



NCAR

# S-Pol at PECAN

John Hubbert

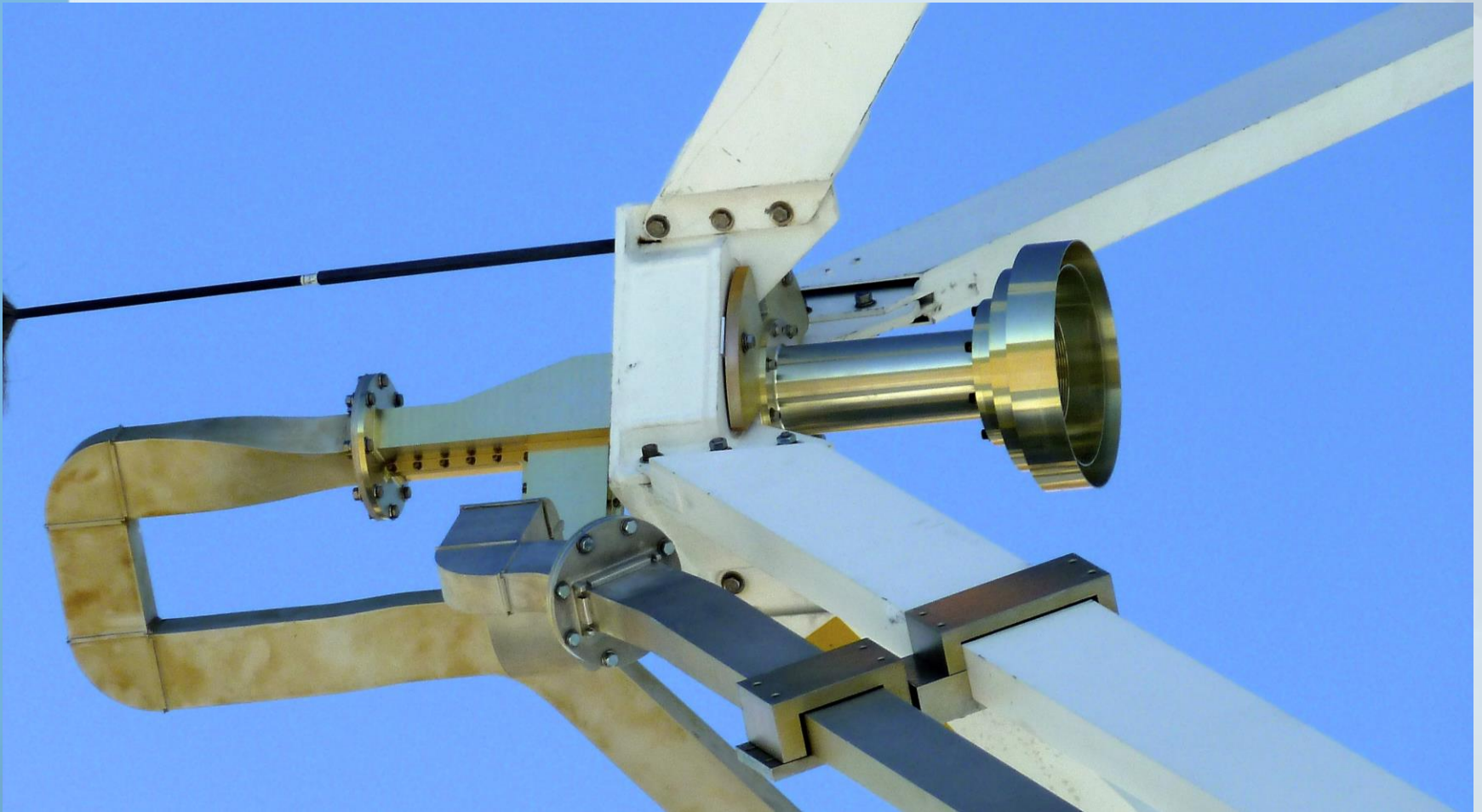
12 May 2014

