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	<b>Minutes of the 19<sup>th</sup> Scientific Committee</b>  Author: Annie BAGLIN	<b>COROT.LESIA.06. 31</b> <b>Version: 1</b>  Date: 22/06/06

## Minutes of the 19th Scientific Committee

Held in Nice, on June 5<sup>th</sup> and 9<sup>th</sup> 2006


<b>Prepared by par:</b>	<b>Annie Baglin</b>	
<b>Accepted by:</b>	<b>The SC members</b>	

### MODIFICATIONS OF THE DOCUMENT

Ed.	Revs.	Date	Modifications	Visa
1				


### REFERENCE DOCUMENTS

Index	Reference	Title of the document
DR1:	COROT.DESPA.01.014 Version 3	Scientific policy and Data rights

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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
E. MICHEL	OPM/LESIA	X
A. NOELS	IA Liège	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
P. BODIN	CNES	X
L. BOISNARD	CNES	X
J-L. COUNIL	CNES	X
T. LAM-TRONG	CNES	X
C. IMAD	OPM/LESIA/secretariat	X

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## Participants:

All members were present except J. Schneider, T. Lam-Trong, J-L. Council on Monday and E. Michel for both sessions.

## 1. A new member of the SC

Presentation of Malcolm Fridlund by F. Favata as the new RSSD representative. As a first task he will help editing the CoRoT Book.

## 2. The Observing programme

C. Catala, on behalf of E. Michel, presents the results of the forums, which has converged for

- the two initial runs
- the secondary targets for LRc1 and LRA1
- the selection of the primary targets for LRc2 and LRA2
- a short run in the centre SRC1, dedicated to seismology, containing several interesting targets for different types of stars.

- The SC suggests that the second short run (the first one of the anticentre direction: SRA1) be an AP short run. As the only AP short run already selected, which is observable at the beginning of the mission is the SdB one, it is proposed to "choose" it.

For the moment it does not seem necessary to go further. For the 3<sup>rd</sup> year, decisions will be taken only after some observations.

The SC regrets the absence of Eric, but states that the work is well advanced, and agrees with what has been proposed.

An official document will be edited before July 1<sup>st</sup>, describing these proposals

**(Action SC19-1, AB).**

Werner will issue a complementary AO of APs for specific targets in the fields of the 2 initial runs, before June 20<sup>th</sup>. The dead line for the answer should be September 1<sup>st</sup> so that the proposals could be considered at SC 20.

**(Action SC19-2, WW).**


## 3. Over sampling:

500 windows per CCD are available for oversampling

P. Barge recalls rapidly the exoplanet strategy:

The priorities are

- stars with know or suspected planets
  - at the beginning through spectroscopy+ Best: expectation 20 per CCD
  - then, stars with alarms
- reference targets to calibrate the variability, map of the HR diagramme

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#### Oversampling for Additional programmes

Some proposals have requested oversampling, and as Werner W. stresses it is very interesting for seismology.

- the objective to map the HR diagramme is a common interest (Exo, APs)?
- It is proposed to reserve **50 oversampled windows per CCD to the APs**
- W. Weiss proposes to have a Seismology Alarm Mode, which would analyse N1 products for periodic variations, in a similar manner to the PAM (planet warning mode).

As it is not yet completely settled, the SC proposes to start with the simple situation of a unique PAM.

A list of 50 targets for APs will be provided by W.W. Discussions are going on with LAM to agree on the format.

After, it may be possible to envisage the proposition of W. Weiss. R. Garrido remarks that other type of non periodic variability like flare stars could be interesting to detect also.

## **4. Publication policy**

### \* Call for Letter of intent for the Core programme

A.B. summarizes the answers

The exo Co-Is refer all to the common policy being established, and seem to claim that they will work as a group...

In seismology the answers have very different content and extension.

It is not yet clear how to make a step further.

It is decided that all the answers will be distributed to the SC members, and that some iteration will be decided at SC20.

