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### Minutes of the 13th Scientific Committee

Held in Granada, December 13<sup>th</sup> and 17<sup>th</sup> 2004.

Prepared by par:	15/01/05	
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	Scientific policy and Data rights
DR2		Letter of the scientific Committee to Mrs Wagner
DR3		

#### 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
M. JOUBERT	CNES	X
T. LAM-TRONG	CNES	X
A. LEGER	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 D. Rouan and M. Joubert

### 1. SC/ CWs organisation

#### 1.1. CW7: debrief

More than 100 participants; as in Orsay.  
 Good format  
 Still some "general" talks outside the scope of CW8  
 Place was very nice and convenient

#### 1.2. CW8 organisation

CW8 will be held in Toulouse, organised by CNES and OMP.  
 Probably at Palais des Congrès  
 Parallel activities directed towards young people are foreseen, as well as a public conference  
 Preferred dates: May 23 to 27<sup>th</sup> 2005.

Same format as CW8.

The "instrument session" will present results on integration and tests on the whole instrument, which may be visible at Intespace.

Both SWG and EWG propose to focus on two topics: **data analysis** and **organisation of follow-up observations**.

New insights on the choice of the next preferred fields will also be presented...but not for immediate decision...

Confirmation that the oral presentations should be limited to "invited" talks solicited by the coordinators of the sessions, and directly linked to its objectives. This means in particular, that there will be no call for oral presentation in the announcement of the meeting, only for posters.


#### 1.3. Next CWs

RSSD proposes to organise CW9. The proposed date is December 5 to 9  
 For CW10, which will be held in France, just before the launch there are 2 propositions: SAp and Nice. A.B. is asked to obtain complementary informations to help decision, which will be taken at the next SC.

#### 1.4. SC meetings

Many SC members feel that an additional meeting between two CWs will become necessary. The principle of reserving one slot for this meeting in case it is necessary is adopted...

The discussion on the choice of the first fields lacked sufficient informations from the exoplanet side, available in advance.  
 The SC confirms the proposal made during the corresponding session of CW8, for the first field in the anticentre direction: e.g., the two targets on CCDA1. If instrumental problems arise due to the lower full well capacity of A1, it looks possible to have the two targets on A2 as a back up.

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For the first field of the centre, SWG has expressed a strong interest for 181555. The evaluation of the exoplanet field is not finished due to some difficulties in computing the contamination. Though the choice to observe this field is very important for the mission studies, which will start very soon, as it implies that it has to be the first one due to its far eastern position, no decision was possible yet. So it has been decided to have an SC meeting (SC14th) quite soon.  
 The date is March 7<sup>th</sup> in Paris, at Observatoire de Paris or ESA HQ. It will be devoted to this final choice of the centre and anticentre first fields, and to the final preparation of the first AO for APs, which will contain observations in these two fields plus short runs.

### 2. SC Members and Co-Is

#### 2.1. SC membership

A.B. presents the demand of S. Turck-Chièze to become member of the Scientific Committee, considering that the Service d'Astrophysique is not represented.  
 The SC stresses that the total number of members should not increase and that laboratories contributing to the scientific preparation are not represented individually.  
 It encourages the members of the SAp to discuss with SC members to propose one of them as their representative.

#### 2.2. List of CO-Is

It has been recalled that concerning partners, it remains under the responsibility of the coordinator (member of SC) to nominate the Co-Is of their country. But the SC stresses once more that it is important to be careful about the involvement of the Co-Is in the CoRoT preparation.  
 Each contributing country or lab has at maximum 5 Co-Is. So RSSD, Germany and Austria have still the possibility to nominate one more Co-I.

A. Noels proposes to replace Jorissen by de Ridder, from Leuven, working on the seismology of red giants from both observational and theoretical side  
 P. Mathias (Observatoire de la Cote d'Azur) coordinates a group working on Gamma Doradus stars. E. Michel proposes to nominate him as a Co-I; SC accepts it.  
 The updated list of Co-Is is added to these minutes.


