	Title:	Reference:
	Minutes of the 16th Scientific Committee Authors: Annie BAGLIN Werner WEISS	COROT.LESIA.05. 103 Version: 1 Date: 7/09/05

Minutes of the 16th Scientific Committee

Held in Paris on September 5th 2005.


Prepared by par:		
Annie Baglin and Werner Weiss		
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
DR2	COROT.LESIA.04.103	List of N3 products
DR3	COROT°OMP_NT1 version 1	: Identification of the needs for the preparation of additional programs with CoRoTsky

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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:

Due to its agenda devoted to the selection of the answers to the Additional Programme first AO, this meeting was restricted to scientists.

Some members could not join: T. Guillot, L. Jorda, P. Barge, M. Auvergne.

W. Weiss could not reach Paris and was on the phone.

1. The mission status

Prepared by Thien Lam-Trong, Michel Auvergne and presented by Annie Baglin
PPT file will be available on the web page of the Scientific Committee

<http://corot.oamp.fr/scomite.html>

2. Summary of the answers to the AO by W. Weiss

2.1. Synthesis:

W. Weiss comments the summary of the proposals as presented in Table 1 Annexe 1

2.2. AP framework:

Recall of the definition of the AP, DR 1

Some proposals address questions of the Core program.

They are not considered as related to this AO

These are proposals n° **4, 5, 8, 14 and 38**.

They will be taken into account in the framework of the central and exploratory runs.

A discussion on the short runs of the exploratory programme is planned for the next CoRoT week.

3. Major issues

3.1. *Proposals asking for all the data, and proposing to do their own sorting of the targets of interest.*

Several SC members raise the question of whether we should release all the data to a proposer.

The data right policy (DR1) does not allow him to publish on a subject different from his proposal during the proprietary period, but he (and his team) will be able to look at all these data and be ready to publish on other subject as soon as the dead line is over.


After some discussion, the SC decides that there is no possibility to restrict that, and that it is part of the competition.....

3.2 *Proposals asking for a subset of data: two sorts*

- Those who require a subset defined by the parameters of the initial Corot database.

They are easily satisfied, as these parameters will exit in the archive.

- Those who are asking for a selection based on variability classification, the famous N3 product discussed previously (DR2).

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It appears that this classification is needed rapidly (even if it is preliminary).

L. Jorda, in charge of the exo-pipe is ready to discuss the implementation of such a function in the exo-pipe, but LAM has no resources to develop it.

The SC asks Rafa to prepare a project to be able to provide this preliminary N3.5v0 product rapidly, in addition to the final N3.5 which was foreseen before.

He will give a progress report on CW9. (Action SC16-11)

3.3. Proposals needing some complementary studies, scientific as well as technical

Those that are scientifically valuable will be accepted for a Phase B, till March 2006.

3.4 Proposals asking for specific targets

These will have to be included in the exobasket.

The proposer will be asked to provide, as soon as possible the catalogue of his targets, and send it to S. Charpinet at obs-mip.fr, following the format described in DR3 (Corot_omp_nt1: Identification of the needs for the preparation of additional programs with Corotsky).

The total number of windows dedicated to the Additional programmes (e.g. which are not considered as first priority for planet detection is limited to a few hundred. No proposal has asked for more than 100 presently.

In some cases, the required targets (e.g. hot stars) have a low priority in the planet finding programme. The SC asks the IS to make sure that they can be observed (e.g. specific templates)

There is presently no commitment on the number of windows that will be kept in the exobasket for observation. The list of observed targets will be built by the group in charge of the preparation of the observations, taking into account both technical constraints and scientific priorities. This group is under definition, and will be presented at the next SC. It will evidently contain members of the SC.

3.5 Proposals asking for oversampling on specific targets

There is no such open possibility in the AO, but the SC proposes that, if possible, such demand can be considered.

AB recalls that the list of oversampled targets is established by LAM and refreshed every week if needed.

The criterion to establish this list will be decided by the SC. A presentation is foreseen for next SC.