### \* Core programme Data Rights Document.

AB recalls that a general document is being written and should cover the general aspects. It was already presented at the last SC.

The seismology groups have not proposed anything yet.

The AP activities do not need any new rules as it already exists and is recalled in the AOs.

The group of all Co-Is interested in the exoplanet core programme proposees to be called "CoRoT Exoplanet Science Team : CEST".

This group is now orgaznised in different Teams to adapt to the exploitation phase, following a meeting held in Paris on May 11<sup>th</sup>, on the complementary observation strategy..

He is elaborating an extended document of publication policy, as already presented at SC18,. Marc Ollivier presents the last version.


The SC considers that the document is not yet mature.

It seems wise to have secured the structure before going into the publication policy.

On Friday, after long discussions during the week, Pierre Barge proposes to prepare a shorter version with Marc Ollivier, which would be included in the general document. He will circulate it first among the SC then among the CEST and present it at the next SC for a final agreement.

**Action SC19-3, PB**

### \* Doc exodat/exosky (MD)

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This subject has been treated at SC, but the minutes are not complete on that topic. The document (given in annex 1) presented at that time by Magali was accepted, and will be included in DR1, after some rephrasing by Magali

**Action SC19-6, MD**

## 5. Preparation of the exploitation phase

Thien L-T recalls that the maintenance of the software is already an issue.

Things are being discussed with DLR and Austria, and are on the right track.

Concerning GMV, there is nothing in the contract, and Spain has not the resources to support it presently.

It is proposed to have a Steering Committee quite soon, well prepared to discuss this point and see how the cost of the exploitation phase can be shared.

J-L. Council informs that CNES has open a internal position for the Project manager of the first part of the Exploitation phase (from the end of the commissioning to the end of....)

As the mission and its operation are quite complex, it is required that this project manager be an ingenior who already knows well the mission.

## 6. General business

### \* Upgrade of the list of Co-Is

The only change is proposed by A. Noels, for Belgium

A. Jorrissen is replaced by Bart Vandenbussche, from Leuven, who is an expert in instrumentation and software.

### Next meetings

It is proposed to held

- **a meeting of the Co-Is and GIs** as soon as possible, by the end of the commissioning phase to report on its results, in Paris

I.R. proposes to contact the University of London in Paris for the venue.

- **a meeting** (probably also of the Co-Is and GIs) by June 2007 to start to discuss the preliminary results of the initial runs, share the difficulties ..... For 2 days in Paris

- **an international meeting in early 2008 to present the results.**


At the last SC, it was suggested by Fabio Favata to hold it at UNESCO.. To be decided soon.

### The SC will meet on September 15<sup>th</sup> in Paris

The SC asks for a presentation of the Commissioning Phase by Laurent Boisnard and Michel Auvergne.

JS proposes to investigate the possibility to have a diner in Ville d'Avray where CoRoT has been painting often.

## 7. Relations to groups outside the Corot community

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\* HELAS:

The HELAS network (Coordinated action in Helio and Asteroseismology in Europe, in FP6) has a Task called “Asteroseismology” and C. Aerts is its chairperson.  
 “The “Asteroseismology” network activity will promote a vital exchange between groups acting on the field of stellar physics. The institutions will collaborate to work on the theoretical description of physical properties of stars and to analyse and interpret stellar oscillation data.”  
 A. Baglin is invited to participate to the board, to represent the CoRoT Community  
 Helas will fund the CoRoT meeting in 2008 as the HELAS III Conference.  
 CoRoT will also play an important role in the task “Outreach” lead by J. Christensen-Dalsgaard .

\* T. Mazeh:

He has contacted Magali and Heike again.  
 It is decided that a letter will be send.....

\* The Kepler Team

Though they were no official representatives of the Kepler Team at CW10, D.Latham presented the Ground based activities, and good contacts have been taken.