#### 2.3. Activities of the Advisory Board (AB)

The Scientific Committee Advisory Board is composed of the WG coordinators plus M. Auvergne and Annie Baglin. Its role is to advice the PI, about urgent decisions between the SC meetings.

There have been two teleconferences since CS12

The first one held on July 5<sup>th</sup> focussed on the need for rapid field selection.

The APWG said that the need of this rapid choice is to prepare proposals for complementary observations. For instance, the ECO/EWG is preparing spectroscopic observations with GIRAFFE, which cannot be performed on large fields. So there is a need to have a precise position in advance.

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It was agreed that the field of HD 49933 + HD 49434 has very high chances to be observed (probably first or even second in the anti-centre direction).  
 Due to the fact that there are 2 stars interesting for the seismology program, and assuming that both stars will be observed on the same time, the possibilities for the exoplanet CCDs are reduced.

E. Michel stressed that in the SWG, many people expressed their interest for having the fields defined more precisely as soon as possible, but that it would not be easy to have a real concertation of the SWG outside the CW meetings.

MA recalled that there is a need for some flexibility to cope with cosmetics and unexpected problems on the instrument and the satellite.

During this teleconference, the question of by whom decisions on pointing and target list should be prepared and taken has been discussed.

It was agreed that the decision on the observation plan has to be taken by the Scientific Committee, but that it has to be prepared by a group of experts, who will present several weeks in advance his propositions to the SC.

SC13th confirms this proposition. The group will be composed of

- The WG coordinators
- The Instrument Scientist + The system Ingenior (Laurent Boisnard)
- The PI.

It is proposed to name it: **Observation Plan Advisory Board: OPAB!**

This group could ask for additional expertises if needed

The second teleconference of the SCAB was held in September 9<sup>th</sup> and was dedicated to the possible exchange of CCDs following a question by Michel A. due to the real measurements of the full well capacity (FWC).

With the new capacity values, the margins are very low on saturation of bright sources, and are not large enough to take into account uncertainties on stellar flux estimates (10% or more) and other technical uncertainties.

So MA proposes to exchange the CCDs presently in positions A1 and E2, the higher capacity of the present E2 giving some margins to the seismology program (the number of defects is not larger on A1 than on E2). In this new configuration A1 will have the highest FWC.


After some discussion the SCAB accepts this proposition. The slight reduction of FWC in the new exo CCD (former A1) may increase the saturation level by 0.2 magnitude, so preventing for observing in good conditions the 40 brightest stars; it is considered as acceptable.

### 3. Cooperations

Thien Lam-Trong summarizes rapidly the situation of collaborations.  
 Except for the Belgium contribution there are no major problems.

He presents the difficulties raised by the baffle design, which presently does not fulfil the vibration requirements and does not pass the vibration tests successfully.

So, the baffle has not been delivered in time and the integration plan had to be modified to decrease the impact on the general planning. However, if no rapid solution is found, one has to expect a large delay.

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The contract with the Verhaert Company is under the responsibility of CSL and the problems have been discussed only at the Belgium level presently.

The Scientific Committee decides to send a letter to Mrs Wagner, chief of the "Service de la Recherche et des Applications Spatiales" to obtain a very rapid meeting with all parties at technical and administrative levels (DR2). AB and A. Noels have written the letter, which has been sent on December 15<sup>th</sup> by express mail.

There is still a lack of formalism with some partners.

The agreement with Spain is ready but not yet signed...

With Brazil, political problems have delayed the signature of the agreement for the antenna due to political difficulties between AEB and CNES.

### 4. Around Co-I ship, duties and data rights

#### 4.1. Clarification of the role of Co-I, GI and Associated scientist, Definition of Teams

As suggested by Claude Catala, the SC proposes to define a procedure ensuring an optimization of the work in the CoRoT community (CoRoT community = ensemble of all CoRoT Co-Is and GIs) and outside, during the one-year proprietary period, avoiding unnecessary duplication of efforts and optimizing the scientific return of the mission for the COROT community.

