

## 22 June 2006 Thursday 4-7 PM CEDAR Poster Session #2

(28 of 60 posters in competition on MLT, Coupling, Sprites, Meteors, Planetary Atmospheres)

- ITMA** Instruments or Techniques for Middle Atmospheric Observation (4 of 11 posters in competition)
- COUP** Coupling of the Upper Atmosphere with Lower Altitudes (5 of 10 posters in competition)
- MLTS** Mesosphere or Lower Thermosphere General Studies (3 of 8 posters in competition)
- MLTG** Mesosphere and Lower Thermosphere Gravity Waves (5 of 11 posters in competition)
- MLTT** Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves (2 of 5 posters in competition)
- METR** Meteor Science other than Wind Observations (5 of 7 posters in competition)
- SPRT** Sprites (3 of 6 posters in competition)
- EPAT** Extraterrestrial Planetary Atmospheres (1 of 2 posters in competition)

### Instruments or Techniques for Middle Atmospheric Observation

- **ITMA-01**, Zhaoai Yan, On middle-atmospheric Doppler-Cabanne lidar wind measurements, Student NOT in poster competition, Masters
- **ITMA-02**, Chunmei Kang, Planar Array Design in Meteor Radar Systems, Student IN poster competition, PhD
- **ITMA-03**, Jia Yue, An all-solid-state transportable narrowband sodium lidar for mesopause region temperature and horizontal wind measurements, Student IN poster competition, PhD
- **ITMA-04**, Meng-Yuan Chen, The Study of Beam Broadening Effect on Doppler Spectrum, Student NOT in poster competition, PhD
- **ITMA-05**, Sean Harrell, The Sodium Faraday Filter and Daytime Lidar Observations: A History and Current Developments, Student IN poster competition, PhD
- **ITMA-06**, Chris Martin, High-resolution remote sensing of mesospheric carbon monoxide, Non-student
- **ITMA-07**, D. Scott Anderson, Tomographic Estimations of Vertical Airglow Profiles, Student NOT in poster competition, PhD
- **ITMA-08**, Steven M Smith, Ground-based mesospheric OH temperature comparisons with simultaneous TIMED SABER temperatures over Millstone Hill, Non-student
- **ITMA-09**, Romina Nikoukar, On the variability of mesospheric OH layer volume emission profiles derived from SABER limb measurements, Student NOT in poster competition, PhD
- **ITMA-10**, Richard Todd Parris, A new receiving system for SuperDARN meteor echo detection and analysis, Student IN poster competition, PhD
- **ITMA-11**, Michael John Brown, Magnetic Fields Measurements of the Mesosphere Using the Zeeman Splitting of O-18O, Student NOT in poster competition, Undergraduate

### Coupling of the Upper Atmosphere with Lower Altitudes

- **COUP-01**, William Robert Johnston, Relation of the plasmapause to the outer radiation belt from DMSP, IMAGE, and SAMPEX observations, Student IN poster competition, PhD
- **COUP-02**, Matthew D Zettergren, The Aeronomy of Auroral Ion Upflow, Student IN poster competition, PhD

- **COUP-03**, Zhenhua Li, Gravity Waves in the Lower Stratosphere at South Pole, Non-student, PhD
- **COUP-04**, ZHENGGANG CHENG, Broadband VLF measurement of D region ionospheric perturbations caused by lightning electromagnetic pulses, Student IN poster competition, PhD
- **COUP-05**, Jirimy Rioussset, Electrical structure of thunderclouds leading to formation of blue jets and gigantic jets, Student IN poster competition, Masters
- **COUP-06**, Brentha Thurairajah, Observational study of the Arctic middle atmosphere using lidar, satellite, and meteorological measurements and analyses, Student NOT in poster competition, PhD, presented by Richard Collins
- **COUP-07**, Charles Mutiso, Coupling in the mesosphere and lower thermosphere through tidal features observed in OH (6, 2) and O<sub>2</sub> Atm (0, 1) nightglow emissions, Student IN poster competition, Masters
- **COUP-08**, Young-Sil Kwak, An Analysis of the Momentum Forcing in the High-latitude Lower Thermosphere, Non-student
- **COUP-09**, Mariangel Fedrizzi, Ionosphere-Thermosphere Response to the April 2002 Magnetic Storm, Non-student, PhD
- **COUP-10**, Jong-Kyun Chung, Observation of low latitude red aurora on 29 October, 2003, Non-student

### **Mesosphere or Lower Thermosphere General Studies**

- **MLTS-01**, Jong-Kyun Chung, The nightglow measurements of the O<sub>2</sub>(0-0) atmospheric band by TIMED Doppler Interferometer (TIDI), Non-student
- **MLTS-02**, Yonghui Yu, The Numerical Modeling of Gravity Wave Packet Ducted due to the Thermal Structure in the Upper and Lower Atmosphere, Student NOT in poster competition, PhD
- **MLTS-03**, Shikha Raizada, A study of negative ions in the D-region using ISR at Arecibo, Non-student, PhD
- **MLTS-04**, Tianyu Zhan, Mesosphere and lower thermosphere wind and turbulence observations over Puerto Rico during the Coqui 2 campaign, Student NOT in poster competition, PhD
- **MLTS-05**, Hema Karnam Surendra Babu, Seasonal Investigations of Variance in Mesospheric Wave Structures at Low Latitudes., Student IN poster competition, PhD
- **MLTS-06**, Ruth S. Lieberman, A Global perspective of mesospheric inversion layers, Non-student
- **MLTS-07**, Fabio Vargas, Modeling study of airglow response to gravity wave perturbations in multiple layers in the mesopause region, Student IN poster competition, Masters
- **MLTS-08**, Deepak Babu Simkhada, Investigating the horizontal characteristics of the short period gravity waves over Bear Lake Observatory, Utah, Student IN poster competition, PhD

