CEDAR Poster Session #1 – Monday, 29 June 2009, 4-7 pm

(33 of 58 posters in competition)

METR Meteor Science Other than Wind Observations (3 of 3 posters in competition)
SPRT Sprites (3 of 6 posters in competition)
ITMA Instruments or Techniques for Middle Atmospheric Observation (5 of 9 posters in competition)
MLTL Mesophere or Lower Thermosphere Lidar Studies (4 of 8 posters in competition)
MLTG Mesophere or Lower Thermosphere Gravity Waves (7 of 14 posters in competition)
MLTT Mesophere or Lower Thermosphere Other Tidal or Planetary Waves (4 of 8 posters in competitions)
MLTS Mesophere or Lower Thermosphere General Studies (7 of 10 posters in competition)

Meteor Science other than Wind Observations

METR-01, Elizabeth Bass, Analysis of Simultaneous Meteor Observations with Specular and Incoherent Scatter Radars, Student IN poster competition PhD
METR-02, Elim Cheung, Comparison of Meteoroid Mass Estimates Using Multiple Instrument Observations, Student IN poster competition Undergraduate
METR-03, Jonathan Sparks, The diurnal variability of the micrometeor altitude distribution and its relation to meteoroid astronomical and physical characteristics, Student IN poster competition Undergraduate

Sprites

SPRT-01, Jingbo Li, Estimation of Charge in Sprites, Student IN poster competition PhD
SPRT-02, Mike Taylor, Airborne Image Measurements of Elves over Southern Europe Non-student
SPRT-03, Lance Petersen, Comparison of Sprite-Halo Characteristics Imaged Over the USA and South America, Student IN poster competition Undergraduate
SPRT-04, Gaopeng Lu, Lightning induction field above lightning strokes from impulse currents: one solution to sprites initiated by small charge moment changes, Non-student
SPRT-05, Jeremy Riousset, Air Heating Associated with Transient Luminous Events, Student NOT in poster competition PhD
SPRT-06, Robert Marshall, Time-domain modeling of lightning-EMP induced ionospheric density perturbation and transient optical emissions, Student IN poster competition PhD

Instruments or Instruments or Techniques for Middle Atmospheric Observation

ITMA-01, Robert Marshall, PIPER: Photometric Imager for Precipitation of Electron Radiation, Student NOT in poster competition PhD
ITMA-02, Feng Han, Midlatitude D region variabilities detected by broadband VLF sferics, Student IN poster competition PhD
ITMA-03, Douglas Drob, Inversion of Infrasound Signals for Passive Atmospheric Remote Sensing, Non-student
ITMA-04, Sean Harrell, Current status of the Faraday Filter-Based Spectrometer to Measure Sodium Nightglow D2/D1 Intensity Ratios, Student IN poster competition PhD
ITMA-05, Tom Slanger, CESAR (Compact Echelle Spectrograph for Aeronomical Research), Non-student
ITMA-06, Matthew M. Hayman, ARCLITE Lidar for PMC Depolarization Measurements, Student IN poster competition PhD
ITMA-07, Steven Watchom, The Climate Monitoring Cubesat Mission (CM^2), Non-student
ITMA-08, Tony Mangognia, 4-Channel Photometer for Atmospheric Gravity Wave Detection in Airglow Emissions, Student IN poster competition Masters
ITMA-09, Cody Vaudrin, A Multi-Channel FPGA Based High Speed Digital Receiver: Development, Applications and Data Processing, Student IN poster competition Masters

Mesosphere and Lower Thermosphere Lidar Studies

MLTL-01, Zhangjun Wang, Design and Development of LabVIEW-Based Novel Software for MRI Lidar System, Student NOT in poster competition PhD
MLTL-02, John Smith, Robust seed laser frequency stabilization for narrowband Doppler lidars, Student IN poster competition PhD

MLTL-03, Chiao-Yao She, Recent advances in midlatitude long-term temperature variations deduced from Na lidar observations with brief summary of tidal and mean temperature/wind climatology, Non-student
MLTL-04, Brita Irving, Rayleigh Lidar Observations of the Arctic Stratosphere and Mesosphere during the International Polar Year, Student IN poster competition Undergraduate
MLTL-05, Brentha Thurairajah, Gravity Wave Activity in the Arctic Middle Atmosphere: Rayleigh Lidar Measurements and Analysis, Student IN poster competition PhD
MLTL-06, Xianghui Xue, Possible Relations between Meteors, Enhanced Electric Density Layers and Sporadic Sodium Layers, Non-student
MLTL-07, Jia Yue, Convective and dynamic stabilities, large wind shears in the mesopause observed by Na lidar at Fort Collins, CO (41ºN, 105ºW), Student IN poster competition PhD
MLTL-08, Wentao Huang, Simultaneous Wind and Temperature Measurements from Lower to Upper Atmosphere, Non-student

