

Space Weather Workshop

Omni Interlocken Hotel – Broomfield, CO

April 26 – 29, 2016

Poster Abstracts

Posters may be on display from Tuesday morning through Thursday afternoon. We request that authors be in attendance at their posters during the poster session on the day indicated below.

Solar and Interplanetary Research and Applications (Tuesday)

Kitiashvili, Irina (NASA ARC/BAERI)

Poster Number: S1

Poster - Data Assimilation Approach to the Solar Cycle Prediction

Kosovichev, Alexander (New Jersey Institute of Technolgoy)

Poster Number: S2

Poster - Solar-Cycle Evolution of Subsurface Flows and Magnetic Fields

McFadden, Robert (Boston College)

Poster Number: S3

Poster - Preserving a Unique Archive for Long-Term Solar Variability Studies

Miao, Juan (National Space Science Center, Chinese Academy of Sciences)

Poster Number: S4

Poster - New Sunspot Number Series and the Prediction of Solar Cycle 25

Bamba, Yumi (Japan Aerospace Exploration Agency)

Poster Number: S5

Poster - A Flare Trigger Model Based On Satellite Observations

Kubo, Yuki (National Institute of Information and Communicatons Technology)

Poster Number: S6

Poster - Verification of Operational Solar Flare Forecast in RWC Japan

Leka, KD (NorthWest Research Associates (NWRA))

Poster Number: S7

Poster - The Discriminant Analysis Flare Forecasting System (DAFFS)

Nita, Gelu (New Jersey Institute of Technology)

Poster Number: S8

Poster - Real-Time Detection of Solar Transient Events Using Higher Order Statistical Estimators

Sadykov, Viacheslav (New Jersey Institute of Technology)

Poster Number: S9

Poster - Interactive Multi-Instrument Database for Studying Solar Flares

Thiemann, Edward (Laboratory for Atmospheric and Space Physics)

Poster Number: S10

Poster - A Lumped Element Thermal Model for Solar Flare Light Curves in the EUV

Yarborough, Amelia (Earth to Sky Calculus)

Poster Number: S11

Poster - Rads on a Plane

Molina, Ferris (Earth to Sky Calculus)

Poster Number: S12

Poster - The Transcontinental Space Weather Balloon Experiment

Schultz, Jamie (Earth to Sky Calculus)

Poster Number: S13

Poster - Using Microbes as Biological Radiation Sensors

Tobiska, W. Kent (Space Environment Technologies)

Poster Number: S14

Poster - Results from Measuring Atmospheric Radiation on Aircraft

Copeland, Kyle (FAA Civil Aerospace Medical Institute)

Poster Number: S15

Poster - CARI-7: Extending CARI to Higher Altitudes

Young, Shawn (AFRL/RVBXR)

Poster Number: S16

Poster - Comparison of Solar Energetic Particle Flux Mapping Models

DeLuca, Edward (Harvard-Smithsonian Center for Astrophysics)

Poster Number: S17

Poster - An EUV Wide-Field Imager and Spectrometer for the ISS

Kim, Yeon-Han (Korea Astronomy and Space Science Institute (KASI))

Poster Number: S18

Poster - A Prestudy for the Development of a Compact Coronagraph

Bisi, Mario (Science & Technology Facilities Council – Rutherford Appleton Laboratory)

Poster Number: S19

Poster - Preliminary Observations of Heliospheric Faraday Rotation of a CME Using LOFAR

Chang, Oyuki (UNAM)

Poster Number: S20

Poster - Initial Assessment of MEXART Single-Site IPS Power Spectra Analysis for Space-Weather Products

Jackson, Bernard (University of California, San Diego)

Poster Number: S21

Poster - Space Weather Forecasting Using Remotely-sensed Heliospheric IPS Data Sets From Around the World – an Inclusion of MEXART and BSA Pushchino Data into the UCSD STELab IPS Tomography

Plunkett, Simon (Naval Research Laboratory)

Poster Number: S22

Poster - Capabilities of a Global 3D MHD Model for Monitoring Extremely Fast CMEs

Kim, Tae (University of Alabama in Huntsville)

Poster Number: S23

Poster - Solar Wind Modeling with Multi-Scale Fluid-Kinetic Simulation Suite

MacDonald, Gordon (New Mexico State University)

