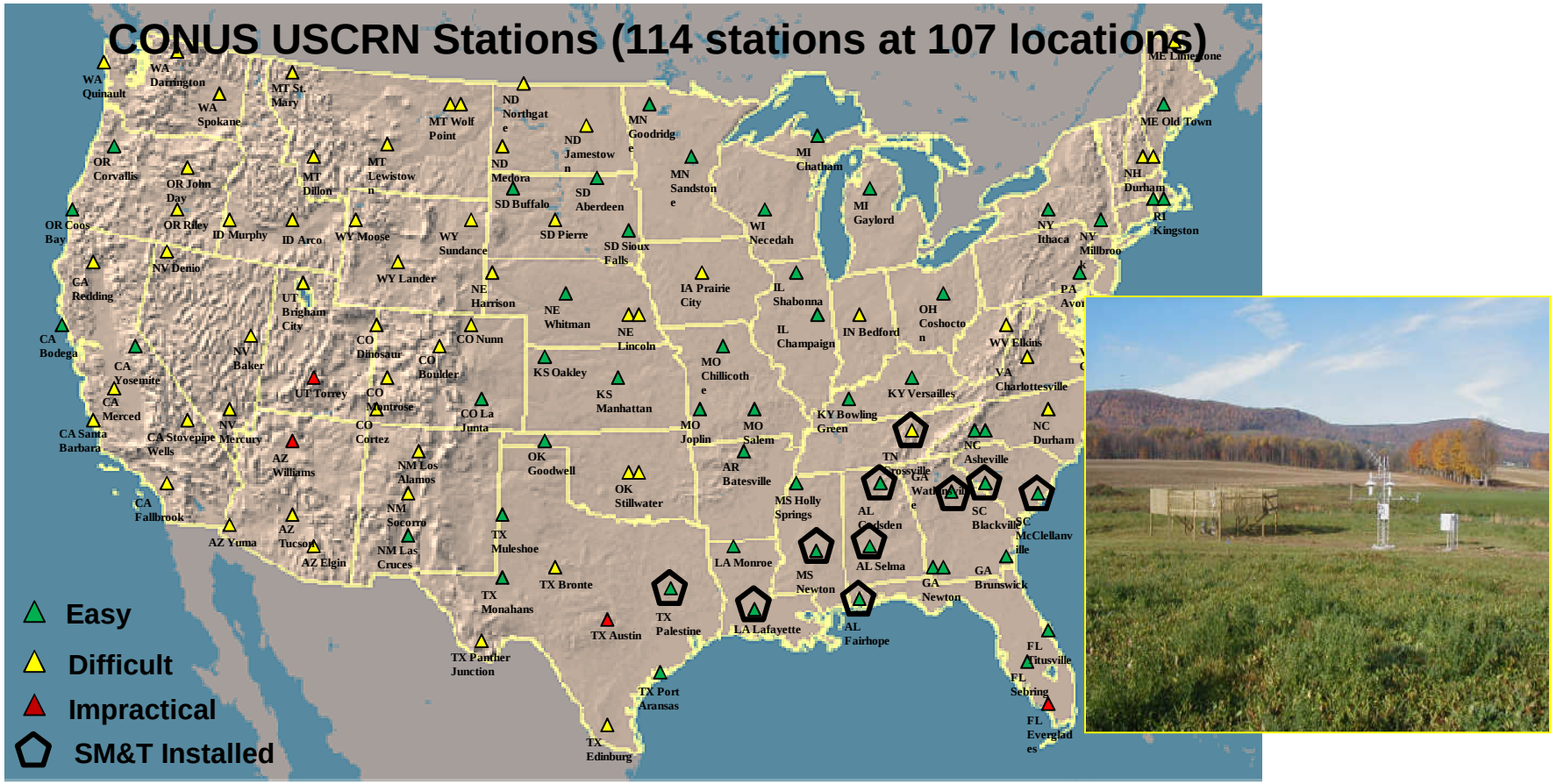
Deputy Director

NOAA/ATDD

Oak Ridge, TN



USCRN Site Measurements (http://www.ncdc.noaa.gov/oa/climate/uscrn/)

