

The CSU-CHILL Radar Facility and its Educational Opportunities

Pat Kennedy

Dual-polarization S-Band system funded by the NSF, operated by CSU and based at Greeley, CO.

Air-supported radome and dual transmitter electronics trailer are shown here.



Operations
trailer

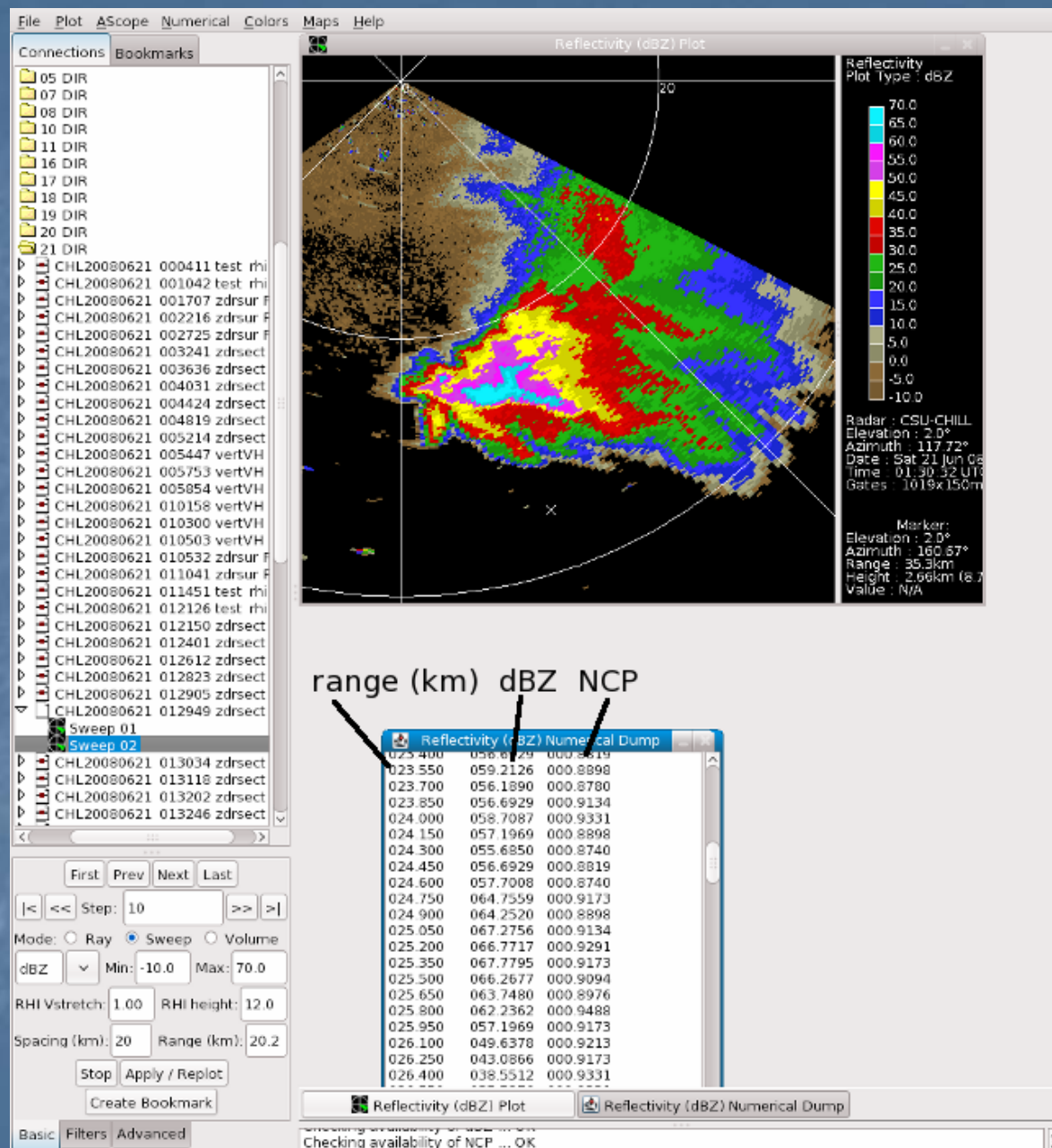


Offset feed antenna
installed in spring 2008.
Design provides improved
cross-pol isolation and
reduced sidelobe levels.
Main reflector diameter is
8.5 m; 3 dB beam width is
1.0 degrees.



