

# **2nd Annual Report**

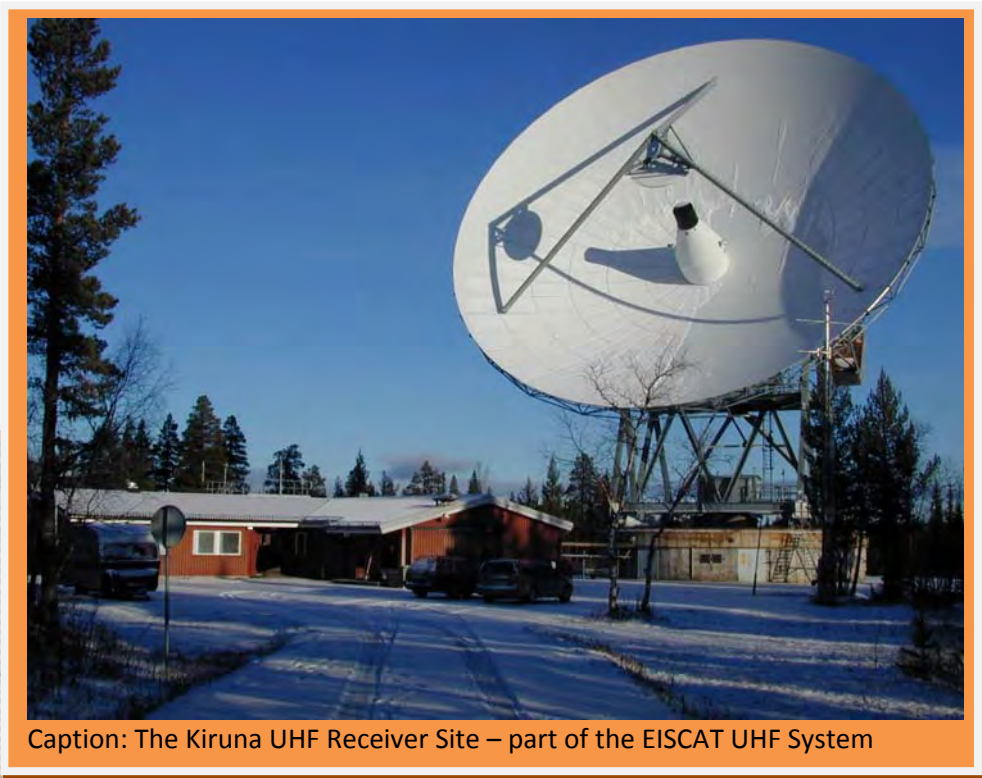
## **EISCAT\_USERS\_1**

**Access to EISCAT facilities for new users**

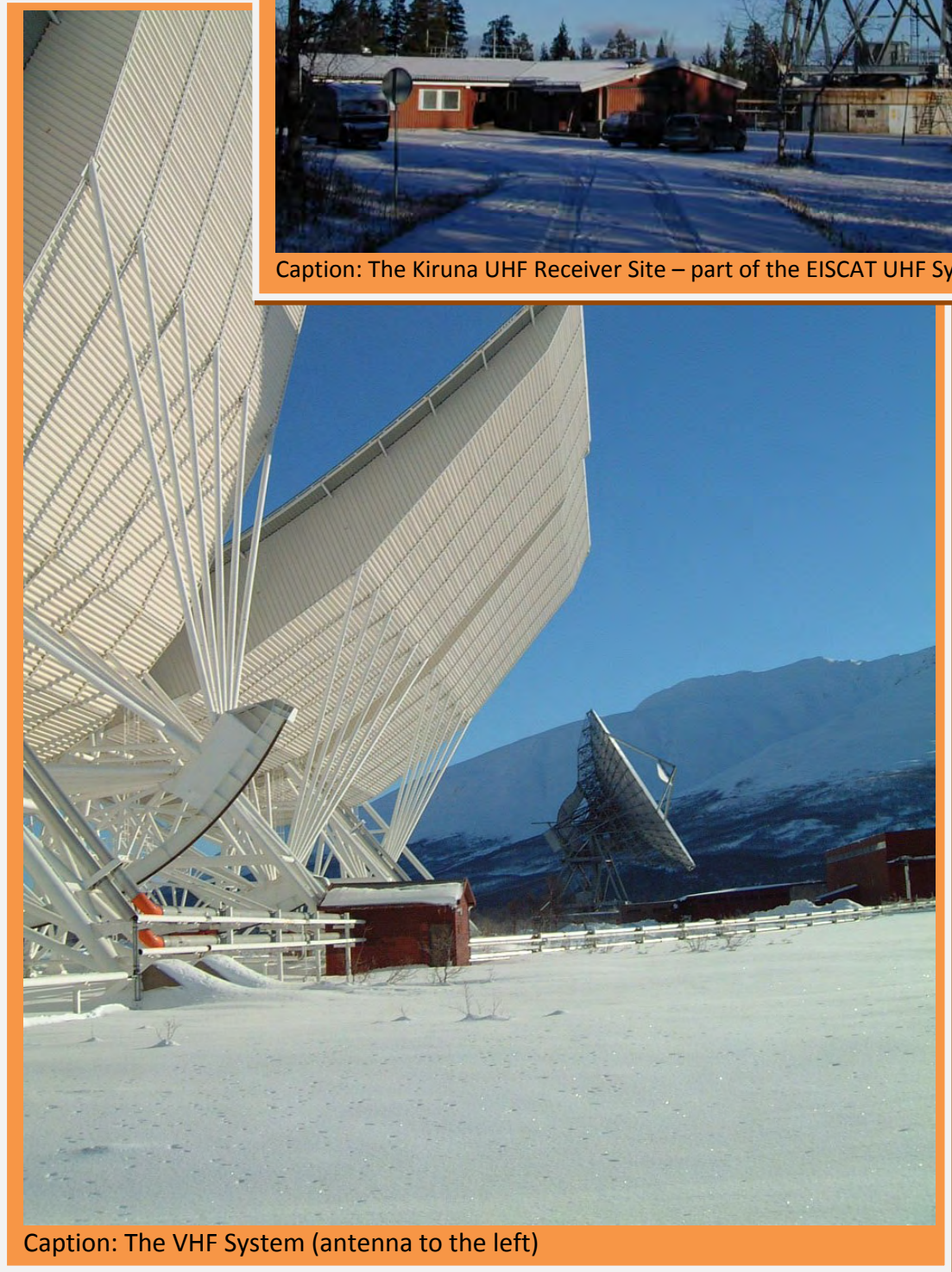
### **Transnational Access implemented as Specific Support Action**