## 8. PR activities

Broadcasting of the launch

TLT confirms that CNES will organise the broadcast.  
 Any institute or agency interested in receiving the image should contact the CNES CoRoT PR project manager: [Agnes.Lerr@cnes.fr](mailto:Agnes.Lerr@cnes.fr) or [Thien.lam-trong@cnes.fr](mailto:Thien.lam-trong@cnes.fr).  
 It will be free of charge.  
 There will be no comment, which will have to be done locally

The CNES/ALCATEL Film

A first version of a film on CoRoT prepared by CNES and Alcatel has been distributed to the participants of CW10. It will be complemented by interviews....  
 HK remarks that there is no mention of partners and even French laboratories.  
 It is proposed to contact A. Lerr to modify this.

**Action SC19-4, AB**


Exhibits

The Marseille exhibit is on track  
 The Paris Observatory exhibit is being designed.  
 All the material will be available to those who would like to use it.

## 9. CoRoT Publications

T. Guillot says that it is important to share all the material which is presented on different occasions on CoRoT.

A web page could allow managing, archiving and accessing the CoRoT publications and presentations. TG proposes to present a project, as soon as possible, and look at the possibility to host it in OCA.

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**Action SC19-5, TG**

All the SC agrees with this idea.

The decision to start it will be taken at the next SC, or even earlier if possible.

## 10. Actions

### 10.1. Actions from SC17 still open


SC17-2	Edition of the document on the templates	AB	End 2005	
SC17-6	Standard copyright	T L T	SC 18	
SC17-7	Document on follow-up activities	MD	CW10	
SC17-8	Document on classification of variables	RG	CW10	

### 10.2. Actions from SC 18

SC18-6	Interest for Very long runs	EM MD	SC20	
SC18-7	Initial oversampling list	WW, PB, AB	SC19	
SC18-10	Exoplanet policy doc	MO+PB	SC19	
SC18-12	CP data right doc	AB	SC19	
SC18-14	Mail to T. Mazeh	AB/HR/MD	May 15	
SC18-15	PR in USA	JS	asap	

### Actions from SC 19(Action SC19-1, AB).

SC19-1	Document on the observing programme	AB	July 1st	
SC19-2	Issue of AO for IR	WW, , AB	June 30th	
SC19-3	Exo document on pu policy	PB	SC 20	
SC19-4	Contact A. Lerr on partners in the CNES/ALCATEL film	AB	ASAP	
SC19-5	Web page for publications	TG	SC20	
SC19-6	Final doc on exodat policy	MD	ASAP	

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## EXODAT/EXOSKY data policy

To be included in the data rights document

Authors: M. Deleuil, H. Deeg, And C. Moutou

Exodat is a Data Base built as a scientific support to exoplanet program

Prior to the launch of the instrument, the data have been acquired and collected on behalf of the exoplanet Team to provide the necessary information for the preparation of the observations of CoRoT exoplanet program. The DB contains not only the observational data but also the information derived from subsequent scientific analyses, aiming at a full characterization of the stellar population in the CoRoT exoplanet fields. Parts of these data are released to CorotSky to prepare the sequence of observations in the exoplanet channel and the following rules apply on the exoplanet data in CorotSky. Later, by the end of the mission, the whole DB will be released to the CDS.


Access to Exodat is provided on request to the CoRoT Co-Is who intend to propose observations in the exoplanet fields or to analyze the light curves from the exoplanet channel, that is not only to exoplanet team members but also asteroseismology or additional program teams. If other teams, using EXODAT data, perform similar analyses leading to different results, these results should be provided to the Exoplanet team to correct or complete EXODAT.

Any publication of CoRoT flight data using EXODAT information should mention the origin of the data and the persons who produced or contributed significantly to the production of the data should be added as co-authors. For the data acquired prior to the launch the contributors are : H. Deeg, M. Deleuil, C. Moutou, J.C. Meunier & P. Guterman.

Publication of data from EXODAT or the analysis of EXODAT data without relation to CoRoT flight data needs the agreement of the above listed contributors.

