



PRediction Of Geospace Radiation Environment and Solar wind parameterS 637302

2nd Stakeholder Advisory Board
January 10, 2017

GFZ, Potsdam, Germany

Minutes

Attendees

Andrej Rozkov (Project Officer, REA), Simon Walker (project manager USD), Michael Balikhin (chair scientific steering committee USD), Richard Boynton (USD), Tony Arber (UW), Keith Bennett (UW), Yuri Shprits (GFZ), Mike Liemohn (UM), Vitaliy Yatsenko (NASU), Peter Wintoft (IRF), Volodya Krasnoselskikh (CNRS/LPC2E), Stepan Dubyagin (FMI), Maria Kuznetsova (SAB).



Via Skype

Zerefsan Kaymaz (external reviewer, ITU Istanbul, Turkey).

Apologies

David Jackson (SAB) Jurgen Volpp (SAB), Didier Mourenas (SAB), Robertus von Fay-Siebenburgen (USD).

Agenda

The agenda, as previously circulated, was adopted.

Summary of Meeting

Maria Kuznetsova provide an excellent overview of the use of models currently installed and running at NASA/CCMC. These points are of interest when discussing Project IPR, in particular the implementation and use of models after the PROGRESS finishes.

- The mission of CCMC, a multi agency partnership, 'is to enable, support, and perform the research and development for next-generation space science and space weather models', (<http://ccmc.gsfc.nasa.gov/>).
- Everything is offered as open source. The goal is to give users the opportunity to use models in their work, not to make money.
- Use of models is open to all. There are certain rules that need to be followed for both model developers and users. Models are not disclosed.
- CCMC offers a flexible approach to modeling, enabling the coupling between the different models available. Thus it should be possible to compare the results of SWIFT with WSA-ENLIL.
- CCMC currently runs a copy of the VERB and AWESoM-R codes.



- The summer school presents a good opportunity to promote the activities and models of CCMC. A set of interactive exercises could be designed to give students hands on experience of using these models. Since all models are available on line, these exercises could be offered to students anywhere with an internet connection.
- It is important to get feedback from stakeholders and potential users. What products are required to fulfil their needs ? What do they require and how can we provide this data ? How should this data be displayed ? When do parameters reach 'critical values' ?
- CCMC runs a set of 'score boards', in which users can upload their forecasts for CME arrival times and compare them with result from other members of the community. Currently, scoreboards are also being developed for the forecast of Flares and SEP events. There are currently no plans to create a scoreboard for radiation belt forecasts. This could be a potential opening for PROGRESS.
- CCMC is open for collaboration on the implementation and use of new models and techniques. There will be a workshop International CCMC-LWS Working Meeting: Assessing Space Weather Understanding and Applications, April 3 - 7, 2017, Cape Canaveral, Florida (see http://ccmc.gsfc.nasa.gov/CCMC-LWS_Meeting/ for details). It was suggested that participants wishing to make use of CCMC should try to organise collaborative visits. In such cases, CCMC would require up to 1 month lead time to arrange entry etc..
- CCMC also have many links for the dissemination of results, including links with various planetariums and museums.