	Title:	Reference:
	Minutes of the 31th Scientific Committee Author: Annie BAGLIN	COROT.LESIA.09.003 Version: 1 Date: 19/03/2009

Minutes of the 31st Scientific Committee

Held at Institut d'Astrophysique in Paris, on March 9th 2009


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

MODIFICATIONS OF THE DOCUMENT

Ed.	Revs.	Date	Modifications	Visa
1				


REFERENCE DOCUMENTS

Reference	Title of the document
SC29-DR1	Future pointings E. Michel
SC29-DR2	Pipelines of corrections M. Auvergne
SC31-DR3	Pipeline for the exo-Imaquettes L. Jorda
SC29-DR4	Planning of Data deliveries S. Chaintreuil
SC29-DR5	Extension, first ideas A. Baglin

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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
M. FRIDLUND	RSSD/Estec	X
R. GARRIDO	IAA/Spain	X
T. GUILLOT	OCA	X
E. JANOT-PACHECO	Sao Paulo University	X
L. JORDA	LAM	X
E. MICHEL	OPM/LESIA	X
A. NOELS	IA Liege	X
M. OLLIVIER	IAS	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
O. LA MARLE	CNES, Paris	X
O. VANDERMARQ	CNES, Toulouse	X
C. IMAD	OPM/LESIA/secretariat	X

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Participants:

G. Alecian, M. Auvergne, A. Baglin, P. Barge, C. Catala, M. Deleuil, R. Garrido, T. Guillot, O. La Marle, E. Michel, A. Noels, M. Ollivier, H. Rauer, D. Rouan, I. Roxburgh, J. Schneider, G. Vauclair, O. Vandermarcq, W. Weiss

Non-attendees: M. Fridlund, E. Janot-Pacheco,

1 Mission status

Olivier V. presents the last operations and the overall status of the satellite
Everything was going well.

But on Sunday there has been some pbs with the chain n°1, to be understood and hopefully repaired. Even if it cannot be repaired, the mission will continue on one chain. This is a scenario of degraded mission already studied during the definition phase.

Again, there has been some loss of data due to defects of the ICONES network.

The SC stresses the importance of the continuity of the observations, which is a major quality of CoRoT. The photometric quality of the data is so high that the aliases of the window in the Fourier Spectrum can become the major source of limitation.

This is nicely illustrated in SC31-DR2 by M. Auvergne, where one sees that the addition of the points inside the SAA reduces considerably the window effect.

To a question by J. Schneider about the influence of the debris produced by the recent collision of two satellites, O. Vandermarcq answers that it is under study.

2 The launch of Kepler

The launch has been successful. The SC send a message to the team.

Dear William, David, and Kepler team,

On behalf of the CoRoT Scientific Committee, which is meeting today, and the whole CoRoT community, I would like to warmly congratulate you for the successful launch of Kepler. We sincerely hope that the Kepler mission will be a great success, and look forward to a fruitful and exciting complementarity with CoRoT.

3 The symposium debrief


All the members agree that the symposium was successful, and speeded up a lot of activities in the scientific community.

The different contributions are gathered by A.B. for the Web page, which is managed by Colloquium.

It is agreed that another general CoRoT meeting should already been planned.

It is proposed to held it in 1.5 to 2 years in Marseille.

Action SC32-1: P. Barge: make a more precise proposition at the next SC.

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In addition it seems necessary to held also thematic conferences in between.
 For seismology it could be integrated in the HELAS organisation.
 For exoplanet, it should be discussed at the next CEST meeting.
 Decisions should be taken at the next SC.
Action SC32-2: P. Barge, E. Michel: make more precise propositions at the next SC.

4 Observing programme

Choice of the next fields and planning : see SC31-DR1

LRc03 , bloc 1673

The position already discussed is confirmed. The CoRoTsky data base, as well as a new version of the software are being installed at CNES.

The final programming will be done next week.

SRc03.

EM discuss the interest of observing solar like stars in short runs, and conclude that it is worth doing it, as the seismic behavior of solar like stars seems to be different from one star to another and not yet completely understood.

For cool stars, the damping times are small and it can be possible to detect the modes in a SR. So he proposes to observe a field close to LRc03, containing such an object.

LRa03

The field has already been selected.

It is quite poor for the exoplanet programme

Some tuning will be done later on.

SRa03

The field has already been selected around one SdB target, but some flexibility remains also

It is asked by the exoplanet team to observe the short run before the long one. This demand is Accepted.

5 Data

5.1 Status of the pipe-line:

5.1.1 Seismology imagerettes

See SC31-DR2


The photometry is not more accurate, but points recovered in the SAA increase significantly the duty cycle (**90 to 98 %**) and reduce the window effects.

5.1.2 Exo: Imagerettes

See SC31-DR3

L.J. stresses that presently the SAA and the eclipses remain a difficulty.

