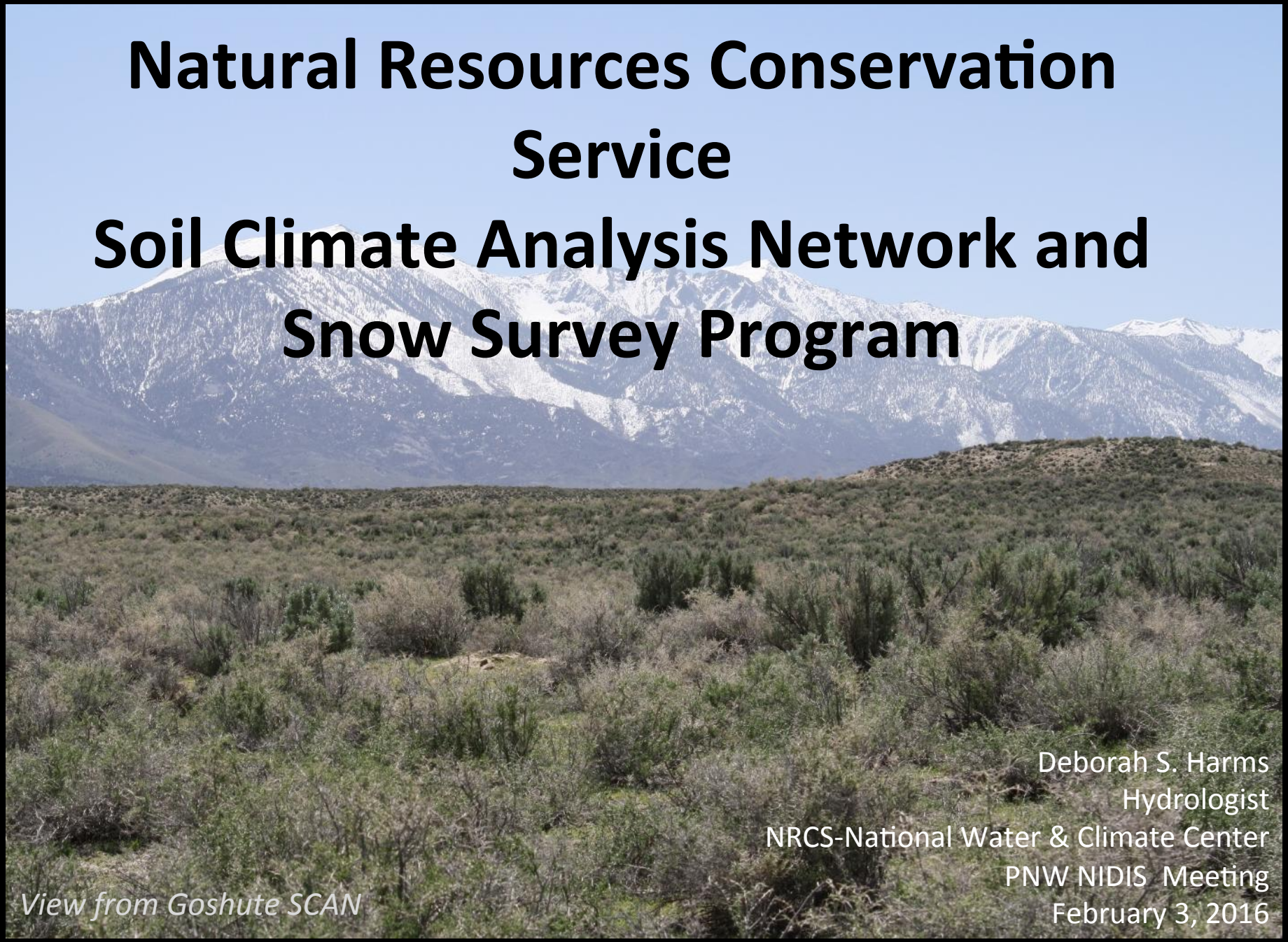
Natural Resources Conservation Service
Soil Climate Analysis Network and Snow Survey Program



