

2017 CEDAR Workshop
IT Studies Poster Session - Wednesday, June 21, 2017
(40 of 75 posters in competition)

DATA	Data Assimilation (3 of 5 posters in competition)
EQIT	Equatorial Thermosphere or Ionosphere (6 of 12 posters in competition)
IRRI	Irregularities of Ionosphere or Atmosphere (7 of 15 posters in competition)
LTVI	Long Term Variations of the Ionosphere-Thermosphere (2 of 4 posters in competition)
MDIT	MidLatitude Thermosphere or Ionosphere (7 of 9 posters in competition)
MITC	Magnetosphere-Ionosphere-Thermosphere Coupling (7 of 10 posters in competition)
PLAN	Planetary Studies (1 of 2 posters in competition)
POLA	Polar Aeronomy (5 of 11 posters in competition)
SOLA	Solar Terrestrial Interactions in the Upper Atmosphere (2 of 7 posters in competition)

Data Assimilation or Management

- DATA-01**, Sierra Flynn, Student IN poster competition, Understanding the variability in thermospheric nitric oxide flux using empirical orthogonal functions (EOFs)
- DATA-02**, Liam Kilcommons, Non-student, A Level 2 DMSP SSM Magnetometer & Auroral Boundary Dataset
- DATA-03**, Chih-Ting Hsu, Student IN poster competition, Assessment of the impact of FORMOSAT-7/COMIC-2 GNSS RO observation on ionospheric specification and forecast using observing system simulation experiments
- DATA-04**, Ashton Reimer, Non-student, Real-Time Fitted Data for the Poker Flat Incoherent Scatter Radar
- DATA-05**, Yining Shi, Student IN poster competition, Determining optimal setting for AMIENext procedure using cross validation

Equatorial Thermosphere or Ionosphere

- EQIT-01**, Tzu-Wei Fang, Non-student, Impact of Midnight Thermosphere Dynamics on the Nighttime Mid- and Low-latitude Ionosphere
- EQIT-02**, Sevag Derghazarian, Student IN poster competition, Probing the Equatorial Plasmasphere with Jicamarca Long Pulse Experiments
- EQIT-03**, Wookyoung Lee, Non-student, Tropical ionization trough identified by Swarm satellite observations

- EQIT-04**, Luis Navarro, Student IN poster competition, Equatorial thermospheric winds on quiet and storm times
- EQIT-05**, Chuan-Ping Lien, Non-student, Simulation on the north-south ionospheric asymmetry during June solstice 2008
- EQIT-06**, Sam Shidler, Student IN poster competition, Estimates of the equatorial evening plasma vortex using climatological models
- EQIT-07**, Astrid Maute, Non-student, Calculating the 3-dimensional current in the ionosphere and its associated magnetic perturbation
- EQIT-08**, Sovit Khadka, Student NOT in poster competition, Characteristics of Equatorial Electrojet Variability and its Consequences in Low-Latitude Ionosphere
- EQIT-09**, William Evonosky, Student IN poster competition, Interactive Ion-Neutral Dynamics in the Low Latitude Evening Ionosphere
- EQIT-10**, Tiju Mathew, Student NOT in poster competition, Pre-sunrise uplift in vertical plasma drift using TIEGCM-ICON simulation
- EQIT-11**, Abhishek Desai, Student IN poster competition, Studying the variability of 150 km Echoes
- EQIT-12**, Alexander Valdez Portocarrero, Student IN poster competition, Multi-static HF radar system in Peru

Irregularities of Ionosphere or Atmosphere

- IRRI-01**, Shibaji Chakraborty, Student IN poster competition, Characterization of Shortwave Fadeout seen in Daytime SuperDARN Ground-Scatter Observations
- IRRI-02**, Dustin Hickey, Student NOT in poster competition, Variations in equatorial spread F between conjugate sites
- IRRI-03**, Pei-yun Chiu, Student IN poster competition, On the Relationship between Sporadic-E and ENSO Observed by FORMOSAT-3/COSMIC
- IRRI-04**, Christopher Fallen, Non-student, First experiments at the (new) UAF-HAARP facility: preliminary artificial airglow results and guidelines for future experiments
- IRRI-05**, Dev Joshi, Student IN poster competition, In-situ and ground-based observations of equatorial plasma irregularities and implications for Spread F dynamics
- IRRI-06**, Aramesh Seif, Non-student, A Global Study of Ionospheric Irregularities during Daytime at the Magnetic Dip Equator using SCINDA Ground-based and Radio Occultation Measurements