Contract number: 026077  
Project Co-ordinator: EISCAT Scientific Association  
Project website: <http://www.eiscat.se/TransNationalAccess>  
Reporting period: from 01/01/2007 to 31/12/2007

**Project funded by the European Community under the "Structuring the European Research Area" Specific Programme Research Infrastructures action**



Caption: The Kiruna UHF Receiver Site – part of the EISCAT UHF System



Caption: The VHF System (antenna to the left)

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## A. ACTIVITY REPORT

### 1. Progress report

#### 1.1 Summary of the activities and major achievements

European Union support under the Transnational Access (TNA) programme allows the unique radar facilities of the EISCAT Scientific Association to be made available to a much wider range of European scientists than has ever been possible before. The EISCAT systems are normally only available to user communities within the Association. With the TNA programme new users can, if successful in the peer-review process, obtain access. The TNA project supports up to four user events per year.

During the second reporting year of the project, contacts have been established with several new potential users through a variety of publicity and outreach mechanisms.

The third round of applications was solicited in the autumn and a number of proposals were submitted by the announced deadline. The evaluation procedure includes both a review committee and mechanisms for external refereeing. Proposals were thus awarded time on the system if the project was deemed suitable. If not the review committee posed further questions which the applicants should respond to in order to continue the evaluation process.

Four proposals have met all the requirements. One user event was successfully run during the second reporting period. Out of the remaining three, two were combined into one project to hopefully be run May 2008. The fourth project has been scheduled to run on the system in March 2008. Both runs are then scheduled in the third reporting period. An additional proposal was returned to the applicant with additional questions from the review committee.

During the second reporting period, the availability of support under the Transnational Access scheme has been widely advertised in formal oral and poster presentations at a range of meetings, as well as through the international EISCAT committees and the EISCAT web pages. A dedicated website details all information regarding the project. A full colour brochure has also been developed and mailed to various institutes and made available at various scientific meetings.

In order to make a more active effort to expand the user base beyond our initial contacts, EISCAT has recruited a full time scientist to support activities related to the Transnational Access award. This position was filled as of 1 June 2007.

The first user event using the VHF System (TNA facility) together with the EISCAT Svalbard Radar (second system support run paid by EISCAT) occurred in December.

## 1.2 Management overview

### Management

The overall Project Management is conducted by the Headquarters staff of the EISCAT Scientific Association, located in Kiruna, Sweden, under the overall control of the Director. The Financial management and overall budgetary control are overseen by the Head of Administration, who is assisted by the administrative staff of the EISCAT Headquarters. The audit control is accomplished as part of EISCAT's normal audit procedures. A full time support position for the project was installed 1 June 2007.

### Proposal Submission and Review

The EISCAT Scientific Association started a new Agreement period 1 January 2007. The review committee existing in 2006, the Scientific Advisory Committee (SAC) ended its work together with the old agreement. The new body functioning as the review committee for this project, the Scientific Oversight Committee (SOC) did not form itself until autumn so the first submission deadline for the year, 1 April, had to be cancelled.

One submission deadline was set during this period: 1 September 2007.

