



# **National Research Programmes**

**Space Research Programme / Per Magnusson**  
**Innovative Satellite Programme / Johan Köhler**  
**Balloon and Rocket Programme / Kristine Dannenberg**

**Svenska Rymdforskarens Samarbetsgrupp (SRS)**  
**Uppsala, March 11-12, 2014**



# Outcome of last year's open calls

There were two open calls last year, 2013-R and 2013-BR.

The decisions were based on recommendations from two committees:

- 56 proposals      Space Research Advisory Committee (SRAC)
- 19 proposals      Remote Sensing Committee (FAK)

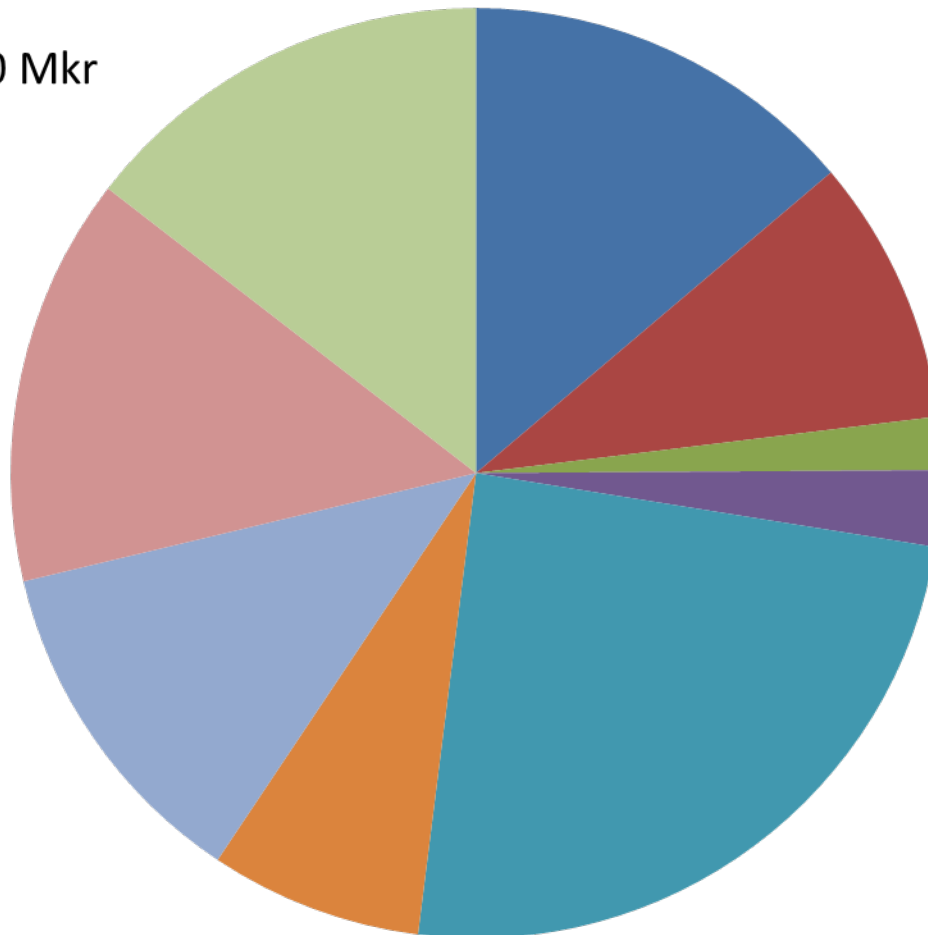
**Proposals:**                **75 proposals seeking 410 Mkr**

**Grants:**                **29 grants    totalling    82 Mkr**

Fraction of sought funding awarded (“**Beviljandegrad**”):