It is agreed that the Co-Is and GIs will be given the possibility to head scientific collaborations involving teams within or outside the CoRoT community; the members of these teams are called **Associated Scientists**. However, Co-Is and GIs will be accountable to the CSC for the distribution and use of the CoRoT data they have acquired as a result of their status of Co-Is or GIs (in case of GIs they have data rights solely for the science of their additional programme).

The Co-Is and GIs will be required to notify the CSC about their plans for collaborations using CoRoT data, by submitting, prior to the distribution of the data, lists of participants to the collaborations that they are heading, and in case of Co-Is the science objectives pursued in these collaborations.


The CSC, after collecting such input from all Co-Is and GIs, will distribute this information to all CoRoT community, thus providing the opportunity for the various teams preparing to get involved in data analysis and to merge efforts and collaborate when their goals and approaches are similar. The CSC itself can also encourage such collaborations where and when it feels necessary.

In cases, if any, of proposed use of the data leading to unfair competition, for instance on the benefit of a team outside the CoRoT community, the CSC has the right to « veto » Co-I's or GI's proposals for collaborative use of the CoRoT data. This right of « veto » holds for the one-year proprietary period only.

The preceding 4 paragraphs are integrated in the Data rights document (DR1).

#### 4.2. Meeting of the Co-Is

The SC decides to held a short meeting of Co-Is to present this point during the next CW. It is also said that it will help developing a group consciousness among the Co-Is ....

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#### 4.3. Participation of minor contributing countries

Following the discussion introduced by Fabio Favata, the SC proposes the following: Colleagues from countries not involved in the mission development (and thus not covered by the existing agreements with CNES) can join different team, and thus participate on a personal level, e.g. in the ground based complementary observations or in the theoretical preparation work. This has already happened in a number of cases. These scientists are integrated in the COROT structure as Associated Scientists.

If for internal political reasons (visibility, etc.) a team (likely a 'national' team representing a significant fraction of a country's astronomical community) needs to have a more formal agreement, this will be treated on a case-by-case basis by the PI, who will consult with the CSC.

In such case, if the proposed contribution is judged sufficiently important to the mission, the team leader may e.g. be appointed Co-I. A special case has been made for Ennio Poretti who has taken large responsibilities in the COROT preparation and has been appointed Co-I by courtesy of the PI (and with the support of the CSC).

#### 4.4. Organisation of the internal referring

Magali D. has described the method adopted by FUSE and proposes to have the same one for CoRoT. It consists of a "soft" referring prior publication. Its main objectives are to avoid obvious mistakes and misrepresentations of the instrument and mission, to develop cooperations and avoid wild competition, and globally to insure that CoRoT presents a good image!

After some discussions the following policy is agreed upon:

A web site will be set-up where the manuscripts will be available to all CoRoT Co-Is before submission to a scientific journal.

An Editorial Board composed of 3 SC members (e.g. 1 sismo, 1 exo, 1 AP) will have the responsibility of this referring; they can do it themselves or ask another SC member or expert of their choice to do it.

All Co-Is and eventually GIs can send comments to the authors and the Editorial Board.

The answers have to be given rapidly: within 15 days as a goal, 20 days as a dead line. In case of no response from the editorial board to the authors after the 20 days deadline the paper will be considered automatically approved.


In case of unsolvable disagreement between the author and the editorial board, the final word will rest with the CSC, who will take the final decision on the paper. The editorial board and ultimately the SC have the right not to allow a manuscript containing CoRoT proprietary Co-I/G-I data to be submitted, although this should remain exceptional.

This of course does not apply to data that are publicly available (i.e. after the 1 year period), but authors will be encouraged to continue submitting their manuscript that way for an easier referring.

#### 4.5. N3 products

The document defining N3 products (COROT.LESIA.04.103), as discussed at CS12 is now accepted by all members.

