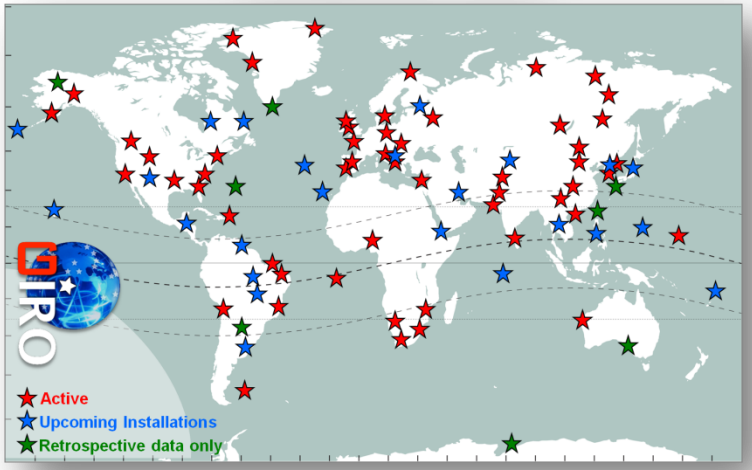
- Lowell Digisonde International, LLC.
- Lead Investigator: Dr. Bodo Reinisch
- Current Team Members:
  - Ryan Hamel
  - Ivan Galkin
  - Xueqin Huang

Digisonde 128
(1970)

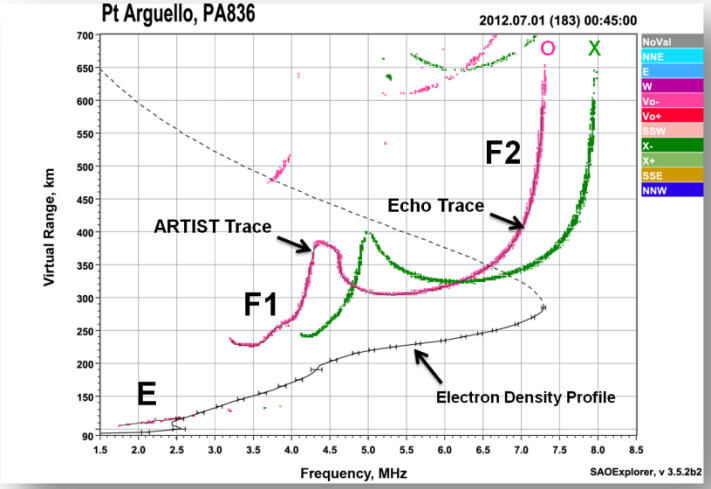
Digisonde 256
(1978)

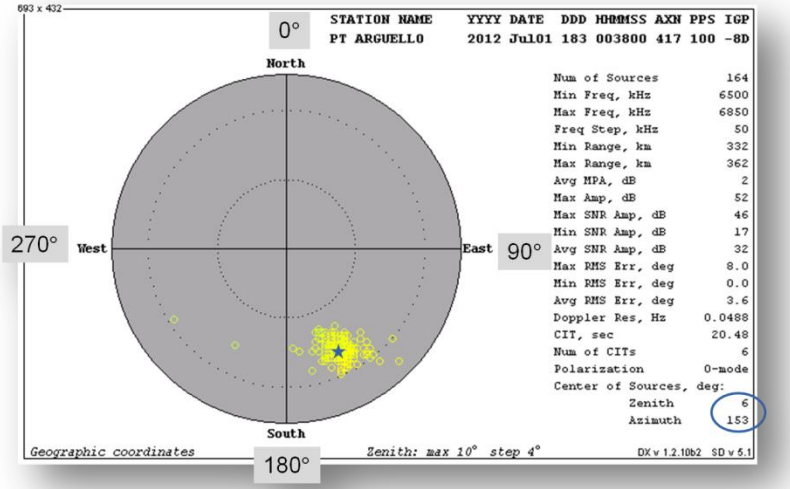
Digisonde DPS
(1993)

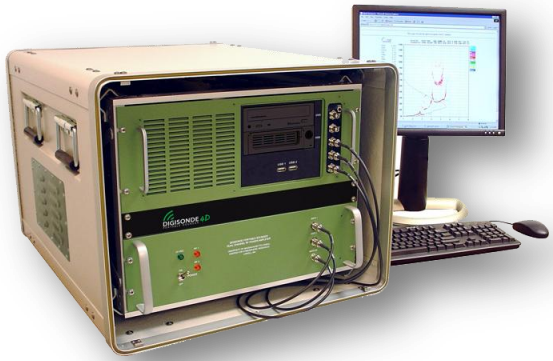
Map of GIRO locations (July 2012)