**Total 20%,**   PI Female 29%, PI Male 19%,   FAK 30%, SRAC 18%

410 Mkr

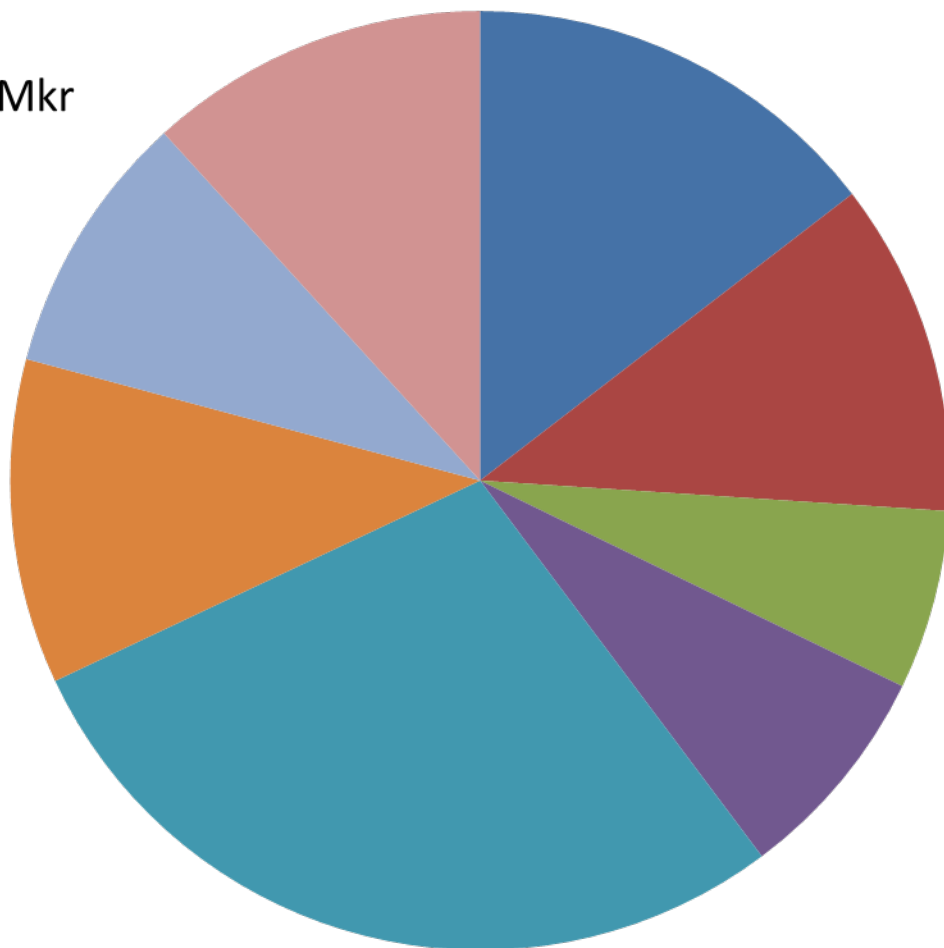


## Fördelning av sökta medel på forskningsdiscipliner

- Geofysik, land, vegetation
- Rymdmedicin
- Astrobiologi
- Hydrologi
- Atmosfären
- Magnetosfären, rymdväder
- Solsystemet
- Astrofysik
- Fundamentalfysik

82 Mkr

## Bidragsfördelning på forskningsdiscipliner



- Geofysik, land, vegetation
- Rymdmedicin
- Astrobiologi
- Hydrologi
- Atmosfären
- Magnetosfären, rymdväder
- Solsystemet
- Astrofysik
- Fundamentalfysik



# Overview of grant decisions 2013

10.2 Mkr	Juice/PEP
6.8 Mkr	Juice/RPWI
1.2 Mkr	Juice/SWI (excl. industry)
4.8 Mkr	Gaia/CU9
8.8 Mkr	Cheops/Data Flow Simulator
1.1 Mkr	BepiColombo/Mefisto (prolongation)
1.6 Mkr	Solar Orbiter/RPW
0.7 Mkr	Herschel ICC
12.6 Mkr	Prolongation of positions
82.0 Mkr	Grants based on open calls (SRAC+FAK)

The number of grants associated with new decisions of Swedish payload contributions was unusual in 2013.



# Restricted Calls in 2014

## **Solicited applications for special reasons (restricted address list)**

- **2013-IS** Three groups competing for first Innovative Satellite Project
- **2014-N** Swedish PLATO Team
- **2014-S** Seven running projects with SNSB commitments
- **2014-X** Extension of ESA missions – Swedish instrument operations
- **2014-P** Seven positions open for prolonged support

**SNSB decisions are due in June**

# Open Calls 2014-R and 2014-BR

**Two open calls are planned for 2014**

- 2014-R General Space Research (incl. Earth Observations)
- 2014-BR Balloon and Rocket projects at Esrange

