CEDAR Poster Session #2 – Tuesday, 30 June 2009, 4-7 pm

(39 of 96 posters in competition)

SOLA Solar Terrestrial Interactions in the Upper Atmosphere (6 of 17 posters in competition)

ITIT Instruments or Techniques for Ionosphere or Thermosphere Observation (10 of 30 posters in competition)

DATA Data Assimilation (0 of 4 posters in competition)

EQIT Equatorial Ionosphere or Thermosphere (9 of 21 posters in competition)

LTRV Long Term Variations of the Upper Atmosphere (0 of 2 posters in competition)

MDIT Midlatitude Ionosphere or Thermosphere (9 of 15 posters in competition)

POLA Polar Aeronomy (5 of 7 posters in competition)

Solar Terrestrial Interactions in the Upper Atmosphere

SOLA-01, Kelly Ann Drake, High-latitude Poynting flux observations during the solar and geomagnetic activity in September 2005, Non-student

SOLA-02, David Gerhardt, Colorado Student Space Weather Experiment (CSSWE): In-situ Measurements of Solar Energetic Particles, Student IN poster competition PhD

SOLA-03, Barbara Emery, Solar Forcing of Electron and Ion Auroral Inputs, Non-student

SOLA-04, Yvonne Rinne, Stratification of newly reconnected flux in the polar cap ionosphere, Student IN poster competition PhD

SOLA-05, David Pawlowski, An investigation into the effect of solar flares on the thermosphere, Student IN poster competition PhD

SOLA-06, Mariangel Fedrizzi, Variability and climatology of the upper atmosphere during IPY using CTIPe physical-model, Non-student

SOLA-07, Ellen Pettigrew, A Statistical Model of Ionospheric Convection in the Southern Hemisphere, Student IN poster competition Masters

SOLA-08, Delores Knipp, Enhanced Thermospheric Density: The Roles of In-the-Ecliptic and Northward Interplanetary Magnetic Field, Non-student

SOLA-09, Chin Lin, Occurrence of High Latitude Neutral Density Peaks, Non-student

SOLA-10, Katherine Roach, Variation of the Vertical Thermospheric Wind Gradients, Student IN poster competition PhD

SOLA-11, Xiaoli Luan, Seasonal and hemispheric variations of the total auroral precipitation energy flux from TIMED/GUVI, Non-student

SOLA-12, Justin Yonker, Fluorescence of the N2 Birge-Hopfield I System in the Thermospheric Dayglow, Student IN poster competition PhD

SOLA-13, Tomoko Matsuo, Principal modes of thermospheric density variability: empirical orthogonal function analysis of CHAMP 2001-2008 data, Non-student

SOLA-14, Xianjing Liu, Altitude dependence of the thermospheric density response to the solar and geomagnetic forcing, Student NOT in poster competition PhD

SOLA-15, Yong Shi, Tail and ionospheric signatures of tail fast flows associated with PBIs and with Substorms, presented by Larry Lyons, Non-student

SOLA-16, Russell Stoneback, Effective Aperture Behavior of Open Magnetic Field Lines in the Geospace Environment and on the Sun, Non-student

SOLA-17, Serge Minin, Fabry-Perot measurements of H-alpha emissions at Arecibo observatory during geomagnetic storms, Student NOT in poster competition PhD

Instruments or Techniques for Ionospheric or Thermospheric Observation

ITIT-01, Serge Minin, Uncertainties in extracted Gaussian emission line parameters: measurement setup choices in Doppler spectroscopy with continuum background, Student IN poster competition PhD

ITIT-02, Alexander Hackett, Multi-purpose Radar Controller, Student IN poster competition Undergraduate

ITIT-03, Benjamin Burnett, Statistical analysis of high-latitude F-region ionospheric composition , Student NOT in poster competition Undergraduate

ITIT-04, Gary Bust, Validation of IDA4D estimates of F-region electron densities using CHAMP in-situ and ground-based ionosonde observations of electron density, Non-student