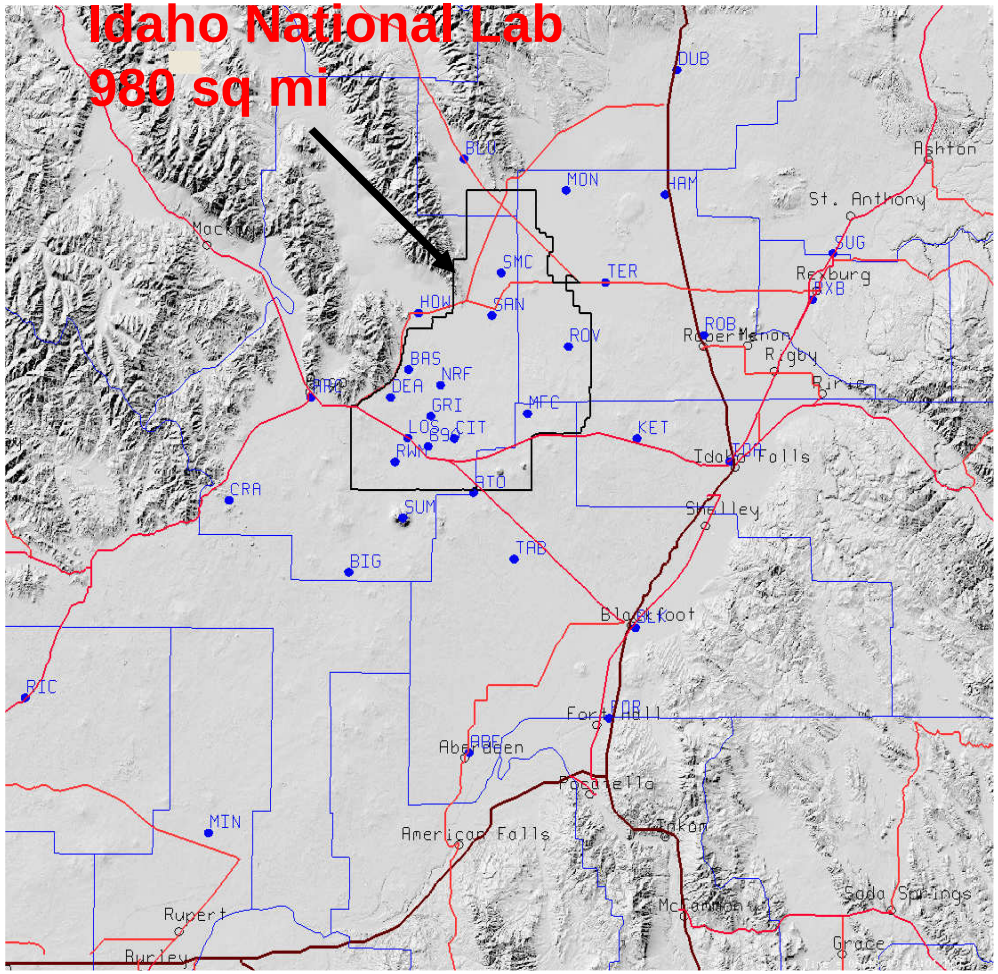
Above-Ground:

Precipitation; Air & Surface IR Temperature; Solar Radiation; Relative Humidity; and Wind Speed.