Several new proposals were received in this 3rd call for proposals. Three of these proposals were accepted after review, although two of the proposals will be combined into one experimental run. The final proposal was returned to the authors with suggested changes and questions regarding the project which the reviewing committee felt should be answered before any time would be awarded. One accepted proposal from the first reporting period, 2nd round of applications, was also pending to get time on the systems.

### Operations Status

One of the proposals, from the 2nd round of applications, by **Amata** et al., ran successfully on the VHF system between the 3 and 21 December 2007. Due to technical issues, the second system support run on Svalbard could only operate up to 18 December. The remaining hours (not paid through this project) will be rescheduled in 2008.

The project by **Lamy** et al. has been scheduled to run on the system in March 2008.

The groups which were requested to combine their projects, **Nenovski** et al. and **Teodosiev** et al., have done so and the project support are in contact with them advising them on scheduling times. It is likely they will run their experiment in May 2008.

The authors of the proposal that the review committee directed questions to, **Brosch** et al., has responded and the answers are being reviewed by independent experts in the field.

### Overall

Some extra management resources were needed in order to get the support function to quickly become productive. The management of the project has otherwise been carried out basically as planned. An effort and cost summary can be found in Part B of the report.

### 1.3 Description of the publicity concerning the new opportunities for access

Substantial progress has been made with respect to publicity of the project. A dedicated member of staff has been appointed to run the project as of June 2007. The project website has been constantly updated. It is a part of the existing EISCAT website, dedicated purely to information regarding the TNA project. A new full colour brochure detailing the project has been made and delivered to several institutions throughout Europe. These brochures have also been included in any publicity EISCAT has been involved in with other projects.

The TNA project has been publicised on various websites. Contact has been made Andøya Rocket Range and Andøya Observatory, who also run a TNA activity. EISCAT and Andøya have significant overlap in client base and as such publicity material, including posters, advertising the TNA project at EISCAT has been deployed to Andøya Rocket range and Alomar Observatory. An article publicising the TNA project has also been published on the UK website sunearthplan.net.

The project has been highly publicised at several scientific meetings across Europe.

Contact has been made with several new research groups through e-mail contacts from established organisations such as the European Geophysical Union, the American Geophysical Union, the European Space Agency and the International Aeronomy and Geophysical Association.

#### Publicity activities during this reporting period

In addition to the ongoing publicity efforts mentioned in the previous report, a new brochure and enhanced website, <http://www.eiscat.se/TransNationalAccess>, advertising the project has been developed. The project was highly publicised at the recent EISCAT meeting which involved over 100 scientists from countries across the world, <http://www.sgo.fi/Events/EISCAT2007>. The project has also been publicised through the Svalbard Science Forum website, <http://www.ssf.npolar.no>, and at the first European Space Weather and Earth Environment Technology (SWEETS) fair which took place in November 2007 in Germany. <http://www.sweets2007.net/index.html>. Publicity is on-going for the project through a variety of different methods.



*Caption: Full colour brochure*

## 1.4 Description of the selection procedure

Proposals are reviewed by the EISCAT Scientific Oversight Committee (SOC), a committee of experts established by the EISCAT Council. While the SOC was formally not created for the purposes of this TNA activity, it has been specifically tasked by the EISCAT Council to act as the peer-review panel for proposals submitted under this, and other, programs. The SOC consists of both experienced scientists from each of the present EISCAT Associates and external experts from outside the Association.

The review process follows closely the usual procedures for peer review and includes appropriate reporting of the referees' findings to proposers. The proceedings of the SOC are fully minuted and monitored by the EISCAT Council and user communities thus ensuring that proposals are treated fairly and impartially in a transparent system.

The proposals are submitted to EISCAT for review by the SOC. This is done normally twice each year, with submission deadlines of 1 April (cancelled in this reporting period) and 1 September. The SOC, using external reviewers where necessary to enhance its own competence, first classifies the submitted proposals and then ranks them in terms of scientific excellence, applicability to the EISCAT systems, and likely scientific return. The SOC also recommends the number of hours of radar running time given to each proposal. Where appropriate, the SOC also provides comments and suggestions to be relayed back to the proposers.

The proposals, and the corresponding evaluations by external referees, were distributed to members of the Scientific Oversight Committee through a restricted area of the EISCAT web site in good time before the regular scheduled meeting held at Alexandra House, Swindon, UK on 17 and 18 September.

The proposals were extensively debated by the SOC, who found all to be of considerable scientific value and generally appropriate to the goals and objectives of the Transnational Access program. Further details of the review outcome are included in section 1.5.

### Selection meetings during this reporting period

#### *1 April submission (cancelled)*

Not done since the review committee (SOC) had not been formed after the phasing out of the earlier review committee, the EISCAT Scientific Advisory Committee.

#### *1 September submission (third opportunity)*

1st meeting of the SOC, Alexander House, Swindon, UK, 17 - 18 September 2007.

