	Title:	Reference:
	Minutes of the 18th Scientific Committee Author: Annie BAGLIN	COROT.LESIA.06. 020 Version: 0 Date: 02/0506

Minutes of the 18th Scientific Committee

Held in ESA-HQ/ Paris on April 5th and 6th 2006.


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

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 L. Jorda
T Lam-Trong attended only the April 6th session.
A. Lerr has been invited to the April 6th session

1 Welcome address

Sergio Volonté welcomes the meeting on behalf on the ESA Science Programme
He recalls the importance of CoRoT in the general scientific policy of ESA, as a first step in the Roadmap to exoplanets.
He confirms the launch of GAIA by the end of 2011, and the start of the industrial studies for Bepi-Colombo
A Call for new intermediate size mission will be released by the end of May for an answer in September, and a launch in 2016. The Cosmic Vision document will drive the scientific priorities. 4 missions will be selected for an Assessment phase.
He also announces that he is leaving his present position to become the SPC and SSAC Secretary. He will be replaced by Fabio Favata as the Astronomy coordinator.

2 Observing programme : Status

AB recalls the general situation concerning the programming.

2.1 Core programme session

2.1.1 Initial runs

It is recalled that. at the last meetings (CW9 and SC17th) the community, blessed by the SC, has decided to prepare 2 initial runs, belonging to the Core Programme, preferably located in the regions of the anticentre eye where ground based observations exist.
It is also necessary that these runs produce unique, visible and good scientific results for both programmes

For the Exoplanet programme (EP), Magali D. presents the results of the discussions among the ECO group. The objective is to increase the statistics of close-by planets (periods smaller than 15 days)

So the requirement is at least 2 runs and no overlap between them.


A slight overlap with LRA1 is acceptable.

The favorable regions are south east of LRA1, in the direction of LRA2, and North of this region.

For the seismology programme (SP), Eric M. shows the conclusions of the extended discussions occurring through the Forum.

Two observations blocks are proposed called EM01b and EM02, which contain a few known variables and a reasonable coverage of the HR diagram, though solar like bright candidates are rare.

The Northern region is quite poor in terms of seismology targets.

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So.....Convergence is difficult...

* The run EM01b satisfies both programmes and is considered as the first choice, then called **IR1**. Precise position and proposed sismo targets will be published in the web page before the end of the month.(SC18-1).

As there is some overlap with LRA1, the question is raised about the public release of the data. It is decided that the rule “public release one year after the delivery of the data to the Co-Is” has to be understood as “public release one year after the last delivery of the data for a given target to the Co-Is”.

A slight rephrasing in DR1 will be necessary to precise this point.

* But it has not been possible to fix another position during the meeting.

Considering the good quality of IR1 for both programme, it is decided to try to find a position in the North, optimizing the EP criteria but also acceptable for the SP

EM will prepare a proposal for IR2 before April 20th (SC18-2).

It is also decided that IR1 and IR2 will have no overlap

As IR1 is very good for both programmes, it is proposed to have a longer duration for IR1 (60 days) than for IR2 (30 days)

2.1.2 Long runs

* LRA2

The northern position seems acceptable for the exoplanet programme.

Eric asks for confirmation before the next CW, not later than May 1st (SC18-3)

It is also compliant with the SP. Precise position and sismo targets should be settled at the next CW.

* LRC2

Magali D presents the evaluation of the EP

- 171834 acceptable but gradient

- 170580 very strong gradients, only to the North, strong constraints from the EP

-177552 very bad.

It is decided to prepare for CW10 a preliminary proposal, for both programmes to be decided at SC20th (SC18-4)

As the number of interesting targets is often smaller than 6000, the question is raised by Jean S. on the rules to fill the 6000 targets. Should we add fainter stars or more giants...

MD stresses that the spectral classification has still to be checked. This is in progress using for instance the Giraffe observations.

2.1.3 Sismo short runs

Little has been done on that, though we need to fix rapidly SRc , the first one for the centre region


It is decided to prepare proposals for the next CW, and to select at least one at SC20th (SC18-5).

2.1.4 Very long runs

It is decided to document the possible interest for very long runs (170 days) for both programmes.