**To be issued: March**  
**Deadline: May 14**

## News

- Maximum size of PDF: 5 MB
- Clarification of rules for salary costs



RESEARCH APPLICATION  
in response to call  
2014 - R

Form A

Principal Applicant	Co-Applicants
First name Surname	Name Affiliation
Address	
Phone	
E-mail	
Address in Sweden	
Research Programme	
Title of programme	
Start year	
End year	
Short description of the proposed research programme	
Sought funding	
	2015 2016 2017 2018
	0 kkr 0 kkr 0 kkr 0 kkr

Swedish National  
Space Board

ADMINISTRATIVE INFORMATION

Form B

Grant administration	Subproject #1	Subproject #2	Subproject #3
Sought amounts (in euro)	0 kkr	0 kkr	0 kkr
"Orvotlands organ"			
"Organisationsnummer"			
Indirect cost ratio	Staff	Travel	Material, services
Project leader			
Type of project			
Suggested reviewers			
Name	Gender	Affiliation	E-mail address



# Innovative Low-cost Science Missions

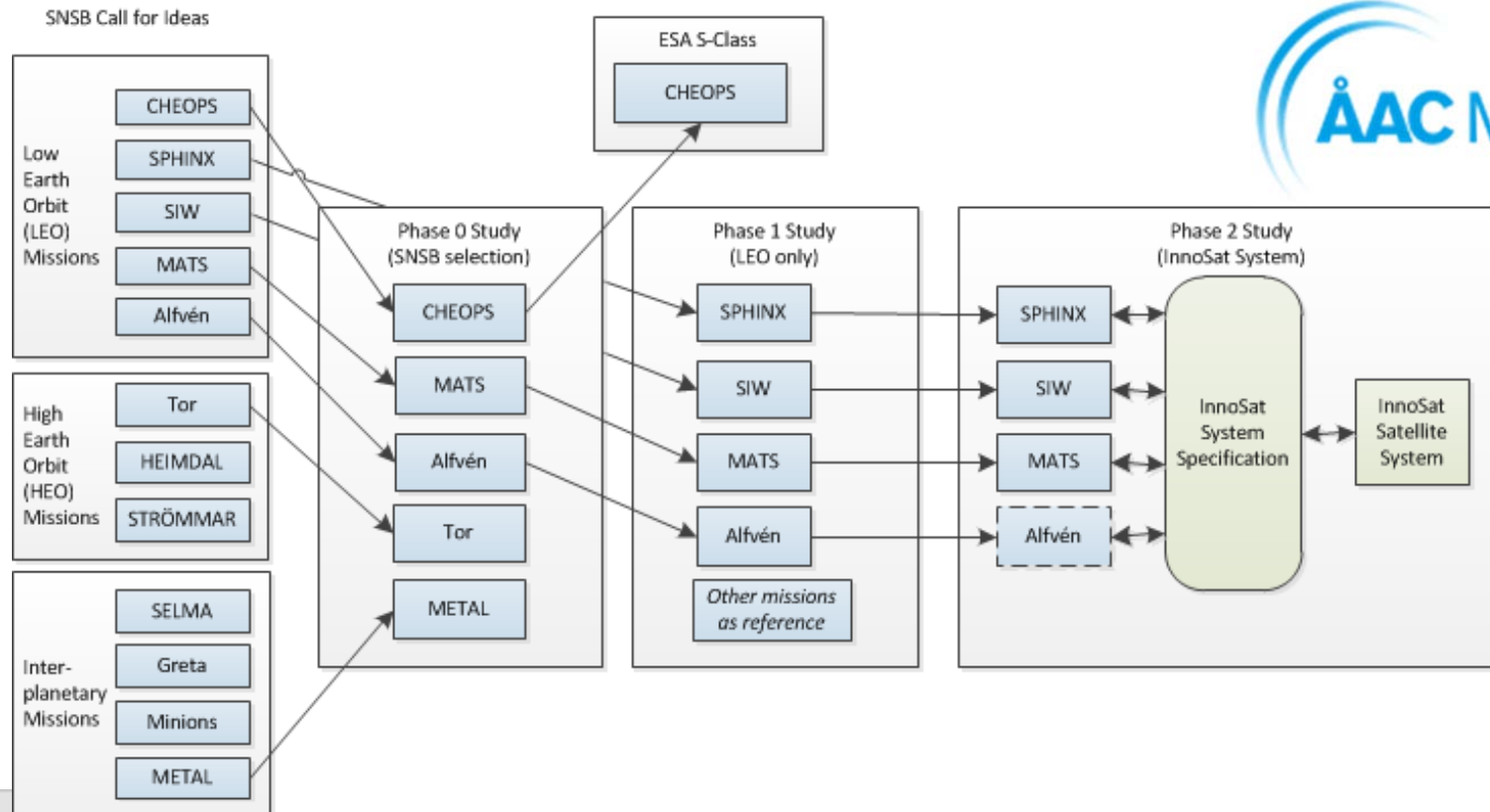
Potential National Satellite Programme?