# S-Pol at Firestone

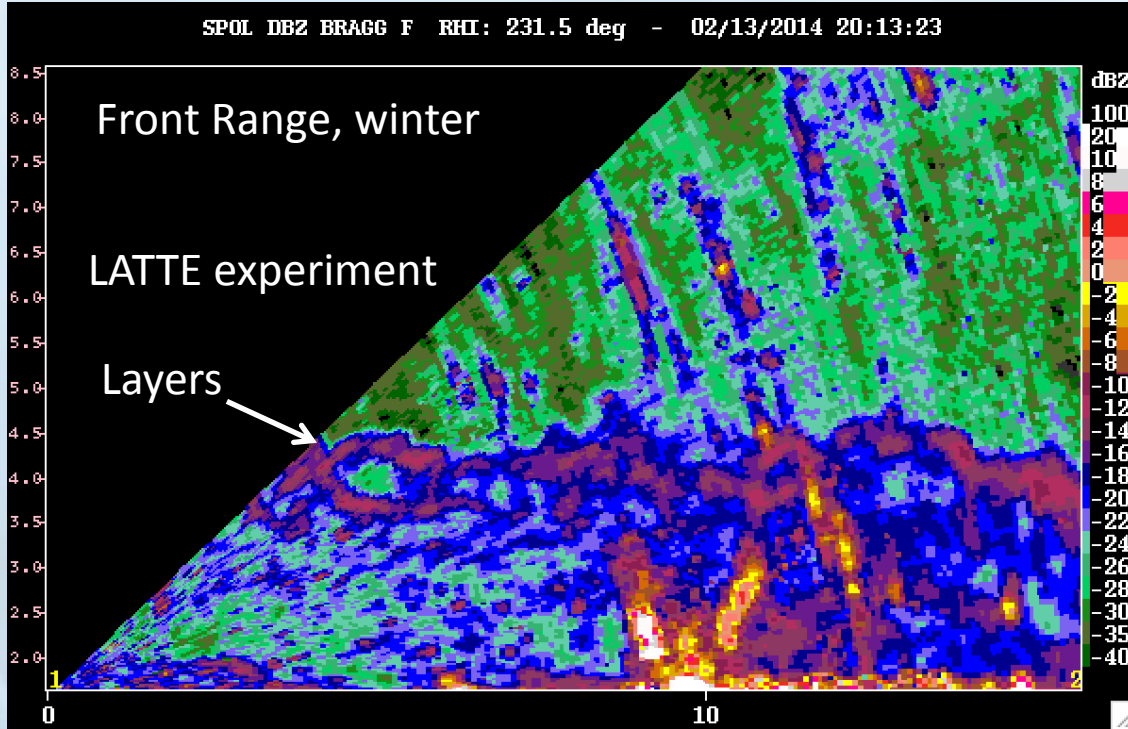
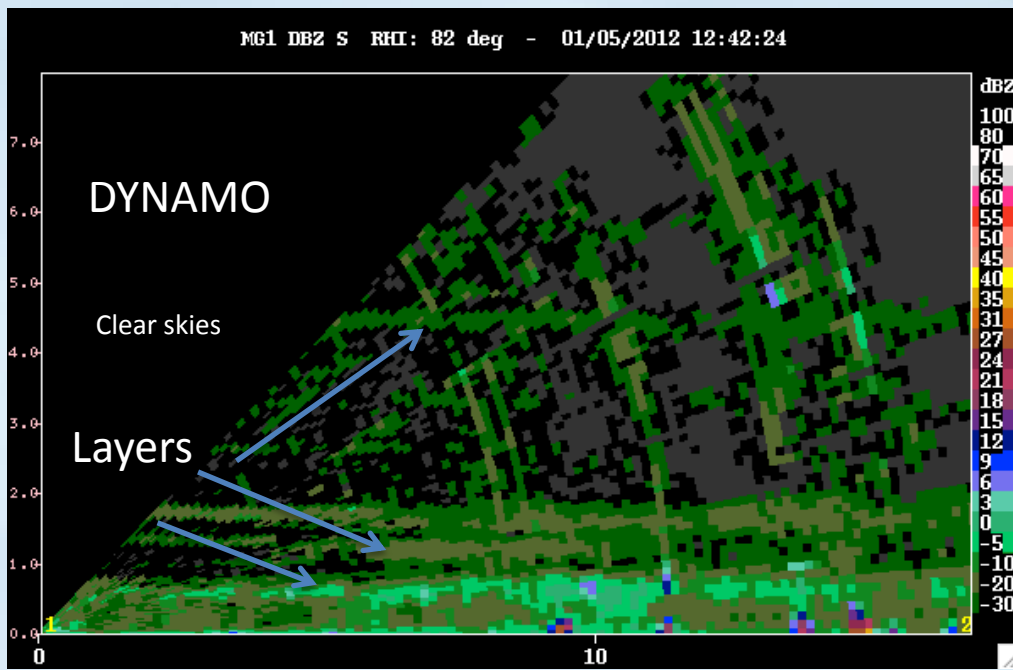


