

CEDAR MLT Poster Session – Tuesday, 28 June 2011

(34 of 65 posters in competition)

ITMA	Instruments and Techniques for the Middle Atmosphere (1 of 2 posters in competition)
METR	Meteor Science other than Wind Observations (5 of 6 posters in competition)
MLTG	Mesosphere and Lower Thermosphere Gravity Waves (10 of 17 posters in competition)
MLTL	Mesosphere and Lower Thermosphere Lidar Studies (4 of 9 posters in competition)
MLTS	Mesosphere or Lower Thermosphere General Studies (6 of 16 posters in competition)
MLTT	Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves (2 of 6 posters in competition)
SPRT	Sprites (5 of 6 posters in competition)
STRB	Stratosphere Studies and Below (1 of 2 posters in competition)
IT-GPS	Global Positioning System (1 poster-not in competition)

Instruments and Techniques for the Middle Atmosphere

ITMA-01, Cody Vaudrin, Student IN poster competition, University of Colorado Software Defined Multistatic Radar: System Development Update and Recent Results

ITMA-02, Steve Watchorn, Non-student, Spatial Heterodyne Spectroscopy to Determine [O] in the MLT Region

Meteor Science other than Wind Observations

METR-01, Jongmin Choe, Student IN poster competition, Anisotropy of the meteor decay times measured by a meteor VHF radar at King Sejong Station 62S, 57W), Antarctica

METR-02, Elizabeth Bass, Student IN poster competition, Simultaneous Meteor Observations Using High-Power, Large-Aperture and Specular Radars

METR-03, Ryan Volz, Student IN poster competition, Improving Radar Observation of Meteors using Compressed Sensing

METR-04, Jeong-Han Kim, Non-student, Mesospheric temperature estimation from the meteor decay times observed at southern high latitude

METR-05, Alex McDonnell, Student IN poster competition, Improved Meteor Deceleration and Mass Calculations Using Doppler Data from the ALTAIR HPLA Radar

METR-06, Elizabeth Ann McCubbin, Student IN poster competition, Classifying meteor trail echoes detected by the mid-latitude Super Dual Auroral Radar Network

Mesosphere and Lower Thermosphere Gravity Waves

MLTG-01, Steve Smith, Non-student, Gravity wave coupling between the mesosphere and thermosphere over New Zealand

MLTG-02, Thomas Boyd Martin, Student IN poster competition, Comparison of Long-period to Short-Period Gravity Waves Over Petrolina, Brazil and Halley, Antarctica

MLTG-03, Fabio Vargas, Non-student, Evidence of the influence of high frequency gravity waves on the meridional residual circulation

MLTG-04, Fabio Vargas, Non-student, Gravity wave parameter estimation using collocated airglow, wind and temperature data recorded at 23°S

MLTG-05, Uday Kanwar, Student IN poster competition, Estimation of the Vertical Wavelength of Atmospheric Gravity Waves from Airglow Imagery

MLTG-06, Edward Grabenhorst, Student IN poster competition, Infrared Measurements of Hydroxyl Airglow Emissions and Gravity Wave Perturbations over Daytona Beach, Florida

MLTG-07, Zhenhua Li, Student NOT in poster competition, An Investigation on Gravity Wave Characteristics Observed by Airglow Imager at Maui, HI

MLTG-08, Richard George, Student IN poster competition, The Effects of Gravity Waves On Airglow and Minor Species in The MLT Region

MLTG-09, Changsup Lee, Student IN poster competition, Seasonal variations of the gravity wave activity in the mesopause region at King Sejong Station (62.22°S, 58.78°W), Antarctica

MLTG-10, Igo Paulina, Student NOT in poster competition, Forward ray-tracing of medium-scale gravity waves in the MLT region over Brazil

MLTG-11, Jonathan Pugmire, Student IN poster competition, Mesospheric Temperature Variability Over The Andes Mountains

- MLTG-12**, Neal Criddle, Student IN poster competition, Seasonal Variability and Dynamics of Mesospheric Gravity Waves Over the Andes Mountains
- MLTG-13**, Kim Nielsen, Non-student, Airglow Imaging of Polar Atmospheric Gravity Waves over Poker Flat, Alaska
- MLTG-14**, Kim Nielsen, Non-student, Fourier Ray Tracing of Atmospheric Gravity Waves Utilizing a Numerical Weather Prediction System
- MLTG-15**, Xian Lu, Student IN poster competition, Comparative studies on the tidal modulations of the GW variances in the MLT region using the meteor radar
- MLTG-16**, Laura Holt, Student IN poster competition, Gravity waves in WACCM with respect to transport of NO_x created by energetic particle precipitation
- MLTG-17**, Chihoko Yamashita, Student IN poster competition, Physical Mechanisms of Gravity Wave Variations and Their Impacts on the MLT during the 2009 Stratospheric Sudden Warming

Mesosphere and Lower Thermosphere Lidar Studies

- MLTL-01**, Xinzhao Chu, Non-student, First Results from McMurdo Lidar Campaign
- MLTL-02**, Weichun Fong, Student IN poster competition, Temperature Profiling from McMurdo, Antarctica with a Fe
- MLTL-03**, Cao Chen, Student NOT in poster competition, Wave signatures in Fe temperature measurements over McMurdo
- MLTL-04**, Wentao Huang, Non-student, Simultaneous and Common-Volume Lidar Observations of Mesospheric Na and Fe Layers at Boulder, Colorado (40N, 105W) in 2010
- MLTL-05**, Richard Collins, Non-student, Lidar Studies of the Arctic Atmosphere at Chatanika, Alaska
- MLTL-06**, Britta Irving, Student IN poster competition, Mesospheric inversion layers seen by Rayleigh lidar and their relationship to planetary wave structure in the Arctic middle atmosphere
- MLTL-07**, Leda Sox, Student IN poster competition, The World's Most Sensitive Rayleigh-Scatter Lidar
- MLTL-08**, Tony Mangogna, Student NOT in poster competition, Resonance Fluorescence He LIDAR
- MLTL-09**, Robert Andrew Stillwell, Student IN poster competition, Accounting for nonlinear sensor behavior in laser remote sensing applications