# Scope of a potential programme

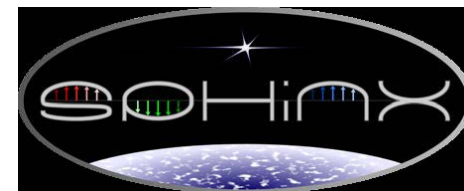
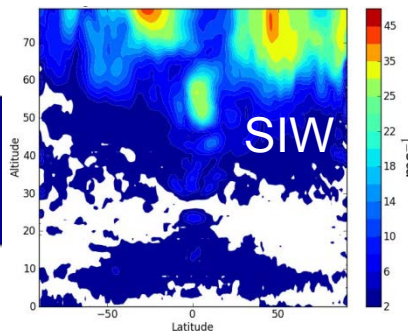
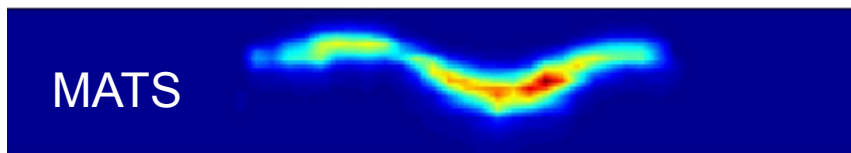
- Low-cost, top science missions, made feasible by innovative approaches.
  - Long-term programme in the order of 5 M€ per mission, excluding payload.
  - Swedish participation.
- 
- **What is feasible, affordable, and worthwhile?**

# Industrial investigation



# Science mission candidates

- MATS – MISU, Chalmers, and KTH
- SIW – Chalmers and MISU
- SPHiNX – KTH



# Future outlook

- Scientific evaluation – ongoing
- Technical evaluation – ongoing
- Programmatic evaluation – starting April
- Decision on programme and possibly mission: Spring 2014.
- Potential follow-on missions: Subject to new calls!

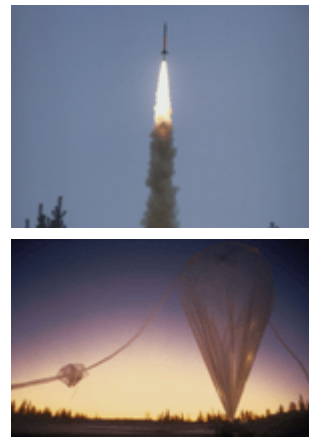
# National Balloon and Rocket Programme

## - *a brief update*



# Swedish national balloon and rocket programme

- Established in late 2012 as a dedicated programme with a current annual budget allocation of 20 MSEK (science + industrial costs)
- Objective: offer scientists balloon and rocket flights from Esrange for high quality research
- Calls for proposals issued on regular basis
- Two new rocket projects kicked-off in 2013
- One new rocket project to be kicked-off in 2014
- International cooperation welcome





# Swedish national balloon and rocket programme

- Selection of projects after the call for proposals by means of peer-review process and recommendations of Space Research Advisory Committee (SRAC) of SNSB
- Selected projects: highly ranked scientifically
- Scientific payload built by research groups (mainly)
- Industrial work by SSC (and partners)
- SNSB follows the project as “project owner”



# National on-going balloon and rocket projects

PoGOLite - astrophysics, PI Mark Pearce (KTH)

In-situ IWC - atmospheric science, PI Thomas Kuhn (LTU)

SPIDER - space physics, PI Nickolay Ivchenko (KTH)

O-States - atmospheric science, PI Jörg Gumbel (SU)

To be kicked-off in 2014

LEWAVES – atmospheric science

PIs Gumbel (SU) Ivchenko (KTH) et al in cooperation with German scientists (DLR, Univ. Karlsruhe & Frankfurt)



# Call for proposals 2014

- New call for balloon and rocket projects will be issued together with the annual call for research proposals – deadline May 14, 2014
- The call is open for on-going projects and new projects
- Annual budget 20 MSEK/year  
Already committed/allocated:  
2015 – 18,2 MSEK  
2016 – 3,6 MSEK



# Thank you for your attention!