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NRCS-National Water & Climate Center
PNW NIDIS Meeting
February 3, 2016

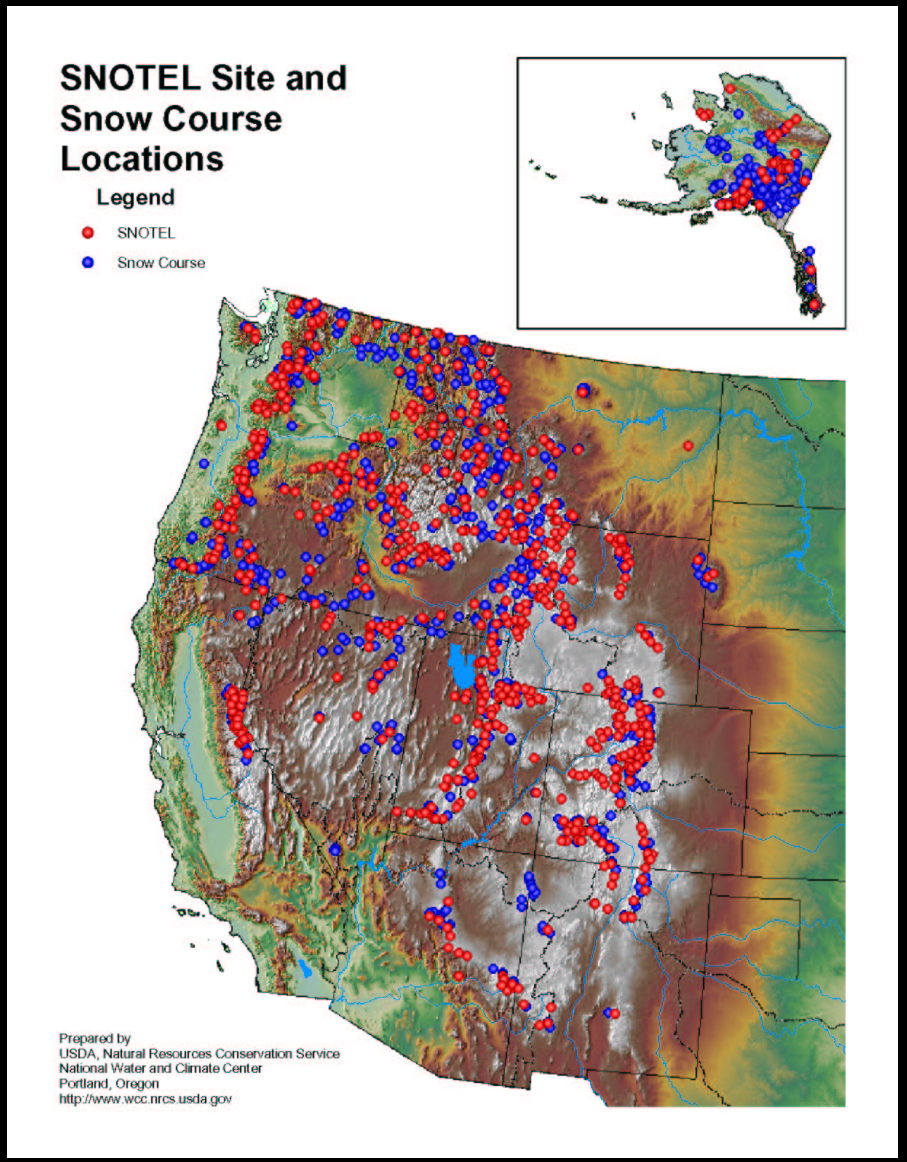
View from Goshute SCAN

- SNOTEL background
- SCAN background

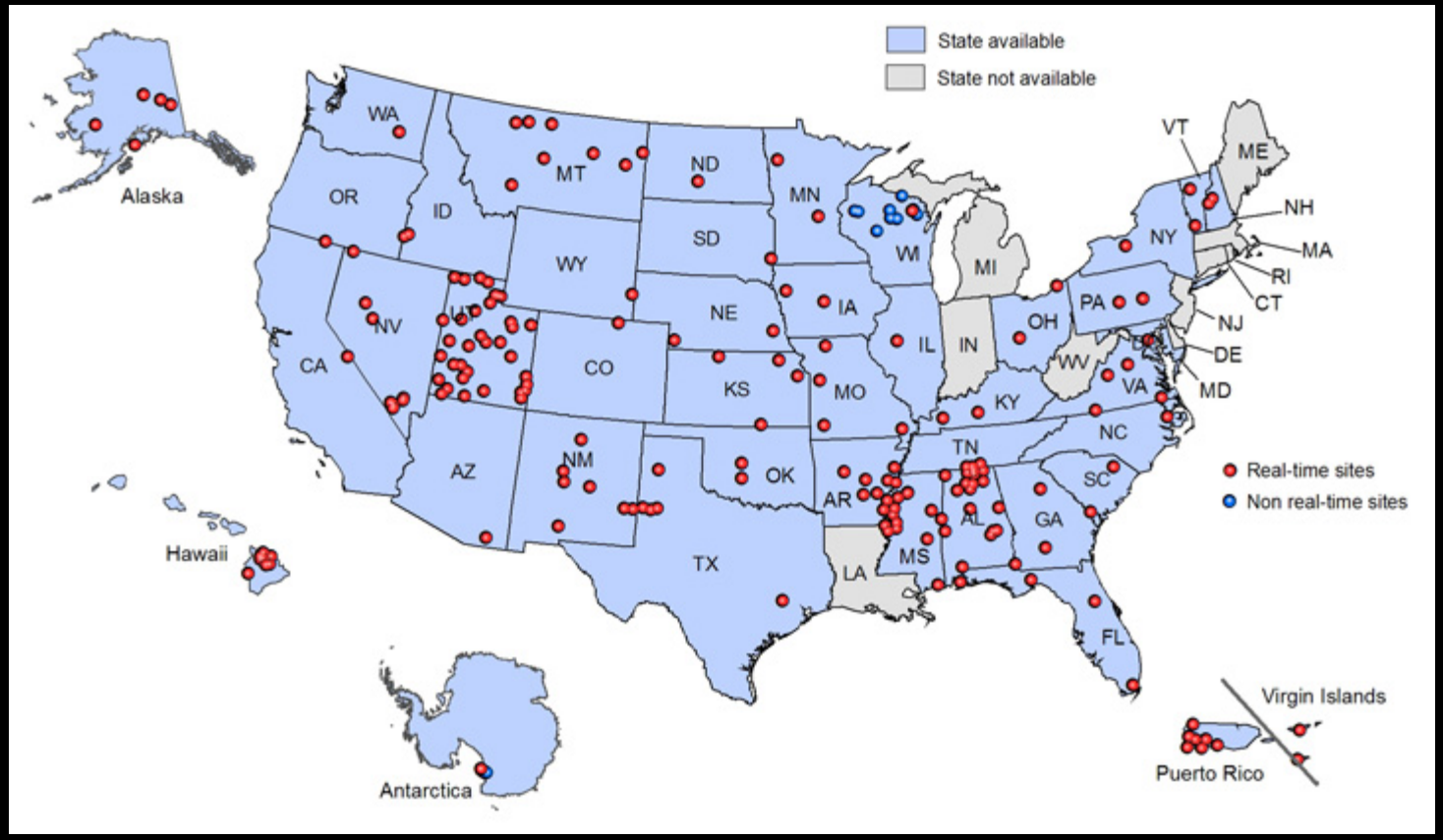
Snowpack Telemetry

SNOTEL

- 900 sites west-wide
- Collects snowpack and related climate data
- Provide snowpack and water supply forecast
- DCOs located in
  - Portland, OR
  - Boise, ID
  - Salt Lake City, UT
  - Bozeman, MT
  - Denver, CO
- Water Supply Specialists in WA, CA, NV, AZ, NM, & WY.



