CEDAR Poster Session #2 – Thursday, 19 June 2008, 4-7 pm

(24 of 76 posters in competition)

ITIT	Instruments or Techniques for Ionosphere or Thermosphere Observation (1 of 15 posters in competition)
LTRV	Long Term Variations of the Upper Atmosphere (0 of 6 posters in competition)
SOLA	Solar Terrestrial Interactions in the Upper Atmosphere (6 of 13 posters in competition)
POLA	Polar Aeronomy (7 of 17 posters in competition)
MDIT	Midlatitude Ionosphere or Thermosphere (4 of 11 posters in competition)
EQIT	Equatorial Ionosphere or Thermosphere (8 of 14 posters in competition)

Instruments or Techniques for Ionosphere or Thermosphere Observation

- **ITIT-01**, James Clemmons, Paired Ionosphere-Thermosphere Orbiters (PITO): A general-purpose science mission with high capability, Non-student
- **ITIT-02**, Cheng-Yung Huang Latitudinal Variation of High latitude Localized Neutral Density for Quiet Geomagnetic Conditions, Non-student
- **ITIT-03**, John Meriwether, Plans for ion-neutral coupling studies utilizing the Alaskan Fabry-Perot Interferometer network and the AMISR radar, Non-student
- **ITIT-04**, Edwin J Mierkiewicz A multi-line investigation aimed at deriving hydrogen densities in the upper atmosphere, Non-student
- **ITIT-05**, Serge Minin, Alignment of a remote all-sky triple-etalon Doppler imaging system: techniques and challenges, Student NOT in poster competition Masters
- **ITIT-06**, Dominik Pilinski, Analysis of a Novel Approach for Determining Atmospheric Density from Satellite Drag, Student IN poster competition PhD
- **ITIT-07**, Rob Redmon NGDC Ionosonde Program, Student NOT in poster competition PhD
- **ITIT-08**, Steve Mende, presented by Tom Immel, Neutral Ion Coupling Explorer (NICE) – a NASA SMall Explorer Mission, Non-student
- **ITIT-09**, Christopher Watts, Modeling Ionospheric Effects for the LWA, Non-student
- **ITIT-10**, K. F. Dymond, presented by L. J Rickard, The Combined Radio Interferometry and COSMIC Experiment in Tomography (CRICkET) Campaign, Non-student
- **ITIT-11**, Nick Zabotin, Principles of Dynasonde Data Acquisition and Processing, Non-student
- **ITIT-12**, Nick Zabotin, Spatial Effects of Multiple Scattering of HF Signals in the Ionosphere: Theory and Experiment, Non-student
- **ITIT-13**, Shaun Armstrong, Observing the coupling of ionospheric irregularities and thermospheric neutral dynamics using Fabry-Perot observatories: a new approach, Student NOT in poster competition Masters
- **ITIT-14**, Richard Todd Parris, Recent Upgrades to the Kodiak Island SuperDARN Radar, Student NOT in poster competition PhD
- **ITIT-15**, Jeffrey Spaleta, Enhanced Line of Sight Velocity Analysis Using an Aperiodic Pulse Sequence on the Kodiak and King Salmon Radars, Non-student

Long Term Variations of the Upper Atmosphere

- **LTRV-01**, Christiano Garnett Marques Brum, Solar cycles and geomagnetic variability of nighttime topside hydrogen, oxygen and helium ion fractions over Arecibo, Non-student PhD
- **LTRV-02**, Eva Robles, presented by Ethan Engle Solar, geomagnetic and seasonal variability of the NmF2 and foF2 over Arecibo Observatory, Non-student
- **LTRV-03**, Goderdzi Didebulidze, presented by Nikoloz Gudadze, The long-term changes in the red 630.0 nm line nightglow intensity as an indicator of the dynamical changes in the upper atmosphere and decrease in the neutral gas density, Non-student
- **LTRV-04**, Susan Nossal, Investigation of Solar Cyclic and Climatic Influences on Geocoronal Hydrogen, Non-student
- **LTRV-05**, John Noto, H-alpha Observations using Arecibo's new low resolution FPI, Non-student
- **LTRV-06**, Barbara Emery, Solar Wind Structure Sources and Periodicities of Global Electron Hemispheric Power over Three Solar Cycles, Non-student

