

CEDAR - MLT Poster Session – Wednesday, June 27, 2012
(40 of 65 posters in competition)

ITMA	Instruments and Techniques for the Middle Atmosphere (3 of 6 posters in competition)
METR	Meteor Science other than Wind Observations (8 of 10 posters in competition)
MLTG	Mesosphere and Lower Thermosphere Gravity Waves (7 of 16 posters in competition)
MLTL	Mesosphere and Lower Thermosphere Lidar Studies (7 of 8 posters in competition)
MLTS	Mesosphere or Lower Thermosphere General Studies (4 of 8 posters in competition)
MLTT	Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves (3 of 7 posters in competition)
SPRT	Sprites (4 of 7 posters in competition)
STRB	Stratosphere Studies and Below (3 of 3 posters in competition)

Instruments and Techniques for the Middle Atmosphere

ITMA-01, Andrew John Kavanagh, Non-student, British Antarctic Survey access to the Middle Atmosphere

ITMA-02, Mahmoudian Alireza, Student IN poster competition, New-Measurement Techniques to Diagnose Charged Dust Clouds in the Near-Earth Space Environment Using Ground-Based Ionospheric Heating Facilities

ITMA-03, Mark G. Conde, Non-student, Scanning Doppler Imager Observations of Two Dimensional Wind and Temperature Fields at Mesopause Heights

ITMA-04, Cody Vaudrin, Student NOT in poster competition, A Hardware Description of the Colorado Software Defined Radar

ITMA-05, Cody Vaudrin, Student IN poster competition, A Multistatic Common-volume Meteor Wind Radar Measurement Technique

ITMA-06, Stephen Hall, Student IN poster competition, Estimation of Atmospheric Gravity Wave Parameters from Airglow Imagery

Meteor Science other than Wind Observations

METR-01, Alex Fletcher, Student IN poster competition, Simulations of Meteoroid Impact Generated Plasmas

METR-02, Nicolas Lee, Student IN poster competition, Theory and experiments characterizing meteoroid impact plasma dynamics

METR-03, Vicki Hsu, Student IN poster competition, First Detection of Meteoric Smoke using the Poker Flat Incoherent Scatter Radar

METR-04, Jonathan Yee, Student IN poster competition, Diffusion of Non-Specular Trails as Measured by ALTAIR

METR-05, Ryan Volz, Student IN poster competition, Radar Waveform Inversion Using Range-Frequency Sparsity

METR-06, Rafael Mesquita, Student NOT in poster competition, Statistical Analysis on the Meteor Echoes of CARIRI (7.6° S)

METR-07, Qian Zhu, Student IN poster competition, Modeling Radar Holography as Applied to Point Targets

METR-08, Zachary Stephens, Student IN poster competition, Automated Classification of Meteor Reflections

METR-09, Austin Sousa, Student NOT in poster competition, Naturally-occurring Low-frequency Radio Emissions during Meteor Showers

METR-10, Steven Pifko, Student IN poster competition, Modeling the Meteoroid Input Function at Mid-Latitude Using Meteor Observations By the MU Radar

Mesosphere and Lower Thermosphere Gravity Waves

MLTG-01, Laura Angelina Holt, Student IN poster competition, Transport of NO_x created by energetic particle precipitation in WACCM

MLTG-02, Xian Lu, Non-student, Diurnal variation of gravity wave momentum flux and its forcing on the diurnal tide

MLTG-03, Manja Placke, Student IN poster competition, Investigation of gravity wave momentum fluxes from MF Doppler radar and meteor radar measurements in the polar mesosphere

MLTG-04, Sharon Vadas, Non-student, Gravity wave ray trace and full wave model: Approximations, assumptions, results, and comparison with observations

MLTG-05, Christopher Heale, Student IN poster competition, Thermospheric Dissipation and Reflection of Upward Propagating Gravity Wave Packets

MLTG-06, Geoff Crowley, Non-student, TID Observations at Middle and Low Latitudes Using the TIDDBIT HF TID Mapper

MLTG-07, Ryan Agner, Student NOT in poster competition, On the Variation of Gravity Wave Activity through the Solar Cycle at the South Pole

MLTG-08, Erin H Lay, Non-student, High temporal and spatial-resolution detection of atmospheric gravity wave effects on D-layer electron density

MLTG-09, Neal R. Criddle, Student IN poster competition, Investigating mountain waves in MTM airglow data at Cerro Pachon

MLTG-10, Michael Negale, Student IN poster competition, Short period gravity waves in the Arctic atmosphere over Alaska

MLTG-11, Zhenhua Li, Non-student, Gravity waves observed by Michelson Interferometer at Sondre Stromfjord, Greenland

MLTG-12, Xuguang Cai, Student IN poster competition, Mesospheric bore study based on USU sodium lidar and Mesospheric Temperature Mapper (MTM) observations in summer 2011

MLTG-13, Tony Mangogna, Student NOT in poster competition, 4-Channel Photometer for Gravity Wave Detection and Analysis

MLTG-14, Robert Andrew Marshall, Non-student, Subionospheric VLF Remote Sensing of Gravity Waves and Acoustic Waves in the Lower Ionosphere

MLTG-15, Cao Chen, Student IN poster competition, Inertia-gravity waves in Antarctica: A case study with simultaneous lidar and radar measurements at McMurdo (77.8° S, 166.7° E)

