CEDAR Poster Session #1 – Tuesday, 17 June 2008, 4-7 pm

(38 of 59 posters in competition)

SPRT Sprites (3 of 4 posters in competition)
STRT Stratosphere Studies and Below (3 of 4 posters in competition)
COUP Coupling of the Upper Atmosphere with Lower Altitudes (5 of 9 posters in competition)
METR Meteor Science Other than Wind Observations (4 of 7 posters in competition)
MLTS Mesophere or Lower Thermosphere General Studies (6 of 7 posters in competition)
MLTT Mesophere or Lower Thermosphere Other Tidal or Planetary Waves (2 of 2 posters in competitions)
MLTG Mesophere or Lower Thermosphere Gravity Waves (7 of 12 posters in competition)
MLTL Mesophere or Lower Thermosphere Lidar Studies (3 of 6 posters in competition)
ITMA Instruments or Techniques for Middle Atmospheric Observation (5 of 8 posters in competition)

Sprites

- **SPRT-01**, Victor Pasko, Mechanism of infrasound radiation from sprites, Non-student
- **SPRT-02**, Matthew Bailey, Quantifying Positive and Negative Sprite-Halo Characteristics over Northern Argentina, Student IN poster competition PhD
- **SPRT-03**, Jingbo Li, The Relationship of Sprite Streamer Velocities and Lightning-Driven Mesospheric Electric Fields, Student IN poster competition PhD
- **SPRT-04**, Jeremy A Riousset, Modeling studies of atmospheric conductivity and thundercloud charge imbalance effects on development of blue jet and gigantic jet discharges, Student IN poster competition PhD

Stratosphere Studies and Below

- **STRT-01**, Ildiko Beres, Investigation of Positive Cloud-to-Ground Lightning Strikes, Student NOT in poster competition Masters
- **STRT-02**, Armin Dehghan, Turbulence Measurements by Wind Profiler Radar in Southwestern Ontario, Student IN poster competition PhD
- **STRT-03**, Zhenhua Li, Detection of tides in the lower stratosphere using the Constellation Observing System for Meteorology Ionosphere & Climate radio occultation data, Student IN poster competition PhD
- **STRT-04**, Danny Eddy Scipion, Radar Measurements of Turbulence Parameters on the Atmospheric Boundary Layer, Student IN poster competition PhD

Coupling of the Upper Atmosphere with Lower Altitudes

- **COUP-01**, Loren Chang, Short-term Variation of the s=1 Nonmigrating Semidiurnal Tide During the 2002 Sudden Stratospheric Warming, Student IN poster competition PhD
- **COUP-02**, Larisa Goncharenko, Millstone Hill ISR observations of variations in ion temperatures during stratospheric sudden warming, Non-student
- **COUP-03**, Peter Hoffmann, Variability of the mesosphere and lower thermosphere at high latitudes during suddent stratospheric warmings, Non-student
- **COUP-04**, Wang Ling, Gravity Wave Activity during 2008 Stratospheric Sudden Warming from GPS Radio Occultations, Non-student
- **COUP-05**, Chihoko Yamashita, Lower atmosphere gravity wave responses to the 2002 stratospheric sudden warming and cooling effects in the mesosphere, Student IN poster competition PhD
- **COUP-06**, Kathrin Haeusler, Nonmigrating tidal signals in the thermospheric zonal wind as observed by CHAMP, Student IN poster competition PhD
- **COUP-07**, Amelia Naomi Onohara, An Investigation of Planetary Wave Signatures in the equatorial ionosphere over the south American sector, Student IN poster competition PhD
- **COUP-08**, Laureline Sangalli, JOULE II Rocket-Based Measurements of Ion Velocity, Neutral Wind and Electric Field in the Collisional Transition Region of the Auroral Ionosphere, Student IN poster competition PhD
- **COUP-09**, Kerri Cahoy, Analysis of zonal structure in electron density, refractivity, and temperature using GPS radio occultation profiles, Non-student

Meteor Science Other than Wind Observations

- **METR-01**, Elias M. Lau, The Effects of Meteor Radar Wavelength on the Retrieval of Atmospheric Parameters in the MLT, Non-student PhD
- **METR-02**, Elizabeth Bass, Characterizing Atmospheric Properties Using Meteor Observations, Student IN poster competition PhD
- **METR-03**, Jonathan Sparks, Seasonal and Diurnal variability of the meteor flux at high latitudes observed using PFISR, Student IN poster competition Undergraduate
- **METR-04**, Jonathan Fentzke, Meteor Input Function (MIF) Model Validation and Seasonal Study Using the Arecibo and Poker Flat HPLA Radars, Student IN poster competition PhD
- **METR-05**, Jonathan Fentzke, High Resolution Potassium Meteor Trail Observations at Arecibo: Preliminary Results, Student NOT in poster competition PhD
- **METR-06**, Allen Kummer, Day to Night Variability of Non-Specular Radar Meteor Trails, Student IN poster competition Undergraduate
- **METR-07**, Matthew Sunderland, presented by Allen Kummer, Design of a Digital Pulsed Radar Receiver, Student NOT in poster competition Undergraduate