# New Feedhorn

Improved data quality (lower LDR system limit)



# Bragg Scatter

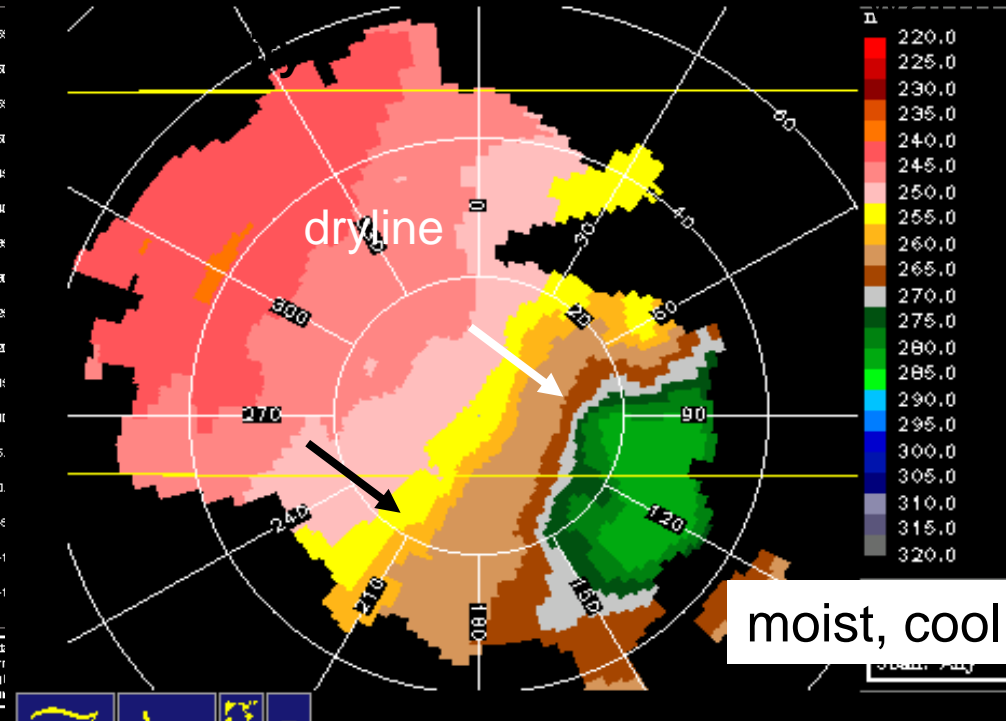
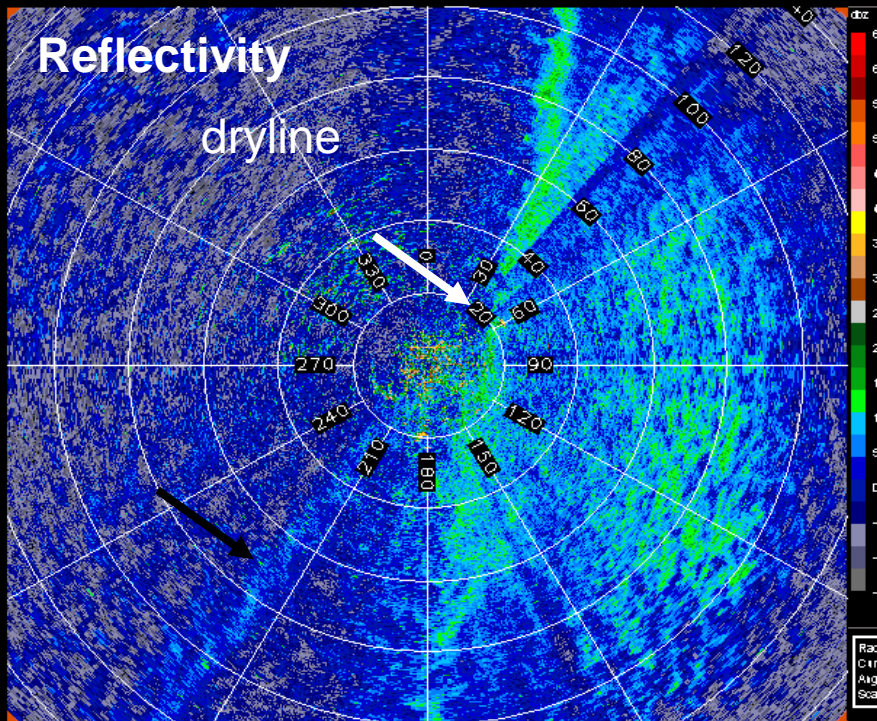


