

# SESSION DETAIL FOR SCIENTIFIC PROGRAMME: JOINT - IAGA

## ORAL PRESENTATIONS

### JA1 - Space Weather Throughout The Solar System: Bringing Data And Models Together (IAGA, IAMAS)

Session ID	Abstract ID	Abstract Title	Title	Authors First Name	Authors Last Name	Date		Time	Venue
JA1	1383	Dynamic Mapping and Ensemble Modeling of Solar Eruptive Phenomena	Dr.	Barbara	Thompson	Tue	29-Aug	08h30	2.41 - 2.43
JA1	1432	A Unique Method for Non-Linear Force-Free Field Models of Coronal Magnetic Fields: Applications of the the Flux Rope Insertion	Dr.	Antonia	Savcheva	Tue	29-Aug	09h00	2.41 - 2.43
JA1	551	Prediction and Testing of Type II Radio Emission, White Light Images, and CME Properties from the Sun to Earth	Dr.	Iver	Cairns	Tue	29-Aug	09h15	2.41 - 2.43
JA1	317	Space Weather Prediction Through the Observation and Modeling of Coronal Magnetism	Dr.	Sarah	Gibson	Tue	29-Aug	09h30	2.41 - 2.43
JA1	847	Storm time ion composition variations in the near earth plasma sheet using space borne measurements	Ms.	Megha	Pandya	Tue	29-Aug	09h45	2.41 - 2.43
JA1	70	Information theoretical approach to discovering solar wind drivers of the outer radiation belt	Dr.	Simon	Wing	Tue	29-Aug	10h30	2.41 - 2.43
JA1	837	Integrated Modeling Studies in the Project for Solar-Terrestrial Environment Prediction (PSTEP)	Dr.	Kanya	Kusano	Tue	29-Aug	11h00	2.41 - 2.43

JA1	1148	A New Scheme to Infer the Maximum Dst of Earth-directed CMEs	Dr.	Spiros	Patsourakos	Tue	29-Aug	11h30	2.41 - 2.43
JA1	842	Characteristics of partial ring current during geomagnetic storms and substorms	Dr.	Sandeep	Kumar	Tue	29-Aug	11h45	2.41 - 2.43

JA1	707	Space weather in the Saturnian System	Dr.	Maria	Andriopoulou	Tue	29-Aug	13h30	2.41 - 2.43
JA1	1034	The relationship between Na exospheric emission and Space Weather at Mercury	Dr.	Stefano	Orsini	Tue	29-Aug	14h00	2.41 - 2.43
JA1	309	Space Weather at Mars - Measurements from the Surface of Mars with RAD on the Mars Science Laboratory	Dr.	Donald	Hassler	Tue	29-Aug	14h30	2.41 - 2.43
JA1	736	In Situ Observations of Solar Wind Heliospheric Current Sheet Propagation and their relation to the Solar Coronal field	Dr.	Yong	Liu	Tue	29-Aug	14h45	2.41 - 2.43

JA1	1059	Ground-based space science from polar regions	Dr.	Michael	Kosch	Tue	29-Aug	15h30	2.41 - 2.43
JA1	1224	Ionospheric Specifications and Forecasts using the GAIM Data Assimilation Models	Dr.	Ludger	Scherliess	Tue	29-Aug	16h00	2.41 - 2.43
JA1	275	Carbon Dioxide Trends in the Mesosphere and Lower Thermosphere	Dr.	Liyng	Qian	Tue	29-Aug	16h15	2.41 - 2.43
JA1	968	Separating different contributions for the South Atlantic Anomaly variability	Dr.	Joao	Domingos	Tue	29-Aug	16h30	2.41 - 2.43

## JA2 - The Referencing Of Geophysical Data Products: The Role Of Dois (IAGA, IAMAS, IAPSO)

Session ID	Abstract ID	Abstract Title	Title	Authors First Name	Authors Last Name	Date		Time	Venue
JA2	565	Recent activity of DOI-minting to solar-terrestrial physics data in Japan	Dr	Masahito	Nose	Thurs	31-Aug	13h30	2.61 - 2.63
JA2	886	Geophysical data publishing under the "Earth Science DataBase" project	Dr	Anatoly	Soloviev	Thurs	31-Aug	13h45	2.61 - 2.63
JA2	1195	Approach to Assignment and Management of DOIs for Oceanographic Data	Dr	Toru	Suzuki	Thurs	31-Aug	14h00	2.61 - 2.63
JA2	802	On recognition of "primary data" producers through DOI of "secondary" data	Dr	Yasuhiro	Murayama	Thurs	31-Aug	14h15	2.61 - 2.63
JA2	1021	Using Digital Object Identifiers in INTERMAGNET	Dr	Simon	Flower	Thurs	31-Aug	14h30	2.61 - 2.63
JA2	1344	International Service of Geomagnetic Indices: Current status	Dr	Aude	Chambodut	Thurs	31-Aug	14h45	2.61 - 2.63
JA2	1300	Doi for BCMT dataset of magnetic observatories	Dr	Pierdaveide	Coisson	Thurs	31-Aug	15h00	2.61 - 2.63

