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Minutes of the 23rd Scientific Committee

Held at Paris Observatory, April 23rd 2007.


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
SC23_DR1	First results in the exoplanet field
SC23_DR2	First results in the seismology field
SC23_DR3	Temperature effects
SC23_DR4	Stray light calibrations
SC23-DR5	The data reduction chain
SC23-DR6	Programming SRc01

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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 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
J-L. COUNIL	CNES	X
P. LAUDET	CNES	X
T. LAM-TRONG	CNES	X
C. IMAD	OPM/LESIA/secretariat	X

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Participants:

G. Alecian, M. Auvergne, A. Baglin, P. Barge, C. Catala, J-L Counil, , M. Deleuil, M. Fridlund, R. Garrido, T. Guillot, E. Janot-Pacheco, P. Laudet, E. Michel, M. Ollivier, D. Rouan, I. Roxburgh, J. Schneider, W. Weiss.

1. Welcome to Philippe Laudet

P. Laudet is now responsible for the exploitation phase and replaces Thien Lam-Trong. He has been working on the CoRoT Mission Centre for 3 years.

2. Preliminary results

P. Barge presents some preliminary light curves (N0) for a few objects in the exoplanet field, illustrating the high accuracy of the data.
 Among those a transit of a very hot Jupiter has been detected and confirmed by radial velocity follow-up measurements. (see SC23-DR1).
 Eric Michel presents data from the seismofield over periods of the order of 10 days, showing the variety of behaviours of the different targets, in particular in the low frequency domain (See SC23-DR2), and the detection of solar-like oscillations in HD 49933.

3. Announcement policy and embargo rules

The SC considers that the major scientific results should be submitted to an embargo policy under its responsibility.
 The SC also insists that all Co-Is sign (by mail) a short document, committing them to respect the embargos decided by the SC.

Action SC23-1: AB

Send the document of Annex 1, agreed by the SC to all Co-Is.

The SC decides to issue the first press release on May 3rd, and before that all results remain embargoed. This press release will stress that CoRoT is working very well, as expected; It will present the detection of the hot Jupiter and of the solar like oscillations in HD 49933.

Action SC23-2: MF+AB


Prepare the press release and send it to CNES who will be responsible to issue it with CNRS.

4. News from the mission

4.1. Calibrations:

MA presents some results concerning calibrations

Temperature effects:

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It is shown that the offset is correlated to temperature but after correction the light curve is almost independent of temperature. (SC23-DR3)

Stray light calibration:

The session of calibration of the stray light is described.

Though the results are difficult to explain in details, it shows that the maximum level is of the order or smaller than what was expected. (SC23-DR4)

4.2. Data reduction chain

As summarised by A.B. (SC23-DR5) the reduction chain is a heavy software.
 There are some problems with the manpower, as some people have left or are leaving soon. The SC stresses the need to produce N2 products in time, even if the first release is not as complete as we would like. Let's remember that the deadline for IR01 is October 2nd (6 months after the end of the run).

4.3. Programming SRc01

MA recalls the chronology of observations (SC23-DR6).
 He presents the programming of SRc01, a short run devoted to the seismology core programme, as decided at SC 22.
 The line of sight is : RA: 284.59 Dec: 3.08 Rot: 0.12
 The seismology field (preselected as a primary target and refused by the Exo programme) contains a solar like star and 3 main sequence stars, 2 delta scutis ,one BeHg Mn star, 1 AP, completed by giants.
 As there are no specific observations in this region, the exobasket has been prepared using USNO catalogue. The field is extremely inhomogeneous and very poor on one CCD.

4.4. Preparation of LRc01

The run LRc01 has been quite difficult to fix, as there are many interesting objects in the border of the field!

The position proposed for the line of sight is


RA: 290.88 Dec: 0.43 Rot: 18.88

The seismology targets contain a delta scuti and a beta cep star, a solar like star, a Be star.

4.5. Field for LRc02

The position proposed at CW10 and presented in the CoRoTbook is confirmed by EM. The position of the field is strongly constrained by both the need to catch a delta Scuti star and a solar-like target in addition to the principal target, and the presence of strong gradients and inhomogeneities in the exoplanet field.

RA= 279.76 DEC= 6.27. ROT(deg)= 18.24

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He mentions that there is a possibility to have a 15 minutes shift in the longitudinal direction which should be evaluated by the exoplanet programme.

As a precise position is required by the ground based observations, the position should be fixed at the next SC.

