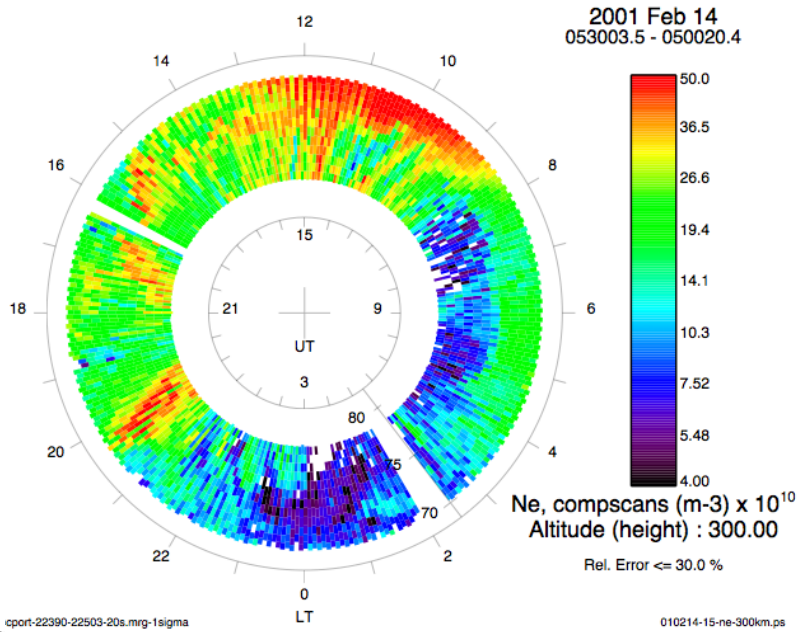
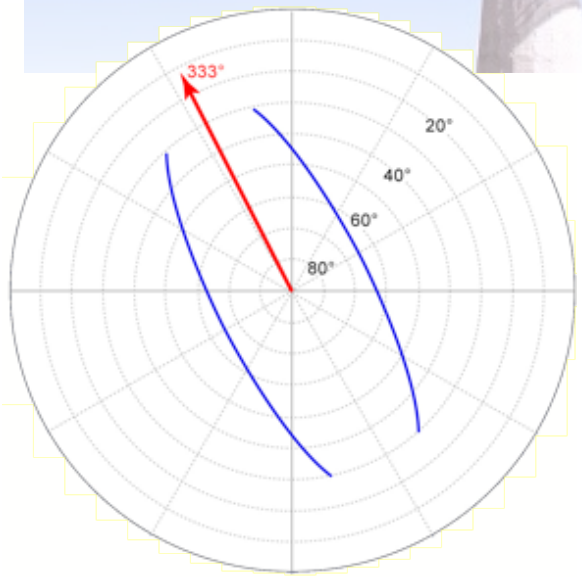
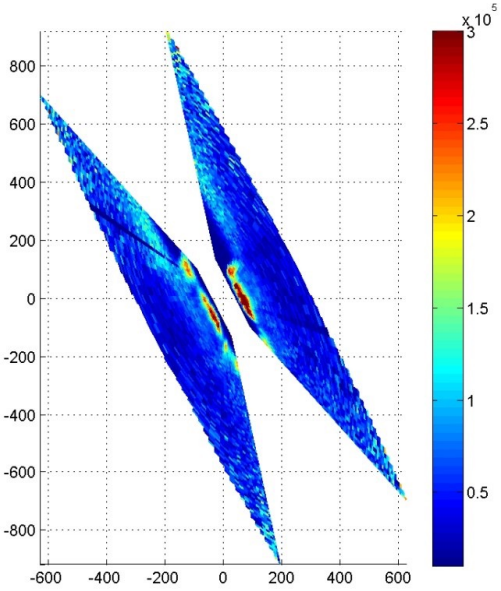
The other radars

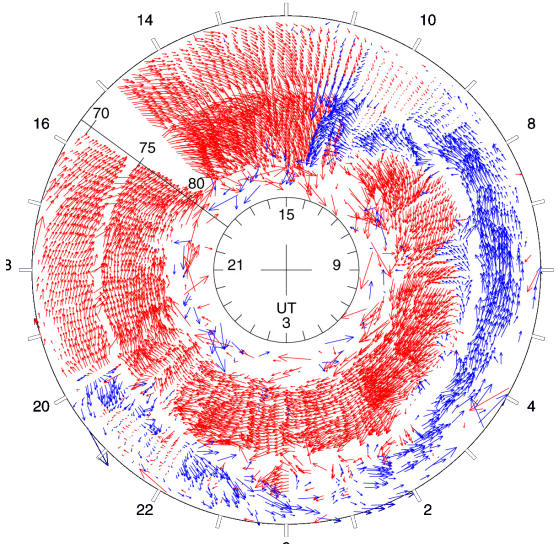
Mode for Sondrestrom

Full composite-scans will be run at the Sondrestrom radar tonight. It consist of 2 alternating elevation scans offset to the east and west respectively. This will give convection vs latitude with 5-minute resolution, in addition to standard parameter. 320 us longpulses.



