

Panels (P)

Quantitative Assessment of Current and Emerging Space Weather Modelling Capabilities for Improved Space Weather Services (PSW.1)

Consider for oral presentation.

NEAR-EARTH RADIATION AND PLASMA ENVIRONMENT COMMUNITY APPROACH TO MODEL VALIDATION REGARDING IMPACTS ON (AERO)SPACE ASSETS

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In order to assess the performance of space environment models that are relevant to various impacts on (aero)space assets, the ISWAT Near-Earth Radiation and Plasma Environment community has been actively involved in engaging different communities together with the goal of addressing the issue from a systematic perspective. Information will be provided in first defining the essential space environment quantities (ESEQ) that are most relevant to the impacts (also directly measurable) and the corresponding essential effect quantities that are more easily understandable/useful for end-users. Metrics for measuring the model performance for different impacts/applications, uncertainties of models and observations, and methods of carrying out and archiving such model validation efforts/results for long-term performance assessment and tracking will be the focus of the presentation.