The duty cycle is around 86%

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5.2 Planning of delivery

The planning prepared by S.Chaintreuil. (see SC31-DR4) has a few weeks delay compared to the planning presented at the last SC, due to the correction of a small bug.
This new planning is accepted.

5.3 A possible implementation of the Mazeh algorithms ?

After an extended discussion, it seems that this very promising approach needs some more work and in fact modifies the signal. So it is decided not to try to include it in the pipe-line; results will be available through the wiki exo page

5.4 N3 products : The classifier CVC and the results

AB summarises the discussion of the last Co-Is and GIs meeting.
The tool and some results are submitted to A and A. But there is a need for validation and tuning specially for the most interesting but most difficult part of the low amplitude stars.
So the authors and the whole GI community involved in Variables feel that presently the data should remain in the private domain.
The SC accepts this proposition.

6 Scientific Policy and Data Rights document

6.1 List of authors in special cases

Paper on the small planet.

D. Rouan, on behalf of all the authors) asks the SC for his advice on the authors list.
After a long discussion it is proposed to apply the rules of the Scientific Policy and Data Rights (SPDR) document : Five first authors and among them at least one builder.
The five first authors are: A. Leger, D. Rouan, J. Schneider, P. Barge, M. Auvergne.
The team proposes also to put just after the 5 firsts a list of scientist deeply involved, in reverse alphabetic order, and then finish the list using the alphabetic order. This is accepted by the SC.

Seismology Type I papers


As recalled by EL, the rules state that a Type 1 paper should contain a builder on the third position. They state also that such papers should be posted on CoRoT pub before being send to an editor, and that they should not be put in a public site, to preserve the modelers of the CoRoT community.

In some ways, these rules were not applied for the submission of the Kallinger paper on solar like oscillations in HD 49933.

AP papers

Nothing special was written in the SPDR document. W. Weiss proposes that GIs follow the same rules as the seismology ones for their publication. This is accepted by the SC.

Action SC31-3: These minor modifications will be included in the SPDR by AB asap

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6.2 Use of public data

Authors will be kindly asked to include the magic sentence in their paper:
The CoRoT space mission, launched on December 27th 2006, has been developed and is operated by CNES, with the contribution of Austria, Belgium, Brazil , ESA (RSSD and Science Programme), Germany and Spain.

7 The special feature

Presently 60 papers have been received by A and A corresponding to 400 pages.
Approximately 10 more should be submitted in a few days.
This is a success. Let us see how the referring works

8 Extension of the mission

8.1 Introduction

O La Marle presents the actions to be taken and the general planning.
He is in favor of asking for a two years extension.
The first step is a formal letter to CNES, which has to be send asap.
AB presents a project of letter to the programme directorate, which seems OK.

8.2 Preliminary ideas

They have been collected by e-mail by A.B. (See SC31-DR5).
There is evidently two needs. The first one is an extension of the sample, and the other one, at least for exoplanet, a reobservvation of the same fields one year after.

8.3 Discussion, actions and Planning.

The different ideas are numerous and correspond to several years of mission. It is proposed to present all of them to show the possible impact of CoRoT, and then to focus on a priority programme for two years.
The first version of the proposal should be ready by the end of March.
It will be presented at the ad-hoc astronomy group in April and then follow the classical CNES advisory path for a final decision by this summer.


9 Meetings

9.1 CO-Is GI meeting

No need presently

9.2 CoRoT at IAU

2 presentations by AB at the IAU symposium 264 and at the joint discussion on “Helio and Asteroseismology”.

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10 General management

10.1 Nomenclature

Following a suggestion by Jean Schneider, the naming of the Corot planets is simplified
 Instead of CoRoT-exo-nb, use **CoRoT-nb**

10.2 International cooperations

There has been two answers to the Keck call for observations.
 One by Endl, asking for 8 nights of VR observations
 One by Ciardi, asking for 2 nights of high resolution imaging.

10.3 Evolution of the teams :

We have received requests for adding new members on their teams by from

- Lanza (I. Savanov, Moscow, Stellar variability and Microvariability),
- *Weiss (D. Guenther, Canada, Asteroseismology and stellar modelling- H-E Froehlich, Postdam, Surface imaging),
- *Alecian. (M. Gebran, Barcelona, Abundance stratification and stellar variability).

They are accepted.

* The request by C. Beichman of having D. Ciardi should have been done by Magali. In fact as Ciardi is the PI of a KECK proposal, he will become associated scientist as soon as the proposal is accepted.

10.4 Next SC meeting.

Between May 18th and 27th
Action SC31-4: AB organises a Doodle

11 Actions

Actions from SC28

SC28-4	Document on corrections	SC, MA, AB	Dec 2008	
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Actions from SC30

SC30-6	Observation of 165 in the sismo field	MA.	asap	
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Actions from SC31

SC31-1	Next Symposium in Marseille	PB	next SC	
SC31-2	Thematic conferences in 2010	EM, PB	next SC	
SC 31-3	update the SPDR document	AB	asap	
SC31-4	Doodle for the next meeting	AB	asap	