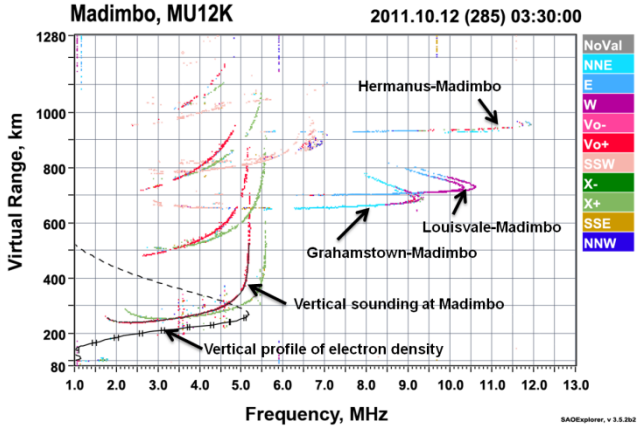


- HF ionospheric sounding
  - Ionogram-derived electron density profiles
  - Skymap-derived ionospheric tilt
  - Raytracing through tilted ionosphere

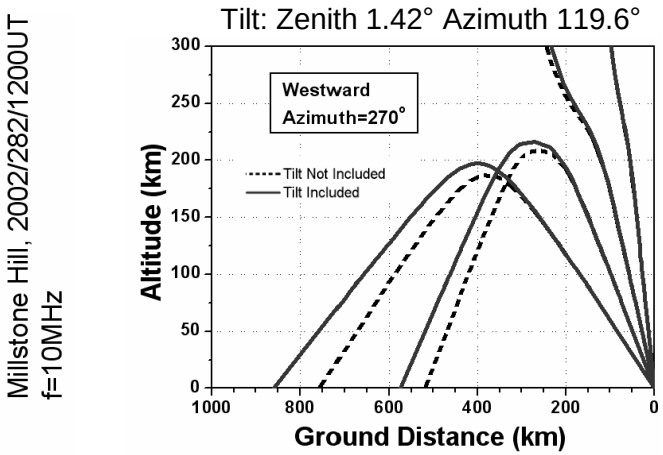


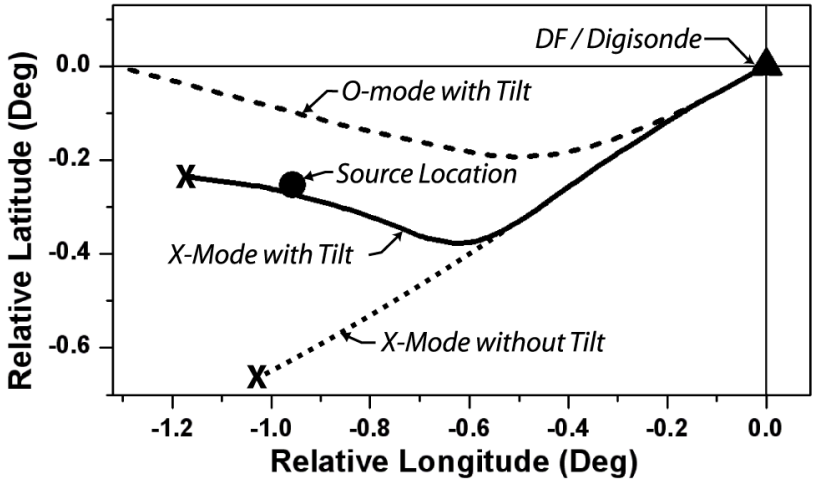






- Digisonde 4D
  - Generation 4 of Lowell ionospheric sounders
  - 37 instruments built since 2008
- Ray tracing in tilted ionosphere
  - Tilt angle used to build 3D density distribution





- Cooperation scenarios:
  - Provide digisonde sensing capability to other groups
  - Provide ray tracing calculations based on 3D electron density distributions from digisonde data
  - Operate a real-time 3D assimilating model based on adjustable IRI maps of NmF2 and hmF2
  - Provide ground-truth oblique sounding data for Observing System Simulation Experiment (OSSE)

Contact Information

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