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**Equatorial Thermosphere or Ionosphere**

**EQIT-01**, Kassamba Abdel Aziz Diaby, Student IN poster competition, Estimating equatorial daytime vertical ExB drift velocities from magnetic field variations

**EQIT-02**, Jonathon Smith, Student IN poster competition, Global Distribution and Characteristics of Equatorial Plasma Bubbles

**EQIT-03**, Matthew Young, Student IN poster competition, Parametric Wave Growth in a Hybrid PIC/Fluid Simulation of the Equatorial E Region

**EQIT-04**, Tzu-Wei Fang, Non-student, Equatorial-PRIMO (Problems Related to Ionospheric Models and Observations)

**EQIT-05**, Tzu-Wei Fang, Non-student, Quantifying the sources of ionospheric Day-to-day variability

**EQIT-06**, Jiahao Zhong, Student IN poster competition, Long-duration depletion in the topside ionospheric total electron content during the recovery phase of the March 2015 strong storm

**EQIT-07**, Qingyu Zhu, Student IN poster competition, Simulations of vertical ion-drag effect on neutral winds and compositions at low and middle latitudes

**EQIT-08**, Arthur D. Richmond, Non-student, What drives the electrodynamics of the low-latitude evening ionosphere?

**EQIT-09**, Jong-Min Choi, Student NOT in poster competition, Periodicity in the occurrence of equatorial plasma bubbles

**EQIT-10**, Fasil Tesema Kebede, Student IN poster competition, Thermospheric wind and temperature measurements using Fabry-Perot Interferometers (FPI) at equatorial region of Ethiopia.

**EQIT-11**, Daniel J. Fisher, Student IN poster competition, Stormtime effects in the thermospheric neutral winds and temperatures over Brazil
EQIT-12, Pablo Reyes, Student NOT in poster competition, Probing the equatorial ionospheric valley region fluctuations with Jicamarca ISR and VIPIR ionosonde

EQIT-13, Dustin A. Hickey, Student IN poster competition, Airglow observations of the ionosphere from three imagers in South America

EQIT-14, Sovit Khadka, Student IN poster competition, Contribution of Neutral Wind and Electrojet to the Structural Dynamics of Equatorial Ionization Anomaly

Irregularities of Ionosphere or Atmosphere

IRRI-01, Victoriya V. Forsythe, Student NOT in poster competition, Asymmetries in the phase velocity of the E-region plasma irregularities at high southern latitudes

IRRI-02, Bea Gallardo-Lacourt, Student NOT in poster competition, Influence of auroral streamers on rapid evolution of SAPS flows

IRRI-03, Leslie J Lamarche, Student NOT in poster competition, Asymmetry in plasma irregularity growth near large-scale gradient reversals

IRRI-04, Tae-Yong Yang, Student NOT in poster competition, First report of the afternoon E-region plasma density irregularities in middle latitude

IRRI-05, Brian Breitsch, Student IN poster competition, Adaptive-Mesh Imaging of the Ionosphere

IRRI-06, YenChieh Lin, Student IN poster competition, Numerical modeling of metallic ion species Fe+, Mg+, and Na+ and studies of the layer structures in mid-latitude ionosphere.

IRRI-07, Goderdzi G. Didebulidze, Non-student, Formation and behavior sporadic E under the influence of atmospheric gravity waves

IRRI-08, Goderdzi G. Didebulidze, Non-student, Some properties of the TIDs and TADs by observation the oxygen red 630 nm line nightglow intensities from Abastumani

IRRI-09, Pei-yun Chiu, Student IN poster competition, Spatial and Temporal Variation of the FORMOSAT-3/COSMIC S4 scintillation index using Tidal Analysis

IRRI-10, Andrew Kiene, Student IN poster competition, Numerical modeling of equatorial spread F using observed neutral wind profiles


IRRI-12, Diana Loucks, Student IN poster competition, High-latitude GPS Scintillation from E Region Electron Density Gradients during the December 20, 2015 Geomagnetic Storm

IRRI-13, Yu Jiao, Student IN poster competition, Equatorial Amplitude Scintillation Spectrum Analysis and Fading Characteristics on GPS Signals