# Refractivity

- Near-surface moisture retrievals due to ground clutter

22-may-2002,22:45:24 Zebra projection: dbz (spol).

22-may-2002,22:54:00 Zebra projection: n (refract\_storm).

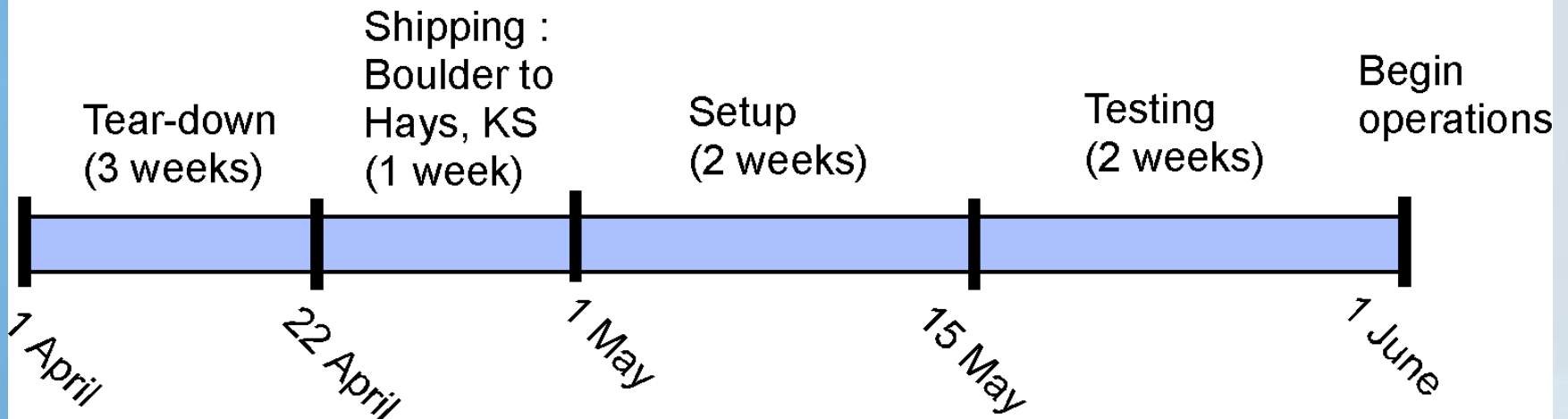


# S-Pol scanning

- Scanning strategies
  - Full-volume SUR
  - RHIs
  - PPIs for multi-Doppler
  - PI selectable
- Remote Operations possible

