

2010 Radar Group Meeting
ARM Radar Status Report

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ASR Working Group Meeting

Boulder, CO

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U.S. DEPARTMENT OF
ENERGY

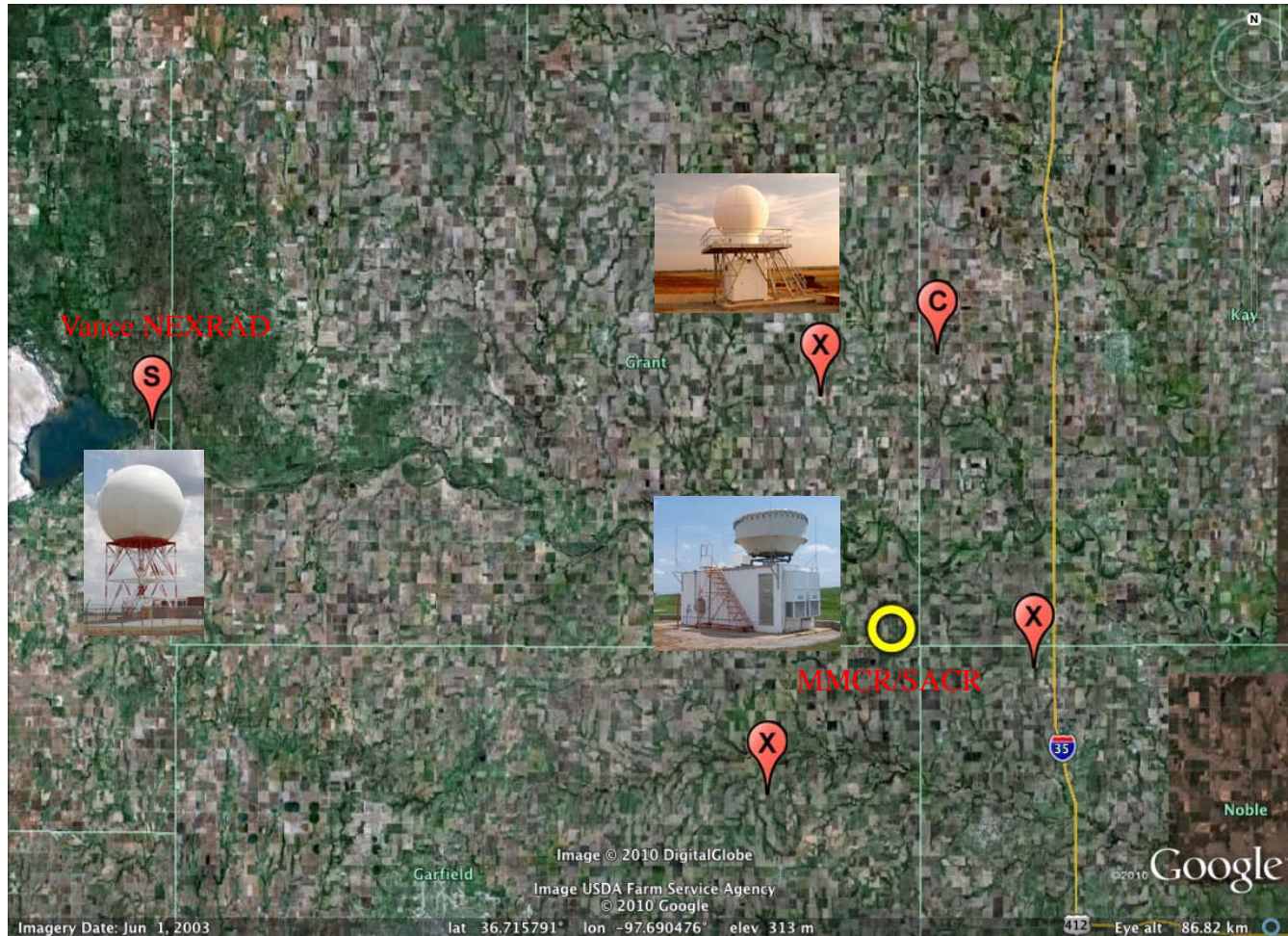
Office of Science

Recovery Act Radars Status

- X-band Scanning ARM Precipitation Radar (X-SAPR)
 - Acceptance tests scheduled for next week at SGP
 - Barrow installation postponed to May 2011 due to infrastructure delays
 - Frequency authorization has been “sent back” for more information



SGP Radar Locations



Recovery Act Radars Status

- C-band Scanning ARM Precipitation Radar (C-SAPR)
 - Infrastructure contract signed last week at SGP
 - Mid-November estimate for installation at SGP
 - Tower on its way to Manus, PNG
 - Manus installation scheduled for Jan/Feb 2011
 - Frequency authorization sent back for more information for U.S.
 - Manus frequency authorization approved



Recovery Act Radars Status

- X/Ka/W-band Scanning ARM Cloud Radars (SACR)
 - Installation schedule
 - SGP – Ka/W-SACR in November 2010
 - AMF2 – X/Ka-SACR (with MMCR) in mid-December 2010
 - Barrow – Ka/W-SACR in January 2011
 - AMF1 – Ka/W-SACR ready for shipment in January 2011
 - Manus – X/Ka-SACR in early March 2011
 - Darwin – X/Ka-SACR in late March 2011
 - Antenna issues causing delays, temporary Ka antennas used for SGP and AMF2

Recovery Act Radars Status

- **MMCR Upgrade**
 - Installation schedule
 - SGP in mid-November 2010
 - Barrow in December 2010
 - AMF2 in December 2010
 - Darwin in February 2011
 - Manus in February 2011

WACR Status

- Hard disk failure after UPS failure in September
- Power detector has been bad for quite a while – replacement on site
- Otherwise functioning fine

SWACR Status

- Installed at Thunderhead site, Steamboat Springs for StormVEx
- Disk stability issues solved
- Calibration yesterday successful



SACR/SWACR Calibration

- Importance of being able to set up a corner reflector cannot be overemphasized!
- Reflectivity accuracy without $\sim \pm 2\text{-}3$ dBZ



Agenda

- Scanning strategies for ARM radars – Nitin Bharadwaj
- Precipitation radar products – Scott Collis
- Cloud radar products – Karen Johnson
- Discussion