

Ionospheric Electron Density (Ion_ED) Workflow

+ Date
+ Coordinates (latitude & longitude)
+ Algorithm (NeQuick, TaD)
+ Digisonde bottom-side profile (Electron Density, Frequency)

“Kp, ap, and Ap indices, F10.7 radio flux and sunspot number”
Data Collection

✓ Geomagnetic three-hourly index Kp

“NOAA-SWPC predicted sunspot number and F10.7 radio flux”
Data Collection

✓ SSN & F10.7 indices

“eSWua IONOWORD tool: Nowcasting global TEC maps”
Data Collection

✓ TEC over Europe (nowcasting)

“The 3D EDD version of the TaD Model”
Data Collection

✓ Electron Density & Frequency profiles over Europe for heights 100 ÷ 20000 km

“The NeQuick ionosphere electron density model”
Data Collection

✓ Electron Density & Frequency profiles over Europe for heights 100 ÷ 600 km

Get TaD-3D Electron Density Profile and/or Frequency Profile at specified locations on the European grid (lat = 34 ÷ 60, lon = -5 ÷ 40)

Get NeQuick-3D Electron Density Profile and/or Frequency Profile at specified locations on the European grid (lat = 34 ÷ 60, lon = -5 ÷ 40)