MLTG-16, Toru Takahashi, Student IN poster competition, Study on upward propagating atmospheric gravity wave in the polar MLT region using Tromsø sodium LIDAR

Mesosphere and Lower Thermosphere Lidar Studies

MLTL-01, Zachary Butterfield, Student IN poster competition, Studying the Upper Atmosphere Using a Sodium LIDAR

MLTL-02, Katrina Bossert, Student IN poster competition, Initial Diurnal Sodium Density Observations Over ALOMAR

MLTL-03, Cameron Martus, Student IN poster competition, Sodium and iron resonance lidar observations over Poker Flat Research Range, Chatnika, Alaska (65° N, 147° W)

MLTL-04, Zhibin Yu, Student IN poster competition, Diurnal variations of meteoric Fe layers in the mesosphere and lower thermosphere at McMurdo (77.8S, 166.7E), Antarctica

MLTL-05, Wentao Huang, Non-student, Seasonal variations of the mesospheric Fe layer at McMurdo, Antarctica (77.8°S, 166.7°E)

MLTL-06, Weichun Fong, Student IN poster competition, Winter Temperature Structures and Variations (30-120 km) at McMurdo Station (77.8°S, 166.7°E)

MLTL-07, John Westerhoff, Student IN poster competition, Using Power in Rayleigh Lidar for Middle and Upper Atmospheric Studies

MLTL-08, Leda Sox, Student IN poster competition, Upgraded ALO Rayleigh Lidar System and Its Improved Gravity Wave Measurements

Mesosphere or Lower Thermosphere General Studies

MLTS-01, Justin D. Yonker, Student IN poster competition, Towards a More Accurate Determination of the N(2D) Yield from the Neutral Dissociation of N₂

MLTS-02, Deepali Vimal Saran, Non-student, Aeronomical and Spectroscopic Studies of Iron Oxide Emission

MLTS-03, Cissi Ying-tsen Lin, Student IN poster competition, The Variations of Nitric Oxide in the Lower Thermosphere Observed by the Remote Atmospheric & Ionospheric Detection System (RAIDS) in Year 2010

MLTS-04, Richard L. Collins, Non-student, Turbulence and Wave-Instability in the Arctic Middle Atmosphere

MLTS-05, Richard L. Collins, Non-student, The Wave-Driven Circulation and Variability of the Arctic Atmosphere

MLTS-06, Brenden Roberts, Student IN poster competition, Structure function analysis of chemical release trails in the mesosphere-lower thermosphere region

MLTS-07, Nate C.M. Bartlett, Non-student, Laboratory studies of FeO and NiO chemiluminescence

MLTS-08, Michael F. Mitchell, Student IN poster competition, Spread-spectrum VLF remote sensing of ionospheric disturbances

Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves

MLTT-01, Nicholas Pedatella, Non-student, Simulations of solar and lunar tidal variability in the mesosphere and lower thermosphere during sudden stratosphere warmings and their influence on the low-latitude ionosphere

MLTT-02, Katelynn Greer, Student IN poster competition, Synoptic-Scale Disturbances of the Wintertime Polar Upper Stratosphere and Lower Mesosphere: A Summary of Observed Characteristics & Potential Vorticity Analysis

MLTT-03, Chiao-Yao She, Non-student, Counter-intuitive, global dynamical phenomena in the MLT: A qualitative explanation

MLTT-04, Vivien Matthias, Student IN poster competition, Sudden Stratospheric Warming – A composite picture using radar and satellite observations

MLTT-05, Qian Wu, Non-student, TIEGCM with TIDI lower boundary

MLTT-06, Vu Nguyen, Student IN poster competition, Estimating the Day-to-Day Variability of the Migrating Diurnal Tide Through Satellite Observations

MLTT-07, Fabrizio Sassi, Non-student, WACCMX nudged by High-Altitude Data Assimilation Products: Early Results During The Northern Hemisphere Winter of 2009

Sprites

SPRT-01, Caitano L. da Silva, Student IN poster competition, Simulation of leader speeds at gigantic jet altitudes

SPRT-02, Ningyu Liu, Non-student, Recovery of the lower ionosphere from modifications by negative halos

SPRT-03, Burcu Kosar, Student IN poster competition, Investigation of the density requirement for ionospheric patches for sprite streamer formation at sub-breakdown conditions

SPRT-04, Robert Moore, Non-student, The dependence of elves on lightning return stroke speed

SPRT-05, Jianqi Qin, Student IN poster competition, Dependence of Positive and Negative Sprite Morphology on Lightning Characteristics and Upper Atmospheric Ambient Conditions

SPRT-06, Xuan-Min Shao, Non-student, Observations of electron density changes in ionospheric D-layer above tropospheric thunderstorms

SPRT-07, Samaneh Sadighi, Student IN poster competition, Streamer Discharges from Dielectric Hydrometeors

Stratosphere Studies and Below

STRB-01, Sotirios A. Mallios, Student IN poster competition, Production of very high potential in intra-cloud lightning in connection with terrestrial gamma ray flashes

STRB-02, Anthony Teti, Student IN poster competition, A spatially scanning lower and middle atmospheric lidar system in northwest New Jersey

STRB-03, Wei Xu, Student IN poster competition, Source Altitudes of Terrestrial Gamma-Ray Flashes Produced by Stepping Lightning Leaders