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 sessions. If you are unable to be by your poster on the designated day, please post times/days available, at your poster.

Solar and Interplanetary Research and Applications (Tuesday)

Hurlburt, Neal (Lockheed Martin ATC)
Poster Number: S1
Poster - Preliminary results from imaging the far corona in EUV: SUVI Extended Corona Observations
Authors: Dan Seaton, Lawrence Shing, Greg Slater, Margaret Shaw, Ralph Seguin, Robin Minor, Calvin Nwachuku

Darnel, Jonathan (NOAA-NCEI/University of Colorado)
Poster Number: S2
Poster - Observations by the Solar UltraViolet Imager of the September 10, 2017 X8.2 Flare
Authors: Darnel, Jonathan M.; Seaton, Daniel B.

Jones, Andrew (University of Colorado)
Poster Number: S3
Poster - Solar EUV irradiance measurements from GOES-16
Authors: Andrew Jones

Woodraska, Donald (University of Colorado)
Poster Number: S4
Poster - Degradation Correction Proxy Modeling of GOES-16 EXIS EUVS
Authors: Donald L Woodraska, Francis G. Eparvier, Edward M.B. Thiemann, Thomas N. Woods, Andrew R. Jones, and Martin Snow

Woodraska, Donald (University of Colorado)
Poster Number: S5
Poster - The GOES-16 Operational EUV Spectral Irradiance Model
Authors: Edward M.B. Thiemann, Francis G. Eparvier, Thomas N. Woods, Andrew R. Jones, Martin Snow, Donald L. Woodraska, Janet Machol

Zhang, Yongliang (Johns Hopkins University / APL)
Poster Number: S6
Poster - Solar EUV flux proxy using multi-frequency solar radio flux
Authors: Yongliang Zhang and Larry J. Paxton

Viereck, Rodney (NOAA Space Weather Prediction Center)
Poster Number: S7
Poster - GOES Solar X-Ray Observations: Continuity vs Accuracy
**Authors:** Richard Grubb, Janet Machol

**Eparvier, Francis** (University of Colorado)
**Poster Number:** S8
**Poster - The September 2017 Flares in EUV and Soft X-Ray Irradiance from GOES and other Platforms**

**Eparvier, Francis** (University of Colorado)
**Poster Number:** S9
**Poster - The Magnesium II Index: Continuing Progress on the Facular Proxy in the GOES-R Era**
**Authors:** M. Snow, J. Machol, F.G. Eparvier, A.R. Jones, and T.N. Woods

**DeForest, Craig** (University of Colorado)
**Poster Number:** S10
**Poster - PUNCH: a Space-Weather-Relevant SMEX mission for 2022**
**Authors:** C.E. DeForest and the PUNCH Team

**Eccleston, Paul** (STFC - RAL Space)
**Poster Number:** S11
**Poster - Definition of the remote-sensing package for ESA's Lagrange mission**
**Authors:** P. Eccleston, J. Davies, S. Kraft & the Lagrange remote-sensing consortium

**Guedes dos Santos, Luiz Fernando** (NASA - Goddard Space Flight Center/ IACS - Catholic University of America)
**Poster Number:** S12
**Poster - Measuring CME angular width and angular position**
**Authors:** Teresa Nieves-Chinchilla (NASA-GSFC/IACS-CUA)

**de Koning, Curt** (University of Colorado)
**Poster Number:** S13
**Poster - Ensembles, CME Mass, and Space Weather Forecasting**
**Authors:** Michele Cash

**Parker, Linda** (USRA)
**Poster Number:** S14
**Poster - Comparison of Twin CME using PATH and PAMS**
**Authors:** Gang Li, UAH

**Jones, Andrew** (University of Colorado)
**Poster Number:** S15
**Poster - Machine Learning for Space Weather**
**Authors:** Stephane Beland, Wendy Carande, James Craft, Andrew Jones, Kim Kokkonen, Laura Sandoval, Doug Smith

**Leka, KD** (NWRA)
**Poster Number:** S16
**Poster - Operational Flare Forecasting Benchmarks and Initial Performance Comparisons**

McCloskey, Aoife (Trinity College Dublin, Ireland)
Poster Number: S17
Poster - Flare Forecasting & Sunspot Group Evolution
Authors: Aoife E. McCloskey, Peter T. Gallagher, D. Shaun Bloomfield