ITIT-05, Eli Hibit, Numerical Predictions on Mid-Latitude Ionospheric Locations, Student IN poster competition PhD **ITIT-06**, Hugh Gallagher, The NorthEast CIDR Array: A new chain of ionospheric tomography receivers for studying the

equatorward edge of the auroral oval and the mid-latitude trough, presented by Allen Weatherwax, Non-student

ITIT-07, Trevor Garner, An Auroral Scintillation Observation using Precise Collocated GPS Receivers, Non-student

ITIT-08, Ayman Mahrous, The First Result of Coherent Ionospheric Doppler Receiver Measurements over Egypt, presented by Trevor Garner, Non-student

ITIT-09, Stephen Bayne, Observations of the auroral electrojet plasma using UHF/VHF radio beacon measurements, Student NOT in poster competition Undergraduate

ITIT-10, Ryan Davidson, Development, Simulations, and Validations of CubeSat Retarding Potential Analyzer, Student NOT in poster competition Masters

ITIT-11, Konstantinos Kalogerakis, Remote Oxygen Sensing by Ionospheric Excitation (ROSIE), Non-student

ITIT-12, Patrick Roddy, Initial Electron Temperature Results from the Planar Langmuir Probe on C/NOFS, Non-student

ITIT-13, Lei Zhang, Robust GPS Signal Tracking under Ionosphere Scintillation, Student IN poster competition PhD

ITIT-14, Cesar De La Jara, The LISN database: Description and initial results, Student NOT in poster competition Undergraduate

ITIT-15, Brady O'Hanlon, First Observations of Equatorial TEC and Scintillation with Multiple Dual-Frequency Software-Defined GPS Receivers, Student IN poster competition PhD

ITIT-16, Jeffrey Spaleta, Application of Bayesian Spectral Analysis to SuperDARN ACF Data, Non-student

ITIT-17, Richard Todd Parris, Imaging with the Kodiak Island SuperDARN HF Radar, Student IN poster competition PhD

ITIT-18, Rabiano Rodrigues, Simultaneous radar measurements of daytime zonal and vertical plasma drifts in Peru and Brazil, Non-student

ITIT-19, Fabiano Rodrigues, An alternative approach for estimating E-region density profiles from GPS radio occultation measurements, Non-student

ITIT-20, Romina Kiloukar, Amplitude modulation for Arecibo F-region ISR experiments, Student NOT in poster competition PhD

ITIT-21, Marcin Pilinski, Understanding Biases in Atmospheric Density Derived from Satellite Drag, Student IN poster competition Masters

ITIT-22, Steven Burr, Advanced techniques of tomographic reconstruction algorithms for observing the night time ionospheric air glow, Student NOT in poster competition

ITIT-23, Andres Stephan, RAIDS: A New Mission for Ionospheric and Lower Thermospheric Science, Non-student

ITIT-24, Matthew Sunderland, Design of a Digital Pulsed Radar Receiver: Increasing Aeronomy Observation Bandwidth at Arecibo Observatory, Student IN poster competition Undergraduate

ITIT-25, Sandeep Anna Kor, Optimization of GC314 Digital Receiver, Student NOT in poster competition Masters

ITIT-26, Padmashri Suresh, Estimation of Langmuir Probe Currents in the event of Surface Potential Variation, Student IN poster competition Masters

ITIT-27, Siming Zhao, The role of geomagnetic field on the occurrence of specular meteor trails, Student NOT in poster competition Masters

ITIT-28, Christopher Watts, Ionospheric measurements from LWA calibration, Non-student

ITIT-29, Yiyi Huang, Estimation of Temperature and Wind Velocity Profiles in Upper Atmosphere Using Fabry-Perot Interferometers, Student IN poster competition PhD

ITIT-30, Priyanka Chandrasekran, Higher Order Ionosphere Error in GPS Measurements, presented by Yu Morton, Student NOT in poster competition Undergraduate

