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	Minutes of the 13th Scientific Committee Author : Annie BAGLIN	COROT.LESIA.05.70 Version: 1 Date : 4/06/05

Minutes of the 15th Scientific Committee

Held in Toulouse on May 26th and 27th 2005.


Prepared by par: Annie Baglin		
Accepted by: The SC members		

MODIFICATIONS OF THE DOCUMENT

Ed.	Rév.	Date	Modifications	Visa
1				


REFERENCE DOCUMENTS

Index	Reference	Title of the document
DR1:	COROT.DESPA.01.014 version 3	Scientific policy and Data rights
DR2	COROT.LESIA.04.103	List of N3 products

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DIFFUSION:

G. ALECIAN	OPM	X
M. AUVERGNE	OPM/LESIA	X
A. BAGLIN	OPM/LESIA	X
P. BARGE	LAM	X
C. CATALA	OPM/LESIA	X
M. DELEUIL	LAM	X
F. FAVATA	RSSD/Estec	X
R. GARRIDO	IAA/Spain	X
T. GUILLOT	OCA	X
E. JANOT-PACHECO	Sao Paulo University	X
L. JORDA	LAM	X
J-L. COUNIL	CNES	X
T. LAM-TRONG	CNES	X
M. OLLIVIER	IAS	X
E. MICHEL	OPM/LESIA	X
A. NOELS	IA Liège	X
H. RAUER	DLR Berlin	X
D.ROUAN	LESIA	X
I. ROXBURGH	QMW London	X
J. SCHNEIDER	OPM	X
G. VAUCLAIR	OMP	X
W. WEISS	IA Vienna	X
P. BODIN	CNES	X
L. BOISNARD	CNES	X
C. IMAD	OPM/LESIA/secretariat	X

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Participants:

All members except JL Council, C. Catala, D. Rouan,
T Lam-Trong on Thursday
P. Barge and F. Favata on Friday

A first session was held on Thursday afternoon, from 6 to 8 at Diagona and the second session was held after the meeting on Friday afternoon from 1 30 to 3 30 at OMP.

1. The "templates" situation

The responsibility to provide the set of 256 templates per CCD to the operational group is at LAM, However the SC has to confirm its agreement on the method.

P. Barge recalls the modifications and the improvements made by the LAM Team and in particular Antoine Llebaria, who gave a specific talk on that subject during CW8.

F. Favata asks for more information about the method and specially the matrix used for the optimisation. Most of the members express their confidence in the method which is accepted by the SC. M. Ollivier insists on the extreme flexibility of the algorithm, which allows tuning of many parameters.

As the uploading of the set of templates in the onboard software is not a very heavy procedure, it seems highly desirable to have the possibility to make rapidly new templates computations on the true complete images. This means that LAM will have to maintain this capability during all the mission. LAM (P. Barge) accepts this responsibility

A document, based on a paper presented by A. Llebaria at SPIE, will be edited (**Action SC15-1**) including this information, describing and quantifying the tuning of the different parameters.

2. The exoplanet "alarm" mode.

The "alarm mode" is an operational procedure, which delivers to the instrument, every week (TBC) a list of targets which have to be oversampled as soon as possible.

The responsibility to provide the information to the operational group is at LAM, but here also we need an agreement of the SC on the methods.

P. Barge recalls the organisation discussed during CW8.


The algorithm(s) to produce alarms as well as the criteria for setting up priorities have been discussed during CW8 but no decision has been taken yet. They will have to be agreed upon by the SC (17th or 18th).

But at the beginning of a run, this list has to be initialised.

Discussions about the content of the initial list did not converge yet. It has to take into account the exoplanet requirements first and leave some slots for the APs.

W. Weiss, P. Barge and M. Deleuil accept to present propositions at the next CW for agreement by SC 17th (**Action SC15-2**).

3. Combined ground-based observations, relations to ESO.

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Both groups ECOWG and SGBOWG have defined their needs in terms of follow-up observations, which have been discussed during CW8.

A combined document will be written during June by Magali D., Claude C (+Ennio Poretti) and Fabio F, and presented to ESO in due time (**Action SC15-3**).

The needs for other facilities will also be presented, so that the document can be used towards other agencies.

4. Observing programme: the first short run SRc0.

Preliminary informations have been given and a general discussion has been held during the plenary session of CW8.

Some preliminary propositions have been presented.

The SC asks its Advisory Board to write a document (**Action SC15-4**), not later than the end of June, describing the situation, and asking for some propositions. This document will be distributed to the CoRoT Co_Is and propositions will be presented at CW9, for a choice at SC17th.

5. Data rights document.

The document DR1: COROT.DESPA.01.014 version: 3 Date : 26/03/05 is accepted.