## 1.5 Transnational Access activity

### Projects Submitted and Reviewed by the SOC and Run on the Radar Systems

3 – 21 December 2007 - Co-ordinated EISCAT, SuperDARN, MIRACLE, ITACA, and Cluster observations of cusp related processes (CESMIC) by **Amata** et al.

A total of 24 hours of observing time on the mainland VHF and Svalbard radar systems (second system support run paid by EISCAT) was allocated to this proposal by the SOC. A

total of 14 hours was run on the Svalbard radar system due to power problems relating to the power station on the island. The full 24 hours was run on the mainland VHF system.

**User Event: EISCAT VHF System 24 hours**

Projects Submitted and Reviewed by the SOC to be run on the Radar Systems in 2008

3 – 11 March 2008 - Modelling discrete auroral arc formation with conjugate EISCAT / ALIS observations by **Lamy** et al.

A total of 24 hours of observing time was allocated by the SOC and is scheduled to run using the mainland tri-static UHF system.

Preliminary May 2008 - Models of large-scale field aligned currents (FAC) in the magnetosphere, their intensity / distribution dependence on the solar wind / IMF conditions: a validation with EISCAT by **Nenovski** et al.

and

Magnetosphere – Ionosphere coupling: Large-scale and small-scale FAC structure interactions and energy transfer in the system by **Teodosiev** et al.

24 hours of observing time was awarded jointly to these 2 proposals. The authors are in the process of combining the proposals and hope to schedule time on the system in May 2008.

Projects Submitted and Reviewed by the SOC pending further clarifications

Not Scheduled - A systematic investigation of high-altitude meteor trails by **Broch** et al.

The authors have responded to the questions posed by the SOC and the project is currently being reviewed by experts in the field. It is hoped they will review the project favourably and that time will be allocated to the project for some time in 2008.

**1.6 Scientific output of the users at the facility**

None during the reporting period.

**1.7 User meetings**

None during the reporting period.

**1.8 Update of the non-confidential Project information**

None during the reporting period.

## Annex 1 – Composition of the Users Selection Panel (section 1.4)

**Dr. Anita Aikio**

University of Oulu  
Department of Physical Sciences  
Linnanmaa, P.O. Box 1300  
FIN-90014 University of Oulu  
Finland

**Dr. Stephan Buchert**

Swedish Institute of Space Physics  
Box 537  
SE-751 21 Uppsala  
Sweden

**Dr. Sixto Gonzalez**

Arecibo Observatory  
HC3 Box 53995  
Arecibo, Puerto Rico 00612  
USA

**Prof. Cesar La Hoz**

University of Tromsø, IMR  
N-9037 Tromsø  
Norway

**Dr. Michael Kosch**

Lancaster University  
Communication Systems  
Lancaster LA1 4WA  
U.K.

**Prof. Ruiyuan Liu**

Polar Research Institute of China  
451 Jinqiao Road  
Pudong  
200129 Shanghai  
China

**Dr. Satonori Nozawa**

Solar Terrestrial Environmental Lab.  
Nagoya University  
Furocho, Chikusa-ku  
Nagoya, 464-8601  
Japan

**Prof. Jürgen Röttger**

MPI für Solar System Research  
Max-Planck-Str. 2  
D-37191 Katlenburg-Lindau  
Germany

## Annex 2 – List of User-Projects (section 1.5)

### Projects Submitted and Reviewed by the SOC and Run on the Radar Systems

Acronym	<b>Amata</b>
Title	Co-ordinated EISCAT, SuperDARN, MIRACLE, ITACA, and Cluster observations of cusp related processes (CESMIC)
Objectives	<p>Multi-Instrument observations, both ground and space based, of polar patch formation in the high latitude ionosphere. The formation of these polar patches is governed by the extent and the location of the terrestrial and solar magnetic field lines involved in the reconnection process.</p> <p>The experiment will utilise both the EISCAT VHF and Svalbard systems.</p> <p>The EISCAT observations will be complemented by measurements from the SuperDARN radars, the ITACA all-sky cameras located on Svalbard and Greenland, the MIRACLE all-sky camera also located on Svalbard. The CLUSTER satellite will also be used to monitor conditions inside the cusp region and also as a solar wind and magnetosheath monitor.</p>
Users	E. Amata, I. Coco, S. Massetti, M. F. Marcucci
Institutions	Istituto di Fisica dello Spazio Interplanetario, INAF, Via del fosso del cavaliere 100, 00133 Roma, Italy
Installation	EISCAT VHF System, 24 hours EISCAT Svalbard Radar, 24 hours (funded by EISCAT)
Achievements	<p>A total of 24 hours of observing time was run on the mainland VHF system from 07 - 11 UT on the following days: 3rd / 4th / 17th - 21st December 2007.</p> <p>A total of 12 hours of observing time was run on the Svalbard system from 07 - 11 UT on the following days: 3rd / 4th / 17th December.</p> <p>2 hours of observing time was run on the Svalbard system from 07 - 09 UT on the 18th December.</p> <p>The remaining 10 hours of time (24 hours of time was awarded to be run on the Svalbard system) was not run due to problems at Longyearbyen power station. It is hoped that the experiment will be re-scheduled sometime in 2008.</p>