Data Assimilation

DATA-01, Nick Matteo, Ionosphere geomagnetic field: comparison of IGRF model prediction and satellite measurements, presented by Yu Morton, Student NOT in poster competition Masters

DATA-02, Donald Rice, An Expert System for Ionogram Reduction (ESIR), Non-student

DATA-03, Juan Urco Cordero, The Madrigal database at Jicamarca Radio Observatory: Data from the main instruments of Jicamarca available to the world, Student NOT in poster competition Undergraduate

DATA-04, Akinori Saito, Dagik: Data-showcase system for the geospace using Google Earth, presented by Michi Nishioka, Non-student

Equatorial Ionosphere or Thermosphere

EQIT-01, Michi Nishioka, Preliminary Comparison of In-Situ Plasma Density Structures from C/NOFS at dusk with TEC and Scintillation Data from LISN obtained during October 2008, Student NOT in poster competition PhD

EQIT-02, Glenn Joyce, Atomic and molecular ion dynamics during equatorial spread F, Non-student

EQIT-03, Jonathan Krall, Three-Dimensional Modeling of Equatorial Spread-F Airglow Enhancements, Non-student

EQIT-04, Narayan Chapagain, Ionospheric OI 630 nm Airglow Depletion Zonal Velocities over Ascension Island, Student IN poster competition PhD

EQIT-05, Ronald Ilma, On the possibility to infer ionospheric electric fields from the bottomside equatorialF-region

Irregularities, Student IN poster competition PhD

EQIT-06, Yi-Jiun Su, Assimilative Modeling of Equatorial Plasma Depletions Observed by C/NOFS, Non-student

EQIT-07, Yann Paul Tambouret, Investigating Medium to Short Scale E-region Gradient Drift Waves Using Hybrid Simulations, Student IN poster competition PhD

EQIT-08, Ethan Miller, Equatorial Spread-F in the Central Pacific: Seven Years of Airglow and Radar Data, Student NOT in poster competition PhD

EQIT-09, Ehtan Miller, Coincidence of Equatorial and Mid-Latitude Irregularities, Student IN poster competition PhD

EQIT-10, Gopi Kreshna Seemala, Studies of equatorial spread F using LISN VIPIR, Non-student

EQIT-11, Tzu-Wei Fang, Causal link of the wave-4 structures in plasma density and vertical plasma drift in the low-latitude Ionosphere, Student IN poster competition PhD

EQIT-12, Joe McInerney, The Thermospheric Midnight Temperature Maximum (MTM) As Seen in the Extended Whole Atmosphere Community Climate Model (WACCM-X), Non-student

EQIT-13, Robert Haaser, C/NOFS Neutral Wind Meter Measurements of Neutral Thermospheric Helium Dominance at 400 km during Extreme Solar Minimum, Student IN poster competition PhD

EQIT-14, Patrick Alken, Modeling the day-time eastward equatorial electric field, Student NOT in poster competition PhD

EQIT-15, Christopher Miller, Use of Incoherent Scatter Radar Data to Study the Equatorial Midnight Temperature Maximum (MTM), Student IN poster competition Undergraduate

EQIT-16, John Meriwether, The detection of a secondary peak in the nighttime measurements of thermospheric temperatures at Arequipa Peru (16.5S, 71.5 W), Non-student

EQIT-17, Nicholas Pedatell, Inter-annual variability in the longitudinal structure of the low-latitude ionosphere due to the El-Nino Southern Oscillation, Student NOT in poster competition PhD

EQIT-18, Michael Olson, Equatorial Zonal Electric Fields during the 2003 Sudden Stratospheric Warming Event, Student NOT in poster competition PhD

EQIT-19, Pablo Reyes, Estimation of ionospheric temperatures using Jicamarca IS radar data with beams pointed perpendicular to the geomagnetic field, Student IN poster competition Masters