IRRI-14, Brandone Ernest Lance, Student IN poster competition, Meso-scale Flow Bursts in the High-Latitude Ionospheric Convection Pattern

IRRI-15, Weijia Zhan, Student IN poster competition, On the spectral features of atypical F-region echoes
**Data Assimilation or Management**

**DATA-01**, Stefan Codrescu, Student IN poster competition, Developing An Ensemble Kalman Filter for Data Assimilation in CTIPE

**DATA-02**, Michelle Salzano, Student IN poster competition, The Antarctic Geospace Data Portal

**DATA-03**, Chih-Ting Hsu, Student IN poster competition, ionospheric specification and forecast by ensemble assimilation of FORMOSAT-7/COSMIC-2 slant total electron content to a coupled model of thermosphere, ionosphere, and plasmasphere

**DATA-04**, Ryan M. McGranaghan, Student IN poster competition, Reconstruction of three-dimensional auroral ionospheric conductivities via an assimilative technique

**DATA-05**, Marcin Pilinski, Non-student, A New Assimilative Tool for Specifying Satellite Drag and Orbital Space Weather Conditions

**Instrumments or Techniques for Ionospheric or Thermospheric Observation**

**ITIT-01**, Geoff Crowley, Non-student, From DICE to DIME: An Evolution of CubeSat Based E-field Instrumentation

**ITIT-02**, Patrick Dandenaul, Student IN poster competition, Comparison of modeled meridional neutral winds using changes in hmF2 with neutral wind observations and other models

**ITIT-03**, Harrison W Bourne, Student NOT in poster competition, Improved Gradient Based TEC & Receiver Bias Estimation Using the Code Noise & Multipath Correction

**ITIT-04**, Magdalina Louise Moses, Student IN poster competition, Experiment Design to Assess Ionospheric Perturbations During the 2017 Total Solar Eclipse

**ITIT-05**, Marc A. Higginson-Rollins, Student IN poster competition, Diurnal Variation of LF Transmitter Signals at Many Locations

**ITIT-06**, Enrique Luis Alfonso Rojas Villalba, Student IN poster competition, Stochastic modeling of nonlinear dynamics in Farley-Buneman waves

**ITIT-07**, Anthony J. Mannucci, Non-student, Scientific inference in geophysics and implications for using numerical simulations in scientific investigations

**ITIT-08**, John Swboda, Student IN poster competition, Improvement of Resolution of Incoherent Scatter Radar Using Electronically Scanned Arrays and Inverse Theory

**ITIT-09**, Salih Mehmed Bostan, Student NOT in poster competition, Preliminary Results of an HF Software Defined Radar System to study D-Region Modification

**ITIT-10**, Jun Wang, Student IN poster competition, Ionosphere Remote Sensing Using Closely Spaced GNSS Arrays

**ITIT-11**, Shantanab Debchoudhury, Student NOT in poster competition, Effects of Additive Noise on Orbital Retarding Potential Analyzers

**ITIT-12**, Gareth Perry, Non-student, Broadband radio physics experiments at HF with e-POP RRI

**ITIT-13**, Kenneth Zia, Student IN poster competition, OPAL CubeSatellite Flight, Line of Sight Integration, and Atmospheric Modeling
ITIT-14, Bo Han, Student NOT in poster competition, Performance Evaluation of Radio Occultation Data Processing Software in Southeast Asia

ITIT-15, Robert Albarran, Student IN poster competition, Kinetic Model of the Auroral Ion Outflow as Observed by the VISIONS Sounding Rocket

ITIT-16, Carl Andersen, Student IN poster competition, Measuring Neutral Winds, Turbulence and Diffusion in the Lower Thermosphere with Multi-Point, Chemical-Release Sounding Rocket Payloads

ITIT-17, Kang-Hung Wu, Non-student, Reconstruction of the FORMOSAT-3/COSMIC electron density using empirical orthogonal function

ITIT-18, Yi Duann, Student IN poster competition, Photochemical model for atomic oxygen ion retrieval from ground-based observations of airglow

ITIT-19, Ting-Han Lin, Student IN poster competition, Improved Calibration Method for System Phase Bias of Chung-Li VHF Radar

