

# 2021 Space Science Program Review

Dr. Julie Moses | January 11-14, 2022 | Virtual

## Agenda Day 1 | January 11, 2022

Time	Topic	Speaker
9:45	Zoom Login	
1000	Welcome and AFOSR news	Dr. Julie Moses
1015	Understanding and Predicting the Space Weather Impact of Extreme Events	Tim Fuller-Rowell, CIRES, CU-Boulder
1045	The Origin of HF and VHF Radio Emissions from Lightning and Radio Interferometer for Thunderstorm Studies	Ningyu Liu, UNH
1115	Understanding the Effects of Energy Input from the Solar Wind to the Thermosphere-Ionosphere System	Russell Landry, AFRL/RV
1145	Equatorial Ionospheric Dynamics during Geomagnetic Storms	Chaosong Huang, AFRL/RV
1215	Nonlinear Aspects of the Subauroral-Auroral Geospace	Evgeny Mishin, RV
1245	Global Ionospheric Processes	Jeff Holmes, RV
1315	LUNCH	
1415	Investigating the Range of Response of Auroral Electron Precipitation	Steve Kaeppler, Clemson
1445	Using GPS Radio Occultation to Monitor Sporadic-E	Capt Travis Hodos, AFIT
1515	Investigation of the Longitudinal Dependence of Ionospheric Density	Endawoke Yizengaw, Aerospace Corp
1545	Upper Atmosphere Emulator for Research on the Response of the T-I...	Jim Clemmons, UNH
1615	Terrestrial Influences on Space Weather due to Gravity Waves in the Arctic	Katrina Bossert, UAF
1645	MEETING ADJOURN	

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## Agenda Day 2 | January 12, 2022

Time	Topic	Speaker
9:45	Zoom Login	
1000	Sources of Polar Cap Poynting Flux and Particle Energy	Delores Knipp, CU-BOULDER
1030	Archiving and Enhancing the DMSP Special Sensor Data	Rezy Pradipita, Boston college
1100	Reconnection Signatures in Solar Magnetosphere	Capt Seth Garland, AFIT
1130	GNSS & Ionosonde Receivers for Investigation of Ionospheric	Cesar Valladares, UT-Dallas
1200	A Yb Fiber Amplifier-based Doppler He Lidar for Upper Atmospheric Research	Peter Dragic, UIUC
1230	VLF Waves and Energetic Particles in the Radiation	Anatoly Streltsov, Embry-Riddle University
1300	LUNCH	
1400	Modeling the Physics of the Near-Earth Radiation	Jay Albert, RV
1430	Solar Energetic Proton Access and Trapping in the Inner Magnetosphere	Mary Hudson, Dartmouth
1500	Experimental and Theoretical Investigation of Plasma Dynamics...	Paul Bellan, Caltech
1530	Constellation Ready Magnetometer	David Miles, U Iowa
1600	MEETING ADJOURN	

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## Agenda Day 3 | January 13, 2022

Time	Topic	Speaker
9:45	<b>Zoom Login</b>	
1000	Impact of Interplanetary Structure on SEP Transport	Elena Provornikova, JHU/APL
1030	MHD Heliosphere with Enhanced Background Solar	Tae Kim, UAH
1100	Heliospheric Non-Radial Plasma and Field Transport	Bernard Jackson, UCSD
1130	High Resolution Observations of the Sun at Big Bear	Vasyl Yurchysyn, NJIT
1200	ADAPT Multisource Ensemble Modeling	Carl Henney, RV
1230	The Physics of the Solar Chromosphere from Millimeter Wavelengths	Stephen White, RV
1300	<b>LUNCH</b>	
1400	Space Weather Forecasting Testbed	Tom Berger, CIRES
1430	The Solar Origin and Development of SEPs	Stephen Kahler, RV
1500	Preparing Today to use Polarimetry for Tomorrow's Space Weather Forecasting	Kurt DeKoning, CIRES
1530	Questions for Julie – This is time to engage Julie in questions via email or over Zoom or to arrange a telephone call.	Julie Moses, AFOSR
1600	<b>MEETING ADJOURN</b>	