Mesosphere and Lower Thermosphere Gravity Waves

MLTG-01, Chad Carlson, High frequency gravity wave observations at UAO, Student NOT in poster competition PhD
MLTG-02, Amal Chandran, Gravity wave effects on polar mesospheric clouds: A comparison of numerical simulations with AIM observations, Student IN poster competition PhD
MLTG-03, Durga Kafle, Mesospheric Atmospheric Gravity Waves Observed by Rayleigh-Scatter Lidar, Student IN poster competition PhD
MLTG-04, Tao Li, Seasonal and inter-annual variability of gravity wave activity revealed from long-term lidar observations over Mauna Loa Observatory, Hawai, Non-student
MLTG-05, Jonathan Pugmire, Intra-Annual Comparison of Mesospheric Gravity Waves Over Halley and Rothera Stations, Antarctica, Student IN poster competition Undergraduate
MLTG-06, Deepak Simkhada, Ripple Climatology Observed in the Mesopause Region over Maui, Hawaii, Student IN poster competition PhD
MLTG-07, Camille Smith, Mesospheric Gravity Waves over Equatorial Brazil, Student IN poster competition Undergraduate
MLTG-08, Qian Wu, Tri-station Observation of Polar Mesospheric 10-hr Inertio Gravity Wave, Non-student
MLTG-09, Robert Thacker-Dey, Investigations of wave-induced secular variations of exothermic heating in theMLT region, Student IN poster competition Undergraduate
MLTG-10, Roger Hale Varney, Case Study of an Inertia-Gravity Wave in the Mesosphere over Alaska with the Poker Flat Incoherent Scatter Radar, Student IN poster competition PhD
MLTG-11, Xun Zhu, A Spectral Parameterization of Drag, Heating and Eddy Diffusion for a Three-Dimensional Mean Flow Induced by Breaking Gravity Waves, Non-student
MLTG-12, Jonathan Snively, Observation and modeling of OH airglow temperature and intensity perturbations by mesospheric gravity waves, Non-student
MLTG-13, José Valentin Bageston, presented by Igo Paulino, Mesospheric Front in a Doppler Duct Observed over Ferraz Station, Antarctica (62°S), Student NOT in poster competition PhD
MLTG-14, Igo Paulino, Estimation of large scale gravity wave parameters using airglow images, Student NOT in poster competition PhD

Mesosphere and Lower Thermosphere Other Tidal or Planetary Waves

MLTT-01, Loren Chang, Influence of an Ultra Fast Kelvin Wave on the Migrating Diurnal Tide, Student IN poster competition PhD
MLTT-02, Jonathan Friedman, Longitude Variations of the Solar Semidiurnal Tides in the Mesosphere and Lower Thermosphere at Low Latitudes Observed from Ground and Space, Non-student
MLTT-03, Xian Lu, The Seasonal and Intraseasonal Variation of the Diurnal Tide in the Mesosphere and Lower Thermosphere Observed by Meteor Radar over Maui, HI (20.7o N, 156.3o W), Student IN poster competition PhD
MLTT-04, Tao Yuan, A Collaborative Study on Temperature Diurnal Tide in the midlatitude Mesopause region by Na lidar (41°N, 105°W) and TIMED/SABER, Non-student
MLTT-05, Jung Soo Kim, Investigation of Thermospheric Density Modeling on a Diurnal Time Scale, Student IN poster competition PhD
MLTT-06, Pruthvish Bena Patel, Observations of 6- and 8- hour period waves at the South Pole, Student IN poster competition Undergraduate
MLTT-07, Bob Stockwell, Local Spectral Analysis of very long Radar Wind Time Series, Non-student
MLTT-08, Bob Stockwell, Principal Harmonic Analysis of tidal signals in radar winds, Non-student

Mesosphere or Lower Thermosphere General Studies

MLTS-01, Jose Fernandez, Quiet-Nighttime TIMED/SABER NO+(v) VER Data Characterization at E-region Altitudes, Non-student
MLTS-02, Pedrina Terra Santos, Simultaneous OII 7320 Å Line Width and Incoherent Scatter Radar O+ Temperatures Measured at Arecibo, Non-student
MLTS-03, Sebastien de Larquier, Development of efficient finite-difference time-domain models of infrasound propagation in a realistic atmosphere, Student IN poster competition Masters
MLTS-04, Jonathan Fentzke, Meteoric smoke particle properties derived using dual-beam Arecibo UHF observations of D-region spectra during different seasons, Student IN poster competition PhD
MLTS-05, Zhenhua Li, An investigation of the impacts of temperature and large-scale circulation on OH airglow using SABER data, Student IN poster competition PhD
MLTS-06, Tyler David Scott, Rocket Observations of Lower Thermospheric Winds at High Latitudes during Active Conditions, Student IN poster competition Masters
MLTS-07, Padma Thirukoveluri, Planning and simulating observations for a sounding rocket experiment measuring thermospheric nitric oxide (NO) in the polar night by stellar occultation, Student NOT in poster competition PhD
MLTS-08, Chihoko Yamashita, Gravity wave impacts on the atmospheric coupling from the MLT region to the stratosphere during stratospheric sudden warming with TIME-GCM, Student IN poster competition PhD
MLTS-09, Katelynn Greer, Baroclinic Conditions and Anomalous Temperature Excursions of the Arctic Winter Middle Atmosphere: Discovery of Separated Mesopauses, Student IN poster competition PhD
MLTS-10, Jaimy Tomlinson, Correlation of Mesospheric Polar Cloud Observational Data for the Northern Hemisphere in 2007, Student IN poster competition Undergraduate