

21 June 2006 Wednesday 4-7 PM CEDAR Poster Session #1

(33 of 75 posters in competition on Ionosphere/Thermosphere, Long-Term Variations, Solar-Terrestrial Interactions, Polar Aeronomy, Irregularities)

ITIT	Instruments or Techniques for Ionospheric or Thermospheric Observation (7 of 19 posters in competition)
LTRV	Long-Term Variations of the Upper Atmosphere (3 of 10 posters in competition)
SOLA	Solar Terrestrial Interactions in the Upper Atmosphere (6 of 11 posters in competition)
DASS	Data Assimilation (0 of 2 posters in competition)
POLA	Polar Aeronomy (2 of 9 posters in competition)
MDIT	Midlatitude Ionosphere or Thermosphere (7 of 8 posters in competition)
EQIT	Equatorial Ionosphere or Thermosphere (4 of 8 posters in competition)
IRIA	Irregularities of the Ionosphere or Atmosphere (4 of 8 posters in competition)

Instruments or Techniques for Ionospheric or Thermospheric Observation

- **ITIT-01**, Asti Bhatt, Conjugate photoelectron effects on gyro line and plasma line observed at Arecibo, Student IN poster competition, PhD
- **ITIT-02**, D. Jay Murray, Comparing Measured Altitude Profiles of N₂ Lyman-Birge-Hopfield Band Emissions with Model Calculations, Student NOT in poster competition, PhD
- **ITIT-03**, Ryan Seal, The Digital Receiver based Data-Taking and Display System at the Arecibo Observatory, Non-student, Masters, presented by Michael Suzer
- **ITIT-04**, Glynn Germany, CHIRP: Coordinated High-Resolution Ionospheric Receiver Project , Non-student
- **ITIT-05**, Lloyd Rochester, A Digital Receiver for Meteor Radar Applications, Student IN poster competition , Masters
- **ITIT-06**, Jorge Chau, Electron Density Estimates from Absolute ISR Power at Jicamarca: Preliminary Results, Student NOT in poster competition, presented by Karim Kuyeng
- **ITIT-07**, Duggirala Pallamraju, Investigations of daylit low-energy auroral arcs from Sondrestromfjord, Non-student
- **ITIT-08**, Jeffrey Klenzing, Laboratory Validation of the Ram Wind Sensor for the CINDI Mission of Opportunity, Student IN poster competition, PhD
- **ITIT-09**, Russell Hedden, Variation of twilight low-latitude 732-nm observations with magnetic activity, Student IN poster competition , Undergraduate
- **ITIT-10**, Marcos Diaz, Simulation of the Incoherent Scattering Radar Spectrum in the Auroral Ionosphere, Student NOT in poster competition, PhD
- **ITIT-11**, Mrinal Singh Balaji, Implementation of novel radar modulations on the SuperDARN, Student NOT in poster competition, Masters
- **ITIT-12**, Marco Antonio Milla, Simulations of electron Coulomb collisions under the presence of a DC magnetic field for ISR applications, Student IN poster competition , PhD
- **ITIT-13**, Paloma Farias Guterrez, AO SAS Instrumentation Overview, Student NOT in poster competition, PhD
- **ITIT-14**, Johannes Wiig, AO SAS Instrumentation Overview, Student NOT in poster competition, PhD
- **ITIT-15**, Romina Nikoukar, A New Amplitude Modulation Technique for F-Region Incoherent Scatter Measurements, Student IN poster competition , PhD

- **ITIT-16**, Craig Heinselman, Real Time Interaction with Poker AMISR, Non-student
- **ITIT-17**, John Byrnes, Optical flow studies of the aurora, Student IN poster competition, Masters
- **ITIT-18**, Jonathan J Makela, Characterization of two new miniaturized ionospheric imaging systems, Non-student
- **ITIT-19**, trevor james harris, Implications of O-X mode interference on large HF receive arrays, Non-student