González, José Juan (Universidad Nacional Autonoma de Mexico)
Poster Number: S18
Poster - Development of a Magnetohydrodynamic (MHD) model in non-local thermodynamic equilibrium (NLTE) to study the upper solar atmosphere
Authors: Victor De la Luz

Gopalswamy, Nat (NASA Goddard Space Flight Center)
Poster Number: S19
Poster - FRED: Flux Rope from Eruption Data
Authors: Akiyama, S. Yashiro, and H. Xie

Destefano, Anthony (NASA/Marshall Space Flight Center)
Poster Number: S20
Poster - The Probability of False Go/No-Go Determined by GOES Proton Flux: Proposed Launch Constraints for Avoiding Damaging Solar Energetic Particle Events
Authors: Anthony Destefano, Michael Goodman, Robert Suggs

Kress, Brian (NOAA-NCEI and CIERES at CU Boulder)
Poster Number: S21
Poster - Observations of 2017 Solar Particle Events from Particle Detectors On-Board NOAA’s Newest Space Weather Monitor
Authors: Brian T. Kress, Juan V. Rodriguez, Athanasios Boudouridis, and Bronislaw Dichter

Matthiä, Daniel (German Aerospace Center (DLR))
Poster Number: S22
Poster - Solar cosmic ray dose rate assessments during GLE 72 using MIRA and PANDOCA
Authors: Daniel Matthiä, Kyle Copeland, Matthias M. Meier

Copeland, Kyle (Federal Aviation Administration)
Poster Number: S23
Poster - Conversion of the FAA's Solar Radiation Alert Systems to CARI-7
Authors: Kyle Copeland, Ph.D

Mertens, Christopher J. (NASA Langley Research Center)
Poster Number: S24
Poster - Recent Updates and Improvements to the Nowcast of Atmospheric Ionizing Radiation for Aviation Safety (NAIRAS) Model
Authors: Mertens, Christopher J.

Tobiska, W. Kent (Space Environment Technologies)
Poster Number: S25
Poster - Analytical Representations for Characterizing the Global Aviation Radiation Environment based on Model and Measurement Databases
Authors: W. Kent Tobiska, Leonid Didkovsky, Kevin Judge, Seth Weiman, Dave Bouwer, Justin Bailey, Bill Atwell, Molly Maskrey, Chris Mertens, Yihua Zheng, Margaret Shea, Don Smart, Brad Gersey, Richard Wilkins, Duane Bell, Larry Gardner, and Robert Fuschino

Panasencko, Olga (Advanced Heliophysics)*EPOSTER
Poster Number: S26
Poster - Predicting the Orientation of the Bz Component of CMEs
Authors: Marco Velli (UCLA)

Bisi, Mario (Science & Technology Facilities Council - Rutherford Appleton Laboratory)*EPOSTER
Poster Number: S27
Poster - LOFAR4SpaceWeather (LOFAR4SW): Increasing European Space-Weather Capability with Europe’s Largest Radio Telescope
Authors: Mario M. Bisi (1), René Vermeulen(2), Richard A. Fallows (2), Nicole Vilmer (3), Hanna Rothkaehl (4), Joris Verbiest (5), Peter T. Gallagher (6), Michael Olberg (7), Maaijke Mevius (1), and Stuart C. Robertson (1).

Singh, Talwinder (Univ. of Alabama in Huntsville)*EPOSTER
Poster Number: S28
Poster - CME simulations using Gibson-Low flux rope model with input parameters derived from multi-view coronagraph observations.
Authors: Mehmet S. Yalim, Nikolai Pogorelov

Pogorelov, Nikolai (University of Alabama in Huntsville)*EPOSTER
Poster Number: S29
Poster - Towards Real-time Modeling of Solar Atmosphere and Inner Heliosphere with the Multi-Scale Fluid-Kinetic Simulation Suite
Authors: David Hathaway, Tae Kim, Yang Liu, Talwinder Singh, Lisa Upton, and Mehmet Yalim

Tsiftsi, Thomai (Universidad Nacional Autonoma de Mexico (UNAM))*EPOSTER
Poster Number: S30
Poster - Statistical analysis of severe solar flare events using extreme value theory
Authors: Thomai Tsiftsi, Victor De la Luz