Report at SC20. (SC18-6)

2.2 Additionnal programme session

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It is recalled that for a Short run dedicated to an AP, the priorities are the following:

- 1- Achieve the AP selected
- 2- Tuning possible to improve the SP and EP return
- 3- Tuning possible to satisfy another AP request

2.2.1 Phase B Review for 4 APs

Werner presents the status of the different programmes in Phase B till March 31th

* AP n° 16 NGC 2264 : Favata et al:

* The feasibility has been nicely demonstrated, with the help of F. Karioty. Several hundred targets are required

A strong interest in observing bright members, which are in the Instability strip is mentioned. It will depend on the instrumental possibilities which are promising in this respect says Michel A.

* The EP and SP are interested by this pointing.

Tuning can be made to optimize the SP and EP return

* Due to its position, it cannot be observed at the beginning but probably more at mid-mission.

* AP n° 15 and 45: HD 46375 Vannier, and Deeg

* The AP requires only one source in one of the Sismo CCD.

* It seems possible to combine this pointing with the observations of Hot stars as proposed by Conny A for a sismoshort run....

* EP ask to avoid a very absorbed region

* Observation cannot be done at the beginning of the mission

* AP n° 7 SDBs Charpinet

* Two targets were proposed. Priority has been given to one of them, KPD 0629-006, which is also of more interest for the SP. It is decided to keep this proposition.

* Observation can be done anytime.

* AP n° 23 and 42 AGN/QSO, Surdej

Presently the sources proposed are too faint. So for the moment the proposal is withdrawn.

* Conclusions

The three runs are kept for the moment

Their position leads to foresee the following schedule


- 1- SDB (KPB0620-0016)
- 2- NGC 2264
- 3- HD 46375

2.2.2 AO for AP specific targets in the initial runs

As the two initial runs will be known on April 20th, the AO for AP specific targets for IR1 and IR2 (called AO-2) will be issued immediately after by Werner W., using the same format as for AO-1 (SC18-7)

The choice will be done at SC20th which is foreseen for mid September.

The deadline is fixed at September 1st

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2.3 The oversampling mode (OSM)

Pierre B. presents the recent developments made of this mode at LAM. It is now considered as an autonomous task, aiming at programming the onboard software as rapidly as possible to trigger oversampling of interesting targets. First a preprocessing is applied to the N1 data, received as soon as possible at LAM. Then two detection algorithms will be used to generate a list of candidates with priorities.

It is recalled that slots not used by transit candidates can be used by the APs. A common interest is the study of the level of activity and a mapping in the HR diagram. It is proposed that at the beginning of a run the oversampled set of targets be composed of very bright stars mapping the HR diagram. Decision should be taken at the next SC (SC18-8).

It would seem reasonable to reserve a number of slots for the Aps. This decision has to be taken by the Scientific Committee. A better understanding of the proposals of the Aps, as expressed through the first AO (next meeting) is needed. Werner will present it at the next SC (SC18-9).

3 Publication policy

3.1 Call for Letter of Intend for the Core programme

Annie recalls that following the decision of the SC a Call for Letter of Intend has been send to the CO-Is to ask them to express their project in the framework of the Core Programme. Answers to this call are due April 30th. They will be presented and discussed at the next SC.

3.2 Document of the exoplanet group

Marc O. presents a new version of a project of publication policy for the exoplanet programme, trying to reach a gentleman agreement and a fair return on the preparation work. Discussions show that more elaboration is needed. A new iteration will be presented at the next SC (SC18-10).

3.3 Global document

Annie distributes a projet of a unique document incorporating the policies of all the Core programme EP+SP, (the policy for APs is defined already). Members of the SC are requested to make remarks and comments to Annie before May 15th (SC18-11). A new iteration will be presented at the next SC (SC18-12).


3.4 Data policy for exodat/exosky

Magali presents a proposition for the policy of the LAM data bases.
Help Magali...qu'edts ce qu'on a dit?

4 General business

4.1 Co-Is, members of SC

Heike Rauer proposes Anders Erickson from DLR to become the 5th German Co-I

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Eduardo Janot proposes to replace F. Cuisinier who is no more active in CoRoT by Gustavo Portomello from the same institute involved in the AcroCoRoT Team.

F. Favata who will become the Astronomy coordinator at ESA will have to leave the SC as a RSSD representative. The director of RSSD will nominate a new representative for the next meeting.