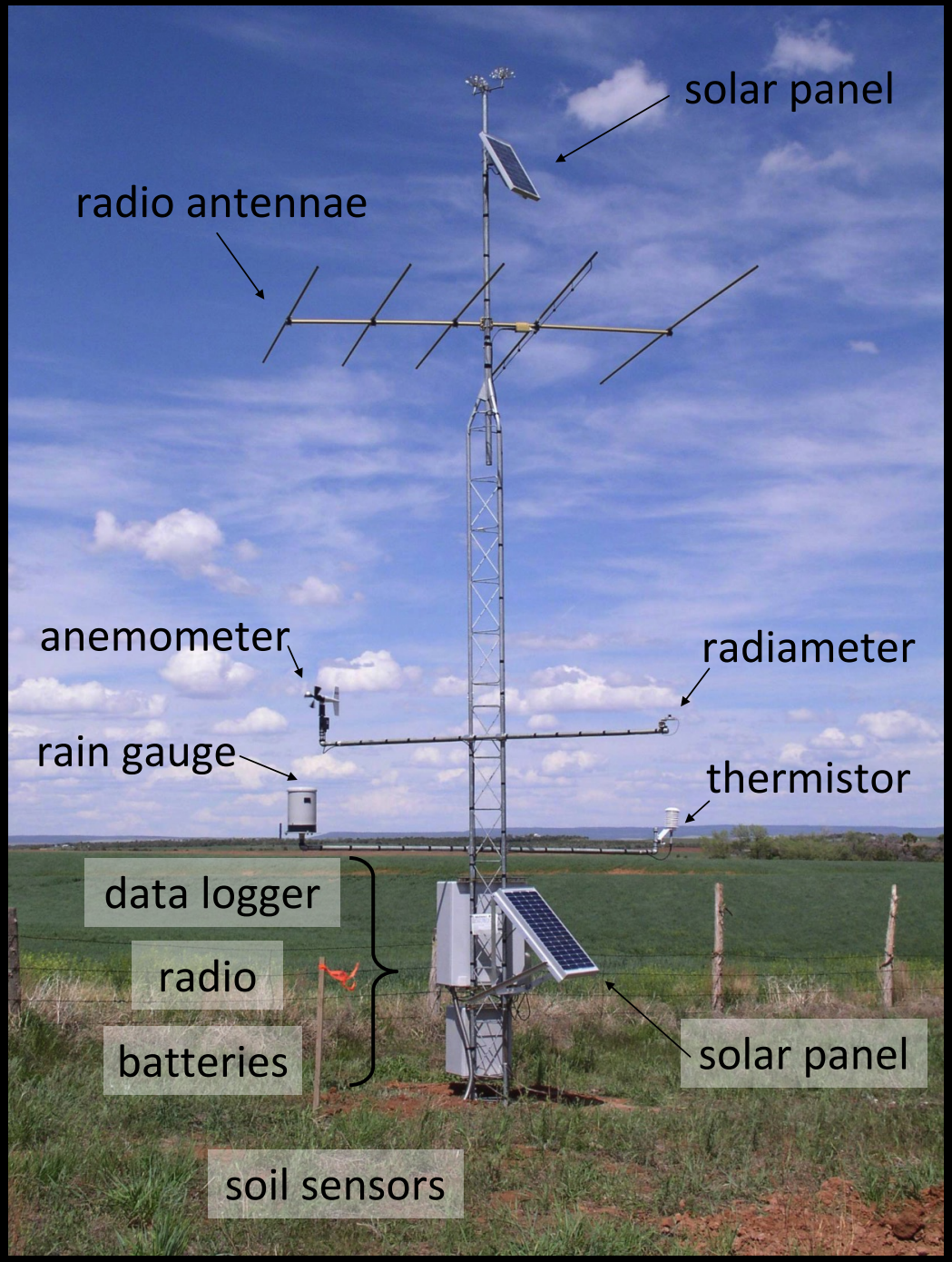
Soil Climate Analysis Network - **SCAN**