# S-Pol Schedule

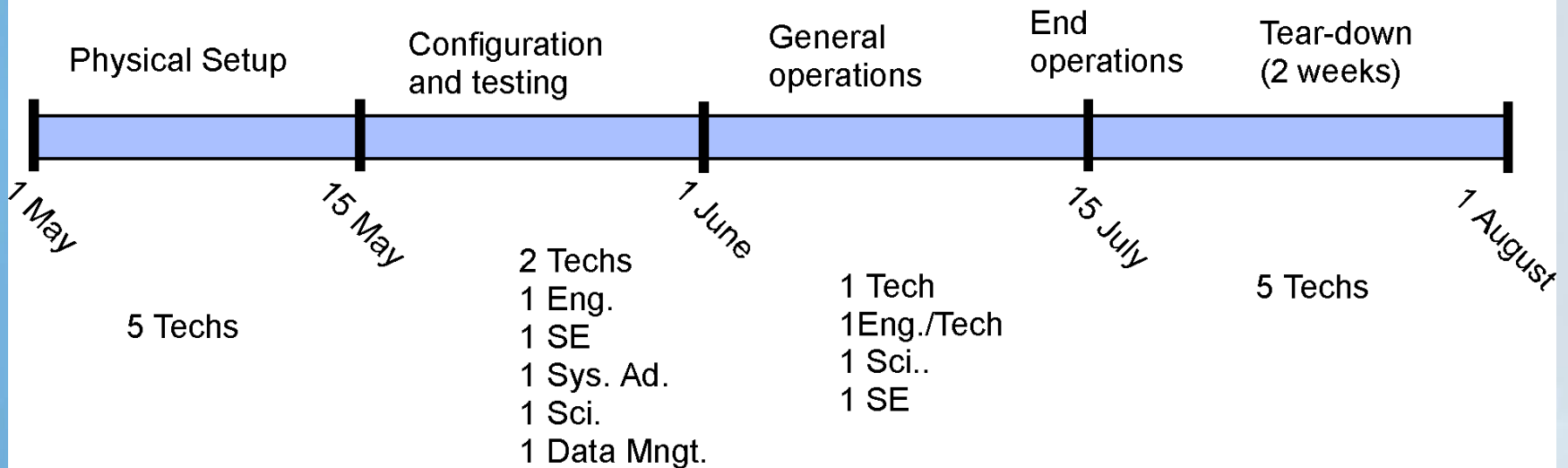
## S-PolKa PECAN Preparation Schedule



S-Pol site preparation in Hays should be completed before 1 May 2015.