Poster Number: S24

Poster - The Sensitivity of Coronal Structure to Changes in the Flux Distribution in Active Regions

Lindsey, Charles (NorthWest Research Associates)

Poster Number: S25

Poster - Seismic Mapping of the Sun's Far Hemisphere for Applications in Space-Weather Forecasting

Fontenla, John (ANorthWest Research Associates)

Poster Number: S26

Poster - SERFS Status and Prospects

Sharma, Swati (Indian Institute of Technology Delhi)

Poster Number: S27

Poster - Localization of Dispersive Alfvén Wave in Solar Wind Plasmas and Turbulent Spectrum

Goyal, Ravinder (Indian Institute of Technology Delhi)

Poster Number: S28

Poster - Temporal evolution of linear kinetic Alfvén waves in inhomogeneous plasmas and effects of Landau damping

Cherkos, Alemayehu (Addis Ababa University)

Poster Number: S29

Poster - Effect of Viscosity on Propagation of MHD Waves in Astrophysical Plasma

Green, Matthew; Hatt, Melinda; McAuliffe, Megan; Midzak, Natalie; Pozsonyi, Kristen
(Millersville University)

Poster Number: S30

Poster - Dependency of Magnetic Field of the CME on Other Physical Quantities on the Sun

Orehek, Ashley; Piarulli, Kara; Prestine, Christina; Fink, Jessica (Millersville University)

Poster Number: S31

Poster - Comparison of the GOES X-ray Data with EUVI Brightness of the Source Regions of the CME

Thompson, Barbara (NASA GSFC)

Poster Number: S32

Poster - Deriving Kinematic Properties of Asymmetric CMEs

Thompson, Barbara (NASA GSFC)

Poster Number: S33

Poster - CCMC and SWRC Space Weather Forecasting Services for NASA Robotic Mission Operators

Johnson, Jeff (NOAA/SWPC)

Poster Number: S34

Poster - DSCOVR Real-Time Solar Wind and Tracking Data Plots

Codrescu, Stefan (CU/CIRES, NOAA/NCEI)

Poster Number: S35

Poster - DSCOVR Space Weather Product Archive and Access at NCEI

Cameron, Taylor (University of Calgary)

Poster Number: S36

Poster - Determining Uncertainty In Solar Wind Timeshifting Methods

Reinard, Alysha (NOAA/SWPC)

Poster Number: S37

Poster - Transitioning GONG data processing to NOAA SWPC operations

General Space Weather Services (Wednesday)

Costa, Joaquim (INPE-National Institute for Space Research)

Poster Number: G1

Poster - The New Portal for Free Space Weather Data Distribution of the Embrace/INPE's Program.

De la Luz, Victor (National University of Mexico)

Poster Number: G2

Poster - Observations of Space Weather on Mexico

Seaton, Daniel (CIRES/CU and NOAA NCEI)

Poster Number: G3

Poster - NOAA's GOES-R Mission: Space Weather Instruments & Cal/Val Efforts

Tilton, Margaret (NOAA/CIRES)

Poster Number: G4

Poster - GOES-R Space Weather Data: Promoting Access and Usability

Engell, Alec (NextGen Federal Systems)

Poster Number: G5

Poster - Open-source Software and Operational Terrestrial and Space Weather Products

Harvey, Joey (Earth to Sky Calculus)

Poster Number: G6

Poster - Crowd-funding Space Weather Research

Lamb, Aaron (Earth to Sky Maritime)

Poster Number: G7

Poster - Applying Maritime Skills to the Space Weather Industry

Silverwood, Curtis (Millersville University)

Poster Number: G8

Poster - Spaced Out – A Monthly Online Program that Communicates Space Weather Events to the Public

Perez, Ginger (Earth to Sky Calculus)

Poster Number: G9

Poster - Earth to Sky

Magnetosphere Research and Applications (Wednesday)

Ngwira, Chigomezyo (The Catholic University of America)

Poster Number: M1

Poster - Extreme Space Weather Events and their Implication for Geomagnetically Induced Currents

Knipp, Delores (University of Colorado Boulder)

Poster Number: M2

Poster - The May 23-26 1967 Great Storm and Radio Disruption Event: Extreme space weather and extraordinary responses

Woodroffe, Jesse (Los Alamos National Laboratory)