3.6 Proposals asking for a short run

The rule is that half of the short runs are available for APs. Presently we do not know how many will really be done.

As such a proposal is very demanding in resources, it has to be of very high scientific interest.

A preliminary ranking will be needed for the planning, including the proposals of the exploratory programme.


3.7 What does mean to accept a proposal?

The proposal is considered very interesting and adapted to CoRoT, and will be proposed for planning. But there is no strict commitment, as the possibility of planning the observation and/or its precise feasibility are not known yet.

3.8 Publicity of the results of the selection

It is decided

- To put on the AP web page the list of accepted proposals with the data they will receive (table 2 of this document)

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- To send a letter to each proposer recalling the rules and duties of a GI (DR1), and the meaning of this selection

4. Discussion of the referees reports and selection

Table 1 of Annex 1 list the proposals

Table 2 describes for each accepted proposal the data that will be provided to the GI

Very few proposals were not accepted.

The short runs:

There is a strong competition for the short runs in the anticenter, and almost none in the centre. The next AO will emphasize that.

*In the anticentre direction 4 proposals corresponding to 3 short runs have been selected for a Phase B. It will last till March 31st 2006:

n° 15 and 45 (which ask for the same target) , n°16, and n° 7

This phase B will consist in

- Precise technical feasibility (mainly proposal 16)
- Improvement of the scientific content by tuning the pointing and selecting secondary targets, or regions of complementary interest.

* Two short run proposals need complementary expertise. (23 and 42)

AB is asked to consult external referees to evaluate the scientific interest and the need for CoRoT. and to communicate by mail the results, for a decision.

After exchanges by mail after the meeting, a large majority of the SC have selected these two proposals for a phase B.

5. Miscellaneous

Proposal for an Austrian Co_I

W. Weiss proposes to nominate Konstanz Zwintz as the fourth Austrian Co-I

She is in particular responsible for the coordination of the PMS Team.

The SC accepts this proposition

Organisation of CW9 at ESTEC


Dates are confirmed

- Monday 5th at 1pm till.....Scientific Committee
- Tuesday 6 to Friday 9 1pm Corot week
- Friday 1pm Second session of the SC (1 hour)

AB will send a general agenda to FF in a few days, after discussion with the WG coordinators (SC16-2)

Esa publication

FF recalls that he proposes to use the opportunity of this meeting to edit an ESA-SP on Corot, before launch, containing mainly technical informations, expected performances, and an overview of the scientific programme and its expectations.

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The papers should be ready not later than March 2006.
 The SC is strongly in favour of this idea.
 AB will prepare a draft for a summary and circulate it (Action SC16-3).

About a project of paper implying CoRoT;

astro-ph/0508109 from august 4, by Gillon, Magain et al. Accepted for A and A

The comparison between ground and space performances in the detection of telluric planets, as computed and simulated in this paper looks favourable to the ground. The hypothesis seem incorrect to most of the SC members, both for the ground S/N estimate and for the population of expected telluric planets.

It is asked to C. Catala to contact the authors to discuss the hypothesis and the results of the ground S/N estimates.

The fact that one author is a Co-I of CoRoT raises deontology questions. No decision is taken on that subject.

6. Actions

6.1. 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

6.2. Actions from SC15 still open

SC15-1	Computation of the templates, document	AB,PB	July 15th 2005	
SC15-2	Alarm mode, initialisation	WW, MD, PB	CW9/SC17	
SC15-6	Ask for more info from the DATeam	AB	SC16	

6.3. Actions from SC16

SC16-1	Production of N3v0	RG	CW9	
SC16-2	Agenda CW9	AB	Sept 20	
SC16-3	Esa publication	AB	SC17	