ITIT-20, John Elliott, Student IN poster competition, Using a Geophysical Inversion with Tristatic Scanning Doppler Imagers

ITIT-21, Brian Harding, Student IN poster competition, Ground-based Thermospheric Wind Measurements: Sensitivity to Tropospheric Scattering

ITIT-22, Lee Joseph Kordella, Student IN poster competition, A new neutral wind sensor for nano-satellite platforms

ITIT-23, Jesse Kane McTernan, Student IN poster competition, A Space-based System for Investigating the Response of Stimulated Ionosphere

ITIT-24, Lindsay Victoria Goodwin, Student IN poster competition, Investigating the ion thermodynamics of the F region ionosphere

ITIT-25, Meghan Harrington, Student IN poster competition, Initial Results from the RENU2 Sounding Rocket

ITIT-26, Dev Raj Joshi, Student IN poster competition, Investigation of the Gravitational Rayleigh Taylor Instability (GRTI) growth rate factors of equatorial plasma bubble irregularities with oblique HF links

ITIT-27, Siddharth Krishnamoorthy, Student IN poster competition, Spacecraft communication through high density plasma in the D-region of the Ionosphere during reentry

ITIT-28, Julio Alberto Oscanoa, Student IN poster competition, MLT wind estimations obtained from specular and non-specular meteor trails at Jicamarca

ITIT-29, Charles Bussy-Virat, Student NOT in poster competition, Relationship between the drag parameters uncertainties and the orbital position uncertainties for LEO satellites

ITIT-30, Jonathan Parham, Student IN poster competition, ANDESITE: Multipoint Measurements of Small Scale Aurora Phenomena with CubSat Formations

**Long Term Variations of the Ionosphere-Thermosphere**

LTVI-01, Eunsol Kim, Non-student, Tomographic reconstruction of plasmaspheric electron density using JASON-1 plasmaspheric TEC measurements
LTVI-02, Steven Brown, Student IN poster competition, Investigation of Ionosonde-Based Indices for a Better Representation of Solar Cycle Variations in IRI

**MidLatitude Thermosphere or Ionosphere**

MDIT-01, Vicki Hsu, Student NOT in poster competition, Impact of Drag Effects on the Wind and Temperature Structure of the Upper Thermosphere

MDIT-02, Chih-Te Hsu, Student IN poster competition, Daytime Ion and Electron Temperatures in the Topside Ionosphere at Middle Latitudes

**Magnetosphere-Ionosphere-Thermosphere Coupling**

MITC-01, Yangyang Shen, Student IN poster competition, Statistical investigation of anisotropic ion temperature enhancements observed by the CASSIOPE/e-POP satellite

MITC-02, Yining Shi, Student IN poster competition, Using AMPERE data to understand and verify dayside neutral wind

MITC-03, Yun-Ju Chen, Student NOT in poster competition, Plasma and Convection Reversal Boundary Motions in the High Latitude Ionosphere

MITC-04, Nithin Sivas, Student IN poster competition, On the source of energetic electron precipitation during auroral substorms

MITC-05, Austin Sousa, Student IN poster competition, Global and Seasonal Assessments of Magnetosphere / Ionosphere Coupling via Lightning-Induced Electron Precipitation

MITC-06, Mariangel Fedrizzi, Non-student, Initial Storm Validation of the Ionosphere-Plasmasphere-Electrodynamics (IPE) Model

MITC-07, Boyi Wang, Student IN poster competition, Response of dayside aurora on closed field lines to solar wind driving

MITC-08, Jiashu Wu, Student IN poster competition, Field-aligned currents associated with multiple arc systems

MITC-09, Spencer Hatch, Student NOT in poster competition, IMF control of dayside Alfvénic activity in the magnetosphere-ionosphere transition region: FAST observations

MITC-10, Lucas David Hurd, Student IN poster competition, Effects of measurement resolution and the E-region neutral wind on estimating Joule heating rates in the high-latitude ionosphere/thermosphere

MITC-11, Joseph Jensen, Student IN poster competition, Can Particle Precipitation in the Ionosphere Affect the Magnetic Reconnection Rate?

