

Roadmap Present Status

- Background and past activities
- Restructured SWWT
- Pilot Project
- Synergy with other activities
- Conclusion

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Background and past specific ESA activities

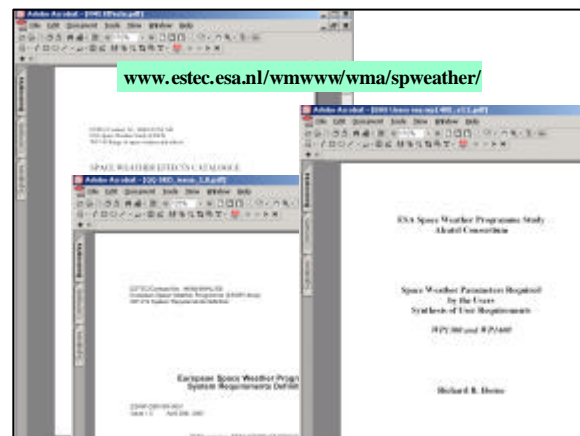
- SPEE=> Modelling requirements, space weather information server (1996-1998, TRP fund).
- **SWEN**: Space Weather Euro News (~350 registered people, started in 1996).
- **ESA Space Weather Workshop's** (Round table in 1996, workshops every year since 1998).
- **A Study of ESA Space Weather Programme** (2000-2001, GSP fund)
- **Space weather working team** (2000- Now)

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Space weather programme feasibility study (2000-2001, funded by GSP)

- Contractors: Consortia lead by Alcatel and RAL.
- Top-down approach
- User requirements list
- Measurements and observation requirements
- Programme and service requirements

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Space Weather Working Team

- Chairmen: R. Gendrin, W. Riedler
- Regular coordination meetings
- Advised feasibility study
- Example of recommended initiatives:
 - ESF proposal
 - ESA GMES proposal
 - Space weather COST proposal
- Promotion of space weather
- Will continue in a reorganised structure (chairman: F. Lefeuve).

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Synergy between activities

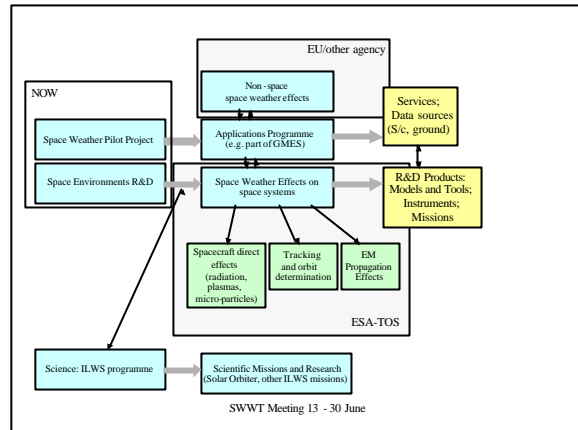
- Space Weather Working Team
- Space weather Advisory Board => report to MB (2004).
- Space weather pilot project (SDA, Support, Evaluation, 2003-2004).
- Other ESA R&D - Collaboration
- EU (COST, FP6, **GMES**)
- National activities
- EUMETSAT collaboration
- ISES
- Space and geoscience

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Applications Pilot Project

- Objectives: to develop a user community, establish evidence of viability for a future programme and identify future priorities;
- **Several (Now 22!) SDA's:** teaming user+service providers, who:
 - Become part of a coordinated network.
 - Establish user requirements and develop services over a period of 1-2 years
 - Evaluate the usefulness and value of the resulting products
 - Establish viability of continued activity and priority developments
 - Establish requirements for a common SW architecture.
 - Participate in meetings, coordination and outreach
 - Contribute to the cost-benefit analysis
 - Contribute to analysis of requirements for future systems.
- **Infrastructure, Support and Evaluation: ITT coming**
- **Assessment of Economic and Other Benefits: ITT coming**

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ISES

- International Space Environment Service based on RWC and Specialised Centres.
- Chairman: David Boteler (Canada).
- Vice-Chairman: Henrik Lundstedt (Sweden).
- Last meeting: May 2003 at NOAA, Boulder.
- Approved ESA participation to ISES as Special Support Agency.
 - Will create a working group on spacecraft effects.
 - Discussion on ESA-SEC data exchange initiated.
 - Next meeting in Paris (2004, TBC).



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Conclusions

- Feasibility study allowed to initiate coordinated European activity on space weather.
- Coordination of space weather activities within Europe will be strengthened in the next two years via SWWT and EU collaborations;
- Pilot project should provide quantitative basis for decisions;
- A sustainable approach for ground based and service segment is still to be found.
- World wide coordination of space weather application initiatives foreseen in the longer term.

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