

ESA SPACE WEATHER PROGRAMME STUDY

A. Hilgers
 Agence Spatiale Européenne
 www.estec.esa.nl/wmwww/spweather/
 Alain.Hilgers@esa.int

Content:

- Purpose of the study
- Organisation of the study
- Agenda
- Acknowledgements



Final Presentation, 6-7 December,
 ESTEC, Noordwijk, NL.

PURPOSE OF THE STUDY

- **Definition:** Conditions on the sun and in the solar wind, magnetosphere, ionosphere, and thermosphere that can influence the performance and reliability of space-borne and ground-based technological systems and can endanger human life or health [US NSWP].
- Various embryonic activities in Europe and strong expertise
- GSP study to study the need for a programme in Europe.



Final Presentation, 6-7 December,
 ESTEC, Noordwijk, NL.

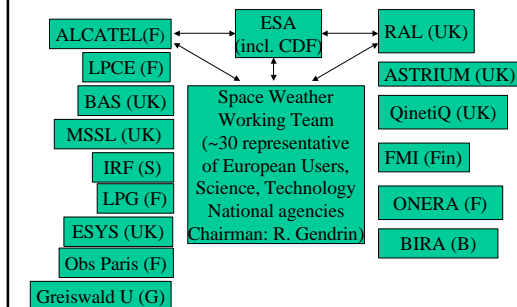
TOP LEVEL OBJECTIVES

- Investigate **needs** for & **benefits** of a Space Weather Programme
- Establish detailed **data requirements** w.r.t. quantification of effects
- Detailed analysis of potential **programme contents (3 scales)**:
 - Detailed definition of the space-segment
 - Detailed definition and proto-typing of the service-segment
 - Analysis of collaborative & organisational structures which need to be implemented by ESA and member states
- Proposal of a programme, including project implementation plan, cost estimate and risk analysis



Final Presentation, 6-7 December,
 ESTEC, Noordwijk, NL.

ORGANISATION



Final Presentation, 6-7 December,
 ESTEC, Noordwijk, NL.

AGENDA

Thursday 6 December – Start 8:45

- 1- Overview - Rationale - Benefits - User requirements - System requirements
 - (1.30 hours for each consortia + 20 min general discussion).

12:30 Lunch break

Resume: 13:30

- 2- Space infrastructure - Ground Infrastructure- Service - Prototype - Programmatic - Cost
 - (2 hours for each consortia + 30 min discussion)

18:00.Cocktail

Friday 7 December (morning only) - Start 9:00

- 3- Presentation of ESA activity (including CDF)
- Proposed follow-on and discussion
- Conclusion



Final Presentation, 6-7 December,
 ESTEC, Noordwijk, NL.

Acknowledgements

- Consortia leaders and members
- SWWT (R. Gendrin)
- GSP programme manager (F. Ongaro)
- ESA staff – CDF, conf, + on-site contractors



Final Presentation, 6-7 December,
 ESTEC, Noordwijk, NL.