Poster Number: M3

Poster - The Latitudinal Variation of Geoelectromagnetic Disturbances During Large Geomagnetic Storms

Kim, Kyung-Im (Kyung Hee University)

Poster Number: M4

Poster - Application of HD/MHD numerical Modelling in Space Weather Issues

McCollough, James (Air Force Research Laboratory)

Poster Number: M5

Poster - Dynamic Modeling of EMIC Wave Activity in a Realistic Magnetosphere

Haiducek, John (University of Michigan)

Poster Number: M6

Poster - Magnetospheric Substorms using MHD and PIC

Cilliers, Pierre (South African National Space Agency)

Poster Number: M7

Poster - B-field Derived Proxies for Geomagnetically Induced Currents

Zhang, Yongliang (Johns Hopkins University, Applied Physics Laboratory)

Poster Number: M8

Poster - Polar Rain Energy Dispersion and Magnetotail Reconnection Location

Pathak, Neha (IIT, Delhi)

Poster Number: M9

Poster - Whistler Wave Interaction with Magnetic Islands and Electron Scale Structure Formation

Jackel, Brian (University of Calgary)

Poster Number: M10

Poster - Predicting Lognormal Distributions of Geomagnetic Time Derivatives

Alonso Castro, Cata (Earth to Sky Calculus)

Poster Number: M11

Poster - Space Weather Ballooning in the South Atlantic Anomaly

Carlton, Ashley (Massachusetts Institute of Technology)

Poster Number: M12

Poster - Telemetry Event Identification Algorithms for Space Environment Sensing

Pettit, Joshua (University of Colorado Boulder)

Poster Number: M13

Poster - Comparison of Two MEPED Electron Data Sets with Proton Contamination Corrections

Cook, Michael (University of North Dakota)

Poster Number: M14

Poster - Extreme Poytning Flux Over the Polar Cap Region

Cress, Ryan (United States Air Force Academy)

Poster Number: M15

Poster - High Energy Dosimetry

Cress, Ryan (United State Air Force Academy)

Poster Number: M16

Poster - Falcon Solid-state Energetic Electron Detector (FalconSEED)

Tate, Jacob (United State Air Force Academy)

Poster Number: M17

Poster - Comparing Methods of Measuring Space Weather Parameters

Wilson, Gabriel (United States Air Force Academy)

Poster Number: M18

Poster - Integrated Miniaturized Electro Static Analyzer (iMESA)

Pothier, Nicole (Electro Magnetic Applications, Inc.)

Poster Number: M19

Poster - A Spacecraft Charging Application of the AE9 Model Framework

Gerrard, Andrew (New Jersey Institute of Technology)

Poster Number: M20

Poster - Interior Spacecraft Charging of the Van Allen Probes

Morley, Steven (Los Alamos National Laboratory)

Poster Number: M21

Poster - The Global Positioning System Constellation as a Space Weather Monitor

McMichael, Elizabeth (NOAA/NESDIS/GOES-R)

Poster Number: M22

Poster - Preparing for GOES-R: Post-Launch Testing

Boudouridis, Athanasios (University of Colorado Boulder)

Poster Number: M23

Poster - Comparison of Matrix Inversion and Bow-tie Techniques in the Calibration of the GOES-R SEISS MPS-HI Electron Channels

Henderson, Michael (Los Alamos National Laboratory)

Poster Number: M24

Poster - The Geosynchronous Energetic Particle Environment During the Galaxy 15 Spacecraft Anomaly: LANL/GEO Observations

Kellerman, Adam (UCLA)

Poster Number: M25

Poster - Forecasting the Earth's Radiation Environment Using Physics-based Modeling and Data assimilation

Ionosphere / Thermosphere Research and Applications (Thursday)

Danskin, Donald (Natural Resources Canada)

Poster Number: I1

Poster - Solar X-rays Effects on the Ionosphere

Ebrahimi, Hamideh (University of Central Florida)

Poster Number: I2

Poster - Remote Sensing of the Upper Atmosphere and Space Weather

Meehan, Jennifer (Utah State University)

Poster Number: I3

Poster - How to Utilize Scale Heights to Infer Information about the Topside Ionosphere

Mabie, Justin (CIRES)

Poster Number: I4

Poster - A research ionosonde in Antarctica

Aa, Ercha (National Space Science Center, Chinese Academy of Sciences)