### Projects Submitted and Reviewed by the SOC to be run on the Radar Systems in 2008

Acronym	<b>Lamy</b>
Title	Modelling discrete auroral arc formation with conjugate EISCAT/ALIS observations
Objectives	<p>To use the UHF tri-static facility at EISCAT to validate a model the authors have developed to understand the formation of discrete auroral arcs and the complex interactions between the ionosphere and magnetosphere.</p> <p>By measuring the convection velocity in the ionosphere, they can determine the ionospheric electrostatic potential. They will combine EISCAT measurements with simultaneous optical observations of the auroral arcs made by the ALIS camera. This will allow them to calculate the ionospheric</p>

	electrostatic potential in two independent ways, simultaneously.
Users	H. Lamy (1), M. Roth (1), J. De Keyzer (1), M. Mihai Echim (1), M. Voiculescu (2), The ALIS team (3)
Institutions	(1) Belgian Institute for Space Aeronomy, Avenue Circulaire 3, 1180 Bruxelles, Belgium (2) University Dunarea de Jos, Romania (3) Kiruna, Sweden
Installation	EISCAT UHF System, <i>scheduled 24 hours</i>
Achievements	The project is scheduled to be run on the system in March 2008.

Acronym	<b>Nenovski</b>
Title	Models of large scale field aligned currents (FAC) in the magnetosphere, their intensity / distribution dependence on solar wind / IMF conditions: a validation with EISCAT
Objectives	A quantitative comparison of large scale FAC patterns with co-ordinated ground based-EISCAT-satellite observations and for particular events, ingestion of EISCAT data into AMIE assimilation analysis Validation of large scale FAC models and associated plasma vortex structures in the boundary regions of the magnetosphere-ionosphere system depending on the solar wind and IMF conditions. Comparison with ground based EISCAT and satellite observations will enable the project to delineate FAC contributions from principal mechanisms - reconnection and / or viscous processes at the magnetopause and the nonlinear one as follows from the zero frequency surface mode large scale FAC model.
Users	P. Nenovski (1), D. Danov (2), G. Crowley (3)
Institutions	(1) Geophysical Institute, 1113 Sofia, Bulgaria (2) Central Laboratory for Solar-Terrestrial Influences, 113 Sofia, Bulgaria (3) ASTRA Corporation, Texas, U.S.A.
Installation	EISCAT UHF System, <i>not yet scheduled</i>
Achievements	Planned for combined run together with <b>Teodosiev</b> hopefully in May 2008

Acronym	<b>Teodosiev</b>
Title	Magnetosphere - Ionosphere coupling - Large-scale and small scale FAC structure interactions and energy transfer in the system
Objectives	A complete study of small scale field aligned current (FAC) processes of high intensity, co-existing with large scale FAC systems in the polar and CUSP regions, through which the greatest amounts of energy flux deposit in the ionosphere and thermosphere have been observed
Users	D. Teodosiev (1), E. Yordanova (1), S. C. Buchert (2), P. Nenovski (3), Y. Ogawa (4)
Institutions	(1) Space Research Institute, Bulgarian Academy of Sciences, 1000 Sofia, Bulgaria (2) Swedish Institute of Space Physics, Uppsala, Sweden (3) Geophysical Institute, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria (4) National Institute of Polar Research, Japan

Installation	EISCAT UHF System, <i>not yet scheduled</i>
Achievements	Planned for combined run together with <b>Nenovski</b> hopefully in May 2008

Projects Submitted and Reviewed by the SOC pending further clarifications

Acronym	<b>Brosch</b>
Title	A Systematic Investigation of High-Altitude Meteor Trails
Objectives	This project aims to detect and investigate the properties of high altitude meteor trails as observed by the monostatic VHF and UHF radars of EISCAT. The specific goals are (a) to confirm the previous high altitude echoes detected in Israel and (b) to study the altitude distribution and character (density, temperature, drifts and ion composition) of the trails with the incoherent scatter method.
Users	N. Brosch (1), A. Pellinen-Wannberg (2)
Institutions	(1) Wise Observatory, Tel Aviv University, Tel Aviv, Israel (2) Umeå University and Swedish Institute of Space Physics, Kiruna, Sweden
Installation	EISCAT UHF System, <i>pending further clarifications</i>
Achievements	TBD