Beyond the preparation of the mission, the final motivation of the DB being the statistical analysis of the exoplanet results in terms of star-planet connection, the DB will be regularly completed by additional data on both stars and planets. After COROT observations, EXODAT will be used by the exoplanet group as a tool to secure the planetary nature of the detected transit events and to get the planet and the parent star properties. The data base will be thus completed by the information derived from the CoRoT light curves analyses, a good knowledge of the stellar parameters in terms of colors, spectral type, gravity, rotation, stellar peculiarities and binarity of the parent star providing key information to filtered out non-planetary events. Follow-up observations and analysis results on both stars and planets will be archived in EXODAT and linked to existing data. However, insertion of these data into EXODAT and resulting proprietary rights will be discussed in more details within the follow-up group and the status of these new data will be further completed in the forthcoming months.




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**Table 1: List of Co-Is and GIs**


**Co-Is**

<i>Name</i>	<i>first name</i>	<i>Country/lab</i>	<i>Institution</i>	<i>activity</i>	<i>WG</i>
<b>RAUER</b>	<b>Heike</b>	<b>Germany</b>	DLR Berlin	GBO, planet statistics, atmospheres	E/ECO
HATZES	Artie	Germany	Thueringer	GBO exo and sismo	E/SGBO
PAETZOLD	Martin	Germany	Cologne	Exo atmospheres	E
WUCHTERL	Guenther	Germany	MPI	Planet formation, mass distribution	E
ERICKSON	Andres	Germany	DLR Berlin	GBO, dynamics, planet statistics	E/ECO
<b>FAVATA</b>	<b>Fabio</b>	<b>ESTEC</b>	RSSD	Young stars activity	A
FOING	Bernard	ESTEC	RSSD	Link to space missions, activity	A
FRIEDLUND	Malcom	ESTEC	RSSD		?
GONDOIN	Philippe	ESTEC	RSSD		?
<b>NOELS</b>	<b>Arlette</b>	<b>Belgium</b>	Liège	Stellar evolution	S
AERTS	Conny	Belgium	Leuven	Beta Ceph, SPB	S
SCUFLAIRE	Richard	Belgium	Liege	Non adiabatic analysis	S
MAGAIN	Pierre	Belgium	Liege	Spectroscopic analysis	SGBO
VANDEBUSSCHE	Bart	Belgium	Leuven	Instrumentation, Ground segment	Inst
<b>GARRIDO</b>	<b>Rafael</b>	<b>Spain</b>	IAA	GBO photometry	S
RIBAS	Ignacio	Spain	U. Barcelona	Binaries Eclipsing	AP
DEEG	Hans	Spain	IAC	Transit detection	E
ROCCA-CORTES	Theo	Spain	IAC	Data analysis and interpretation	S
SOLANO	Enrique	Spain	LAEFF	GB Data base	SGBO
<b>WEISS</b>	<b>Werner</b>	<b>Austria</b>	Vienna	APWG +lambda Boo, Ro Ap	S/AP/SGB
HANDLER	Gerald	Austria	Vienna	Gam Dor	APS
DVORAK	Rudolf	Austria	Vienna		E
LAMMER	Helmut	Austria	Graz	planetary atmospheres	E
ZWINTZ	Konstanz	Austria	Vienna	PMS	S
<b>ROXBURGH</b>	<b>Ian</b>	<b>UK</b>	QMW London	Excitation and amplitudes	<b>S</b>
COLLIER-CAMERON	Andrew	UK	St Andrews	Activity modeling	AP
QUELOZ	Didier	Switzerland	Geneve	GB follow-up	EGBO
KJEDSEN	Hans	Danemark	Aarhus	TBC	SGBO