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Table 1: Proposals

#	Title	Proposer	Field	Method	Reso Color	urces Pointing
Exoplanetary science						
15	<i>Reflected light of the planet HD 46375b</i>	Hans J. Deeg	Seismo short run	Subimage (32s)	SR = 45	A
45	<i>Observation of the starlight reflected by a "Pegasi" planet</i>	Martin VANNIER	Seismo short run	32s window	SR = 15	A
46	<i>Photometric detection of "Pegasi" planets in the seismo fiel</i>	Martin VANNIER	Seismo long run	32s window	core data	any
29	<i>Astrometric detection of HD 183263 b in the seismology field</i>	Jean Schneider	Seismo short run	32s window	SR	C
30	<i>Astrometric detection of planets in the SISMO field - long</i>	Jean Schneider	Seismo long run	32s window	core data	C
31	<i>Astrometric detection of planets in the SISMO field - lshort</i>	Jean Schneider	Seismo short run	32s window	core data	C
13	<i>Search for radio emissions from extrasolar planets</i>	Walter D. Gonzalez	Exo long run	32s window	core data	any
Binaries						
2	<i>Fundamental properties of known close binaries with COROT</i>	Carla Maceroni	Exo long run	512s window	on fine tuning	A
35	<i>A comprehensive study of close binaries observed by COROT</i>	Ignasi Ribas	Exo long & short run	512s window	on core data	any
44	<i>Search for Low Mass M Dwarf Detached Eclipsing Binaries</i>	Orlagh Creevey	Exo long & short run	512s window	on core data	any
27	<i>Detection of Gravitational lensing events in binary systems</i>	Jean Surdej	Exo long run	512s window	on core data	any
Microvariability						
3	<i>Stellar microvariability. I. Unbiased study of COROT targets</i>	Fabio Favata	Seismo&Exo long & short	512s window	on core data	any
10	<i>Stellar microvariability.II.Spots maps and modelling</i>	Antonino Francesco LANZA	Exo long run	512s window	on core data	any
12	<i>Stellar microvariability III.Convection & short term activity</i>	Suzanne Aigrain	Exo long run	512s window	on core data	any

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36	<i>Characterisation of stellar granulation and stellar activity</i>	Frédéric Baudin	Seismo&Exo long & short	32s window		N3	any
39	<i>Method for spot-detection on solar-like stars</i>	Adriana V. R. Silva	Exo long run	32s window	on	core data	any

Rotation

40	<i>The Sun in Time: The History of the Solar Angular Momentum E</i>	José Renan De Medeiros	Exo long run	512s window		32s window	core data	any
43	<i>Stellar Rotation in CoRoT Era Asteroseismological Determination of Stellar Rotation Axes</i>	Jose Renan De Medeiros	Exo long run	512s window	on		core data	any
5	<i>Asteroseismological Determination of Stellar Rotation Axes</i>	Laurent Gizon	Seismo long run	32s window			Core	
4	<i>Asteroseismological Determination of Stellar Rotation Axes</i>	Laurent Gizon	Seismo short run	32s window			Core	
6	<i>Asteroseismological Determination of Stellar Rotation Axes</i>	Laurent Gizon	Seismo&Exo long run	32s window				

Seismology

19	<i>Monitoring bright stars in the exoplanet fields.</i>	Ian Roxburgh	Exo long run	512s window	on	32s window	core data	any
37	<i>Borders of the Instability Strip Amplitude distribution and phase differences in Delta Scuti</i>	Werner W. Weiss	Exo long & short run	512s window	on		follo w up	any
47=41	<i>Scuti</i>	Margit Paparo	Exo long run	512s window	on	32s window	core data	any
21	<i>Asteroseismology of High Amplitude Delta Sct stars</i>	Ennio PORETTI	Exo long run	512s window	on		core data	any
11	<i>Asteroseismology of Delta Scuti stars with the exoplanet.</i>	Rafael Garrido	Exo long run	512s window	on		core data	any
1	<i>The PMS delta Scuti instability strip</i>	Claude Catala	Exo long & short run	512s window	on		core data	any
8	<i>ASTEROSEISMOLOGY OF Am STARS</i>	VAUCLAIR SYLVIE	Seismo short run	32s window			Core	
22	<i>gamma Doradus stars in the EXO fields</i>	MATHIAS Philippe	Exo long & short run	512s window	on		core data	any
18	<i>Search of pulsations in HgMn stars</i>	Georges ALECIAN	Exo long run	32s window				A
25	<i>Asteroseismology and evolution of B and Be stars (long runs)</i>	Anne-Marie Hubert	Exo long run	512s window			core data	any
26	<i>Asteroseismology and evolution of B and Be stars (short r.)</i>	Conny Aerts	Exo short run	512s window			core data	any

