

Evaluations of Space Research

EVALUATION SERIES No 9

International
Evaluation of

Astronomy and Astrophysics



October 2000

On request by SNSB, international expert panels have evaluated a number of disciplines within space research:

- Material Sciences 1990
- Plasma and Space Physics 1997 (with NFR)
- Remote Sensing 1999
- Astronomy and Astrophysics 2000 (with NFR)
- Meteorology 2004 (with VR)
- Space Physiology 2008
- Earth Observation 2010

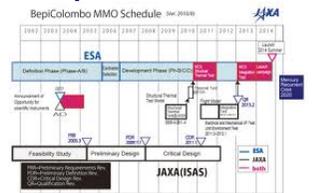
The focus has been on the level of excellence of the research results and the publications. Good bench-marking to VR/NFR.

SNSB's role in Swedish research funding

Most space projects are very **long-term**, and SNSB has the ambition to support **all phases** of the **R&D process**, including for hardware projects:

1. **Proposal** of new measurements and **new space projects**, based on open scientific questions.
2. Development of basic **technology** needed for future instrumentation in space.
3. Formation of (international) **consortia** for new instruments.
4. **Manufacturing** and testing of space qualified instruments
5. Make launched instruments **operational**, including **calibration** and **validation** of the data.
6. Planning of **measurements**, data acquisition, **archiving** of data.
7. **Analyses** and **interpretation** of data, **publication** of scientific results.

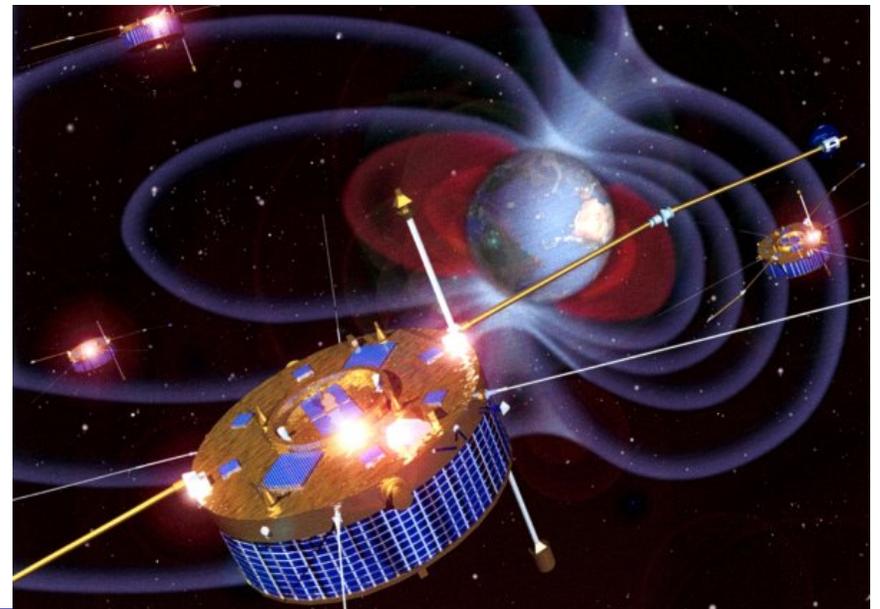
In the future, SNSB wants to **evaluate** its support to **all these phases**, not just the 7th one.



First target: Cluster

Reasoning behind choice:

- Space Physics is due to be evaluated (previously 1997)
- Four Cluster spacecraft launched in 2000.
- Mature project, presumably with most of the scientific results now published, although operations continue.
- Major Swedish contributions (instrument hardware, Scandinavian data centre, archiving, ...).
- Currently (2011) funded at 4 Mkr/year.





Evaluation Plan

Swedish involvement in the Cluster project

Evaluation Committee

3-5 internationally renowned scientists, expertise in Space Physics and space hardware, familiarity with the Swedish academic system and structure research funding.

Schedule

- 2011 April-May: Selection and invitation of experts for the evaluation committee
- 2011 June: Request to the Swedish Cluster community to submit reports
- 2011 October: Deadline for reports on Swedish Cluster activities
- 2012 Jan-March: Evaluation Committee visits Sweden, including site visits to IRF and KTH



SNSB Call 2011-R

**Call for Research Proposals in all fields of
Space Research and Earth Observation**

Deadline: 2011 May 11

Space Research Advisory Committee

- Mats Larsson (chair)
- Jörg Büchner
- Therese Encrenaz
- Rupert Gerzer - - - - New member:
- David Hall
- Ulrike Langematz
- Niels Lund
- Birgitta Nordström (vice chair)
- Eva Olsson
- Christoffel Waelkens



Prof. Dr. med. habil. **Rupert Gerzer**,
director of the Institute of Aerospace
Medicine in Köln-Porz