Solar Terrestrial Interactions in the Upper Atmosphere

- **SOLA-01**, Ariel Acebal, Extending F10.7's Time Resolution to Capture Solar Flare Phenomena - by, Student IN poster competition PhD
- **SOLA-02**, Seebany Datta-Barua, Deriving Neutral Winds from Global 4-D Electron Density Fields, Non-student
- **SOLA-03**, Kelly Ann Drake, Properties of the Ionospheric Signature of the Low-latitude Boundary Layer During Periods of Southward IMF, Student NOT in poster competition PhD
- **SOLA-04**, Jiuhou Lei, Periodic Modulation of the Thermosphere by Solar Wind, Non-student
- **SOLA-05**, Anthony Mannucci, Local time dependence of the prompt ionospheric response for the November 2004 superstorms, Non-student
- **SOLA-06**, Brady O'Hanlon, GPS and Solar Radio Burst Forensics, Student IN poster competition PhD
- **SOLA-07**, David Pawlowski, Modeling the thermospheric response to solar flares, Student IN poster competition PhD
- **SOLA-08**, Liying Qian, Thermospheric and Ionospheric Response to Solar Flare Events, Non-student
- **SOLA-09**, Kate Roach, Altitude Dependence of Thermospheric Winds in HWM07, Student IN poster competition Undergraduate
- **SOLA-10**, Eric Sutton, Latitudinal Response of Thermosphere Density to High-Latitude Heating, Non-student
- **SOLA-11**, Wenbin Wang, Storm-Time Comparisons of CMIT Results with GPS Data, Non-student
- **SOLA-12**, Justin Yonker, Fluorescence and Photodissociation of Nitric Oxide near 191 nm, Student IN poster competition PhD
- **SOLA-13**, Marcos Diaz, Particle-In-Cell Simulation of Naturally Enhanced Ion Acoustic Lines Produced by an Electron Beam, Student IN poster competition PhD

Polar Aeronomy

- **POLA-01**, Robert Michell, High-resolution PFISR observations of NEIALs and associated auroral fine structures, Student NOT in poster competition PhD
- **POLA-02**, Mark Conde, New results from the Poker Flat all-sky imaging Fabry-Perot spectrometer, Non-student
- **POLA-03**, Callum Anderson, presented by Mark Conde, Thermospheric Studies in Antarctica Using Fabry-Perot Spectrometers at Mawson and Davis Stations, Student NOT in poster competition PhD
- **POLA-04**, Shaun Cooper, presentd by Mark Conde, Preliminary results of wave generation from a local scale thermospheric model, Student NOT in poster competition PhD
- **POLA-05**, Thomas Butler, Volumetric imaging of the auroral ionosphere, Student NOT in poster competition PhD
- **POLA-06**, Jose Fernandez, Storm/Quiet Ratio Comparisons Between TIMED/SABER NO+(v) Volume Emission Rates and Incoherent Scatter Radar Electron Densities at E-Region Altitudes, Non-student
- **POLA-07**, Jeffrey Holmes, The Velocity Filter Effect Observed in Cusp Proton Aurora, Student IN poster competition PhD
- **POLA-08**, Irfan Azeem, Multi-instrument observations of dayside auroral emission dynamics at South Pole, Non-student
- **POLA-09**, Hamed Bekerat, Electron Precipitation Parameters and Ionospheric Conductances Inferred From Auroral Images Acquired by the Visible Imaging System (VIS)on the Polar Spacecraft, Non-student
- **POLA-10**, Christopher Fallen, Temporal evolution of the reflection height in response to HF heating in the polar ionosphere, Student IN poster competition PhD
- **POLA-11**, Travis Gaulden, Observations of auroral-region energy dissipation by Joule heating as a function of spatial scale size, Student NOT in poster competition PhD
- **POLA-12**, Peichen Lai, New Hardy Auroral Flux Model for Driving TIEGCM, Student IN poster competition PhD
- **POLA-13**, Erik Lundberg, Plasma Wave and Particle Observations in a post Substorm Quiet Auroral Ionosphere, Student IN poster competition PhD
- **POLA-14**, Astrid Maute, Influence of Spatial Structure of High-Latitude Joule Heating on Thermospheric Composition, Non-student
- **POLA-15**, Qian Wu, Resolute Optical Observation Current status and Future Plan, Non-student
- **POLA-16**, Matt Zettergren, Optical estimation of auroral ion upflow: A case study, Student NOT in poster competition PhD
- **POLA-17**, Shasha Zou, Imaging ionospheric azimuthal flow bursts and the relationship to aurora using PFISR, Student IN poster competition Masters