MITC-12, Su-In Kim, Non-student, THEMIS, Van Allen Probes, and Super DARN observations of magnetospheric and ionospheric responses to the Sudden Commencement on Feb 16, 2013

MITC-13, Nicholas Perlongo, Student IN poster competition, Ring Current-Ionosphere Coupling: Self-consistent Aurora Validation
MITC-14, Jason Ahrns, Student NOT in poster competition, Characteristics of Equatorward Edge Auroral Waves

MITC-15, Hassan Akbari, Non-student, High Ion Temperature Events Observed by RISR: a Case Study

MITC-16, Xinzhao Chu, Non-student, Antarctic neutral Fe layers at thermospheric altitudes up to ~200 km and their correlations to geomagnetic storms and convection electric fields

MITC-17, Ying Zou, Non-student, Localized Field-aligned Currents in the Polar Cap Associated with Airglow Patches

MITC-18, Yang Lu, Student IN poster competition, Observations of Poynting flux in the dayside cusp region at different altitudes

MITC-19, Juha Vierinen, Non-student, High temporal resolution observations of auroral electron density using superthermal electron enhancement of Langmuir waves

**Planetary Studies**

PLAN-01, Chuanfei Dong, Student NOT in poster competition, Multifluid MHD study of the solar wind interaction with Mars' upper atmosphere during the 2015 March 8th ICME event

PLAN-02, Lynsey Schroeder, Student IN poster competition, Infrasonic Acoustic Wave Propagation in Terrestrial Planetary Atmospheres

PLAN-03, Liang Wang, Student NOT in poster competition, Multi-fluid moment simulation of Ganymede

PLAN-04, Jared Bell, Non-student, Examining the Magnetosphere-Ionosphere coupling processes in the thermospheres of Earth and Jupiter

PLAN-05, Jeremy Riousset, Non-student, Electrodynamics of the Martian dynamo region near magnetic cusps and loops

**Polar Aeronomy**

POLA-01, Changsup Lee, Non-student, Polar thermospheric winds and temperature observed by Fabry-Perot Interferometer at Jang Bogo Station, Antarctica

POLA-02, Meghan Burleigh, Student IN poster competition, Anisotropic fluid modeling of the VISIONS sounding rocket campaign

POLA-03, Burcu Kosar, Non-student, Analysis of near real-time citizen science observations to validate model predictions of auroral visibility

POLA-04, Riley Troyer, Student IN poster competition, High Altitude Antarctic Winds

POLA-05, Maimaitirebike Maimaiti, Student NOT in poster competition, Dynamics of Ionospheric Plasma Convection Under Extreme Northward IMF Conditions

POLA-06, Manbharat Singh Dhadly, Non-student, Seasonal dependence of high latitude upper atmospheric winds: A climatological study based on ground and space based instruments
POLA-07, Jeong-Young Ji, Non-student, General-moment-equation approach to the Coulomb-Milne problem

Solar Terrestrial Interactions in the Upper Atmosphere

SOLA-01, Andrea Hughes, Student IN poster competition, Variability of the F-region ionosphere with solar activity

SOLA-02, Eun-Young Ji, Non-student, Comparison of IRI-2012 with JASON-1 TEC and incoherent scatter radar observations during the 2008-2009 solar minimum period

SOLA-03, Susan M. Nossal, Non-student, Observed increase in the Wisconsin northern hemisphere hydrogen emission data set

SOLA-04, Nuri Emrahoglu, Non-student, Geocoronal Balmer-alpha hydrogen emission observations made with the Turkish Dual Etalon Fabry-Perot Spectrometer (DEFPOS)

SOLA-05, Justin Yonker, Student NOT in poster competition, Improving Simulations of Odd Nitrogen in the Upper Atmosphere

SOLA-06, Ji-Hee Lee, Non-student, The relationship between high-speed solar wind streams and NO concentration in the upper mesosphere and thermosphere

SOLA-07, Derek Gardner, Student NOT in poster competition, Geocoronal fine-structure cascade excitation constraints for ground-based observations

SOLA-08, Liam Kilcommons, Student NOT in poster competition, Unifying DMSP Space Weather Observations: Field-Aligned Currents (FACs) and Electron Energy Flux organized with respect to IMF orientation and the Central Plasma Sheet Aurora