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28	<i>Asteroseismology and the Be phenomenon (long runs)</i>	Coralie Neiner	Exo long run	512s window	core data	any
38	<i>Asteroseismology of the multiperiodic Be star NW Ser</i>	Juan Fabregat Joris De Ridder on behalf of the Red Giant Team	Seismo short run	32s window	Exploratory	C
17a	<i>New Insights in Red Giants with COROT : Oscillation</i>		Exo long run	512s window	core data	any
17b	<i>New Insights in Red Giants with COROT : Granulation</i>				core data	any
17c	<i>New Insights in Red Giants with COROT : AGB-oscillation</i>				core data	any
33	<i>Low amplitude variation of classical pulsating stars</i>	Zoltan Kollath	Exo long run	512s window	on core data	any
32=24	<i>Blazhko and double-mode RR Lyrae stars</i>	Merieme Chadid	Exo long & short run	512s window	on core data	any
20	<i>Asteroseismology of central stars of planetary systems</i>	VAUCLAIR SYLVIE	Exo long run	32s window	N3	any
7	<i>Long Period sdB Pulsators in the COROT Exoplanet Fields</i>	S. Charpinet	Exo long run	512s window	core data	any
9	<i>White dwarf pulsators</i>	VAUCLAIR, GERARD	Exo long run	32s window		any

Clusters & stellar evolution

34	<i>Young stars in the field of the Open Cluster Dolidze 25</i>	Vincenzo Ripepi	Exo long run	512s window	50 windows	A
16	<i>A COROT short run on the NGC 2264 young cluster</i>	Fabio Favata	Exo short run	32s window	on SR	A
14	<i>Calibration of massive star evolutionary models</i>	Conny Aerts	Seismo short run	32s window	Exploratory	

Gravitational lensing

23	<i>Detection of Gravitational lensing events in SS433</i>	Jean Surdej	Exo short run	32s window	on SR	C
42	<i>Study of Photometric Variability of QSOs/AGN, LEDA 85926</i>	Jean Surdej	Exo short run	512s window	on SR	A



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Table 2 Accepted proposals and data to be delivered

#	Title	Proposer	decision	Data
Exoplanetary science				
	<i>Reflected light of the planet HD 46375b</i>	Hans J. Deeg	Phase B	LC of one object
15	<i>Observation of the starlight reflected by a "Pegasi" planet</i>	Martin VANNIER	Phase B	LC of one object
45	<i>Photometric detection of "Pegasi" planets in the seismo fiel</i>	Martin VANNIER	accepted	all LC SF from LA1 and LC1
46	<i>Astrometric detection of planets in the SISMO field - long</i>	Jean Schneider	accepted	all Barycenter + imagettes form SF of LA1 and LC1
30	<i>Search for radio emissions from extrasolar planets</i>	Walter D. Gonzalez	accepted (*)	LC of targets with Candidate transits
13				
Binaries				
	<i>Fundamental properties of known close binaries with COROT</i>	Carla Maceroni	accepted	LC from GU Mon, DD Mon, V501 Mon if feasible
2				
	<i>A comprehensive study of close binaries observed by COROT</i>	Ignasi Ribas	accepted(**)	all LC of CBs in first year
35				
	<i>Detection of Gravitational lensing events in binary systems</i>	Jean Surdej	accepted	all LC of Binaries in LA1 and LC1
27				
Microvariability				
	<i>Stellar microvariability. I. Unbiased study of COROT targets</i>	Fabio Favata Antonino	accepted(***)	all LC in first year
3				
	<i>Stellar microvariability.II.Spots maps and modelling</i>	Francesco LANZA	accepted(***)	all LC in first year
10				
	<i>Stellar microvariability III.Convection & short term activity</i>	Suzanne Aigrain	accepted(***)	all LC in first year
12				
	<i>Characterisation of stellar granulation and stellar activity</i>	Frédéric Baudin	accepted	all LC in first year
36				
	<i>Method for spot-detection on solar-like stars</i>	Adriana V. R. Silva	accepted	LC of targets with Candidate transits
39				
Rotation				
	<i>The Sun in Time: The History of the Solar Angular Momentum</i>	José Renan De Medeiros	accepted	LC of solar analogs
40				
	<i>Stellar Rotation in CoRoT Era</i>	Jose Renan De Medeiros	accepted	all LC in first year
43				
Seismology				
	<i>Monitoring bright stars in the exoplanet fields.</i>	Ian Roxburgh	accepted	LC of all oversampled targets
19				