Midlatitude Ionosphere or Thermosphere

- **MDIT-01**, Stanley Briczinski, SHS Observations of O+: Initial Results, Non-student
- **MDIT-02**, Alan Burns, The behavior of the F2 peak ionosphere over the South Pacific at dusk during quiet summer conditions from COSMIC data, Non-student
- **MDIT-03**, Joseph Grebowsky, Radiation Belt Storm Probes Mission – An IT Community Asset?, Non-student
- **MDIT-04**, Xiaoli Luan, Mid-latitude nighttime enhancement in F-region electron density from global COSMIC measurements under solar minimum winter condition, Non-student
- **MDIT-05**, Clara Narvaez, Ionospheric Storms at a Sub-Auroral Location in the Southern Hemisphere, Non-student
- **MDIT-06**, Michi Nishioka, Super Medium-Scale Traveling Ionospheric Disturbance observed at mid-latitude during the geomagnetic storm on November 10, 2004, Student IN poster competition PhD
- **MDIT-07**, Phil Richards, Backscattered fraction of precipitating ionospheric photoelectrons, Non-student
- **MDIT-08**, Ilgin Seker, Clues to the properties of medium scale traveling ionospheric discurbances, Student IN poster competition PhD
- **MDIT-09**, David Voglozin, The Aeronomy of N2+ in the Earth's Ionosphere, Student IN poster competition PhD
- **MDIT-10**, Steven Watchorn, Initial Spatial Heterodyne Spectrometer observations of neutral oxygen emission at 844.6 nm over Millstone Hill, Non-student
- **MDIT-11**, Preeti Bhaneja, Midlatitude spread F, Student IN poster competition PhD

Equatorial Ionosphere or Thermosphere

- **EQUI-01**, Shawn Adderly, Comparison of Coherent Backscatter and Airglow Images from Equatorial Plasma Depletion, Student IN poster competition Undergraduate
- **EQIT-02**, Narayan Chapagain, Simultaneous Observations of Equatorial Ionospheric Plasma Bubbles from Two Sites during the SpreadFEx Campaign, Student IN poster competition PhD
- **EQIT-03**, Jonathan Krall, Three-Dimensional Simulation of Equatorial Spread-F with Meridional Winds, Non-student
- **EQIT-04**, Akshay Malhotra, Effect of meteor ionization on Sporadic-E observed at Jicamarca, Student IN poster competition
- **EQIT-05**, Fabiano Rodrigues, Coherent scatter radar imaging observations of equatorial spread F in Brazil, Non-student
- **EQIT-06**, Yann Tambouret, Massively Parallel Simulations of Gradient Drift Waves in the E-region Ionosphere, Student IN poster competition PhD
- **EQIT-07**, Patrick Alken, Estimating electric fields in the equatorial ionosphere from CHAMP observations, Student IN poster competition PhD
- **EQIT-08**, Tzu-Wei Fang, Wind dynamo effects on ground magnetic perturbation and vertical drifts, Student IN poster competition PhD
- **EQIT-09**, Freddy Galindo, presented by Karim Kuyeng, Improved E-region electron density and meridional wind measurements over Jicamarca using multi-static configurations, Non-student
- **EQIT-10**, Carlos Martinez, 630.0 nm airglow observations at mid-latitudes, Non-student
- **EQIT-11**, Naomi Maruyama, Low Latitude Storm Time Electric Fields and their Role in the Coupled Thermosphere-Ionosphere Plasmasphere System, Non-student
- **EQIT-12**, Edgardo Pacheco, Variability of Zonal Ion Drifts During Storm-Times at Equatorial Latitudes, Student IN poster competition PhD
- **EQIT-13**, Nicholas Pedatella, Longitudinal Structure of the Low-Latitude F-Region Ionosphere, Student IN poster competition PhD
- **EQIT-14**, Pedrina Terra, Altitude Variation of the OII 7320Å spectral line width at Arecibo, Non-student