

# SEP add-ons to existing models

(splinter session 1, Tues 4/1 1:30 – 2:30 pm. M. L. Mays, J. Luhmann)

Description: Interpreting SEP data and modeling SEP events at various spacecraft requires an understanding of the global heliospheric magnetic field topologies connecting spacecraft to shock sources. Making SEP models available for CCMC research and operational users is one of CCMC's top priorities. Heliospheric model outputs are a necessary ingredient for SEP simulations. The CCMC is making steps towards offering a system to run SEP models driven by a variety of heliospheric models available at CCMC.

Some session contributors: Dusan Odstrcil, Nathan Schwadron , Igor Sokolov, Arik Posner, Leila Mays (for Janet Luhmann)

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Session discussion topics include:

- How different models will fit into such a system, and what aspects are necessary for making the system useful tool for model developers and users.
- Challenges of integrating the SEP physics with the MHD heliospheric model results
- Limitations of the various codes (might include things like realism of modeled solar wind and CMEs, spatial resolution, near-Sun region, transport assumptions (eg scattering, drifts), forecasting potential, etc.)
- Current status and near term expectations for each effort underway. What is the expected outcome and when. What developments may come later?

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