

Space environments and effects analysis section

The Space Weather Working Team

A. Glover*, A. Hilgers
 ESA/ESTEC Space Environments and Effects Analysis Section

* RHEA System, based at ESA/ESTEC

Space environments and effects analysis section

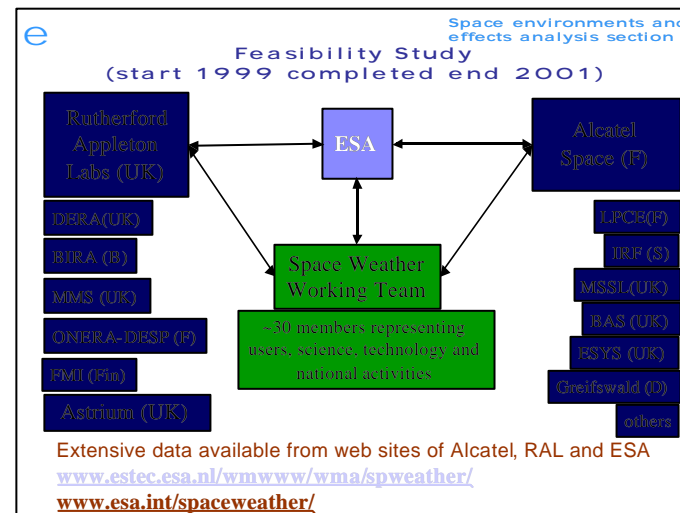
Overview

- History
- Current Status
- Restructuring
- How to join...

Space environments and effects analysis section

History

- Set up to coincide with the start of ESA's two parallel space weather studies in 1999
- members come from a variety of backgrounds and ESA member states
- Main goal: to advise consortia involved in parallel studies.
- Chaired by R. Gendrin during this period



Current Status

- More than 30 members from research/industry
- Meet regularly to discuss space weather strategy
- Consulted with regard to the pilot project organisation
- Initiate projects: e.g. COST 724 + discuss response to EU/ESA opportunities.
- Chairman: Prof. W. Riedler

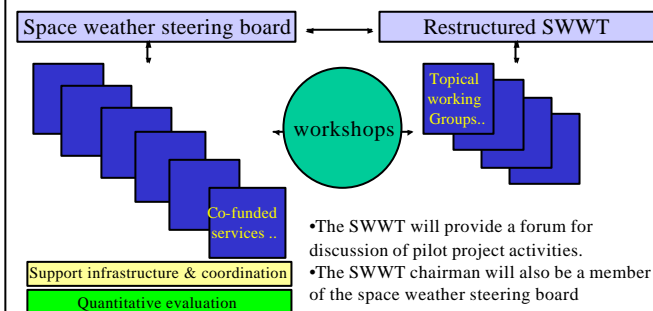
Updated SWWT Terms of Reference

- Promote coordinated European space weather activities at national and industry levels
- Identify and discuss potential collaborations/synergies with other structures or organizations e.g. EU FP6 & COST programmes, INTAS, SpaceGRID, ESA programmes
- Highlight and provide a forum for discussion of new European scientific and technological developments pertaining to Space Weather

Updated SWWT Terms of Reference Continued..

- Provide technical input to space weather steering board
- Advise ESA in the progress of the pilot project and the response among scientific and user communities.
- Assist ESA in evaluating lessons learned from operation of the pilot project and implementing these changes within a strategy for a future full-scale space weather programme.

SWWT and Pilot Project Interaction





SWWT Membership

- Open to any individual affiliated to an institution and/or private company currently undertaking space weather related activities. *Should include at least one representative from each service activity (funded & non funded)*
- The SWWT shall meet once every 6 months and 'Topical Groups' will maintain regular contact via email.
- A chairperson shall be elected by the membership every two years. ESA will propose suitable candidate(s).
- Summary of each meeting written at the end of each meeting and circulated via SWEN.



Topical Groups

- All SWWT members will be invited to participate in topical working groups (TWG).
- Each TWG will elect a spokesperson responsible for maintaining regular email contact amongst the TWG members and reporting to the SWWT at each 6 monthly meeting.
- TWG will be responsible for initiating projects, discussing new advances and/or progress in existing research and services.
- TWG will also be responsible for promoting pilot project activities within Europe and amongst communities outside.



Field covered so far in response to AO

- Ground and atmosphere
 - electric power distribution network, pipeline operators;
 - drilling
 - Atmospheric models
 - Tourism in high latitude region
 - Radiation in airplanes
- Telecom & Navigation
 - HF telecommunication (radio-amateurs, Civilian or military security).
 - Navigation
 - Scintillation
- Space:
 - Drag
 - Radiation
 - Plasma
- Science: Indices, Infrastructure
- Education & Outreach



Additional Topics

- Areas not covered by SDAs
- Other:
 - Databases
 - Environment Models
 - European Strategy



Next Steps

- Announcement of SWWT Restructuring via SWEN
- Announcement of candidates for Chairman made via e-mail to membership.
- Vote
- Next Meeting of SWWT on 18th Dec.
Topical groups to be discussed



How To Join?

- Send contact details & relevant field(s) of interest to alexi.glover@esa.int
- For more detail see www.esa.int/spaceweather under 'ESA & Space Weather'
- *SWWT* website. Currently password protected, but will be made public in 2003: www.estec.esa.nl/wmwww/swwt-private