### Annex 3 – List of Users (section 1.5)

Project	Users	Institutions
Amata	E. Amata, I. Coco, S. Massetti, M. F. Marcucci	Istituto di Fisica dello Spazio Interplanetario, INAF, Via del fosso del cavaliere 100, 00133 Roma, Italy
Lamy	H. Lamy (1), M. Roth (1), J. De Keyzer (1), M. Mihai Echim (1), M. Voiculescu (2), The ALIS team (3)	(1) Belgian Institute for Space Aeronomy, Avenue Circulaire 3, 1180 Bruxxelles, Belgium (2) University Dunarea de Jos, Romania (3) Kiruna, Sweden
Nenovski	P. Nenovski (1), D. Danov (2), G. Crowley (3)	(1) Geophysical Institute, 1113 Sofia, Bulgaria (2) Central Laboratory for Solar-Terrestrial Influences, 113 Sofia, Bulgaria (3) ASTRA Corporation, Texas, U.S.A.
Teodosiev	D. Teodosiev (1), E. Yordanova (1), S. C. Buchert (2), P. Nenovski (3), Y. Ogawa (4)	(1) Space Research Institute, Bulgarian Academy of Sciences, 1000 Sofia, Bulgaria (2) Swedish Institute of Space Physics, Uppsala, Sweden (3) Geophysical Institute, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria (4) National Institute of Polar Research, Japan
Brosch	N. Brosch (1), A. Pellinen-Wannberg (2)	(1) Wise Observatory, Tel Aviv University, Tel Aviv, Israel (2) Umeå University and Swedish Institute of Space Physics, Kiruna, Sweden

## **Annex 4 – List of Publications (section 1.6)**

None during the reporting period.

**Annex 5 – Updated non-confidential Project information (section 1.8)**

None during the reporting period.

## B. MANAGEMENT REPORT (FINANCIAL INFORMATION)

### B.1 Justification of the resources deployed

*Summary of total human effort and actual eligible costs against initial plan*

*Deployed management effort in total for P2*

Management	Plan	Outcome	Percent
Person-months	0.72	2.15	293%

*User events per facility and outcome for P2*

User events	Plan	Outcome	Percent
Planned UHF events	2	0	0%
Planned VHF events	2	1	50%
In total	4	1	25%

*Operations per facility and outcome for P2*

System	Plan	Outcome	Percent
UHF system, hours	48	0	0%
VHF system, hours	48	24	50%
In total, hours	96	24	25%

*Actual eligible costs in total for P2*

Cost type in €	Plan	Outcome	Percent
Management	8 737	18 242	209%
UHF system	65 686	0	0%
VHF system	40 505	20 252	50%
Travel and accommodation	6 400	1 563	24%
In total	121 328	40 057	33%

***B.1.1 Justification of resources deployed during the reporting period***

(Attached)

Justification of resources deployed during reporting period

<b>Contract N°</b>	<b>026077</b>	<b>Project acronym</b>	<b>EISCAT_USERS_1</b>
<b>Participant N°</b>	<b>1</b>	<b>Participant short name</b>	<b>EISCAT</b>
		<b>Management of the Design Study</b>	
		<b>Total effort in person-months <sup>(1)</sup></b>	2.15
<b>Cost category</b>	<b>Actual direct eligible costs (€)</b>	<b>Justification of costs</b> <i>description of expenditure and link to the specific work carried out (e.g. tasks, work packages, ...)</i>	
<b>Personnel cost</b>	15 689.24	Management work by Mr. H. Andersson, Prof. A. P. van Eyken and Dr. L. Baddeley	
<b>Travel cost</b>	1 703.64	Management travel during P2 - 2 trips	
<b>Sub-contracts</b>	848.74	Audit certificate by Öhrlings PricewaterhouseCoopers AB	
		<b>Operations</b>	
		<b>Total effort in person-months <sup>(1)</sup></b>	n/a
<b>Cost category</b>	<b>Actual direct eligible costs (€)</b>	<b>Justification of costs</b> <i>description of expenditure and link to the specific work carried out (e.g. tasks, work packages, ...)</i>	
<b>UHF system</b>	-	Operations, UHF system, totally 0 hours	
<b>VHF system</b>	20 252.40	Operations, VHF system, totally 24 hours	
		<b>User travel and accommodation</b>	
		<b>Total effort in person-months <sup>(1)</sup></b>	n/a
<b>Cost category</b>	<b>Actual direct eligible costs (€)</b>	<b>Justification of costs</b> <i>description of expenditure and link to the specific work carried out (e.g. tasks, work packages, ...)</i>	
<b>Travels</b>	1 132.61	Airfare, Amata event	
<b>Accommodation</b>	430.62	Hotel, Amata event	
<b>Subsistences</b>	-	Will be claimed in P3, Amata event	
<b>Total direct eligible costs</b>	40 057.25		
<b>Total indirect costs</b>	7 841.70		
<b>Total costs <sup>(2)</sup></b>	47 898.95	<b>Global estimate of the total costs for AC contractors (not only the eligible costs)</b>	

<sup>(1)</sup> AC contractors must include both the total estimated human effort (including permanent staff) and, in brackets, additional staff only.