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	Werner W.		
37	<i>Borders of the Instability Strip</i>	Weiss	accepted(**) LC of all late B to early G
	<i>Asteroseismology of High Amplitude Delta Sct stars</i>	Ennio PORETTI	accepted(**) LC of all HADS
11	<i>Asteroseismology of Delta Scuti stars with the exoplanet.</i>	Rafael Garrido	accepted(**) LC of DS observed in colors
1	<i>The PMS delta Scuti instability strip</i>	Claude Catala	accepted LC of all A and early F
22	<i>gamma Doradus stars in the EXO fields</i>	MATHIAS Philippe	accepted(**) all LC in first year
18	<i>Search of pulsations in HgMn stars</i>	Georges ALECIAN	accepted LC of specific windows
25	<i>Asteroseismology and evolution of B and Be stars (long runs)</i>	Anne-Marie Hubert	join 26/28 (***) LC of B stars
26	<i>Asteroseismology and evolution of B and Be stars (short r.)</i>	Conny Aerts	join 25/28 (***) LC of B stars
28	<i>Asteroseismology and the Be phenomenon (long runs)</i>	Coralie Neiner	join 25/26 (***) LC of known Be stars
		Joris De Ridder on behalf of the Red Giant Team	
17a	<i>New Insights in Red Giants with COROT : Oscillation</i>		LC of giants from GIII to KIII v<15
17b	<i>New Insights in Red Giants with COROT : Granulation</i>		accepted(**) LC of evolved GKM v<15
17c	<i>New Insights in Red Giants with COROT : AGB-oscillation</i>		accepted(**) LC of AGB supergiants v<15
33	<i>Low amplitude variation of classical pulsating stars</i>	Zoltan Kollath	accepted
32=24	<i>Blazhko and double-mode RR Lyrae stars</i>	Merieme Chadid	accepted specific RRLyrae of LA1 and LC 1
20	<i>Asteroseismology of central stars of planetary systems</i>	VAUCLAIR SYLVIE	accepted LC of targets with Candidate transits
7	<i>Long Period sdB Pulsators in the COROT Exoplanet Fields</i>	S. Charpinet	Phase B LC of one object
9	<i>White dwarf pulsators</i>	VAUCLAIR, GERARD	accepted LC of specific windows
	Clusters & stellar evolution		
34	<i>Young stars in the field of the Open Cluster Dolidze 25</i>	Vincenzo Ripepi	accepted LC of 50 specific windows
16	<i>A COROT short run on the NGC 2264 young cluster</i>	Fabio Favata	Phase B LC of specific windows
	Gravitational lensing		
23	<i>Detection of Gravitational lensing events in SS433</i>	Jean Surdej	Phase B LC of one object
42	<i>Study of Photometric Variability of QSOs/AGN, LEDA 85926</i>	Jean Surdej	Phase B LC of one object