Lindsey, Charles (NorthWest Research Associates)*EPOSTER
Poster Number: S31
Poster - New Space-Weather Forecasting Applications of Seismic Monitoring of the Sun's Far Hemisphere
Authors: Charles Lindsey, Joseph Werne, Alina Donea

Jackson, Bernard (University of California, San Diego)*EPOSTER
Poster Number: S32
Poster - Iterative heliospheric tomography analyses using time-dependent 3-D MHD models as kernels
Authors: Hsiu-Shan Yu, P. Paul Hick, Andrew Buffington, Dusan Odstrcil, and Nick
**Panasenko, Olga** (Advanced Heliophysics)*EPOSTER
Poster Number: S33
Poster - The Solar Wind from Pseudostreamers and their Environs: Opportunities for Observations with Parker Solar Probe and Solar Orbiter
Authors: Marco Velli (UCLA), Aram Panasenco (UCLA), Roberto Lionello (PSI)

**Ionosphere Research and Applications (Wednesday)**

Matson, Liza K. (United States Air Force Academy, Department of Physics)
Poster Number: I1
Poster - The Falcon Space Weather Sensor (FalconSWS) for Polar Earth Orbits
Authors: Brandon A. Pierce, Liza K. Matson, Carlos A. Maldonado, and Matthew G. McHarg

Wilson, Gabriel (US Air Force Academy)
Poster Number: I2
Poster - Satellite Based Ion Density Measurement Calibration and Validation
Authors: Richard L Balthazor, Carlos Maldanado, Matthew G. McHarg

Cruz, Alfredo (CU-Boulder)
Poster Number: I3
Poster - Investigation into Proton-Induced Conductivity and Related Space Weather Effects
Authors: Alfredo Cruz, Stan Solomon, Liam Kilcommons, Delores J. Knipp, and Tomoko Matsuo

Pettit, Joshua (University of Colorado)
Poster Number: I4
Poster - Comparison of Two Medium Energy Electron Datasets in WACCM
Authors: Josh Pettit, Cora Randall, Ethan Peck, Dan Marsh, Craig Rodger, Xiaohua Fang

Yuan, Tianjiao (National Space Science Center)
Poster Number: I5
Poster - Prediction Model for Ionospheric Total Electron Content Based on Deep Learning RNN
Authors: Yuan Tianjiao, Chen Yanhong, Liu Siqing, Gong Jiacun

Loucks, Diana (United States Military Academy)
Poster Number: I6
Poster - GPS L1 Scintillation Detection Using a Novel 3-Dimensional PFISR Mode
Authors: Diana Loucks, Geoff Crowley, Scott E Palo, Roger Varney, Ashton Reimer, Donald Hampton, Marcin Pilinski

Fiori, Robyn (Natural Resources Canada)
Poster Number: I7
Poster - Improved Modelling of Shortwave Fadeout with 30 MHz riometer data
Authors: R. A. D. Fiori, L. Nikitina, D. H. Boteler

Fry, Ghee (NASA Marshall Space Flight Center)
Poster Number: I8
Poster - Crowd-Sourced Radio Science at Marshall Space Flight Center
Authors: Ghee Fry, Jesse McTernan, Rob Suggs, Linda Rawlins, Linda Krause, Dennis Gallagher and Mitzi Adams

Gentile, Louise (Air Force Research Laboratory)  
Poster Number: I9  
Poster - AFRL Field Campaign During the 21 August 2017 Solar Eclipse  
Authors: AFRL Field Campaign Team

Shi, Yining (University of Colorado Boulder)  
Poster Number: I10  
Poster - Assimilative Mapping Method for High-latitude Field-aligned Currents (FACs)  
Authors: Yining Shi, Delores Knipp, Tomoko Matsuo, Liam Kilcommons, Brian Anderson

Siddiqui, Tarique (NCAR)  
Poster Number: I11  
Poster - Dependence of lunar tide of the equatorial electrojet on the winter-time polar vortex, solar flux and QBO  
Authors: Yosuke Yamazaki, Claudia Stolle, Hermann Luehr, Juergen Matzka, Astrid Maute, Nick Pedatella

Jones, Jim (Northrop Grumman)  
Poster Number: I12  
Poster - Thermospheric Effects on Low Earth Orbit  
Authors: James C. Jones