- IRRI-07**, Sebastijan Mrak, Student IN poster competition, Reconstruction of the GPS phase scintillation during a magnetospheric substorm
- IRRI-08**, Preeti Bhaneja, Student NOT in poster competition, Detection of Spread-F, foF2 values and Planetary and Gravity Wave Signatures using Digisonde and VIPIR instruments and their comparison with COSMIC-I/FORMOSAT-3 data
- IRRI-09**, Jonathon Smith, Student IN poster competition, Equatorial Plasma Bubbles: variations of occurrence and spatial scale in local time, longitude, season and solar activity
- IRRI-10**, Xiaoyu Han, Student NOT in poster competition, Deployable Satellite Receiver Node Design to Measure Ionospheric Scintillation
- IRRI-11**, Yang Su, Student IN poster competition, Sensing Ionospheric Irregularities with a GNSS Receiver Array during a Geomagnetic Storm
- IRRI-12**, Marcos Inonan, Student NOT in poster competition, Radar Imaging with MaxEnt for Manastash Ridge Radar
- IRRI-13**, Weijia Zhan, Student IN poster competition, June solstice equatorial spread F: On the role of weak vertical plasma drifts
- IRRI-14**, Robert Finan, Student NOT in poster competition, Zonal Structure in All Sky Images of Auroral Features
- IRRI-15**, Ryan McGranaghan, Non-student, Finding multi-scale connectivity in our geospace observational system: Network analysis of total electron content * Poster will be shown during MLT Poster Session*

Long Term Variations of the Ionosphere-Thermosphere

- LTVI-01**, Susan Nossal, Non-student, Observed increase in geocoronal hydrogen emissions
- LTVI-02**, Yamuna Phal, Student IN poster competition, Diurnal variation of atomic hydrogen density in the terrestrial upper atmosphere
- LTVI-03**, Eframir Franco-Diaz, Non-student, Spectral Analysis of the Neutral Wind Components over Arecibo based on Five Consecutive Years (2012-2017) of Fabry-Perot Observations
- LTVI-04**, Rong Tsai Lin, Student IN poster competition, The long-term trends in thermospheric mass density and ionospheric total electron content

MidLatitude Thermosphere or Ionosphere

- MDIT-01**, Kylee Branning, Student IN poster competition, Wind Field Plotting for Red and Green Line Scanning Doppler Imager Data
- MDIT-02**, Eliana Nossa, Non-student, Arecibo Observatory - HF facility and diagnostics
- MDIT-03**, Steven Brown, Student IN poster competition, Ionosonde-Based Indices for Improved Representation of Solar Cycle Variation in the International Reference Ionosphere Model
- MDIT-04**, Pedrina Santos, Non-student, The Arecibo Observatory Remote Optical Facility (AO-ROF) in Culebra Island, Puerto Rico: Current Status and Future Projects
- MDIT-05**, Pratik Joshi, Student IN poster competition, O-O⁺ momentum imbalance in the topside ionosphere: implications for bias in MSIS oxygen density specification
- MDIT-06**, Maimaitirebike Maimaiti, Student IN poster competition, Statistical Study of Nightside Quiet Time Subauroral Ionospheric Convection Observed by the North American Midlatitude SuperDARN Radars
- MDIT-07**, Kedeng Zhang, Student IN poster competition, Longitudinal structure in electron density at mid-latitudes: upward-propagating tidal effects
- MDIT-08**, Torfinn Johnsrud, Student IN poster competition, Helium Structure in the Upper Thermosphere
- MDIT-09**, Ningchao Wang, Student IN poster competition, Seeking Lagrangian Coherent Structures in Ionospheric Plasma Drift Flows