Action SC23- 3 MD: next SC
Evaluate the best position for LRc02

5. Additional programmes

W. Weiss stresses the difficulty he faces to make sure that the Additional program oversampled targets are taken into account.

But the problem is wider and applies to all the AP targets.

All stars asked for by the additional programmes have to be included in the exobasket. The number of AP targets, which do not satisfy the exoplanet criteria, has to remain < 500 per CCD. Some clarifications about the building of the exobasket are given.

AB stresses that to be able to introduce a target in the exobasket it has to be in the CoRoTsky catalogue.

6. Publication policy

6.1. Agreement of the document Science policy §4_2 version 2

* For the planet finding programme
the present text is OK

* For the seismology programme,
E.M. reports on the discussions, which have been held during the last weeks by mail among the SWG.


The distribution and access to the data coming from the Seismo field are ruled by the CoRoT general document Scientific policy and data rights, (COROT.DESPA.01.014).

The main consequences are

-the N2 light curves are made available to the Seismo Co-Is when available, at maximum 6 months after the end of the considered run. This delivery is considered as the beginning of the one year proprietary period.

-all papers based on CoRoT data produced during the one year proprietary period will have to be submitted first to an internal referee, which will have 20 days at maximum to check that no obvious misunderstanding/misuse of the CoRoT data is made.

It has been also decided that papers producing modes parameters (frequencies, amplitudes, phases, line widths, etc...), once accepted by the internal referee will be kept 3 months before

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submission to any journal. During this period, the associated results will be made available to Co-Is only, in order to insure a proprietary period for works on modelling and seismic interpretation.

Type 1: First data analysis:

These publications should contain AT LEAST result of a standard analysis as defined within the DAT (see CoRoT Book).

In some cases standard analysis as defined in the CoRoT book might turn out not be enough or not to be relevant. These cases will be considered case by case (with Eric Michel as resp. for the SWG and with Thierry Appourchaux as resp. for the DAT.)

Responsibility for the analysis and publication:

The targets are dispatched according to types in the hands of relevant scientific groups managed by the following responsible:

Solar-like candidates: resp. Thierry Appourchaux

Giants: resp. Joris De Ridder

B stars: resp. Conny Aerts

Be stars: resp. Coralie Neiner

A- and early F stars: resp. Eric Michel & Rafa Garrido

Gam Dor: resp. Philippe Mathias

Am stars: resp. Sylvie Vauclair

Ap stars: resp. Werner Weiss

These responsible are in charge of proposing to the SWG responsible (EM), for each target a person in charge of coordinating the analysis and its publication following the rules mentioned in the present document.

Authorship:


Authors list is composed according to the relevant scientific group, taking care to feature people involved in ground based preparation observations needed for this work

Names from the list of builders (see § 6.3 this document)) will complete the author list and the 3d author position will be kept for a member of this list.

Type 2: Others:

Including works of modelling and seismic interpretation, refined or specific data analysis papers,...

These works are in the hands of CO-Is who will make benefit of the proprietary period of three months between the moment of submission of type I papers to CoRoT internal referee and the submission to a journal.

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This proposition will be included by A.B. in the general document and proposed to the agreement of the SC at the next SC

Action SC23-4: AB next SC

Include this proposition in the general document

6.2. Follow-up activities: the HARPS case

M.D. recalls that the HARPS Team lead by M. Mayor proposes to apply a publication policy for the CoRoT dedicated time (which has been reduced due to the delay of the launch) with specific rules which are different from the general CoRoT policy.

A.B. recalls that the answer of Didier Queloz to the AO issued by ESA to become an ESA Co-I proposed guaranteed time of HARPS and CORALIE without any indication on the data policy. On this basis D.Q. has been chosen by ESA as a CO-I.

The SC recalls the extreme quality of HARPS and the strong interest of CoRoT candidates follow-up using this instrument. But it seems impossible to apply different data policies inside the project.

The SC asks ESA to find an agreement with the HARPS Team.

Action SC-23 4-M.F.

Contact F. Favata to ask him to reach an agreement.

6.3. List of builders (Annex 2)

The list of Annex 2 is presented by AB and accepted by the SC

6.4. CoRoTPub


T. Guillot presents the status of the site CoRoTPub which is now ready for tests. The testing period will last 1 month.

The web page can be accessed on: <http://www.obs-nice.fr/CoRoTPub/>

These are the rules:

All articles, abstract from presentations and important CoRoT document should be submitted through this web page. By default, all documents submitted to the CoRoT pub are visible by the CoRoT Scientific Committee (SC). The documents have to be accepted or rejected by the CoRoT Editorial Board (EB) within 20 days. CoRoT articles must be submitted to the CoRoT pub web site and accepted by the EB before they are submitted to a scientific journal.