4.2 Next meetings

4.2.1 Preparation of CW10 and SC19th

T. Guillot presents the list of registered participants.

Due to the size of the meeting room it is decided to close the registration.

However, some colleagues playing an important role will be accepted on request from the SC.

The ALCATEL day may be moved to comply with the test agenda of the satellite.

Heike Rauer proposes to prepare a new poster for CW10

Annie proposes to organise a poster competition....with some specific award !

4.2.2 SC20th

A SC will be necessary before the launch to adjust the decisions on the observing programme, and the publication policy, the PR activities.....

The chosen date is September 15th and 16th in Paris

4.2.3 Meetings in 2007 ?

Our spanish colleagues propose to organise a meeting in Canarias island in 2007.

But the SC is not presently favorable to this.

The first open meeting after the launch will be dedicated to presentations of the first data.

Then a larger international meeting, including interpretation of the data is foreseen in Paris.

It will be supported by CNES, Observatoire de Paris, HELAS.....

4.3 Relations to groups outside the CoRoT Community

4.3.1 NASA and Kepler


Jean S. gives some news. Contrary to what was announced in December, C. Beichman will not attend CW10. They have understood the CoRoT data policy, and will wait for the public releases....

Two colleagues from MSC have already registered. They are mainly involved in archiving the Kepler data. Jean S. proposes to start to discuss a possible homogenisation of Corot and Kepler archives,

He also stresses the importance of the integration of CoRoT data in the VO framework. Annie recalls that this has been decided already since several yeears and that F. Ochsenbeim and E. Solano are the experts in charge of that in the Corot Data Centre.

Heike stresses that it would be nice to learn from Kepler and get more knowledge about the common experience and strategies. For this purpose, it would be useful to get information from the Kepler team on some subjects important for Corot, such as organisation of the follow-up, data archiving and data treatment. She suggests to ask the Kepler team to make oral presentations at the next Corot week to show to the Corot community what they are willing to share with us.

A list of suggestions have to be send to Annie before May 15th. (SC18-13) who will contact them.

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4.3.2 The WISE group

The message send by Annie has received no clear response.

Tristan stresses that the scientific interest can be important if sufficient time is available.

So Heike suggests that Annie send a mail (SC18-14) asking more precisely

- What they want to do
- How much time will be available for CoRoT
- What return they are expecting?

5 CoRoT Book

To be able to publish by the end of June, it will be necessary to have the manuscript ready for the end of May.

So Annie will ask for the final version of the papers by the end of April

Jeremie Lochard, post-doc will help her in the editing.

The ESA-SP volume will have approximately 500 pages. Details can be found at corot.oamp.fr (News)

She recalls that any one who wants to publish somethoing is still welcome to present his project to the editors (Annie B., Fabio F.).

6 Corot status

Thien Lam-Trong presents the advancement of the project

No difficulties during the integration phase

Still some uncertainty on the launcher. Need to keep in time to be able to rely on the clauses of the ARIANESPACE contract,

The exploitation phase is being organised. Contracts are being signed with partners.

7 Outreach

7.1 The Corot PR plan at CNES :

Agnes Lerr (PR project manager for CoRoT at CNES) presents the different actions of CNES till the launch.

* A 7 questions on CoRoT leaflet, presently in french will be translated in English

* A 6 pages booklet both french and english

Countries willing to translate them in their own language are welcome to do it. Iconography will be provided by CNES.

* A press release with Alcatel in Nice

* The launch broadcasting is foreseen


Many countries and laboratories are willing to obtain it to organise a meeting

* Trips to Baikonour

CNES proposes to invite 4 people to join the special flight.

Technical trips will be necessary for the launch activities; A few seats may be available, says Thien

AB is trying to organise a non VIP trip

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7.2 PR in the American world

Jean S. proposes to find ways to increase the presence of Corot in Nasa sites as well as TV networks. The SC welcomes this initiative . Jean S. will be in charge of this part of the PR.(SC18-15).