## JA3 - Frontier Challenges In Data Assimilation And Ensemble Forecasting For The Atmosphere, Ocean And Solid Earth (IAGA, IAMAS, IAPSO)

Session ID	Abstract ID	Abstract Title	Title	Authors First Name	Authors Last Name	Date		Time	Venue
JA3	93	On the improvement of data assimilation by better use of ensemble information	Dr	Neill	Bowler	Wed	30-Aug	08h30	2.41 - 2.43

JA3	291	Perturbation Methods for Ensemble Data Assimilation	Dr	Kazuo	Saito	Wed	30-Aug	09h00	2.41 - 2.43
JA3	448	A study on ensemble forecast associated with conditional nonlinear optimal perturbations	Ms	Ye	Wang	Wed	30-Aug	09h15	2.41 - 2.43
JA3	1521	Ensemble data assimilation and localization	Dr.	Chris	Snyder	Wed	30-Aug	09h30	2.41 - 2.43

JA3	411	Similarities Between optimal Precursors and Optimally Growing initial Errors and targeted observations in weather and climate predictions	Dr	Mu	Mu	Wed	30-Aug	10h30	2.41 - 2.43
JA3	154	Relationships between optimal precursors triggering NAO onset and optimally growing initial errors during NAO prediction	Mr.	Guokun	Dai	Wed	30-Aug	11h30	2.41 - 2.43
JA3	437	Predictability barrier of IOD predictions and related target observation	Ms	Da	Liu	Wed	30-Aug	11h45	2.41 - 2.43
JA3	343	Relationship between optimal initial errors and optimal precursors for Indian Ocean dipole predictions	Dr	Rong	Feng	Wed	30-Aug	11h00	2.41 - 2.43
JA3	129	Role of sensitive physical parameter combinations in reducing simulation and forecast errors of sensible heat flux and latent heat flux in China	Dr.	Guodong	Sun	Wed	30-Aug	11h15	2.41 - 2.43

JA3	1522	Data assimilation for operational ocean forecasting and reanalysis	Dr	Matt	Martin	Wed	30-Aug	13h30	2.41 - 2.43
JA3	142	On the development of a better ensemble prediction system	Dr	Neill	Bowler	Wed	30-Aug	14h00	2.41 - 2.43

JA3	215	Ne'er for the faint of heart: Analysis and forecast error covariance estimates using the adjoint of 4D-Var	Prof	Andrew	Moore	Wed	30-Aug	14h15	2.41 - 2.43
JA3	443	Impact of sea surface temperature observations on an eddy-resolving ocean reanalysis of the Agulhas system	Dr	Bjorn	Backberg	Wed	30-Aug	14h30	2.41 - 2.43
JA3	546	Automatic model calibration for improving WRF model forecasting	Prof	Qingyun	Duan	Wed	30-Aug	14h45	2.41 - 2.43

JA3	803	A discussion of marine biogeochemical ocean data assimilation	Prof	Christopher	Edwards	Wed	30-Aug	15h30	2.41 - 2.43
JA3	887	The GIGG-Delta filter: Data assimilation for intermittent variables with skewed uncertainty distributions like cloud, precipitation and ice.	Dr	Craig	Bishop	Wed	30-Aug	16h00	2.41 - 2.43
JA3	1158	Assimilation of the remotely sensed ice concentration data into the CICE model	Dr	Max	Yaremchuk	Wed	30-Aug	16h30	2.41 - 2.43
JA3	546	Skillful climate forecasts of the tropical Indo-Pacific using model-based analogs	Dr.	Matt	Newman	Wed	30-Aug	16h45	2.41 - 2.43
JA3	1155	Analyzing the ocean with the latest ECCO Ocean State Estimate	Dr	Ichiro	Fukomori	Wed	30-Aug	16h15	2.41 - 2.43

JA3	165	A stochastic re-analysis of transient motions within the Earth's core	Dr	Nicolas	Gillet	Fri	01-Sep	13h30	2.64 - 2.66
JA3	958	Insights into millennial-scale core dynamics through archeomagnetic data assimilation	Dr	Sabrina	Sanchez	Fri	01-Sep	14h30	2.64 - 2.66
JA3	364	Tsunami Scenario in Bay of Bengal	Prof	Harsh	Gupta	Fri	01-Sep	14h45	2.64 - 2.66