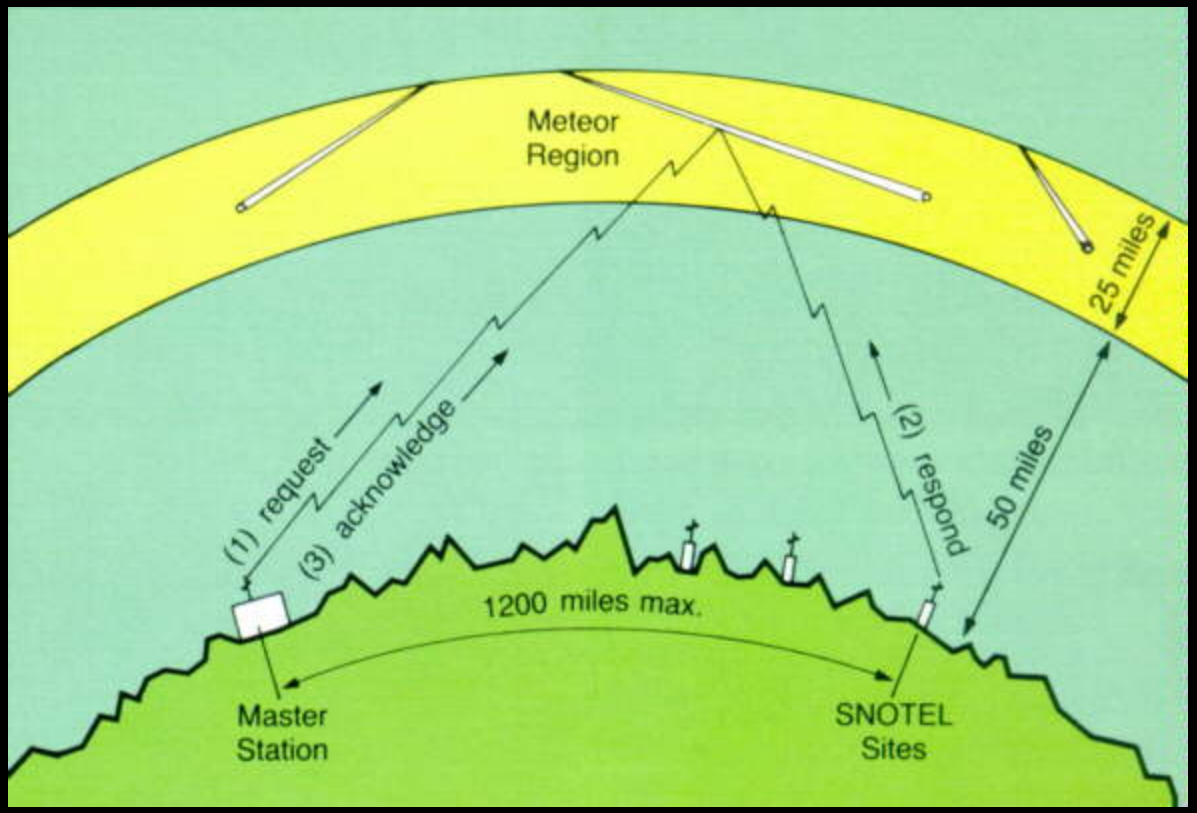


- 190 sites nation-wide
- Initiated in 1991 as a pilot study with 25 sites.
- Site maintenance is organized through NWCC.
- Data editing and quality control is done by a statistical assistant in.

Site layout

- Air temperature
- Relative humidity
- Wind speed & direction
- Barometric pressure
- Rainfall
- Solar radiation
- Soil moisture (5, 10, 20, 50 & 100 cm)
- Soil temperature (5, 10, 20, 50 & 100 cm)
- Soil electrical electrical conductivity (5, 10, 20, 50 & 100 cm)
- Snow Depth
- Snow pillow





Hourly data collection

- Air temperature
- Precipitation
- Snow water equivalent
- Snow depth
- Soil moisture (5, 20, & 50 cm)
- Soil temperature (5, 20, & 50 cm)

Image from: http://en.wikipedia.org/wiki/Meteor_burst_communications

Questions or Comments?

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