<sup>(2)</sup> Totals should correspond to the respective figures on FORM C - Financial Statement

## **B.2 Forms C -Financial Statement**

### ***B.2.1 Financial Statement***

(Attached)

**Form C - Model of Financial Statement per Activity for a Specific Support Action /  
Transnational Access to Infrastructures**  
(to be completed by each contractor)

Type of instrument	<b>Specific Support Action</b>	Type of Action (if necessary)	<b>Transnational Access to Infrastructures</b>
Project Title (or Acronym)	EISCAT_USERS_1	Contract n°	026077
Contractors's legal name	EISCAT Scientific Association		
Legal Type	Non-profit		
Contact Person	Henrik Andersson	Telephone	+46-980 79150
Telecopy	+46-980-79159	E-mail	Henrik.Andersson@eiscat.se
Cost model used (AC/FC or FCF) / (UF: User Fee)(*)	FCF/UF	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat Rate of 20% of Direct costs, except subcontracting (**)
Period from	01/01/2007	To	31/12/2007

(\*) If UF is used under "other specific activities: transnational access/connectivity", please mention the two cost models used (eg. FC/UF or FCF/UF or AC/UF)

(\*\*) Except otherwise agreed in Article 9 [special clauses] of the contract.

**1- Resources (Third party(ies))**

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)

If Yes, please provide the following information

Third Party (Y1)	Legal name	Cost model used
Third Party 2 (Y2)	Legal name	Cost model used
Third Party 3 (Y3)	Legal name	Cost model used
Third Party 4 (Y4)	Legal name	Cost model used

If necessary add another Form C

**2- Declaration of eligible costs (in €)**

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs

The costs declared should distinguish between direct and indirect costs

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity												Total (G) = (A)+(B)+(C)+ (D)+(E)+(F)	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities: Transnational Access (E)		Other Specific Activities (E)			
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs							18 241.62		20 252.40		1 563.23		40 057.25	
Of which subcontracting							848.74		0.00		0.00		848.74	
Indirect costs							3 478.58		4 050.48		312.65		7 841.70	
Adjustments to previous period(s)							0.00		0.00		0.00		0.00	
<b>Total costs</b>							<b>21 720.20</b>		<b>24 302.88</b>		<b>1 875.88</b>		<b>47 898.95</b>	

**3- Declaration of receipts (in €)**

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.  
If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

	Type of Activity												Total (G) = (A)+(B)+(C)+ (D)+(E)+(F)		
	Research and Technological Development / Innovation (A)		Demonstration (B)		Management of the Consortium (C)		Other Specific Activities: Coordination / Networking (D)		Other Specific Activities: Transnational Access / Connectivity (E)		Other Specific Activities (E)				
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)			
<b>Total receipts</b>					0				0		0				

**4- Declaration of interest generated by the pre-financing (in €)**

To be completed only by the coordinator.

Did the pre-financing (advance) you received by the Commission for this period earn interest? (Yes / No)

Yes

If yes, please indicate the amount (in €)

5 421.20

**5- Request of FP6 Financial Contribution (in €)**

For this period, the FP6 Community financial contribution requested is equal to ( amount in€)

47 898.95

**6- Audit certificates**

According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)

Yes

If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)

Yes

If No, what are the periods covered by this(those) audit certificate(s) ?

From - to

What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?

**Audit certificate of the contractor (X)**

Legal name of the audit firm	Örhings PricewaterhouseCoopers AB	Cost of the certificate	848.74
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**Audit certificate(s) of the third party(ies) (Ys) (if necessary)**

Y1 : Legal name of the audit firm		Cost of the certificate	
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Y2 : Legal name of the audit firm		Cost of the certificate	
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Y3 : Legal name of the audit firm		Cost of the certificate	
-----------------------------------	--	-------------------------	--

Y4 : Legal name of the audit firm		Cost of the certificate	
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If necessary add another Form C.

Total (Z) = (X) + (Ys)

Reminders:

The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate (s) is (are) attached to this Financial Statement

**7- Conversion rates**

Costs incurred in currencies other than EURO shall be reported in EURO.

Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.


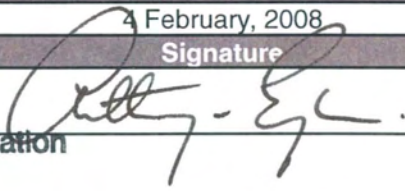
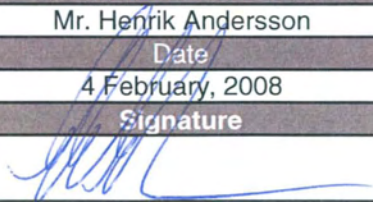
<b>Contractor</b>	
- Conversion rate of the date of incurred actual costs? (YES / NO)	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	Yes
<b>Third Party(ies) (if necessary)</b>	
<b>Third Party 1 (Y1)</b>	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
<b>Third Party 1 (Y2)</b>	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
<b>Third Party 3 (Y3)</b>	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	
<b>Third Party 4 (Y4)</b>	
- Conversion rate of the date of incurred actual costs? (YES / NO)	
- Conversion rate of the first day of the first month following the period covered by this Financial Statement? (YES/NO)	

If necessary add another Form C.