JA3	1026	Use of Satellite Magnetic Field Observations in Data Assimilation Studies of Core Dynamics	Dr	Chris	Finlay	Fri	01-Sep	14h00	2.64 - 2.66
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JA3	1526	Measuring surface deformation from UAVSAR and GPS to Improve Estimates of Future Earthquake Potential	Dr	Andrea	Donnellan	Fri	01-Sep	15h30	2.64 - 2.66
JA3	1328	Towards understanding the impact of assimilating along-track SLA data on simulated eddy characteristics in the Agulhas System	Mr.	Marc	de Vos	Fri	01-Sep	16h15	2.64 - 2.66
JA3	971	Estimating and applying convective scale covariance structures		Jan	Keller	Fri	01-Sep	16h30	2.64 - 2.66
JA3	776	Catalyzing Innovation in Weather Science: the World Weather Research Programme	Dr	Julia	Keller	Fri	01-Sep	16h45	2.64 - 2.66
JA3	559	Target observations for two types of El Nino events prediction and its role in reducing spring predictability barrier influences	Prof	Wansuo	Duan	Fri	01-Sep	16h00	2.64 - 2.66

### JA4 - Solar Related Variability Of The Atmosphere (IAGA, IAMAS)

Sessi on ID	Abstra ct ID	Abstract Title	Title	Authors First Name	Authors Last Name	Date		Time	Venue
JA4	200	Solar Radiative Forcing	Ms	Natalie	Krivova	Fri	01-Sep	08h30	2.41 - 2.43
JA4	938	Solar forcing for CMIP6	Mr	Bernd	Funke	Fri	01-Sep	09h00	2.41 - 2.43

JA4	400	Surface Pressure Responses to Ionospheric Potential Change: Independent Responses to Solar Wind and Internal Atmospheric Electrification	Mr	Brian	Tinsley	Fri	01-Sep	09h30	2.41 - 2.43
JA4	607	Variability of planetary waves: is there an impact of the solar-magnetic field?	Ms	Lisa	Küchelbacher	Fri	01-Sep	09h45	2.41 - 2.43

JA4	754	Interannual variability on winds and tides from MLT winds at low latitude in the Southern Hemisphere	Mr	Lourivaldo	Lima	Fri	01-Sep	10h30	2.41 - 2.43
JA4	1225	Seasonal and solar cycle variability of the 6.5 day wave in the mesosphere and lower thermosphere over low latitudes	Mr	Sundaraman	Satishkumar	Fri	01-Sep	11h00	2.41 - 2.43
JA4	257	Quarterdiurnal tide in the mesosphere/lower thermosphere	Mr	Christoph	Jacobi	Fri	01-Sep	11h15	2.41 - 2.43
JA4	100	A 2-day time delay of thermospheric and ionospheric responses to solar irradiation at various UV wavelengthes	Mr	Shunrong	Zhang	Fri	01-Sep	11h30	2.41 - 2.43

JA4	578	Contribution of relativistic electron precipitation to ionization of atmosphere and ozone changes	Ms	Irina	Mironova	Fri	01-Sep	13h30	2.41 - 2.43
JA4	1475	The representation of solar cycle signals in stratospheric ozone in satellite observations and global models	Ms	Amanda	Maycock	Fri	01-Sep	14h00	2.41 - 2.43
JA4	229	Downward Wave Reflection as a Mechanism for the Stratosphere-Troposphere Response to the 11-year Solar Cycle	Ms	Hua	Lu	Fri	01-Sep	14h30	2.41 - 2.43
JA4	489	Has past solar activity led to the destruction of ancient civilizations?	Mr	Jean	Rozelot	Fri	01-Sep	14h45	2.41 - 2.43

JA4	895	Solar influence on North Atlantic variability	Mr	Rémi	Thiéblemont	Fri	01-Sep	15h30	2.41 - 2.43
JA4	74	Climate and ozone layer response to solar irradiance and energetic particle precipitation variability	Mr	Eugene	Rozanov	Fri	01-Sep	16h00	2.41 - 2.43
JA4	1261	Modeling and Predicting of Solar Forcing of Total Column Ozone over Kenya Using Regression and Artificial Neural Networks	Ms	Carolyne	Songa	Fri	01-Sep	16h30	2.41 - 2.43
JA4	1263	Statistical Study of Solar Forcing of Total Column Ozone Variation Over Three Cities in Kenya	Ms	Carolyne	Songa	Fri	01-Sep	16h45	2.41 - 2.43