Once a document is accepted by the EB, it becomes visible to the SC only (restricted), to the CoRoT CoIs (CoIs), or to the general public (Public), as decided by the person who put the document onto the CoRoT pub, named the "coordinator".

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Only CoRoT Co-Is and GIs do have accounts on the CoRoTPub and can become coordinators of documents written within their scientific team. Hence, the 1st author of a document or article may or may not be the coordinator. The coordinator is responsible for updating the document (e.g. uploading the revised, or final version of an article) as necessary.

The editorial board is formed from:

- Annie Baglin: responsible for general documents, or when necessary
- Eric Michel: responsible for documents submitted in the "sismo" field
- Pierre Barge: responsible for documents submitted in the "exo" field
- Werner Weiss: responsible for documents submitted in the "AP" (Additional Programme) field

The administrator of the web page is Tristan Guillot, in case of problems.

During this test phase, the SC members should submit documents to check that the system is functioning properly. CoRoT CoIs do not yet have access to the web page.

Using the CoRoT pub should be rather intuitive. Please check the web page.

Here is an extract from the main help (button "?"):

You may download or upload articles/presentations/documents related to the mission CoRoT.

To download a document, click on its title.

To modify a document (update/removal/status change), click on its ID


You may sort documents according to each field by clicking there (e.g. on "Title")

You may search for a particular chain of characters by inserting below the corresponding field and clicking the magnifying lens (upper right).

7. Request of the CEST for a set of N1 data for training

The CEST send this request as a letter to the SC:

"In order to be collectively as ready as possible to analyse COROT Light Curves (LCs) (N2 data), the Corot Exoplanet Science Team (CEST) has already organized 2 blind tests on simulated LCs, during which the different groups having algorithms built to search for transits have tested they tools. Now, the LCs of the Initial Run # 1 (IR1) should be available at level N1 soon (by the end of March). For us, this would be a unique opportunity to train ourselves on real COROT data. Even if they are not at level N2, they are much closer to these future data than simulated ones. In addition, the exo-field of IR1 is typical of those of future Long Runs, which is not the case of Short Run 1. Consequently, the CEST makes the request to be allowed having access to a block of 1,000 LCs, or better the whole set, of these N1 data of IR1 during a 15-day duration or so, with a goal strictly restricted to training and not for doing any science that can be published or communicated at conferences. We want to test our different algorithms but not trigger the Follow-Up (FU) that can qualify/falsify the transit candidates. If possible, we would

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like having the spectral type of the targets because this important for estimating the candidate likelihood, but not their coordinates. If useful, we can commit ourselves, in a signed form, not to produce any publication nor communication from these data.”
The SC accepts this request for a block of 1000 LCs.

8. Distribution of follow-up results to the CO-Is ?

Following a request from J.S., the SC strongly recommends that the Follow-up data be included in EXODAT as soon as possible.
This will be presented at the next meeting of the CEST.

9. List of associated scientists

Following the wish of the SC, A.B. has established a list, which counts presently more than 170 entries.
The SC considers that it is the responsibility of the Co-Is to nominate associated scientists, as members of their Team.
A.B. will update this list with the last suggestions.

10.Naming Planets and their parent star

After some discussions and propositions, it is decided that Jean S. and Magali D.propose a systematics for the next SC.
They already propose CoRoT-Exo-nm
CoRoT-Exo-n referring to target with the order of discovery by CoRoT, m, an alphabetic character, representing the order of discovery of the planet around this target.

So the first one discovered is called **CoRoT-Exo-1b**.
The next SC will have to bless this choice!


11.- Business

11.1. List of CO-Is

The only modification proposed is to add Marc-Antoine DUPRET from LESIA
This is accepted.

11.2. Next meeting

Thee date is **June 11th**
It is proposed that for the next academic year dates should be fixed in advance for the whole year!

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Annex 1: Embargo rules document

As a CoRoT CO-I, I commit myself to strictly respect the embargo rules on the data publications, as established by the CoRoT Scientific Committee. These rules apply to all type of announcements.
I am aware that the non-respect of these rules will lead to a suspension of my CO-I status.

Annex 2

The CoRoT Builders

A hard core of investigators is defined as the CoRoT "**Builders**".
There are scientists that have contributed to the production of Light Curves, in a major way (≥ equivalent 2 yrs, full time).
The list of Builders is established by the Scientific Committee.

