

## **Global 3-D ionospheric electron density reanalysis based on multi missions and ground based GNSS observations assimilation in UCAR/CDAAC**

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Reanalysis in neutral atmosphere like NCAR/NCEP and ECMWF have shown great impacts in the corresponding applications and scientific research. Dramatically increased radio occultation observations in this decade make ionospheric reanalysis possible for the first time. In this study, we did the global ionospheric electron density reanalysis based on a global ionospheric data assimilation model and multi-missions RO data in UCAR/CDAAC. The preliminary results and evaluation will be shown here.