De la Luz, Victor (Universidad Nacional Autonoma de Mexico)  
Poster Number: I13  
Poster - azTEC: TEC Maps Near to Real Time over Mexico  
Authors: Maria Sergeeva, Mario Rodriguez, Américo González-Esparza, Esmeralda Romero

Ghoddousi-Fard, Reza (Natural Resources Canada)  
Poster Number: I14  
Poster - High latitude GPS and GLONASS 1Hz phase rate measurements during geomagnetic storms: Case studies  
Authors: Reza Ghoddousi-Fard, Paul Prikryl, Knut S. Jacobsen, Tibor Durgonics, François Lahaye

Maruyama, Naomi (NOAA/NWS)  
Poster Number: I15  
Poster - Impact of Lower Atmospheric Forcing on Storm Time Response of the Ionosphere-Plasmasphere-Magnetosphere Coupling  
Authors: Joe Schoonover, George Millward, Tzu-Wei Fang, Tim Fuller-Rowell, Adam Kubaryk, Zhuxiao Li, Houjun Wang, Rashid Akmaev, Valery Yudin, Bob Oehmke, Cecelia Deluca, Raffaele Montuoro, Weiyou Yang, Mark Iredell, Sam Trahan, Jacques Middlecoff, Mark Govett, Mariangeli Fedrizzi, Rodney Viereck, Mick Denton, Michael Henderson, Yuki Obana, Toshi Nishimura, Marc Hairston, Anthea Coster, Phil Richards, Jimmy Raeder

General Space Weather Services and Education (Wednesday)  

Bonadonna, Michael (OFCM)
Poster Number: G1
Poster - The National Space Weather Program: Two Decades of Interagency Partnership and Accomplishments
Authors: Michael Bonadonna1, Louis Lanzerotti2, Judson Stailey1

Szabo, Adam (NASA GSFC Code 672)
Poster Number: G2
Poster - Accurate 1 day solar wind forecasting with the Space Weather Flotilla
Authors: Szabo, Adam

Pankratz, Chris (Univ of Colorado / LASP)
Poster Number: G3
Poster - Facilitating Advancements in Space Weather Data Availability Through a Space Weather Testbed and Data Portal
Authors: James Craft, Thomas Berger, Thomas Baltzer, Fernando Sanchez, Daniel N. Baker, Allison Jaynes, Scot Elkington

Lauer, Chris (NOAA, Space Weather Prediction Center)
Poster Number: G4
Poster - SWPC Dissemination Modernization
Authors: Steven Hill, Marcus England, Kiley Gray, Chris Lauer, Ben Rowells

Mojica, Jonh (Utah State University)
Poster Number: G5
Poster - Tests of Radiation Damage Threshold of Raspberry Pi Zero in LEO Environment for OPAL CubeSat Project
Authors: Jonh Carlos Mojica Decena, JR Dennison, Brian Wood, Ryan Martineau, Michael J. Taylor

Cherkos, Alemayehu (Addis Ababa University)*EPOSTER
Poster Number: G6
Poster - Effect of viscosity on propagation of MHD waves in astrophysical plasma
Authors: S. B. Tessema

Poduval, Bala (Space Science Institute)*EPOSTER
Poster Number: G7
Poster - Methods of Improving Space Weather Prediction
Authors: Bala Poduval

Magnetosphere Research and Applications (Thursday)

Califf, Sam (NOAA/NCEI)
Poster Number: M1
Poster – GOES-16 Magnetometer Calibration and Validation
Authors: Sam Califf, Paul Loto'aniu, Rob Redmon

Boudouridis, Athanasios (University of Colorado at Boulder)
Poster Number: M2
Poster - Development of a Bow-tie Inversion Technique for Real-time Processing of the GOES-16 SEISS MPS-HI Electron Channels and Comparison of the Resulting Fluxes with the GOES-13 MAGED and EPEAD Electron Channels
Authors: J. V. Rodriguez, B. T. Kress

McCollough, James (Air Force Research Laboratory)
Poster Number: M3
Poster - DSX Space Weather Experiments (SWx): Capabilities and Science Plans
Authors: W. R. Johnston, J. P. McCollough, Y.-J. Su, and M. J. Starks

Sakaguchi, Kaori (National Institute of Information and Communications Technology)
Poster Number: M4
Poster - The SECURES Project: Space Environment Customized Risk Estimation for Spacecraft
Authors: Yasubumi Kubota, Tsutomu Nagatsuma, Mamoru Ishii