# S-Pol Staffing

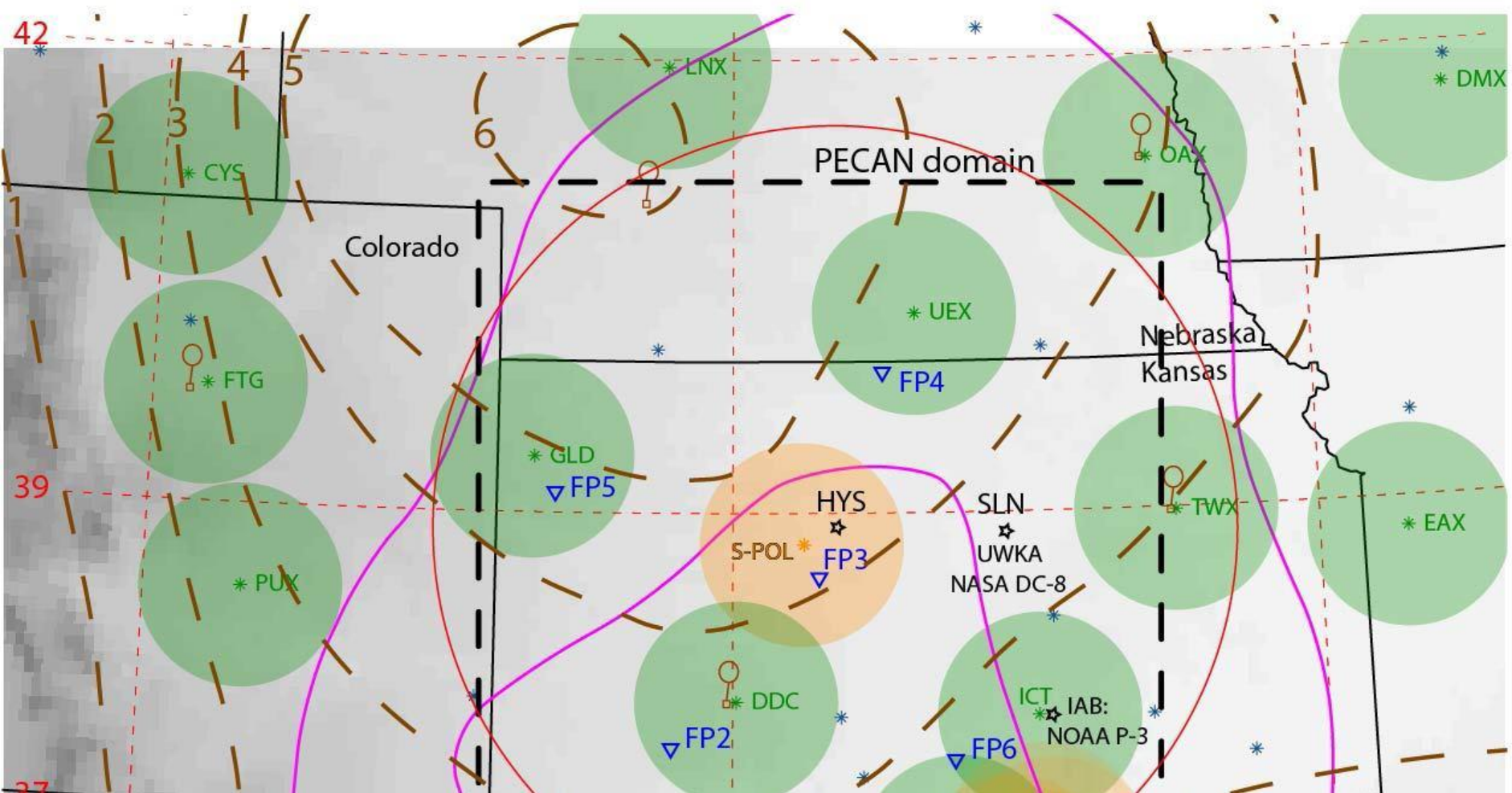
## S-PolKa PECAN Staffing Schedule

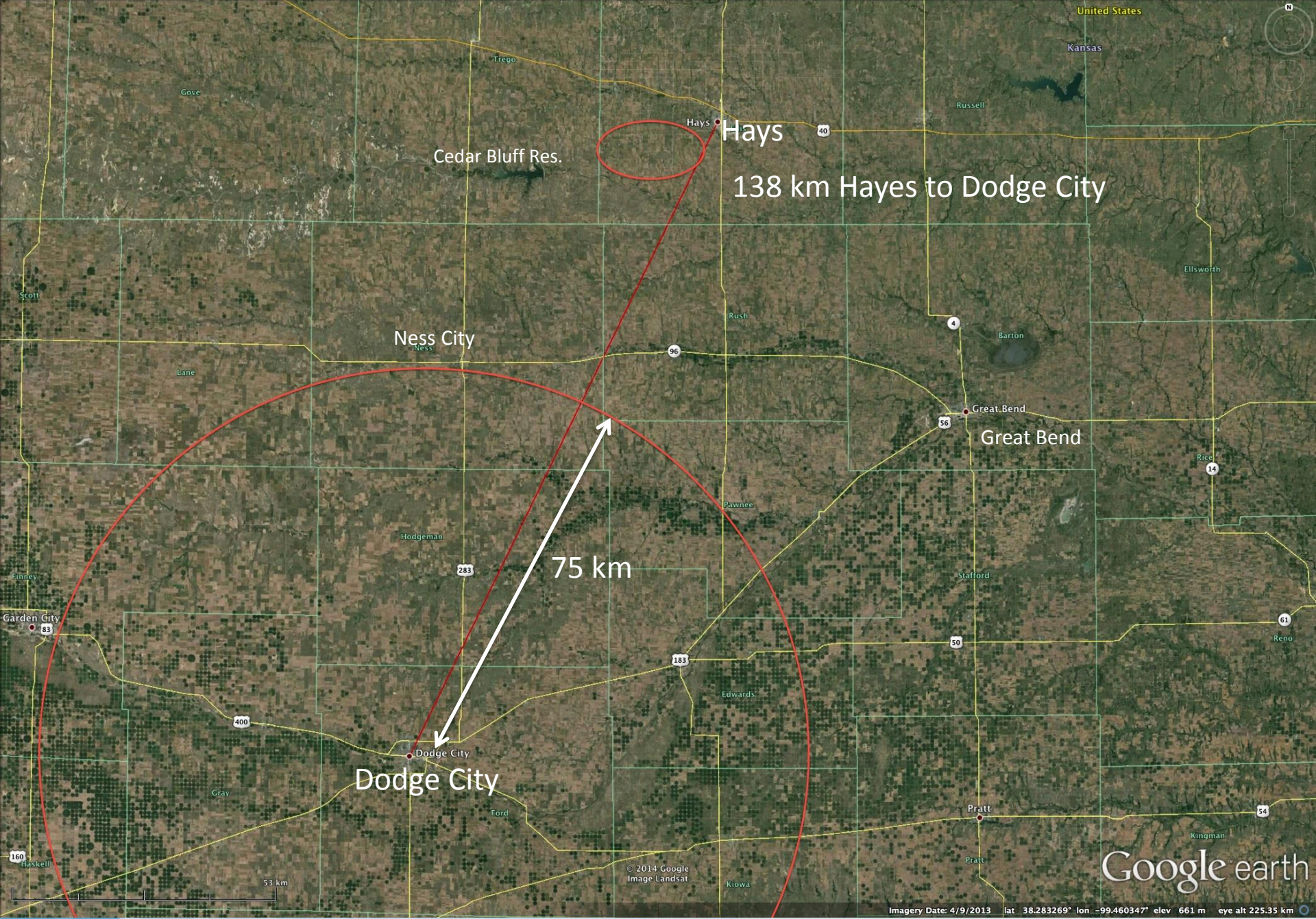




# S-Pol Staffing

- 5AM to 5PM will require two shifts
  - Unmanned ops in day time
- 4 EOL staff can not cover this alone
  - Need an extra person
- 6 science displays at S-Pol trailers
  - Can accommodate 4 university personnel comfortably
    - Wireless available for laptops
- S-Pol should be located how close to Hays??
- S-Pol has generator power
- Need high speed internet for data





United States

Kansas

Hays

Hays

138 km Hayes to Dodge City

Cedar Bluff Res.

Ness City

Great Bend

75 km

Dodge City

Google earth

Imagery Date: 4/9/2013 lat 38.283269° lon -99.460347° elev 661 m eye alt 225.35 km



Sign in

Drive via Antonino Rd · 26.0 mi 44 min

Half hour line



Drive 49 min 30.6 mi

Drive 44 min 26.0 mi

45 min.

Cedar Bluff Res.

77 kilometers to Dodge City

Ness City

52.5 km, ~30min

30 min



Google

- Should do site finding trip in June/July
  - Frequency allocation may take awhile

Questions?

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