Johansson - GNSS Experience

Atmospheric remote sensing from ground
- Ionosphere TEC
- Troposphere
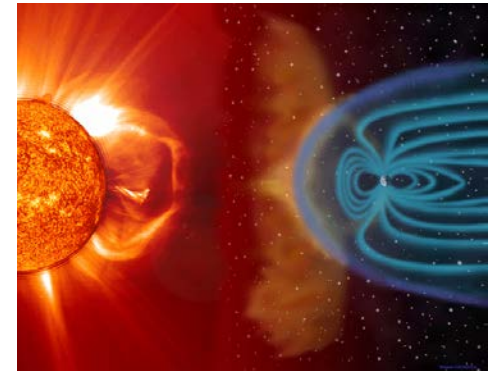
Geodesy and Geophysics
- Tectonic plate motion
- Postglacial rebound
- Sea level

Real-time positioning and navigation
Time and Frequency

GNSS error sources

SWEPOS

Earth and Space Sciences

GNSS Challenges at High Latitude

Geometry e.g. in combination with a "difficult environment"

Low elevation observations => long path and weak signals

Error sources e.g. atmosphere, mapping functions, and antennas PC

Long term stability of systems (Robustness, Interoperability)

Long term stability of reference frames