Poster Number: I5

Poster - Regional 3D Ionospheric Electron Density Specification on the Basis of Data Assimilation

Sergeeva, Maria (Instituto de Geofisica, Unidad Michoacan, Universidad Nacional Autonoma de Mexico)

Poster Number: I6

Poster - Estimates of Ionospheric Conditions over Mexico Based on TEC Behaviour

Groves, Keith (Boston College)

Poster Number: I7

Poster - A Comprehensive Approach to Real-time Scintillation Specification

Huang, Chaosong (Air Force Research Laboratory)

Poster Number: I8

Poster - Empirical Models of Occurrence and Drift of Equatorial Plasma Irregularities and Scintillation

Joshi, Dev (Institute for Scientific Research, Boston College)

Poster Number: I9

Poster - Investigation of the Precursor conditions of Equatorial Plasma Bubble Irregularities with Oblique HF links

Wu, Qian (NCAR)

Poster Number: I10

Poster - TIEGCM Simulation of Equatorial Rayleigh-Taylor Instability

Maute, Astrid (NCAR)

Poster Number: I11

Poster - A New Model of the Three-dimensional Ionospheric Current System

McGranaghan, Ryan (University of Colorado Boulder)

Poster Number: I12

Poster - Determining Global Ionospheric Conductivity in the Satellite and Assimilation Age and Assessing its Influence on the Magnetosphere-Ionosphere-Thermosphere System

Fernandez-Gomez, Isabel (German Aerospace Center (DLR))

Poster Number: I13

Poster - Coupled Thermosphere Ionosphere Plasmasphere Electrodynamics (CTIPE) Physics Based Model during the Extreme Geomagnetic Storm on the 20th November of 2003

Chen, Chia-Hung (National Cheng Kung University)

Poster Number: I14

Poster - Ionospheric Data Assimilation with TIE-GCM and GPS-TEC during Geomagnetic Storm Conditions

Chen, Wei-Han (National Cheng Kung University)

Poster Number: I15

Poster - Ionospheric TEC Variations During the 2009 Sudden Stratosphere Warming by Assimilating F3/C RO and Ground-based GPSTEC

Maruyama, Naomi (NOAA)

Poster Number: I16

Poster - Ionosphere-Plasmasphere-Electrodynamics (IPE) Model and its Coupling to Whole Atmosphere Model (WAM) Toward Transitioning to Operational Space Weather Forecasting

Hsu, Chih-Ting (National Central University of Taiwan)

Poster Number: I17

Poster - Seasonal and Solar Cycle Dependence on Coupled Thermosphere-Ionosphere Ensemble Data Assimilation System for Ionospheric Forecast: FORMOSAT-3/COSMIC Observing System Simulation Experiments

Lee, I-Te (Central Weather Bureau)

Poster Number: I18

Poster - Role of Data Assimilation with a Ionosphere-thermosphere Coupled Model

Fang, Tzu-Wei (CU/CIRES)

Poster Number: I19

Poster - Impact of Lower Atmosphere on the Low-latitude Ionosphere Electrodynamics

Gentile, Louise (Air Force Research Laboratory)

Poster Number: I20

Poster – The Final Phase of the C/NOFS Mission

Yudin, Valery (University of Colorado)

Poster Number: I21

Poster - Drivers of Space Weather Events from Below: Tides and Wave Dynamics of Whole Atmosphere Models and Data Analysis

Fedrizzi, Mariangel (University of Colorado/CIRES and NOSS/SWPC)

Poster Number: I22

Poster - On the Validation of the Ionosphere-Plasmasphere-Electrodynamics (IPE) Model

Fedrizzi, Mariangel (University of Colorado/CIRES and NOAA/SWPC))

Poster Number: I23

Poster - Physical Modeling of Neutral Density for Satellite Drag

Wu, Qian (NCAR)

Poster Number: I24

Poster - What is Missing in the High Latitude Thermospheric Wind Simulations?

Pilinski, Marcin (ASTRA LLC.)

Poster Number: I25

Poster - Improved Orbit Determination and Forecasts with an Assimilative Tool for Satellite Drag Specification

Yadav, Nitin (Indian Institute of Technology Delhi)

Poster Number: I26

Poster - Turbulence and Particle Acceleration by Inertial Alfvén Waves in Auroral Ionosphere