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MONTEIRO	Mario	Portugal	Porto	Stellar modeling (TBC)	S
<b>JANOT-PACHECO</b>	<b>Eduardo</b>	<b>Brazil</b>	U Sao-Paulo	Seismology Be stars	S
GREGORIO-HETEM	Jane	Brazil	U Sao-Paulo	PMS Stars	AP
de la REZA	Ramiro	Brazil	ON Rio	Proto-planets	E
MELLO	Gustavo	Brazil	O Vallongo, Rio	Gaints	AP
de MEDEIROS	José Renan	Brazil	U Rio Grande del Norte	Rotation	S/AP
PORETTI	Enio	Italy	Merate	Spectroscopy/delta scuti	SGBO
<b>MICHEL</b>	<b>Eric</b>	<b>France</b>	LESIA	SWG+delta scuti analysis	S
<b>CATALA</b>	<b>Claude</b>	<b>France</b>	LESIA	SGBOWG	SGBO
<b>ROUAN</b>	<b>Daniel</b>	<b>France</b>	LESIA	Onboard treatment	E
GOUPIL	Marie-Jo	France	LESIA	Moderate rotation	S
MOSSER	Benoit	France	LESIA	Solar planets	E/S
SAMADI	Reza	France	LESIA	Amplitudes	S
TIPHENE	Didier	France	LESIA	Instrument	Instr
BARBAN	Caroline	France	LESIA	Data analisis	S
<b>SCHNEIDER</b>	<b>Jean</b>	<b>France</b>	LUTH	Planets in multiple systems	E
<b>ALECIAN</b>	<b>Georges</b>	<b>France</b>	LUTH/GEPI	Chemically peculiar stars	S
HUBERT	Anne-Marie	France	GEPI	Be stars	AP/S
LEBRETON	Yveline	France	GEPI	Models	S
<b>LEGER</b>	<b>Alain</b>	<b>France</b>	IAS	Earth like	E
BOUMIER	Patrick	France	IAS	Instrument	Inst
BAUDIN	Frederic	France	IAS	Time frequency analysis	S
OLLIVIER	Marc	France	IAS	Instrument	E/Instr
APPOURCHAUX	Thierry	France	IAS	data analysis	S
<b>BARGE</b>	<b>Pierre</b>	<b>France</b>	LAM	EWG+Hot planet statistics	E
<b>DELEUIL</b>	<b>Magali</b>	<b>France</b>	LAM	EGBO	EGBO
<b>JORDA</b>	<b>Laurent</b>	<b>France</b>	LAM	Data reduction	E
MOUTOU	Claire	France	LAM	EGBOWG	EGBO
LLEBARIA	Antoine	France	LAM	Masks in E field	E
BOUCHY	François	France	IAP	Radial velocities	E
<b>VAUCLAIR</b>	<b>Gerard</b>	<b>France</b>	OMP/LAT	WD	S
TOUBLANC	Dominique	France	OMP/CESR	Catalogues	E
VAUCLAIR	Sylvie	France	OMP/LAT	Diffusion and mixing	S

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RIEUTORD	Michel	France	OMP/LAT	Fast rotation	S
CHARPINET	Stephane	France	OMP/LAT	Corotsky	S
LIGNIERES	François	France	OMP/LAT	Rotating models	S+SGBO
<b>GUILLOT</b>	<b>Tristan</b>	<b>France</b>	OCA	Hot Jupiters	E
PROVOST	Janine	France	OCA	Direct seismic analysis	S
BERTHOMIEU	Gabrielle	France	OCA	Optimisation interpretation	S
TOUTAIN	Thierry	France	OCA	Data analysis	S
MATHIAS	Philippe	France	OCA	gamma dor	S
TURCK-CHIEZE	Sylvaine	France	Sap/CEA		S
GARCIA	Rafael	France	Sap/CEA		S
BALLOT	Jerome	France	SaP/CEA		S
<b>AUVERGNE</b>	<b>Michel</b>	<b>France</b>	LESIA	IS	Inst
<b>BAGLIN</b>	<b>Annie</b>	<b>France</b>	LESIA	PI	

## GIs

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Chadid	merieme	<a href="mailto:chadid@unice.fr">chadid@unice.fr</a>
Ripepi	Vincenzo	<a href="mailto:nlanza@ct.astro.it">nlanza@ct.astro.it</a>