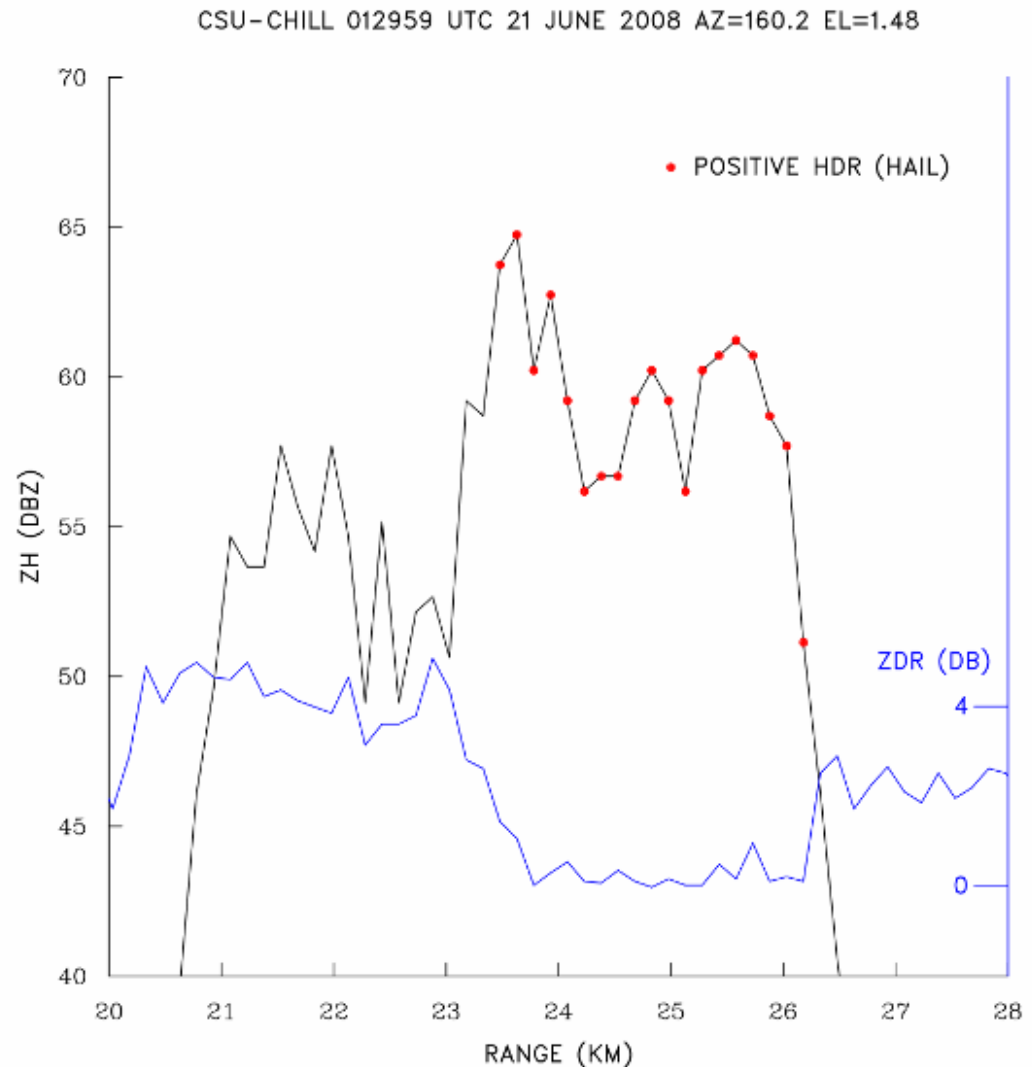
Switch to web cameras and VCHILL

ASCII gate data