Below-Ground:

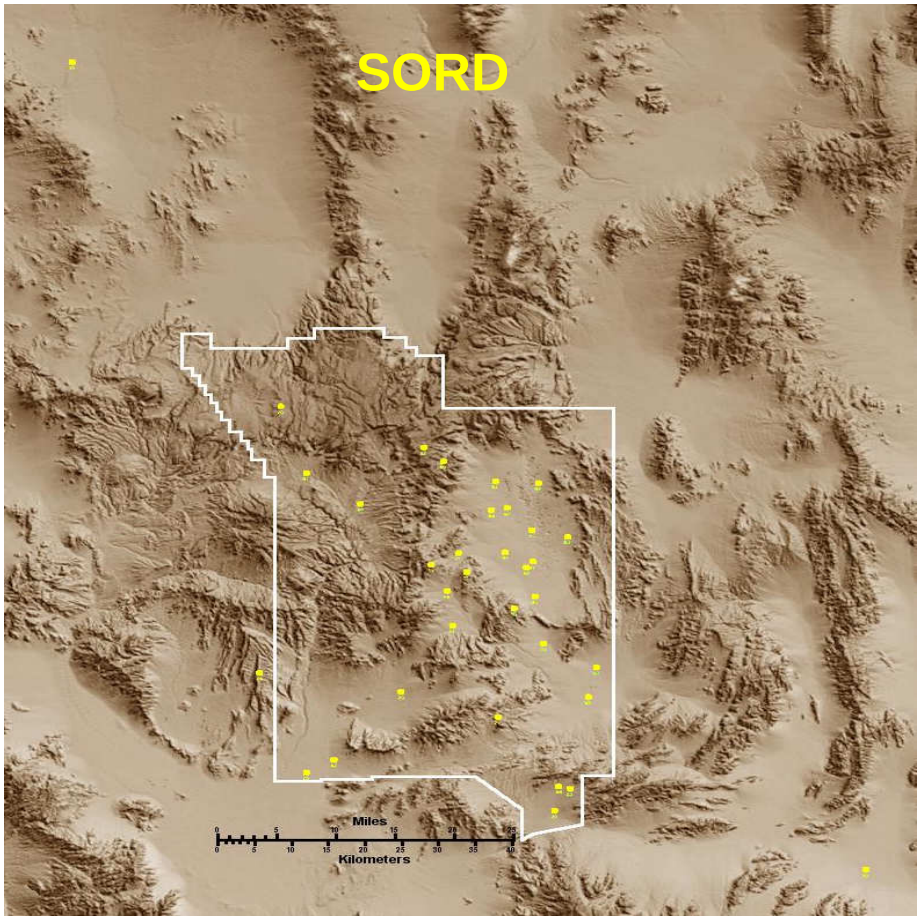
Triplicate Soil Moisture and Soil Temperature measurements made at depths of 5, 10, 20, 50, and 100 cm. Will have 20 installed in the southeast and west by mid-June 2009. Places of interest to SMAP??

NOAA-INL Mesonet



- Mesonet consists of 35 stations covering the eastern Snake River Plain of SE Idaho.
- Land use is brushes and irrigated farmland.
- All stations measure winds, air temperature, relative humidity, and incoming total solar radiation; 29 stations measure precipitation.
- One flux site that measures energy fluxes (Rn, H, LE, G) and soil moisture

NOAA-SORD



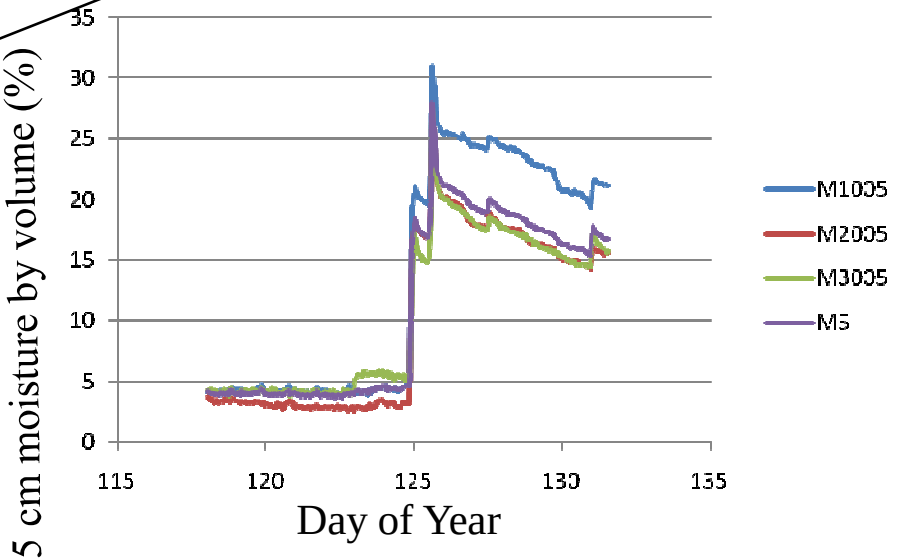
•Mesonet consists of 34 stations covering the southern Great Basin in southern Nevada.

