

# IONOSPHERIC SCINTILLATIONS STUDIES USING SPIRE AND COSMIC-2 RO AND GOLD DATA



EGU23-3149



**Shradha Mohanty and M. Mainul Hoque**

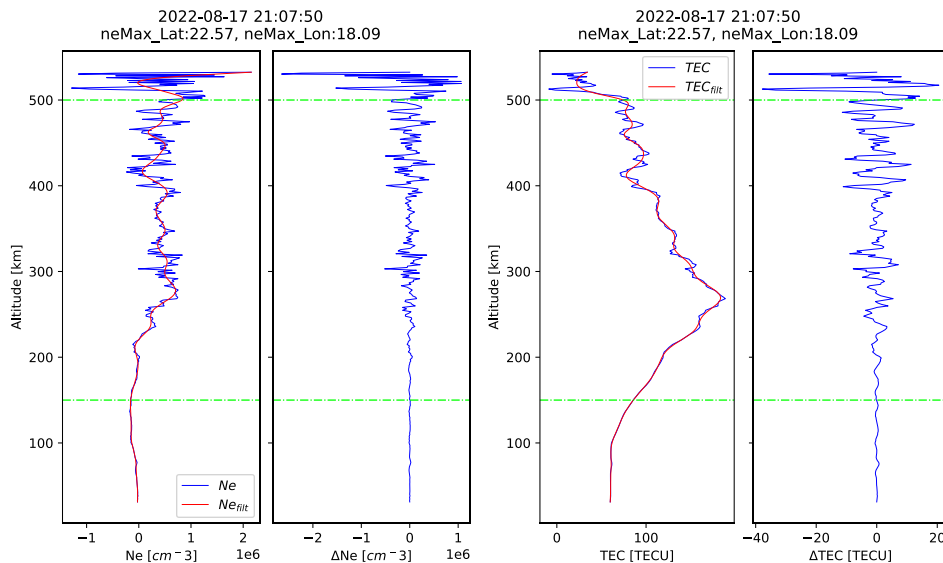
*German Aerospace Centre (DLR), Kalkhorstweg 53, 17235 Neustrelitz*

# Scintillation observation from Spire GNSS-RO, supported by co-located multi-satellite measurements

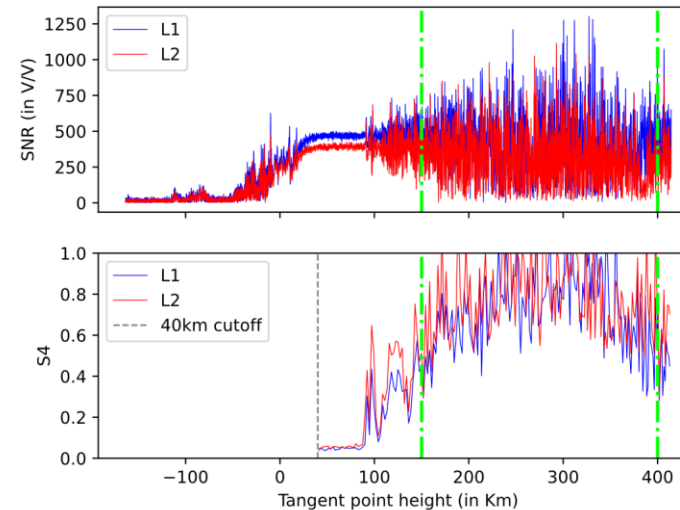


- Potential of GNSS-RO data from commercial companies for scintillation studies (focus on **Spire Global CubeSat** constellation)
- Co-located ionospheric irregularity detection from:
  - COSMIC-2 Electron Density Profile
  - ICON / IVM plasma parameters
  - GOLD NI1 disk scan

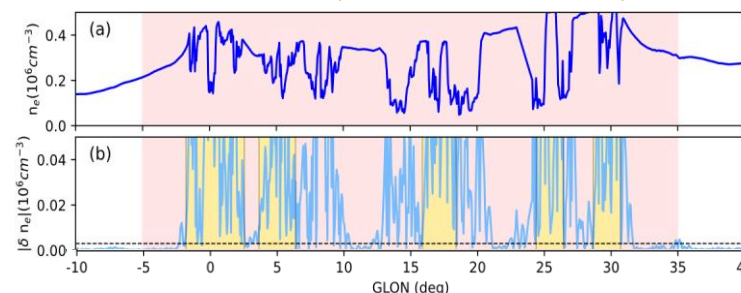
COSMIC-2 1 Hz EDP (2022-08-17, 20:57 UTC)



SPIRE 50 Hz conPhs (2022-08-17, 20:56 UTC)



ICON / IVM (2022-08-17, 20:55 UTC)



GOLD NI1 (2022-08-17, 20:55 UTC)