EQIT-20, Seebany Datta-Burua, Estimating Model Parameters from Ionospheric Reverse Engineering, Non-student

EQIT-21, Glenn Sugar, Non-specular meteor measurements of lower thermosphere winds, Student IN poster competition Undergraduate

Long-Term Variations of the Upper Atmosphere

LTRV-01, Susan Nossal, Long Term Monitoring of Geocoronal Hydrogen, Non-student

LTRV-02, Eva Robles, Climatology of the antiparallel plasma drift over Arecibo Observatory, Non-student

Midlatitude Ionosphere or Thermosphere

MDIT-01, Diana Prado, Topside ionosphere responses to a moderate geomagnetic storm, Student IN poster competition Undergraduate

MDIT-02, Yun Gong, Numerical simulation and observational study of ion layer formation at Arecibo, Student IN poster competition Masters

MDIT-03, Edgardo Pacheco, Quiet time Latitudinal Variations of Ion drifts in the Ionosphere at Low-and Middle Latitudes, Student IN poster competition PhD

MDIT-04, Edvier Cabassa-Miranda, Analysis of Arecibo dual beam world day data from 2006 to present – Results from the weakest solar minimum since 1928, Student IN poster competition Undergraduate

MDIT-05, Larisa Goncharenko, Ionospheric variations during January 2009 stratospheric sudden warming, Non-student

MDIT-06, Larisa Goncharenko, Joint FPI/ISR Observations at Millstone Hill Observatory, Non-student

MDIT-07, Peichen Lai, COSMIC Observations of TEC Enhancements during Magnetic Disturbances, Student IN poster competition PhD

MDIT-08, Ilgin Seker, The Properties and 3D Structure of Medium Scale Traveling Ionospheric Disturbances, Student IN poster competition PhD

MDIT-09, Tatsuhiro Tokoyame, Three-dimensional simulation of the coupled Perkins and Es layer instabilities in the nighttime midlatitude ionosphere, Non-student

MDIT-10, Jonathan Thompson, Tool for the Assessment of Ionospheric Models, Student IN poster competition Undergraduate

MDIT-11, Gregory Twork, Midlatitude Observations of the Thermosphere Implementing a Fabry-Pérot Interferometer, Student IN poster competition Undergraduate

MDIT-12, Russell Hedden, SOFDI/CASI Observations of the September 2005 Storm, Student IN poster competition PhD

MDIT-13, Elise Larson, Multi Line Investigations of the Hydrogen Geocorona, presented by Edwin Mierkiewicz, Student NOT in poster competition Undergraduate

MDIT-14, Goderdzi Didebulidze, Impulse-like increase of the nightglow [OI] 630 nm line intensity and its possible reason as a shear excited atmospheric vortical perturbations, presented by Nikoloz Gudaze, Non-student

MDIT-15, Yan Yin, Prompt Penetration of the Interplanetary Electric Field to the Mid Latitude Ionosphere, Student NOT in poster competition PhD

Polar Aeronomy

POLA-01, Erik Lundberg, Preliminary Results from the CASCADES-2 Sounding Rocket, Student IN poster competition PhD **POLA-02**, Matthew Zettergren, Dynamic variability in ionospheric composition at high latitudes, Student NOT in poster competition PhD

POLA-03, Carl Andersen, Measurement of E-region neutral winds with the Poker Flat all-sky imaging Fabry-Perot Spectrometer, Student IN poster competition Masters

POLA-04, Thomas Butler, Estimation of vector velocity field using an array of spatially distributed ISR measurements, Student NOT in poster competition PhD

POLA-05, Gabriel Michhue, The role of k_{parallel} on wave heating in the auroral E region, Student IN poster competition PhD **POLA-06**, Brent Sadler, Numerical Estimates of Polar Cusp Neutral Upwelling Using Satellite Conjunction Data, Student IN poster competition PhD

POLA-07, Erik Stromberg, Double Probe Electric Field Measurements, Student IN poster competition Undergraduate