6. Organisation of the referring of the AO answers.

Werner Weiss has proposed the following organisation which is discussed and accepted by the SC:

1. July 5: Deadline for proposals
2. July 6 – 8: Production of an indexlist of proposals, pdf files directory, identification of proposal areas (keywords) used to distribute proposals to appropriate referees.
3. July 9 (Fr): identification of 2 referees per proposal, check with AB
4. July 12: check for technical feasibility
5. July 13: distribution of proposals to referees (email), 2 anonymous referees/proposal
6. July 15 to Aug. 20. refereeing period
7. Aug. 21: xml file with summaries on referee reports

A grading grid is considered as very useful. Werner proposes the following guidelines for referees: (**Action SC15-5**)

1. Scientific rationale (grades 1-5)
2. adequacy for COROT (yes/undecided/no/? not competent to answer this question) .. is COROT really needed?
3. amount of requested resources adequate? (y/u/n/?)
4. experience of proposers in data reduction & interpretation? (y/u/n/?)
5. tbd

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Refereeing procedure:

1. 2 independent anonymous referees per proposal
2. handover of guidelines (see above)
3. if needed, choice of external referee

As there will be an AO every year, accepted proposals will be remembered for future AOs, but can be improved and resubmitted.

During the discussion it is agreed that one over two short runs will be attributed to the APs while the other one will be dedicated to the Core programme of seismology.

7. N3 products.

As presented in DR2 (COROT.LESIA.04.103 June 2004), the list of N3 products is:

- N3.1 : General properties of the light curves (standard deviation, noise level, quality index)
- N3.2 : Detected frequencies, linewidths, amplitudes and error estimates (if accepted by SC)
- N3.3 : Detected candidate transits (if accepted by SC)
- N3.4 : Photometric calibration of the COROT system
- N3.5 : Classification of physical and geometric variables.

For the task **N3.5** (Classification of variables) two teams have proposed to do the job in Granada. Following the decisions taken at SC 13th (COROT.LESIA.05.11) Rafael Garrido has initiated a comparison test among the two teams. A report progress has been presented during CW8 and detailed comparisons will be presented at CW9 and SC17th for decision.

The Data Analysis Team of SWG proposes to take the responsibility of task **N3.2**. (Detected frequencies, linewidths, amplitudes and error estimates) and presents a programme. As there was no time to discuss it in details this proposal is added to these minutes. It is decided to ask the DATeam to provide more information about its members, and its organisation (**Action SC15-6**).

8. CWs organisation.


8.1. Debrief of CW8.

141 registered participants, (19 CNES)

Favorable general impression but, still some frustrations due to overlap of sessions for seismologists.

8.2. Organisation of CW9/SC17.

As decided at SC13th it will be held in ESTEC, Noordwijk, Netherlands

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It is requested to extend the meeting to avoid overlap as much as possible
 It will be held from Tuesday morning december 6th to Friday 9th afternoon
 The Scientific Committee will meet on Monday 5th afternoon and friday 9th quite late.
 F. Favata says that the meeting rooms will be free. We will have access to the cafeteria .
 There will probably be a small cost for bus transportation.
 F. Favata says that an ESA publication on CoRoT could be issued at this occasion.
 The SC is favorable to that, but the content has to be defined.
 Discussion will be done by mail (**Action SC15-7**).

8.3. Location of CW10.

The two proposals of Nice and Saclay have been considered.
 Before taking a decision the SC asks the two proposers for more precise informations on

- location
- transportation and access (requiring easy transportation!)
- cost.

The decision could be taken rapidly by mail if necessary (**Action SC15-8**).

Due to lack of time, the other points have been postponed.


9. Actions

9.1. Actions from SC12 still open

SC12-10	Presentation EXODAT policy	MD	SC13	Postponed to SC17
SC12-11	Designation of an outreach person	Non French SCM	ASAP	For some only

9.2. Actions from SC13 still open

SC13-3	Organisation of CW10 in France	AB	March 2005	Postponed to SC16
SC13-7	Web page for ESA	AB	Jan 31st	
SC13-8	Integration in ESA site	FF	ASAP!	


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9.3. Actions from SC14 still open

SC14-2	Preparation of a short run	EM	CW9	

9.4. Actions from SC15

SC15-1	Computation of the templates, document	AB,PB	July 15th 2005	
SC15-2	Alarm mode, initialisation	WW, MD, PB	CW9/SC17	
SC15-3	Combined observations document	FF, MD, CC	June 2005	
SC15-4	First short run document	ABSC	June	
SC15-5	AO AP grading grid	WW	August 2005	closed
SC15-6	Ask for more info from the DATeam	AB	SC16	
SC15-7	An ESA publication at CW9 ?	AB	SC16	
SC15-8	CW10 Ask the proposers for more info	AB	SC16	

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A proposal to the Corot SC
By
The Data Analysis Team of the SWG
CW8, Toulouse, May 2005

What do we propose?

We propose to have frequencies labelled as Corot frequencies using a properly reference recipe depending on the type of stars (solar-like stars, heavier stars, classical pulsators, etc...).

Are there similar cases?

The Global Oscillations Network Group produces time series and frequencies according to a known recipe. The frequencies are used (or not) by the solar community. Time series are often used to derive frequencies using different fitting recipes. This is made known and acknowledged.

How could it work?

The Data Analysis Team agree on a reference recipe for each type of stars. The frequencies are produced by one or many data fitters/analysers; this is still open and to be discussed. The codes leading to the extraction of the frequencies would be freely available as open source.

If the reference recipe does not work, it would mean that the star frequencies are difficult to extract and no labelling could be done. This would be known. But still the time series would be available for anyone to develop more elaborate techniques. The reference recipe will be anyway updated if bugs or improvements are necessary. What is needed that a proper reference is known.

What if someone wants to get its own frequencies?

There is no censorship and anyone is welcome to fit the data with a more clever technique.