Parker, Linda (USRA)
Poster Number: M5
Poster - Spacecraft Charging Material Properties Database
Authors: Joseph I. Minow, NASA

Shen, Han-Wen (National central university)
Poster Number: M6
Poster - An analysis on geomagnetic activity related with Formosat-2 and Formosat-3 anomalies for space weather operations
Authors: Han-Wen Shen, Jih-Hong Shue, Tsung-Ping Lee

Winter, Lisa (Los Alamos National Laboratory)
Poster Number: M7
Poster - Background Radiation Models for DIORAMA
Authors: Elinor Mullin, Shawn Tornga

Young, Shawn (Air Force Research Laboratory)
Poster Number: M8
Poster - Comparison of MSFM, MSM and Denton models at GEO
Authors: Shawn Young, Robert Hilmer

Hosseini, Poorya (University of Colorado Denver)
Poster Number: M9
Poster - Investigating Magnetospheric Wave-Particle Dynamics with Ground based Observations
Authors: Poorya Hosseini, Mark Golkowski, Vijay Harid

Shen, Xiaochen (Shandong University)
Poster Number: M10
Poster - Foreshock transient-driven magnetospheric ULF waves with clear dawn-dusk asymmetry of wave power
Authors: Quanqi Shi, Boyi Wang, Hui Zhang, Mary Hudson, Yukitoshi Nishimura, Michael Hartinger, Anmin Tian, Qiu-Gang Zong, I. J. Rae, Alex Degeling
Kelbert, Anna (U.S. Geological Survey)
Poster Number: M11
Poster - Geoelectric field estimation and power-line integration using a 3D electrical conductivity model of the United States
Authors: Anna Kelbert, Christopher C. Balch, Greg M. Lucas, E. Joshua Rigler

Kouassi, Ngguessan (Université Felix Houphouet Boigny Abidjan-Cote d'Ivoire)
Poster Number: M12
Poster - Geomagnetically Induction effects related to impulsive Space Weather events at low latitudes
Authors: Nguessan KOUASSI, Vafi DOUMBIA, Boka KOUADIO

Rigler, E. Joshua (USGS)
Poster Number: M13
Poster - Interpolating Geomagnetic Observations
Authors: Fiori, Robyn A. D.; Pulkkinen, Antti; Wiltberger, Michael; Balch, Christopher

Denton, Michael (Space Science Institute)
Poster Number: M14
Poster - A Flux Model of the Inner Magnetosphere
Authors: Mike Henderson, Juan Rodriguez

Cade, Trey (Baylor University)
Poster Number: M15
Poster - Performance of the Kp Index During Magnetic Storms
Authors: Courtney Turner

Shue, Jih-Hong (National Central University)
Poster Number: M16
Poster - Which interplanetary magnetic field orientation is for the true ground state of the magnetosphere?
Authors: Masahito Nose, Tohru Araki, Toshihiko Iyemore

Lucas, Greg (USGS)*EPOSTER
Poster Number: M17
Poster - Calculating realistic voltages across the US power grid utilizing measured impedances and magnetic fields
Authors: Greg M. Lucas, Jeffrey J. Love, Anna Kelbert, Paul A. Bedrosian, E. Joshua Rigler

Woodroffe, Jesse (Los Alamos National Laboratory)*EPOSTER
Poster Number: M18
Poster - A Global Perspective on Geomagnetic Disturbances
Authors: Jesse Woodroffe, Michael Henderson

Shekhar Sapna (Dartmouth College)*EPOSTER
Poster Number: M19
Authors: Robyn Millan
Tenishev, Valeriy (University of Michigan)*EPOSTER
Poster Number: M20
Poster - Energetic particle radiation in Earth' magnetosphere and its variability in response to that of the Sun
Authors: Igor Sokolov, Tamas Gombosi

Zheng, Yihua (NASA Goddard Space Flight Center)*EPOSTER
Poster Number: M21
Poster - Assessment of Radiation and Plasma Environment Modeling Capabilities
Authors: Yihua Zheng, Natalia Ganushkina, Timothy B Guild, Pier Jiggens, Insoo Jun, Joseph E. Mazur, Matthias Meier, Joseph I Minow, Dave Pitchford, Paul O’Brien, Yuri Shprits, W. Kent Tobiska, Michael A. Xapsos, M. M. Kuznetsova