Concerning the classification of variables two teams have offered to contribute. It has been decided that both teams will be involved in the corresponding N3 product. R. Garrido proposes to organise comparison tests between the different methods. The SC accepts this proposition.

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## 5. Organisation of the AP activities

### 5.1. Thematic teams

W. Weiss, as APWG coordinator, is starting to set up "Thematic teams" to help people get together for common proposals. It is already the case for Be stars and PMS. A proposal for a team on Activity, Convection and Rotation has also been presented (ACRO-CoRoT) with a meeting in Brazil next fall.

Thematic teams may overlap with teams of the core programme, but should be defined as to avoid conflicting situations.

### 5.2. First AO

W. Weiss proposes a first draft for the first AO. It is asked that this draft circulate among the SC members for a final tuning.

As said previously (§ 1.4) it will be issued just after the 14<sup>th</sup> SC meeting on **March 10th**, and will cover the two first long run and the short runs.

The answers will be due at the end of June and the decisions will be taken at the end of summer, during a specific SC meeting.

It is stressed that for this AO to be really open, all the necessary information to prepare a good proposal has to be available on the web site and easy to access.

A page called "How to propose an AP" will be created (resp AB, WW).

A.B. says that there will also be a "hot line" at Meudon.

## 6. PR activities

AB has presented the CD-ROM made at Observatoire de Paris, in a draft version.

It will be distributed free of charge (!) for non-commercial use in January.

The source (in Flash) will be available on request for translations in different languages.


It is decided to propose a web page for the ESA site, based on news from the integration.

AB will propose the content and FF will take care of its integration into the ESA site.

At SC12 (Action SC12-11) it was asked to all participating countries to nominate a PR person.

Presently, only RSSD and Germany have done so!

As time was over, discussion stopped.

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## 7. Actions

### 7.1. Actions from SC12 still open

SC12-10	Presentation EXODAT policy	MD	SC13	Postponed to SC14
SC12-11	Designation of an outreach person	Non French SCM	ASAP	

### 7.2. Actions from SC13


SC13-1	Date of the next CW	AB	Dec 23	
SC13-2	Letter to Mrs Wagner	AB and AN	Dec 14th	Closed
SC13-3	Organisation of CW10 in France	AB	March 2005	
SC13-4	web page: How to propose an AP	A.B., W.W.	Dec 31	
SC13-5	Fix the location of SC13th	AB	Jan 5th	
SC13-6	Circulate draft of AO	WW	Jan 15th	
SC13-7	Web page for ESA	AB	Jan 31st	
SC13-8	Integration in ESA site	FF	ASAP!	

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## Annex A: List of Co-Is as presented at this meeting

Name	First name	Country/lab	Institution	Activity	WG
<b>RAUER</b>	<b>Heike</b>	<b>Germany</b>	DLR Berlin	Dynamics of the Hot Giants	E/EGBO
HAIZES	Artie	Germany	Thueringer	GBO exo and sismo	E/S
PAETZOLD	Martin	Germany	Koln	Exo atmospheres	E
WUCHTERL	Guenther	Germany	MPI	Planet formation, mass distribution	E
<b>FAVATA</b>	<b>Fabio</b>	<b>ESTEC</b>	RSSD	Activity	S/E
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 adiab analysis	S
MAGAIN	Pierre	Belgium	Liege	Spectroscopy analysis	SGBO
De RITTER	Joris	Belgium	Leuven	Seismology of red giants	S
<b>GARRIDO</b>	<b>Rafael</b>	<b>Spain</b>	IAA	GBO photometry	S
RIBAS	Ignacio	Spain	Barcelona	Eclipsing binaries	AP
DEEG	Hans	Spain	IAA	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	Gerard	Austria	Vienna	gam Dor	AP/S
LEBZELTER	Thomas	Austria	Vienna	AGBs	AP
LAMMER	Helmut	Austria	Graz	exoplanet atmospheres	
<b>ROXBURGH</b>	<b>Ian</b>	<b>UK</b>	QMW London	Excitation and amplitudes	S
COLLIER-CAMERON	Andrew	UK	St Andrews	Activity modelling	AP
QUELOZ	Didier	Switzerland	Geneve	GB follow-up	E
KJEDSEN	Hans	Denmark	Aarhus	TBC	SGBO
MONTEIRO	Mario	Portugal	Porto	Stellar modelling (TBC)	S
PORETTI	Enio	Italy	Merate	Spectroscopy/delta scuti	SGBO
<b>JANOT-PACHECO</b>	<b>Eduardo</b>	<b>Brazil</b>	Sao-Paulo	Seismology of hot stars	S/SGBO
GREGORIO-HETEM	Jane	Brazil	Sao Paulo	pre main sequence	AP
De la REZA	Ramiro	Brazil	ON Rio de J.	protoplanets	AP/E
CUISINIER	François	Brazil	OV Rio de J.	Giants	AP
RENAN de	José	Brazil	Natal	solar like, rotation	S, AP

