

Sun-to-Belts Workshop: nowcasting, forecasting, hindcasting

Day 1 - Wednesday, July 21:

Mapping of Solar and Interplanetary Conditions and Propagation to Geospace

9:30	Welcome and Introduction	<i>Ioannis A. Daglis</i>
9:35	Forecasting the nascent solar wind: challenges, recent advances and outlook	<i>Rui Pinto</i>
9:55	Solar wind plasma properties during ortho-Parker IMF conditions and associated magnetosheath response	<i>Vincent Génot</i>
10:15	Recent Solar Orbiter observations of magnetic reconnection	<i>Benoît Lavraud</i>
10:35	Discussion (20min)	
10:55	Coffee Break	
11:15	Solar Orbiter observations of Kelvin-Helmholtz waves in the solar wind	<i>Rungployphan Kieokaew</i>
11:35	Geomagnetic indices forecasting: SafeSpace and beyond	<i>Antoine Brunet</i>
11:55	Extensive validation of the solar wind provided by Multi-VP + EUHFORIA and first results on the CME propagation	<i>Evangelia Samara</i>
12:15	Helio1D: The Space Weather Pipeline Prototype from Sun to Earth	<i>Rungployphan Kieokaew</i>
12:35	Discussion (20min)	
12:55	Lunch Break	
13:40	Transfer to town	
14:15	Bus transfer to Aghia Kyriaki	
15:00	Boat Excursion to Kleftiko Beach	

Sun-to-Belts Workshop: nowcasting, forecasting, hindcasting

Day 2 – Thursday, July 22:

Inner Geospace Dynamics (Plasmasphere, Waves, Wave-Particle Interactions, Impacts of Various Drivers)

9:30	New equations for the plasmatrough region and redefinition of the plasmopause transition region in the BIRA-IASB plasmasphere model	<i>Fabien Darrouzet</i>
9:45	The improvements of the plasmasphere model and the influence of the cold plasma on the radiation belts	<i>Viviane Pierrard</i>
10:00	Multi-point observation of hiss emerging from lightning whistlers	<i>Ondrej Santolík</i>
10:15	Impact of the distance to the magnetopause on the EMIC occurrence rate	<i>Benjamin Grison</i>
10:30	Discussion (30min)	
11:00	Coffee Break	
11:30	ULF waves originating in solar wind dynamic pressure enhancements	<i>Marina Georgiou</i>
11:45	Machine learning techniques for automated ULF wave recognition	<i>George Balasis</i>
12:00	D _{LL} database in the framework of the SafeSpace project: Statistics and dependence on solar wind parameters, geomagnetic indices and coupling functions	<i>Christos Katsavrias</i>
12:15	Controlling effect of wave models and background plasma environment on the dynamic evolution of radiation belt electrons	<i>Dedong Wang</i>
12:30	Discussion (30min)	
13:00	Lunch Break	
14:00	Probing radial transport in the inner magnetosphere via observations of relativistic electron flux oscillations	<i>Theodore Sarris</i>
14:20	Ultra-relativistic electrons in the radiation belts	<i>Yuri Shprits</i>
14:40	On the semi-annual variation of relativistic electrons in the outer radiation belt	<i>Constantinos Papadimitriou</i>
15:00	Discussion (30min)	
15:30	Coffee Break	
16:00	Coordinated observations of the effect of consecutive HSS pulses on relativistic electron enhancement	<i>Afroditi Nasi</i>
16:20	Electromagnetic imprint of Hurricane Harvey in the magnetosphere	<i>Ivana Kolmasova</i>
16:40	Discussion (20min)	
17:00	End of day 2	
20:00	Workshop Dinner	

Sun-to-Belts Workshop: nowcasting, forecasting, hindcasting

Day 3 - Friday, July 23:

Radiation Belt Modelling, Forecasting and Hindcasting, RB Indicators Service

9:30	ESA space weather activities in the Space Safety Programme	<i>Juha-Pekka Luntama</i>
9:50	Heliospheric spacecraft operations at ESOC	<i>Simon Plum</i>
10:05	Radiation Belt Forecast and Nowcast (RB-FAN) activity in the context of ESA Space Situational Awareness	<i>Sebastien Bourdarie</i>
10:20	An overview of the Geant4-based particle facility for future science mission support (G4G) ESA project	<i>Omiros Giannakis</i>
10:30	Discussion (30min)	
11:00	Coffee Break	
11:30	The PAGER project	<i>Yuri Shprits</i>
12:00	Harmonization of energetic electron flux measurements / First results from ESA Next Generation Radiation Monitor units	<i>Ingmar Sandberg</i>
12:30	Discussion (30min)	
13:00	Lunch Break	
14:00	Space Science Outreach: Luxury or necessity? Using art to introduce Space Science to a wider audience	<i>Konstantina Moutsouroufi</i>
14:15	Improving radiation belt dynamic codes using robust, accurate and efficient numerical methods: The Salammbô Finite Volume code	<i>Nourallah Dahmen</i>
14:35	Machine Learning for radiation belt in-situ measurements pre-processing	<i>Antoine Brunet</i>
14:55	Discussion (30min)	
15:25	Coffee Break	
15:55	Quantitative forecast of MeV electrons and geomagnetic indices using solar wind as input	<i>Xinlin Li</i>
16:15	Interplanetary parameter schemes that drive the source/seed electron population at GEO and a regression forecasting model	<i>Christos Katsavrias</i>
16:35	Electron Radiation Belt model incorporating the semi-annual variation and interplanetary solar drivers	<i>Sigiava Aminimalragia-Giamini</i>
16:55	Discussion (30min)	
17:25	End of Day 3	