•Domain of the Mesonet is 60 miles SW to NE and 115 miles SE to NW.

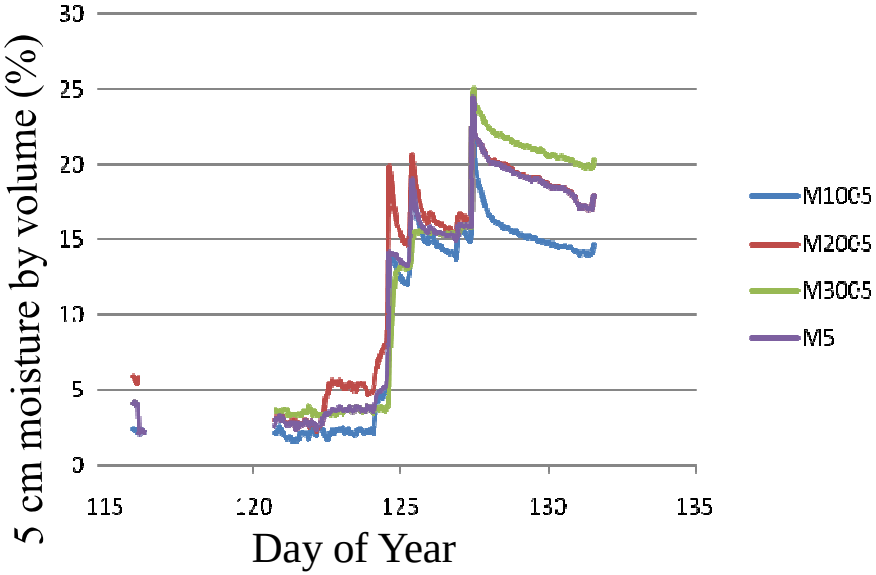
•Vegetation is of desert type brushes on the lower elevation to pine trees on the mountain tops.

•All stations measure winds, air temperature and relative humidity; 19 stations measure precipitation

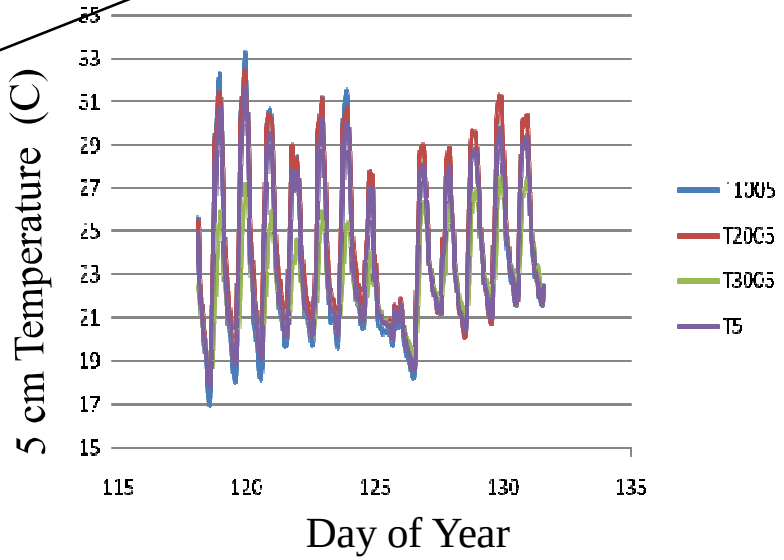
Blackville, SC



Watkinsville, GA



Blackville, SC



Watkinsville, GA