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MEDEIROS

<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
<b>GOUPII</b>	Marie-Jo	France	LESIA	Moderate rotation	S
<b>MOSSER</b>	Benoît	France	LESIA	Solar system planets	E/S
<b>SAMADI</b>	Reza	France	LESIA	Amplitudes	S
<b>TIPHENE</b>	Didier	France	LESIA	Instrument	Inkster
<b>BARBAN</b>	Caroline	France/NOAO	LESIA	Synthetic light curves, colours	S
<b>SCHNEIDER</b>	<b>Jean</b>	<b>France</b>	LUTH	Exoplanet science and ambiguities	E/EGBO
<b>ALECIAN</b>	<b>Georges</b>	<b>France</b>	LUTH/GEPI	Chemically peculiar stars	S
<b>HUBERT</b>	Anne-Marie	France	GEPI	Be stars	AP/S
<b>LEBRETON</b>	Yveline	France	GEPI	Stellar models	S
<b>LEGER</b>	<b>Alain</b>	<b>France</b>	IAS	Earth like planets	E
<b>BOUMIER</b>	Patrick	France	IAS	Instrument	Inst
<b>BAUDIN</b>	Frederic	France	IAS	Time frequency analysis	S
<b>OLLIVIER</b>	Marc	France	IAS	Instrument	E/Instr
<b>APPOURCHAUX</b>	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
<b>MOUTOU</b>	Claire	France	LAM	EGBOWG	EGBO
<b>LLEBARIA</b>	Antoine	France	LAM	Masks in E field	E
<b>BOUCHY</b>	François	France	LAM	Radial velocities	EGBO
<b>VAUCLAIR</b>	<b>Gerard</b>	<b>France</b>	OMPLAT	WD	S
<b>TOUBLANC</b>	Dominique	France	OMP/CESR	Catalogues	E
<b>VAUCLAIR</b>	Sylvie	France	OMPLAT	Diffusion and mixing	S
<b>RIEUTORD</b>	Michel	France	OMPLAT	Fast rotation	S
<b>CHARPINET</b>	Stephane	France	OMPLAT	CoRoTsky	SGBO
<b>LIGNIERES</b>	François	France	OMPLAT	Rotating models	S/SGBO
<b>GUILLOT</b>	<b>Tristan</b>	<b>France</b>	OCA	Hot Jupiters	E
<b>PROVOST</b>	Janine	France	OCA	Direct seismic analysis	S
<b>BERTHOMIEU</b>	Gabrielle	France	OCA	Optimisation interpretation	S
<b>TOUTAIN</b>	Thierry	France	OCA	Data analysis	S
<b>MATHIAS</b>	Philippe	France	OCA	Gamma Doradus stars	S
<b>TURCK-CHIEZE</b>	Sylvaine	France	Sap/CEA		S
<b>GARCIA</b>	Rafael	France	Sap/CEA	Data reduction	S

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