Mesophere or Lower Thermosphere General Studies

- **MLTS-01**, Adam Escobar, presented by Allen Kummer, Investigation of High Latitude D-Region Effects on RF Propagation, Student NOT in poster competition Masters
- **MLTS-02**, Jodie Barker-Tvedtnes, Noctilucent Clouds from Above and Below, Student IN poster competition Undergraduate
- **MLTS-03**, Sarah Broadley, Calcium ion chemisty in the upper atmosphere, Student IN poster competition PhD
- **MLTS-04**, Laura Brower, Polar D-region Electron Temperatures Enhanced by Frictional Heating, Student IN poster competition
- **MLTS-05**, Calvin Daniel Burton, Two Station Noctilucient Cloud Measurements Over Northern Canada, Student IN poster competition Undergraduate
- **MLTS-06**, Eliana Nossa, Preliminary results of the January 2008 campaign at Arecibo - MLT dynamics, Student IN poster competition PhD
- **MLTS-07**, Shelton O'Brien Simmons, Noctilucent Clouds in the Mesophere, Student IN poster competition Masters

Mesophere or Lower Thermosphere Other Tidal or Planetary Waves

- **MLTT-01**, Hiroyuki Iimura, Comparison of the Nonmigrating Semidiurnal Tide over Antarctica and Arctic from Wind Measurements by TIMED Doppler Interferometer, Student IN poster competition PhD
- **MLTT-02**, Xiaoli Zhang, Tidal Heating Rate Profiles Derived from Global ISCCP Radiative Fluxes, Student IN poster competition PhD

Mesophere or Lower Thermosphere Gravity Waves

- **MLTG-01**, Phillip Acott, Mesospheric momentum flux studies over Fort Collins, CO (41N, 105W), Student IN poster competition PhD
- **MLTG-02**, Jose Valentin Bageston, Gravity Waves Observation over Ferraz Station, Antarctica (62°S), Student IN poster competition PhD
- **MLTG-03**, Amal Chandran, Gravity wave observations at the polar mesopause region from the CIPS Experiment on the AIM Spacecraft, Student IN poster competition PhD
- **MLTG-04**, Nicholas Dzienis, Simulations of wave-induced variations of minor species and OH airglow in the MLT region at north and south 18 degree latitude, Student IN poster competition Undergraduate
- **MLTG-05**, Mitsumu Ejiri, Quantitative evaluation of impact from momentum flux of mesospheric gravity wave on the background wind at a critical level, Non-student
- **MLTG-06**, Tony Mangognia, Middle Atmosphere Wave Extraction From Imager and Photomer Data, Student NOT in competion

- **MLTG-07**, Pierre-Dominique Pautet, New Analysis Technique to Study Gravity Waves Structures in Noctilucent Clouds Images, Non-student
- **MLTG-08**, Deepak B Simkhada, Observations of Mesopause Region Bores in OH and O2 Airglow Emissions over Maui, Hawaii, Student IN poster competition PhD
- **MLTG-09**, Camille Smith, Identifying Unusual Temperature and Intensity Perturbations in the Maui-MALT Airglow Data Set, Student IN poster competition Undergraduate
- **MLTG-10**, Jonathan Snively, Influence of duct altitude and vertical wave structure on airglow layer perturbations, Non-student
- **MLTG-11**, Jia Yue, A study of OH imager observed concentric gravity waves, Student IN poster competition PhD
- **MLTG-12**, Yucheng Zhao, Investigating Gravity Waves Measured by CIPS/AIM in the Summer Polar Mesosphere, Non-student

Mesophere or Lower Thermosphere Lidar Studies

- **MLTL-01**, Xian Lu, Characteristics of quasi-monochromatic gravity waves and wave saturation observed by Na lidar in the mesopause region, Student IN poster competition PhD
- **MLTL-02**, Michael Gerding, Temperature structure and variability between 1 and 105 km altitude at 54°N from combined lidar soundings, Non-student
- **MLTL-03**, Jens Lautenbach, First daylight measurements of temperature and wind with the mobile scanning Fe-Doppler lidar, Non-student
- **MLTL-04**, Agatha Light, Development of Resonance Fluorescence Lidar Methods for Studies of Aurorally Excited Molecular Nitrogen, Student IN poster competition Masters
- **MLTL-05**, Brentha Thurairajah, The Role of Waves in the Arctic Middle Atmospheric Circulation: Rayleigh Lidar Observations and Analysis, Student IN poster competition PhD
- **MLTL-06**, Tao Yuan, Monthly-mean Tidal Perturbations of Na Density and Vertical Wind based on Full-Diurnal-Cycle Na Lidar Observations, Non-student

Instruments or Techniques for Middle Atmospheric Observation

- **ITMA-01**, Xinzhao Chu, MRI: Development of a mobile mobile Fe-resonance/Rayleigh/Mie Doppler lidar, Non-student
- **ITMA-02**, John Smith, LabVIEW-Based Laser Frequency Stabilization System Using Phase Sensitive Detection Techniques for LIDAR Applications, Student IN poster competition Masters
- **ITMA-03**, Feng Han, Detectability of midlatitude D region variability driven by energetic particle precipitation, Student IN poster competition PhD
- **ITMA-04**, Sean Harrell, Theory and Applications of a Faraday Filter-Based Spectrometer to Measure Sodium Nightglow D2/D1 Intensity Ratios, Student IN poster competition PhD
- **ITMA-05**, Justin Ingersoll, Description of a regularization technique for the analysis of photographic data used in chemical release wind measurements, Student IN poster competition Masters
- **ITMA-06**, Ryan Seal, Next generation meteor radar receiver based on an open-hardware, software radio platform, Student NOT in poster competition Masters
- **ITMA-07**, Arpan Shah, Development of a falling sphere instrument for high-resolution neutral wind measurements in the mesosphere and lower thermosphere, Student IN poster competition Masters
- **ITMA-08**, Cody Vaudrin, presented by Scott Palo, A Multi-Channel FPGA Based High Speed Digital Receiver for Meteor Radar Applications, Student NOT in poster competition PhD