WG coordinators, IS and PI

M. Auvergne
C. Catala
P. Barge
M. Deleuil
E. Michel
W. Weiss
A. Baglin


Assistants of the IS

M. Ollivier
L. Jorda

Data corrections and archive

F. Baudin
R. Samadi

12.Actions

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12.1. Actions from SC17 still open

SC17-6	Standard copyright	T L T	SC 18	
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Actions from SC 19.

SC19-1	Document on the observing programme	AB	July 1st	
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Actions from SC 21.

SC21-3	Install tests data in the archive	FB	ASAP	
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Actions from SC22

SC22-4	send a message to all coordinators and CNES to obtain this information on project team	M. Auvergne	asap	
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Actions from SC23

SC23-1	Send the document of Annex 1, agreed by the SC to all Co-Is.	A.B.	asap	
SC23-2	Prepare the press release and send it to CNES who will be responsible to issue it with CNRS.	A.B. + M.F.	April 24	
SC23-3	Evaluate the best position for LRc02	MD	SC 24th	
SC23-4	Include this proposition in the general document	AB	SC 24th	
SC23-5	Contact F. Favata to ask him to reach an agreement.	MF	asap	



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Table 1: List of Co-Is and GIs

Co-Is

Name	first name	Country/lab	Institution	activity	WG
RAUER	Heike	Germany	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
FRIEDLUND	Malcolm	ESTEC	RSSD	Planets, ground obs,activity	E/A
FAVATA	Fabio	ESTEC	RSSD	Young stars activity	A
FOING	Bernard	ESTEC	RSSD	Link to space missions, activity	A
GONDOIN	Philippe	ESTEC	RSSD	activity	E/A
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	E
VANDEBUSSCHE	Bart	Belgium	Leuven	Instrumentation, Ground segment	Inst
GARRIDO	Rafael	Spain	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
WEISS	Werner	Austria	Vienna	APWG +lambda Boo, Ro Ap	S/AP/SGB
HANDLER	Gerald	Austria	Vienna	Gam Dor	APS
DVORAK	Rudolf	Austria	Vienna	Exoplanet orbit analyses	E
LAMMER	Helmut	Austria	Graz	Planetary atmospheres	E
ZWINTZ	Konstanz	Austria	Vienna	PMS	S
ROXBURGH	Ian	UK	QMW London	Excitation and amplitudes	S
AIGRAIN	Suzanne	UK		Activity modelling	AP
QUELOZ	Didier	Switzerland	Geneve	GB follow-up	EGBO

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KJEDSEN MONTEIRO	Hans Mario	Danemark Portugal	Aarhus Porto	TBC Stellar modelling (TBC)	SGBO S
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
MELLO	Gustavo	Brazil	O Vallongo, Rio	Giants	AP
de MEDEIROS	José Renan	Brazil	U Rio Grande del Norte	Rotation	S/AP
PORETTI	Ennio	Italy	Merate	Spectroscopy/delta scuti	SGBO
MICHEL	Eric	France	LESIA	SWG+delta scuti analysis	S
CATALA	Claude	France	LESIA	SCBOWG	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
DUPRET	Marc-Antoine	France	LESIA	Modeling, non adiabatic effects	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	Be stars	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
BORDE	Pascal	France	IAS	data analysis	E
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

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VAUCLAIR	Gerard	France	OMP/LAT	WD	S
TOUBLANC	Dominique	France	OMP/CESR	Catalogues	E
VAUCLAIR	Sylvie	France	OMP/LAT	Diffusion and mixing	S
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	Modelling, g modes	S
GARCIA	Rafael	France	Sap/CEA	Data analysis	S
BALLOT	Jerome	France	SaP/CEA	modelling	S
AUVERGNE	Michel	France	LESIA	IS	Inst
BAGLIN	Annie	France	LESIA	PI	

GIs

Vannier	Martin	mvannier@eso.org
Gonzales	Walter	gonzales@dge.inpe.br
Maceroni	Carla	maceroni@mporzio.astro.it
Surdej	Jean	surdej@astro.ulg.ac.be
Gizon	Laurent	gizon@linmpi.mpg.de
Lanza	Antonio	nlanza@ct.astro.it
Silva	Adriana	adrivalio@gmail.com
Kollath	Zoltan	kollath@konkoly.hu
Chadid	merieme	chadid@unice.fr
Ripepi	Vincenzo	nlanza@ct.astro.it
De Ridder	Joris	joris@ster.kuleuven.ac.be