**8- Contractor's Certificate**

We certify that:

- the costs declared above are directly related to the resources used to reach the objectives of the project ;
  - the receipts declared above are directly related to the resources used to reach the objectives of the project ;
  - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;
  - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;
  - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;
  - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;
  - the above information declared is complete and true ;
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.

Contractor's Stamp	Name of the Person responsible for the work	Name of the duly authorised Financial Officer
	Prof. Anthony Paul van Eyken	Mr. Henrik Andersson
	Date	Date
	4 February, 2008	4 February, 2008
	Signature	Signature
		



**EISCAT Scientific Association**  
P.O. Box 812  
SE-981 28 Kiruna, Sweden

***B.2.2 Audit Certificate***

(Attached)

EISCAT Scientific Association  
P. O. Box 812  
SE-981 28 Kiruna

We, Öhrlings Pricewaterhouse Coopers AB, established in N Köpmangatan 12 B, SE-801 38 Gävle, Sweden represented for signature of this audit certificate by Annika Wedin, authorized public accountant, hereby certify that:

- we have conducted an audit relating to the cost declared in the Financial Statement per Activity of EISCAT Scientific Association hereinafter referred to as contractor, to which this audit certificate is attached, and which is to be presented to the Commission of the European Communities under RITA contract "Access to EISCAT facilities for new users", EISCAT\_USERS\_1, contract number 026077, for the following period covered by the EC contract: 2007-01-01 – 2007-12-31.
- We confirm that our audit was carried out in accordance with generally accepted auditing standards respecting ethical rules and on the basis of the relevant provisions of the above-referenced contract and its annexes.

The above mentioned Financial Statement per Activity was examined and all tests of the supporting documentation and accounting records deemed necessary were carried out in order to obtain reasonable assurance that, in our opinion, based on our audit:

- the amount of the total eligible costs € 47 898.95 (forty seven thousand eight hundred ninety eight euros and ninety five cents), declared in Box 2 of the attached Financial Statement per Activity is complying with the following cumulative conditions:
  - they are actual and reflect the contractor's economic environment;
  - they are determined in accordance with the contractor's accounting principles;
  - they have been incurred during the period covered by the Financial Statement per Activity concerned by this audit certificate;
  - they are recorded in the accounts of the contractor at the date of the establishment of this audit certificate;

*AAW*

- they are exclusive of any non-eligible costs identified below which are established in the second paragraph of article II.19 of the above mentioned contract with the Commission of the European Communities:
  - any identifiable indirect taxes, including VAT or duties;
  - interest owed;
  - provisions for possible future losses or charges;
  - exchange losses;
  - costs declared, incurred or reimbursed in respect of another Community project;
  - return on capital;
  - debt and debt service charges;
  - excessive or reckless expenditure;
  - any cost which does not meet the conditions established in Article II.19.1. of your contract with the Commission of the European Communities.
- they have been claimed according to the FCF (full cost flat rate) cost reporting model or the UF (user fee) cost reporting model depending on type of cost, which the contractor is eligible to use according to the above mentioned contract with the Commission of the European Communities;
- they are claimed according to the following basis for the conversion rate used of EURO:
  - the rate applicable on the first day of the month following the end of the reporting period;
- as declared in the Box 3 of the attached Financial Statement per Activity, the total amount of receipts for the period covered by this Financial Statement per Activity is equal to € 0 (zero euros);
- as declared in the Box 4 of the attached Financial Statement per Activity, the total amount of interest yielded by the pre-financing received from the Commission of the European Communities for the period covered by this Financial Statement per Activity is equal to € 5 421.20 (five thousand four hundred twenty one euros and twenty cents);
- accounting procedures used in the recording of eligible costs and receipts respect the accounting rules of the State in which the contractor is established and permit the direct reconciliation between the costs and receipts incurred for the implementation of the project covered by the EC contract and the overall statement of accounts relating to the contractor's overall business activity;

AMW

- our company is qualified to deliver this audit certificate in full compliance with the second and third paragraphs of article II.26 of the contract;
- as declared in the Box 6 of the attached Financial Statement per Activity, the contractor paid for this audit certificate a price equal to € 1 060.93 (one thousand sixty euros and ninety three cents) in which VAT is equal to € 212.19 (two hundred twelve euros and nineteen cents).

Gävle 2008-01-30

Öhrlings Pricewaterhouse Coopers AB



Annika Wedin  
Authorized public accountant



EISCAT Scientific Association  
Headquarters  
P. O. Box 812  
SE-981 28 Kiruna, Sweden