Mesosphere or Lower Thermosphere General Studies

- MLTS-01**, Rachel Ward, Student IN poster competition, With My Head in the Clouds: Helping to Understand the Boundary Between Earth and Space
- MLTS-02**, Justin Carstens, Student IN poster competition, Analysis of the PMC Parameter Retrieval from a CIPS Scattering Profile: High Sensitivity to Uncertainties and Methods Used to Account for this
- MLTS-03**, Brentha Thurairajah, Non-student, AIM/CIPS observation and NOGAPS-ALPHA analysis of polar mesospheric cloud structures
- MLTS-04**, Cissi Ying-tsen Lin, Student IN poster competition, Solar Energy and Nitric Oxide in the Lower Thermosphere: Observations by the Remote Atmospheric Ionospheric Detection System (RAIDS) and the Solar Dynamic Observatory (SDO)
- MLTS-05**, Karthik Venkataramani, Student IN poster competition, Simulating Nitric Oxide in the lower Thermosphere using a 3D model
- MLTS-06**, Justin Yonker, Student IN poster competition, The Role of N₂(A) in Production of Lower Thermospheric Nitric Oxide (NO)
- MLTS-07**, Bo Tan, Student IN poster competition, Tele connection pattern of different altitudes and different hemispheres derived from SABER and WACCM
- MLTS-08**, Martin Langowski, Student NOT in poster competition, Investigation of metal and metal ion density profiles in the MLT by satellite remote sensing using data from SCIAMACHY
- MLTS-09**, Deepali Vimal Saran, Non-student, Iron Oxide Emission in the Mesosphere
- MLTS-10**, Deepali Vimal Saran, Non-student, Relaxation of O₂(v = 1) by Atomic Oxygen and Carbon Dioxide
- MLTS-11**, Jerome Thiebaud, Non-student, Vibrational Relaxation of OH(v = 7) with O, O₂, and N₂, presented by Konstantinos Kalogerakis
- MLTS-12**, Victor Pasko, Non-student, Finite-difference time-domain modeling of infrasonic waves generated by supersonic auroral arcs
- MLTS-13**, Kishore Kumar Grandhi, Non-student, Simultaneous observations of meteor echoes with different frequencies (32.55 MHz and 53.5 MHz)
- MLTS-14**, Wayne Hocking, Non-student, Long term behaviour of the MLT quasi-7-day wave at two radar-sites at northern polar latitudes, presented by Kishore Kumar Grandhi
- MLTS-15**, Fontenla Juan, Non-student, Solar Spectral Irradiance effects on the heating and chemistry of the stratosphere and mesosphere
- MLTS-16**, Chad Fish, Student NOT in poster competition, Long-term Observations of Winds and Waves over Bear Lake Observatory

Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves

MLTT-01, Ana Roberta Paulina, Student NOT in poster competition, A possible effect of the 2006 Sudden Stratospheric Warming in the lunar semidiurnal tide

MLTT-02, Irfan Azeem, Non-student, Dynamical Response in the Mesosphere and Lower Thermosphere to a Sudden Stratospheric Warming Event in the Southern Hemisphere During 2010

MLTT-03, Frederico Estante, Student NOT in poster competition, Short-term variability of the $s=1$ nonmigrating semidiurnal tide over the South Pole due to coupling with Northern Hemisphere wave activity

MLTT-04, Jia Yue, Non-student, Quasi-two-day waves in the lower thermosphere

MLTT-05, Gong Yun, Student IN poster competition, Incoherent scatter radar study of the terdiurnal tide in the E- and F-region heights at Arecibo

MLTT-06, Katelynn Greer, Student IN poster competition, Planetary Wave Disturbances of the Wintertime Polar Upper Stratosphere and Lower Mesosphere: A Summary of Observed Characteristics

Sprites

SPRT-01, Burcu Kosar, Student IN poster competition, Sprite Streamer Formation in Under-Voltage Conditions

SPRT-02, Samaneh Sadighi, Student IN poster competition, Streamer Discharges From Isolated Hydrometeors in Thunderclouds

SPRT-03, Jianqi Qin, Student NOT in poster competition, Impact of mesospheric ion conductivity variations on the initiation of long-delayed sprites

SPRT-04, Caitano Luiz da Silva, Student IN poster competition, Influence of the charge moment change on sprite initiation altitude

SPRT-05, Wei Xu, Student IN poster competition, Monte Carlo Simulation of Terrestrial Gamma-ray

SPRT-06, Sotirios Mallios, Student IN poster competition, Charge transfer to the ionosphere and to the ground during thunderstorms

Stratosphere Studies and Below

STRB-01, Aman Chandran, Non-student, An analysis of SSW & elevated stratopauses generated in WACCM

STRB-02, Chao-Hsin Chen, Student IN poster competition, An Investigation of Gamma Drop Size Distribution aloft using the Chung-Li VHF Radar

Global Positioning System

IT-GPS-01, Justin Gyllen, Student NOT in poster competition, Possibilities for Calibrating GPS TEC with ISR Data