### **Mesosphere and Lower Thermosphere Gravity Waves**

- **MLTG-01**, Shin Suzuki, Gravity wave momentum flux estimated from airglow images in the equatorial mesopause region, Student IN poster competition, PhD
- **MLTG-02**, Alexander Hassiotis, Regional case study on the viability of short-range forecasting of convectively-generated gravity waves in the tropics, Student IN poster competition, PhD

- **MLTG-03**, Phillip Edward Acott, On sodium measurements of gravity-wave momentum fluxes and assessment of gravity-wave/tidal interactions On sodium measurements of gravity-wave momentum fluxes and assessment of gravity-wave/tidal interactions, Student IN poster competition, PhD
- **MLTG-04**, Qihou Zhou, Incoherent Scatter Radar and All-Sky Imager Observation of Mesospheric Gravity Waves at Arecibo, Non-student
- **MLTG-05**, Jonathan Snively, Photochemical-dynamical modeling of multi-layer airglow modulation by mesospheric gravity waves, Student NOT in poster competition, PhD
- **MLTG-06**, Chihoko Yamashita, Lidar study of gravity waves and their influence on polar mesospheric clouds in Antarctica, Student IN poster competition, Masters
- **MLTG-07**, Kim Nielsen, Propagation and Ducting of Short-Period Gravity Waves over Antarctica, Student IN poster competition, PhD
- **MLTG-08**, Mitsumu K. Ejiri, Short-period mesospheric gravity wave propagation and momentum flux at low-latitudes using simultaneous Na lidar and temperature mapper measurements, Non-student
- **MLTG-09**, Pierre-Dominique Pautet, Investigating mesospheric gravity waves and their potential role in seeding thermospheric depletions over Brazil, Non-student
- **MLTG-10**, Diego Janches, Gravity Waves and Momentum Fluxes in the MLT Using 430 MHz Dual-Beam Measurements at Arecibo, Non-student
- **MLTG-11**, Bob Stockwell, Observations of Wave Breaking and Mean Flow Acceleration, Non-student

### **Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves**

- **MLTT-01**, Bob Stockwell, Joint Time-Frequency Representations of Large Geophysical Datasets, Non-student
- **MLTT-02**, Takuo Tsuda, Study of an ion-drag contribution to the lower thermospheric wind in the summer polar cap using the ESR data, Student IN poster competition, PhD
- **MLTT-03**, Loren Chang, Structure of the Migrating Diurnal Tide in the Whole Atmosphere Community Climate Model, Student IN poster competition, PhD
- **MLTT-04**, Hiroyuki Iimura, An Intercomparison of Atmospheric Tidal Oscillations in the Horizontal Wind Field Observed over Antarctica , Non-student, PhD
- **MLTT-05**, Young-In Won, Observations of Upper Mesospheric and Lower Thermospheric Temperatures and Winds using Ground-Based Airglow Measurements in the Low and High-Latitude, Non-student

### **Meteor Science other than Wind Observations**

- **METR-01**, Amal Chandran, Modeling the Meteoric mass deposition in the Upper Atmosphere, Student IN poster competition, PhD
- **METR-02**, Freddy Ronald Galindo, Processing algorithms for meteor-head characterization over Jicamarca , Student NOT in poster competition, Undergraduate
- **METR-03**, Stanley Briczinski, A Comparison of Automated-Search Meteor Results From Radar Observations At Two Locations, Student IN poster competition, PhD
- **METR-04**, Santiago de la Peña, Analysis of the Leonid Meteor Shower using a VHF interferometric Meteor Radar, Student IN poster competition, PhD

- **METR-05**, Vijay Subbaraman Venkatesh, Antenna pattern measurement using radio stars, Student IN poster competition, Masters
- **METR-06**, Elizabeth Bass, High range-resolution meteor observations from the Jicamarca Radio Observatory, Student IN poster competition, PhD
- **METR-07**, Chao-Tuan Cheng, Observations of Inertia-gravity wave from long-lasting meteor trail echo with hodograph analysis, Student NOT in poster competition, PhD

## **Sprites**

- **SPRT-01**, Takeshi Kammae, Sprite spectra at high time resolution., Student IN poster competition, PhD
- **SPRT-02**, Tai-Yin Huang, On the OH Nightglow Emission in the Occurrence of Sprites, Non-student
- **SPRT-03**, Jingbo Li, Lightning Sprite Relationship with High Time Resolution Analysis, Student IN poster competition, PhD
- **SPRT-04**, Ningyu Liu, Modeling Studies of Initiation and Propagation of Sprite Streamers, Non-student, PhD
- **SPRT-05**, Matt Bailey, Infrared Imaging of Transient Luminous Events (1 - 1.5 micron) Over the Mid-Western US and Comparison With Their Visible Wavelength Signatures, Student NOT in poster competition, PhD, presented by Michael Taylor
- **SPRT-06**, Robert Andrew Marshall, Evidence for direct cloud-to-ionosphere electrical connection through sprite and jet processes, Student IN poster competition, PhD

## **Extraterrestrial Planetary Atmospheres**

- **EPAT-01**, Luke Moore, Saturn's Ionosphere: Cassini Radio Occultation Measurements and Model Comparisons, Student IN poster competition, PhD
- **EPAT-02**, Ling Wang, Martian Atmosphere Density Structure and Gravity Wave Variance from Mars Odyssey and MGS Accelerometer Data , Non-student, PhD