Long-Term Variations of the Upper Atmosphere

- **LTRV-01**, Ruben Delgado, Characteristics of Mesospheric Sporadic Potassium and Iron Atom Layers Over the Arecibo Observatory, Student IN poster competition , PhD
- **LTRV-02**, Tzu-Wei Fang, Seasonal Variations of the Equatorial Ionization Anomaly - GPS Observations and Model Results, Student IN poster competition, PhD
- **LTRV-03**, Jose Fernandez, Retrieve of topside parameters from ISR spectrum using Genetic Algorithms, Non-student, PhD
- **LTRV-04**, Selena Coats, Thermosphere Response to Magnetic Activity: Dependences on Latitude, Season, and Solar Cycle, Student IN poster competition, PhD
- **LTRV-05**, Rick Niciejewski, The Themosphere Ionosphere Doppler Interferometer (TIDI): contributions from the first 4 1/2 years in orbit, Non-student
- **LTRV-06**, Elizabeth Kendall, Solar cycle variations of F-layer electron density and ion temperature measured by the Sondrestrom incoherent scatter radar, Non-student
- **LTRV-07**, Susan Marcelle Nossal, Solar Cycle Influences Seen in Ground-based Geocoronal Hydrogen Measurements, Non-student
- **LTRV-08**, Pedrina Terra Santos, Study of the meridional neutral winds behavior obtained by the Incoherent Scattering Radar in Arecibo Observatory., Non-student, PhD
- **LTRV-09**, Christiano Garnett M Brum, Quasi-biannual periodicity detected in the cosmic noise absorption registers over sub-auroral region, Student NOT in poster competition , PhD
- **LTRV-10**, Christiano Garnett Brum, Neutral Wind Velocity behavior with the solar cycle Over Arecibo, Non-student, PhD, presented by Eva Robles

Solar Terrestrial Interactions in the Upper Atmosphere

- **SOLA-01**, Alessandro Cerruti, Observed Solar Radio Burst Effects on GPS/WAAS Carrier-to-Noise Ratio, Student NOT in poster competition, PhD
- **SOLA-02**, Amanda Johnson, Day-to-day Variability of the E-layer, Student IN poster competition , Undergraduate
- **SOLA-03**, Takuya Tsugawa, Study of Sudden Increases in Total Electron Content Induced by Solar Flares Using Observations and Models, Non-student, PhD
- **SOLA-04**, Xiaohua Fang, Quantification of global 30-240 keV proton precipitation pattern change in the 17-18 April 2002 storms, Non-student
- **SOLA-05**, Xiaoni Wang, The short-term relationship between the equatorial peak electron density and the solar irradiance , Student IN poster competition , PhD
- **SOLA-06**, David John Pawlowski, Global model simulations using the TIMED solar EUV experiment, Student IN poster competition , PhD
- **SOLA-07**, Amita Muralikrishna, Looking for Rules in Geomagnetic Storm Occurrence Using the Decision Tree Technique, Student IN poster competition , Masters
- **SOLA-08**, Pablo M. Reyes, Study of a X17 solar flare effects observed over Jicamarca on Sep 07 2005, Student IN poster competition , Masters

- **SOLA-09**, Michael J. Holliday, Modeling Sudden Impulse Events in the High Latitude Ionosphere, Non-student, Masters, presented by Simon Shepherd
- **SOLA-10**, Maria M Kuznetsova, Community Coordinated Modeling Center Support of the CEDAR Science Campaigns, Non-student
- **SOLA-11**, Eric Sutton, Thermospheric Density Response from Solar Flares, Student IN poster competition , Masters

Data Assimilation

- **DASS-01**, Gary Bust, Recent Result from Ionospheric Data Assimilation Three-Dimensional (IDA3D), Non-student
- **DASS-02**, Geonhwa Jee, Continual initialization of a coupled thermosphere-ionosphere forecast model by an ionospheric data assimilation model, Non-student

Polar Aeronomy

- **POLA-01**, Larry Gardner, Three-Dimensional High-Resolution Storm-Time Simulation of the Ion and Neutral Polar Winds, Non-student, PhD
- **POLA-02**, Yue Deng, The role of vertical ion convection in the high-latitude ionospheric plasma distribution, Student NOT in poster competition, PhD
- **POLA-03**, Kelly Ann Drake, A Comparison of the Cross Polar Cap Potential Drop During Steady State versus Non-Steady State During Southward IMF Conditions, Student IN poster competition, PhD
- **POLA-04**, Tomoko Matsuo, Multi-resolution analysis of aurora images, Non-student
- **POLA-05**, Eric Schoen Johnson, Contributions of Spatial and Temporal Ion Drift Variability to the Joule Heating Rate during Southward IMF, Student NOT in poster competition, PhD
- **POLA-06**, Eric M Lundell, Development of Resonance Lidar for Studying the Auroral Thermosphere, Student IN poster competition, PhD
- **POLA-07**, Qian Wu, Neutral Atmosphere dynamics: A Fabry Perot Interferometer at Concordia, Non-student
- **POLA-08**, John W. Meriwether, Plans for ion-neutral coupling studies utilizing the Alaskan Fabry-Perot Interferometer network and the AMISR radar, Non-student
- **POLA-09** (displayed with IRIA-06) - Parametric dependence of electric field variability in the Sondrestrom data base: a linear relation with Kp by Russell Cosgrove, Non-student

