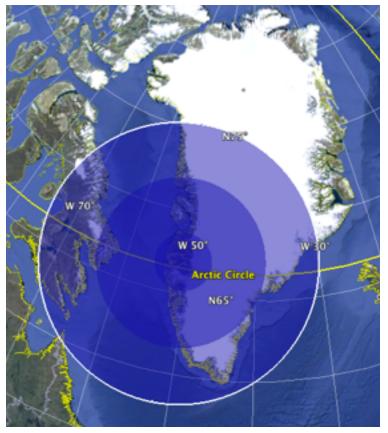
## Sondrestrom ISR coverage

Mary McCready, SRI International

## Sondrestrom ISR Facility





## Sondrestrom

Geographic coord. 66° 59'12" N

309° 03'02" E

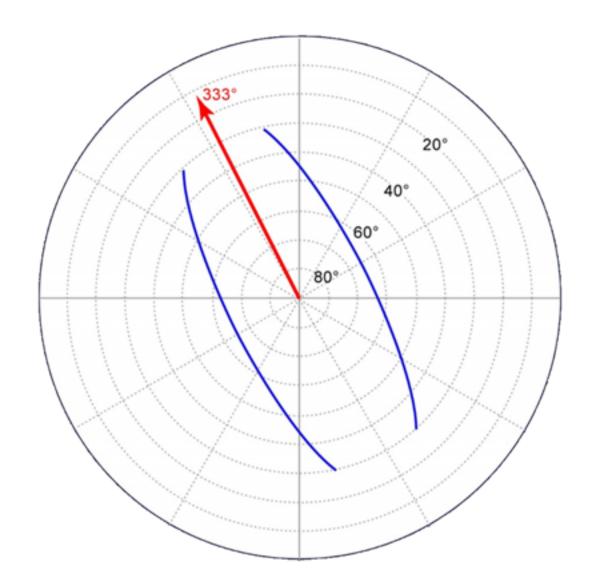
Geomag. dip angle 80° 24' Invariant latitude 74° 11'24" N

Local time UT - 3 (UT - 2 summer)

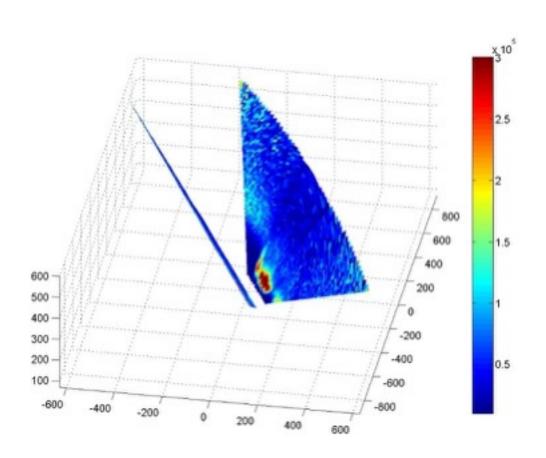
Magnetic time UT - 1:58 Elevation 177 m

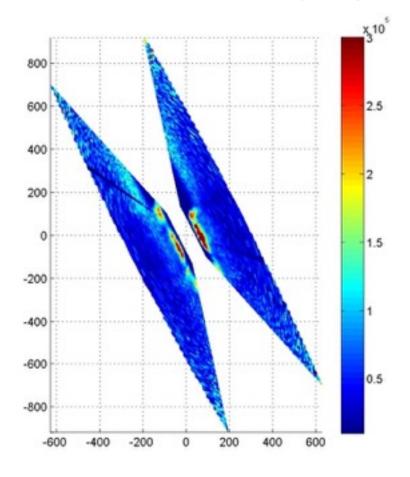
Coverage 360° az., above 25° - 30° elev.\*

 Dependent on azimuth. No transmission below this elevation. Antenna scans in both azimuth and elevation simultaneously, defining a plane parallel to the magnetic meridian but tipped 25° from the zenith.



Latitudinal coverage of electrodynamics and plasma parameters are derived from composite scans with 4½ minute resolution. Range resolution of 48 km provides good F-region coverage (and only contextual information for the E region).





## Ion Velocity (E-field) Maps