from a single ray

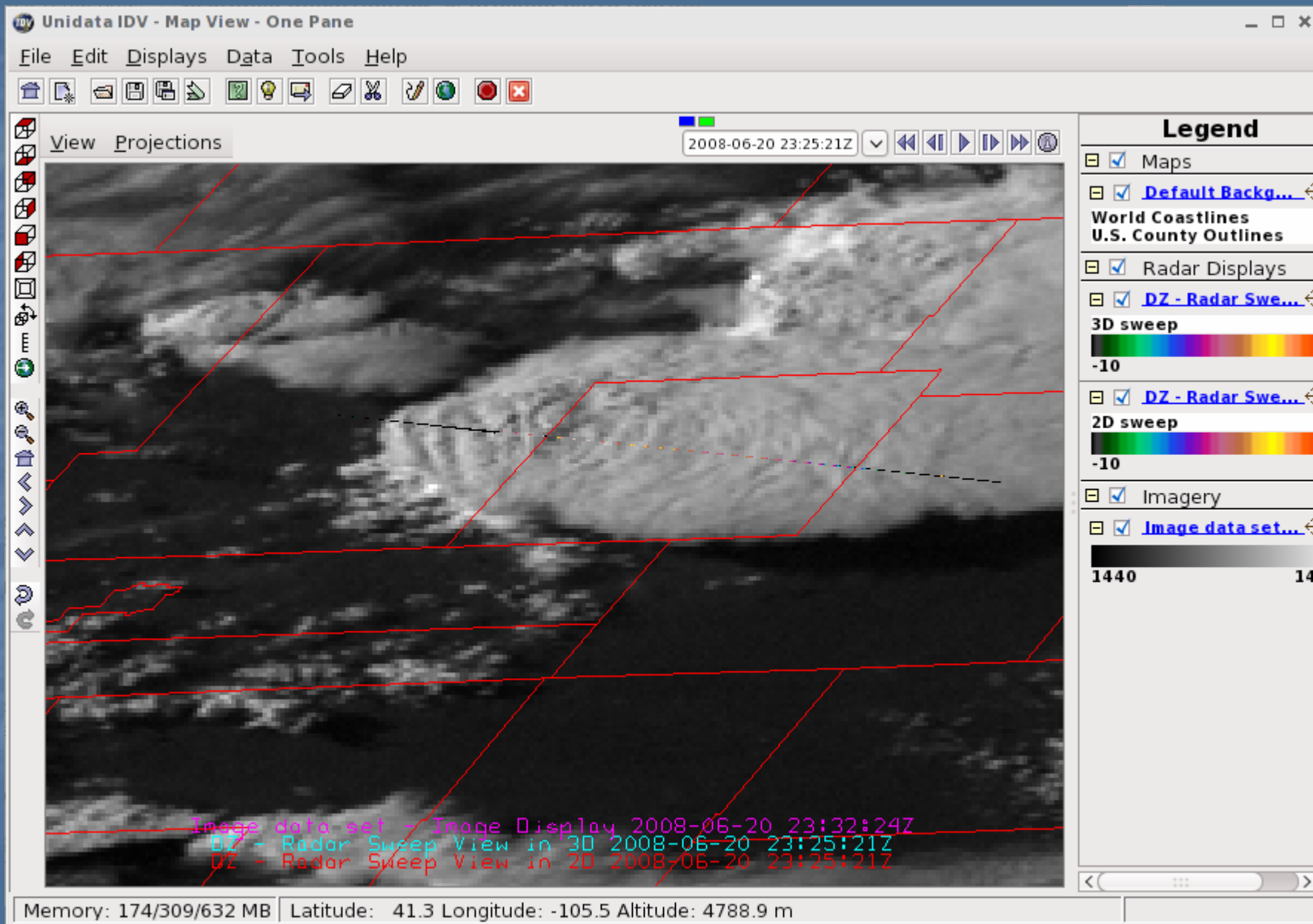


Basic radar data
interaction for
students:

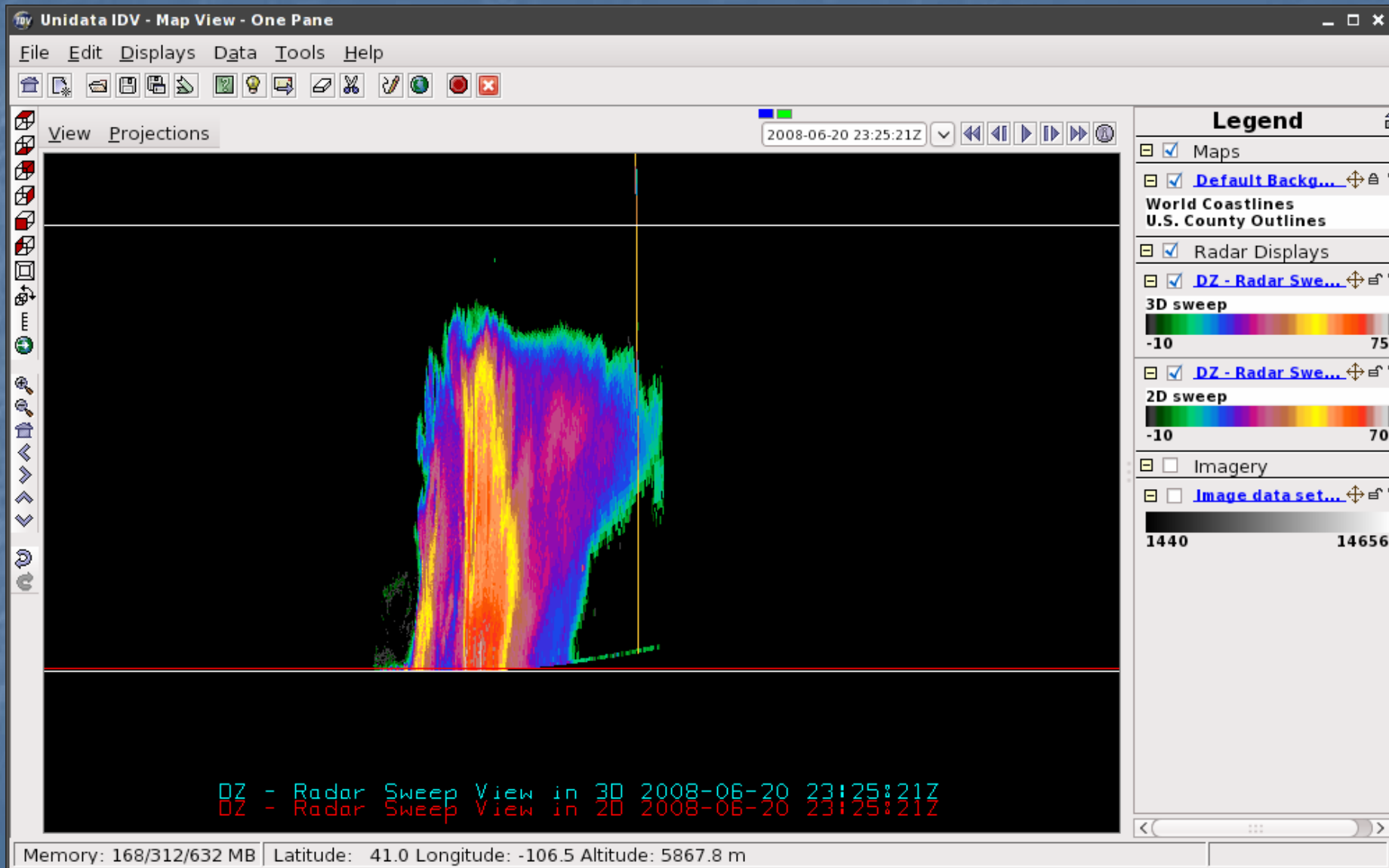
Simple line graph
and HDR
calculation from
53 ASCII gate
data values.



GOES visible data in IDV: 2332:24 UTC 20 June 2008



CSU-CHILL RHI scan reflectivity data in IDV: 2325:21 UTC 20 June 2008



Summary

- CSU-CHILL is accessible beyond the traditional field experiment mode.
- Internet / VCHILL capabilities can bring the radar into the classroom.
- Facility has expanding inventory of archive data, featured articles, etc.
- Please see chill.colostate.edu web site.