Midlatitude Ionosphere or Thermosphere

- **MDIT-01**, Nobuki Kotake, Statistical study of medium-scale traveling ionospheric disturbances observed with GPS networks in Japan and Southern California, Student IN poster competition , PhD
- **MDIT-02**, Tanya Rae Phillips, Data and Model Comparison of the Neutral Temperature and Composition Based on Incoherent Scatter Radar, Student IN poster competition, Undergraduate
- **MDIT-03**, Steve Watchorn, Studies of Neutral Oxygen via Bowen Fluorescence using Spatial Heterodyne Spectroscopy, Non-student, PhD
- **MDIT-04**, Michael Nicolls, Measurements and Modeling of the Daytime Molecular Ion Composition in the F1 Region over Arecibo, Student IN poster competition , PhD
- **MDIT-05**, Preeti Bhaneja, Midlatitude Spread F, Student IN poster competition
- **MDIT-06**, Sasmita Mohapatra, The Behavior of Ionospheric Zonal Ion Drifts at Middle Latitudes, Student IN poster competition , PhD

- **MDIT-07**, Dorey Joseph Livneh, Thermospheric Waves Over Arecibo, Student IN poster competition, PhD
- **MDIT-08**, ILGIN SEKER, Categorization of the Events Observed by the Penn State Allsky Imager at Arecibo Observatory, Student IN poster competition , PhD

Equatorial Ionosphere or Thermosphere

- **EQIT-01**, Esayas Shume, Zonal winds inferred from height varying type I and II echoes at Jicamarca, Student NOT in poster competition, PhD
- **EQIT-02**, Jyoti R Nair, Role of thermospheric meridional winds on the occurrence/non-occurrence of equatorial spread F , Student IN poster competition , PhD
- **EQIT-03**, Ethan S Miller, Coordinated space- and ground-based observation of equatorial spread-F in the central Pacific, Student IN poster competition, PhD
- **EQIT-04**, Marcio Muella, Simultaneous GPS Measurements of TEC, Scintillation and Ionospheric Irregularities Zonal Drift Velocity at Equatorial and Low-Latitude Regions, Student NOT in poster competition, PhD
- **EQIT-05**, Michael Faivre, A new approach to the observations of equatorial thermospheric dynamics, Non-student, PhD
- **EQIT-06**, Carlos Martinis, Imaging studies of ionospheric irregularities near the Arecibo conjugate point, Non-student, PhD
- **EQIT-07**, Sung Hong Park, Retrieval of the Plasma Drift Velocity through Image Processing, Student IN poster competition, Undergraduate
- **EQIT-08**, Edgardo E. Pacheco, Analysis of the Response of Vertical Drifts to Geomagnetic Activity at Equatorial Latitudes During Storm-time Periods Using DMSP and ROCSAT Data, Student IN poster competition, Masters

Irregularities of the Ionosphere or Atmosphere

- **IRIA-01**, Caroline Yount, Occurrence frequency of convective rolls in the mesopause and lower thermosphere region, Student IN poster competition, Undergraduate
- **IRIA-02**, Anthony Musumba Mwene, F region Ionospheric Density Irregularities from DE-2 Observations at Low and Midlatitudes, Student IN poster competition, PhD
- **IRIA-03**, Natalia A Gondarenko, A Theory for Polar Cap Patch Formation, Non-student, presented by Parvez Guzdar
- **IRIA-04**, Chen Chen, Statistics discrete charging model for active perturbation of plasma irregularities associated with charged dust in the summer polar mesosphere, Student IN poster competition , PhD
- **IRIA-05**, Josef Drexler, Combined radar observations of equatorial electrojet irregularities at Jicamarca, Non-student
- **IRIA-06**, Russell Cosgrove, Spontaneous generation of 100-km-scale midlatitude electric fields by a sporadic E layer, and the effect on the F layer, Non-student
- **IRIA-07**, Kuo-Feng Yang, A study of Frozen-in property of Field-aligned Irregularities in Ionospheric Sporadic E region using Chung-Li VHF Radar, Student NOT in poster competition, PhD
- **IRIA-08**, Erin H Lay, Implications for Ionospheric Electron Densities from Local Time Variation in Lightning Activity as Measured by the World Wide Lightning Location Network, Student IN poster competition, PhD