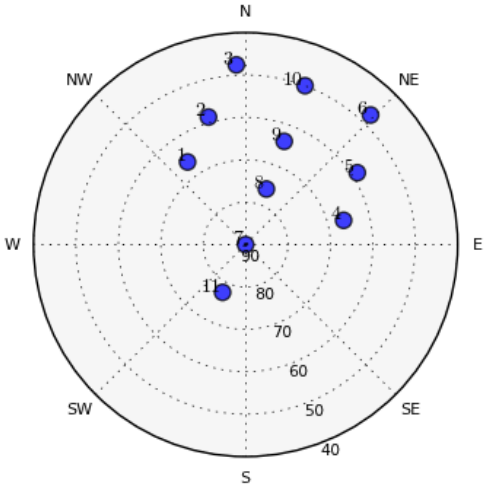


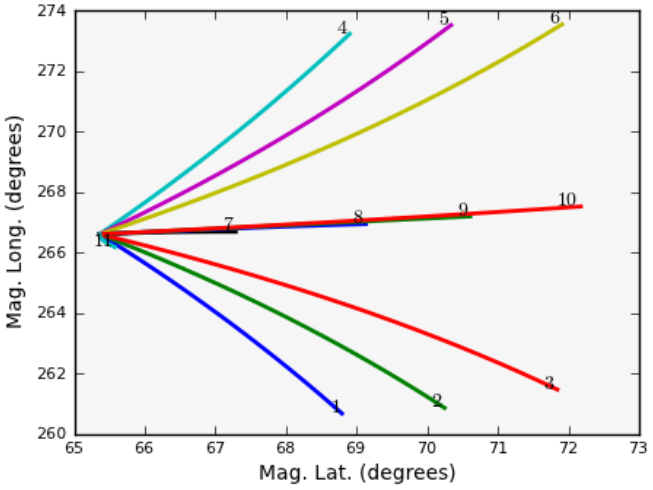




Mode for PFISR

PFISR is running in mode switching between 11 positions on a pulse-to-pulse bases. Both alternating codes and simple long pulses give good E and F region measurements, in addition to resolved velocities and Electric field vectors.

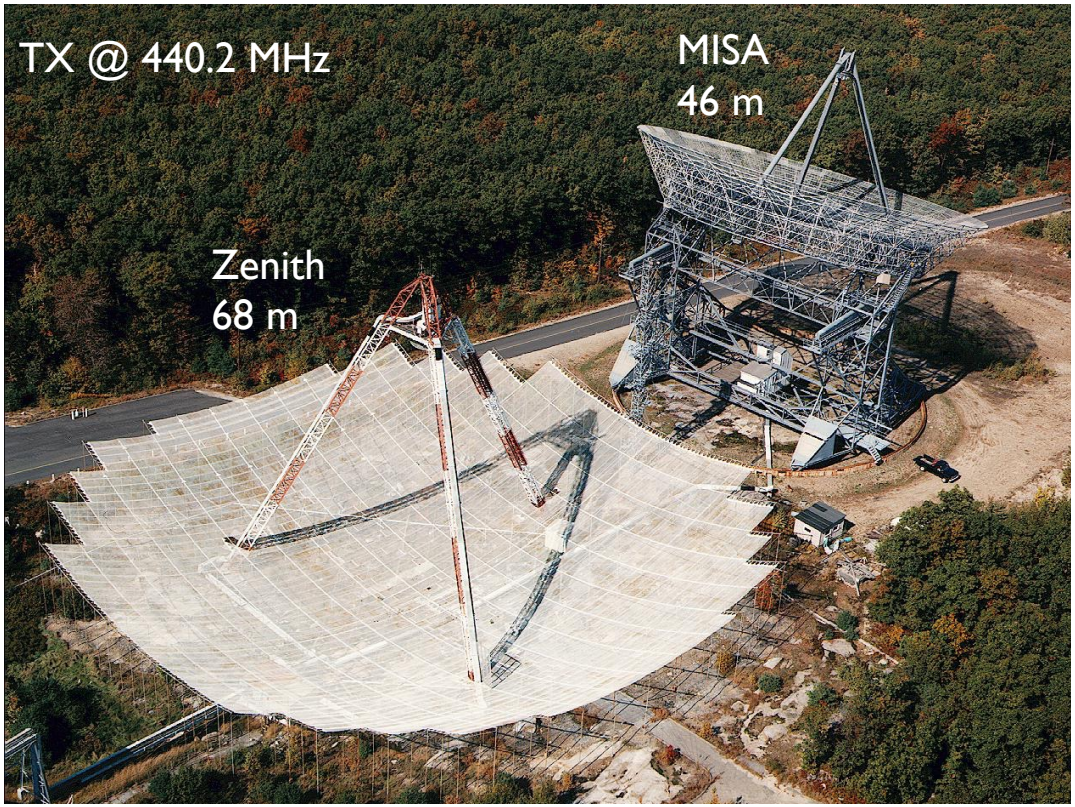




Mode for Arecibo

Arecibo will run a coded long pulse for the F region, as well as E region measurements and plasma lines in addition to probing the topside.

Millstone Hill ISR Mode: Regional Vector Coverage 2015-07-21 20 UTC to 2015-07-22 12 UTC



This is an experiment designed to provide rapid time coverage of E,F, and topside region ionospheric parameters in the vicinity of Millstone Hill, in a cone with radius +/- 2 degrees at F region heights. The mode provides vector ion drifts/electric fields as well as electron density, electron and ion temperatures, and ion composition. Both the zenith and steerable MISA antennas are used. Integration time in any one position is 4 minutes with the possibility for shorter integrations in post-experiment analysis.

1. Zenith: 960 usec uncoded pulse : 4 minutes [Topside]
2. Zenith: 480 usec alternating code / uncoded pulse: 4 minutes [E, F region]
3. MISA @ 45 deg el, NorthWest: 480 usec alternating code / uncoded pulse: 4 minutes [E, F region]
4. Zenith: 480 usec alternating code / uncoded pulse: 4 minutes [E, F region]
5. MISA @ 45 deg el, NorthEast: 480 usec alternating code / uncoded pulse: 4 minutes [E, F region]