

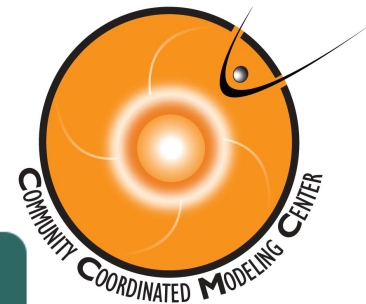
Advance Predictions of Solar Wind Conditions at L1: Quantifying Performance **Agenda**

- 17:15—17:20: Introduction (5 minutes) (Leila Mays)
- 17:20—17:35: Each team will present a very brief summary (~5 minutes/topic)
 - CME Arrival Time and Impact Working Team (Christine Verbeke)
 - 3D CME Kinematics and Topology Working Team (Barbara Thompson)
 - IMF Bz at L1 (Matt West on behalf of Neel Savani)
- 17:35—18:30: Open for discussion on each topic (~20 minutes/topic)

International Forum on Space Weather Capabilities Assessment

The Forum brings together space environment experts, models developers, data providers, forecasters and end-users to

- define **internationally recognized metrics** that are meaningful and informative to end-users, developers, and decision makers;
- evaluate the **current state** of space environment models, applications and forecasting techniques;
- establish a procedure to quantify and **track progress** over time;
- **facilitate communications** between forecasters and researchers;
- address **challenges** in data-model comparison



SUPERTOPIC: QUANTIFYING SCIENTIFIC PROGRESS

CCMC facilitator(s): B.Thompson

- **Assessment of Understanding and Quantifying Progress Toward Science Understanding and Operational Readiness**
(Leads: A. Halford, S. Morley, A. Kellerman, B. Thompson)

SOLAR

CCMC facilitator(s): P. Macneice

- **Solar Flare Prediction** (Leads: S. Murray, M. Georgoulis, S. Bloomfield, K.D. Leka
Scoreboard Leads: S. Murray, M.L Mays) [SSA-0,SSA-6](#)
- **Coronal & Solar Wind Structure**
Coronal & SW Structure; Ambient SW; Coronal Hole Boundaries
(Leads: P. Macneice, L. Jian) [SSA-7](#)
- **3D CME kinematics and topology** (Leads: B.Thompson, C.Moestl, D.Barnes)
- **Solar Indices and Irradiance** (Leads: J. Klenzing, C. Henney, K. Muglach) [SSA-0](#)

GEOSPACE: Geomagnetic Environment

CCMC facilitator(s): L.Rastaetter

- **Ground Magnetic Perturbations: dBdt, delta-B, GICs, FACs**
(Leads: D. Welling, H. Opgenoorth, C. Ngwira) [SSA-1](#)
- **Geomagnetic Indices** (Leads: M. Liemohn) [SSA-1](#)
- **Magnetopause location and geosync. orbit crossing**
(Leads: Y. Collado-Vega, S. Merkin) [SSA-1](#)

HELIOSPHERE

CCMC facilitator(s): M.L. Mays, A. Taktakishvili, P. Macneice

- **CME Arrival Time** (Leads: C. Verbeke, M.L. Mays, A. Taktakishvili) [SSA-1](#)
- **IMF Bz at L1** (Leads: N. Savani, P. Riley) [SSA-1](#)
- **SEPs** (Leads: I.G. Richardson, P. Quinn, M. Marsh, M.L. Mays
Scoreboard Leads: M. Dierckxsens, M. Marsh) [SSA-3,SSA-6](#)

GEOSPACE: Auroral Region

CCMC facilitator(s): M.Kuznetsova

- **Auroral precipitation and high latitude ionosphere electrodynamics**
(Leads: R. Robinson, Y. Zhang, B. Kosar)

RADIATION and PLASMA EFFECTS Scope of work

CCMC facilitator(s): Y. Zheng, M. Kuznetsova

- **Surface Charging** *few eV - keV electrons, plasma density*
(Leads: J. Minow, D. Pitchford, N. Ganushkina) [SSA-6](#)
- **Internal Charging** *keV-MeV electrons*
(Leads: P. O'Brien, Y. Shprits) [SSA-6](#)
- **Single Event Effects** *MeV-GeV-TeV protons, ions*
(Leads: M. Xapsos, J. Mazur, P. Jiggins) [SSA-3,SSA-6](#)
- **Total Ionizing Dose** *keV-MeV electrons, keV-GeV protons, ions*
(Leads: I. Jun, T. Guild, M. Xapsos) [SSA-6](#)
- **Radiation effects for aviation** (Leads: K. Tobiska, M. Meier) [SSA-6](#)

IONOSPHERE

CCMC facilitator(s): J. Shim, M. Kuznetsova

- **Neutral Density and Orbit Determination at LEO**
(Leads: S. Solomon, T. Fuller-Rowell, S. Bruinsma, E. Sutton) [SSA-2](#)
- **Global & Regional TEC** (Leads: L. Scherliess, R. Calfas) [SSA-4](#)
- **Ionosphere Plasma Density: NmF2/foF2, hmF2, TEC**
(Leads: I. Tsagouri, M. Angling, J. Shim) [SSA-5](#)
- **Ionosphere Scintillation** (Leads: E. Yizengaw) [SSA-5](#)

INFORMATION ARCHITECTURE

CCMC facilitator(s): C. Wiegand

- **Information Architecture for Interactive Archives (IAIA) SPASE metadata implementation**

SOLAR

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