Magnetosphere-Ionosphere-Thermosphere Coupling

- MITC-01**, Meghan Burleigh, Student IN poster competition, Model-data comparison of neutral wind impacts on high-latitude ionospheric upflows
- MITC-02**, Jianqi Qin, Non-student, Magnetosphere-ionosphere-thermosphere coupling through H redistribution driven by geomagnetic storms
- MITC-03**, Tong Dang, Student IN poster competition, On the relation between soft electron precipitations in the cusp 1 region and solar wind coupling functions
- MITC-04**, Cheng Sheng, Student NOT in poster competition, Effects of SAPS on thermospheric wind and density during the 17 March 2013 storm

MITC-05, Yang Lu, Student IN poster competition, SAPS simulation with GITM_RCM coupled Model

MITC-06, Russell Landry, Student NOT in poster competition, Observations of the midlatitude trough and its relationship to subauroral ion drifts (SAID)

MITC-07, Agnit Mukhopadhyay, Student IN poster competition, Statistical Comparison of the Magnetopause Distance and CPCP for Global MHD Models

MITC-08, Yangyang Shen, Student IN poster competition, Low-altitude ion heating with downflowing and upflowing ions

MITC-09, Jiashu Wu, Student IN poster competition, Swarm Observation of Field-Aligned Currents in Multiple Arc System

MITC-10, Qingyu Zhu, Student IN poster competition, Impact of the electric field variability on the upper atmosphere during the geomagnetic storm

Planetary Studies

PLAN-01, Jeffrey Trovato, Non-student, Comparative Aeronomy: Molecular Ionospheres at Earth and Mars

PLAN-02, Emily Judd, Student IN poster competition, Using the Development Process of the Venus Global Ionosphere-Thermosphere Model to Understand the Importance of Planetary Attributes on Earth's Atmosphere

Polar Aeronomy

POLA-01, Robert Albarran, Student IN poster competition, Kinetic modeling of auroral ion Outflows observed by the VISIONS sounding rocket

POLA-02, Mark Conde, Non-student, Imaging Fabry-Perot Observations of Thermospheric Dynamics in Antarctica

POLA-03, Jiaen Ren, Student IN poster competition, Statistical Characteristics of Ionospheric Polar Cap Patches Observed by RISR-C

POLA-04, Manbharat Dhady, Non-student, Seasonal dependence of geomagnetic active time northern high-latitude upper thermospheric winds

POLA-05, Aaron Bunch, Student IN poster competition, Characterizing the Polar Topside Ionosphere

POLA-06, Geonhwa Jee, Non-student, Occurrence of ion upflow associated with ion/electron heating in the polar cap and cusp regions

- POLA-07**, Dongjie Guo, Student IN poster competition, Exploring the high-latitude thermosphere responses to IMF By reversal
- POLA-08**, Andrew Kiene, Non-student, Measuring F-region ion-neutral coupling in response to increases in auroral precipitation
- POLA-09**, Heqiucen Xu, Student IN poster competition, Thermospheric wind variations at substorm onset: Multi-event study using a Fabry-Perot interferometer at Tromsoe, Norway
- POLA-10**, Michael Ahrns, Student NOT in poster competition, High Resolution Case Studies of Giant Auroral Undulations
- POLA-11**, Robert Clayton, Student NOT in poster competition, Preliminary Data Analysis of ISINGLASS Campaign Launches

Solar Terrestrial Interactions in the Upper Atmosphere

- SOLA-01**, Gonzalo Cucho-Padin, Student IN poster competition, Tomographic estimation of exospheric hydrogen density distributions
- SOLA-02**, Alessandra Abe Pacini, Non-student, Studying the response of the low-ionosphere to solar Long Duration Gamma-Ray Flares (LDGRF)
- SOLA-03**, Timothy Kodikara, Student IN poster competition, Effects of Space Weather on the Estimation of Thermospheric Density
- SOLA-04**, Mariangel Fedrizzi, Non-student, Initial Validation of CTIPE Neutral Winds using GOCE Satellite Observations
- SOLA-05**, Xing Meng, Non-student, Ionosphere-thermosphere modeling in a forecastable mode: case study of the June 2012 geomagnetic storm
- SOLA-06**, Huan Song, Student NOT in poster competition, Statistical study of the traveling ionospheric disturbances generated by solar terminator based on Dynasonde data
- SOLA-07**, Magdalena Moses, Student NOT in poster competition, Analysis of the August 2017 Eclipse's Effect on Radio Wave Propagation Employing a Raytrace Algorithm