7.3 Other initiatives

In Marseille, an exhibit on exoplanet, with CNES participation
 In Observatoire de Paris a project of a light exhibit for colleges, high schools, cultural associations

8 Actions

8.1 Actions from SC17 still open

SC17-2	Edition of the document on the templates	AB	End 2005	
SC17-4	Present the first version of the definition of the publications rules for the exoplanet Core programme	MD + PB	CW10	
SC17-5	Document on EXODAT policy	MD	CW10	
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	

8.2 Actions from SC 18

SC18-1	Publction of IR1 and IR2 on the web	AB	April 30th	
SC18-2	Propose IR2	EM + MD	April 20th	
SC18-3	Position for Lra2	MD	May 1st	
SC18-4	Proposition for 171834	EM MD	CW10	
SC18-5	Proposition for SRc1	EM	CW10	
SC18-6	Interest for Very long runs	EM MD	SC20	
SC18-7	Initial oversampling list	WW, PB, AB	SC19	
SC18-7	AO-2	WW	April 30th	
SC18-8	Initial oversampling list	WW, PB, AB	SC19	
SC18-9	Needs of Aps for oversampling	WW	SC19	
SC18-10	Exoplanet policy doc	MO+PB	SC19	
SC18-11	Comments to the doc for the CP	All	May 15th	
SC18-12	CP data right doc	AB	SC19	
SC18-13	Presentation of the Kepler team	All	May 15	
SC18-14	Mail to T. Mazeh	AB/HR/MD	May 15	
SC18-15	PR in USA	JS	asap	



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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>
RAUER	Heike	Germany	DLR Berlin	Dynamics, Hot jupiters	E/EGBO
HATZES	Artie	Germany	Thueringer	GBO exo and sismo	E/SGBO
PAETZOLD	Martin	Germany	Cologne	Exo atmopsheres	E
WUCHTERL	Guenther	Germany	MPI	Planet formation, mass distribution	E
ERICKSON	Andres	germany	DLR Berlin		E
FAVATA	Fabio	ESTEC	RSSD	Young stars activity	A
FOING	Bernard	ESTEC	RSSD	Link to space missions, activity	A
FRIEDLUND	Malcom	ESTEC	RSSD		?
GONDOIN	Philippe	ESTEC	RSSD		?
NOELS	Arlette	Belgium	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
JORISSEN	Alain	Belgium	Bruxelles	Planetary atmospheres	E
GARRIDO	Rafael	Spain	IAA	GBO photometry	S
RIBAS	Ignacio	Spain	U. Barcelona	Binaries Ecclipsing	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
WEISS	Werner	Austria	Vienna	APWG +lambda Boo, Ro Ap	S/AP/SGB
HANDLER	Gerald	Austria	Vienna	Gam Dor	APS
DVORAK		Austria			
LAMMER	Helmut	Austria	Graz	planetary atmospheres	E
ZWINTZ	Konstanz	Austria	Vienna	PMS	S
ROXBURGH	Ian	UK	QMW London	Excitation and amplitudes	S
COLLIER-CAMERON	Andrew	UK	St Andrews	Activity modeling	AP
QUELOZ	Didier	Switzerland	Geneve	GB follow-up	EGBO
KJEDSEN	Hans	Danemark	Aarhus	TBC	SGBO
MONTEIRO	Mario	Portugal	Porto	Stellar modeling (TBC)	S

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JANOT-PACHECO	Eduardo	Brazil	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
PORTO-MELLO	Gustavo	Brazil	O Vallongo, Rio	activity	AP
RENAN de Medeiros	José	Brazil	U Rio Grande del Norte	Rotation	S/AP
PORETTI	Enio	Italy	Merate	Spectroscopy/delta scuti	SGBO
MICHEL	Eric	France	LESIA	SWG+delta scuti analysis	S
CATALA	Claude	France	LESIA	SGBOWG	SGBO
ROUAN	Daniel	France	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 analysis	S
SCHNEIDER	Jean	France	LUTH	Planets in multiple systems	E
ALECIAN	Georges	France	LUTH/GEPI	Chemically peculiar stars	S
HUBERT	Anne-Marie	France	GEPI	Be stars	AP/S
LEBRETON	Yveline	France	GEPI	Models	S
NEINER	Coralie	France	GEPI	B and Bes	S/AP
LEGER	Alain	France	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
BARGE	Pierre	France	LAM	EWG+Hot planet statistics	E
DELEUIL	Magali	France	LAM	EGBO	EGBO
JORDA	Laurent	France	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
VAUCLAIR	Gerard	France	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
GUILLOT	Tristan	France	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
AUVERGNE	Michel	France	LESIA	IS	Inst
BAGLIN	Annie	France	LESIA	PI	

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