

Minutes of the 27th Scientific Committee

Author: Annie BAGLIN

Reference:

COROT.LESIA.08.006 Version: 1

Date: 9/0.4/2008

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# **Minutes of the 27th Scientific Committee**

Held at Observatoire de Paris, March 14th 2008.

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
SC27-DR1	Mission status Oliver Vandermarcq CNES
SC27-DR2	Problems of the alarm mode P. Barge LAM
SC27-DR3	SRa01 and SRa02 A.B.
SC27-DR4	LRc02, LRa02E. Michel
SC27-DR5	Status of the pipe-line M. Auvergne
SC27-DR6	Results and publications in the exoplanet programme
SC27-DR7	Results and plans for publications in the seismology programme
SC27-DR8	The CoRoT Variable Classifier C. Aerts



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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 Liege	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
O. VANDERMARQ	CNES	X
C. IMAD	OPM/LESIA/secretariat	X



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#### **Participants:**

G. Alecian, M. Auvergne, A. Baglin, P. Barge, C. Catala, M. Deleuil, R. Garrido, T. Guillot, E. Janot-Pacheco, E. Michel, A. Noels, M. Ollivier, H. Rauer, D. Rouan I. Roxburgh, J.

Schneider., G. Vauclair, O. Vandermarcq, W. Weiss

Invited: O. Vandermarcq, C. Aerts for 4.1

Non-attendees: M. Fridlund, L. Jorda, JL Counil

#### 1 Mission status

# 1.1 General overview Olivier Vandermarcq CNES

See SC27-DR1

No major difficulty.

Concerning the network of antennas, there have been a few losses at the beginning of LRa01 due to technical anomalies at Kiruna station. The anomalies have been corrected. Meanwhile, CNES is studying the deployment of new equipment in order to make the network of antennas more secure.

The Vienna antenna considered as a back up of Alcantara is not yet fully operational. But the back up of Alcantara can be supported by ICONE.

The planning of operations taking into account all the constraints is the following

March 31 end of SRa01

Start of the 180 rotation

New LV upload

Start of the drift, which will be slightly slower than previously foreseen

(3.5° per year instead of 4). This has no consequence on the programme

April 9th New pointing on LRc02

April 15<sup>th</sup> Start of the observing mode on LRc02

And the next pointing are scheduled as such:

SRc02

Rotation

SRa02

LRa02

Rotation

. . . . . . . . . . . .

#### 1.2 Extension of the mission

Following a question by H. Rauer, the SC expresses its strong interest in extending the mission if everything is working sufficiently well.

It is recalled that in the CNES budget, the mission is supported till the end of 2011.



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The different participating countries will have to find the resources needed to support this extension. To do so they need to have the official position of CNES

It is proposed that O.V. asks for a brief document stating the CNES position in this respect.

**Action SC27-1**: O.V.: Ask CNES DP to send a letter to the partners on the plans for the extension of the mission., before end of April

#### 1.3 Alarm mode present status and evolution: P: Barge

P. Barge (SC27-DR2) recalls that in principle the Alarm algorithms use specific N1"alarm" data, a simplified version of the N1, without jitter correction. The processing of the weekly data is operational at LESIA but the concatenation of the N1 data over more than one week needed for the alarm mode is done at IAS. Up to now this chain has not worked sufficiently rapidly, and an insufficient number of list of over sampling targets have been produced and uploaded.

The SC has proposed to have an expertise on these difficulties but just after the SC, Sylviane Chaintreuil announced that the bottleneck at IAS has been solved and that now the chain is sufficiently rapid. As there is no alarm on SRa01, it will work on LRc02 in April.

Anyway a special attention has to be paid to this.

Action SC27-2: MA Follow and control the N1alarm chain End of April.

After tests at CNES, the treatment N0->N1alarm will be transferred to CNES in May.

#### 1.4 Observing programme SRa01, LRc02, SRc02, SRa02, LRa02

A.B. presents the programming of the present run SRa01 (see SC27-DR3)

EM (SC27-DR4) recalls the proposal already accepted for LRc02, following to the CoRoTsky bloc 1412.12. AP targets have been collected very late for this run, but included.

For SRc02, devoted to the exploratory programme of seismology, the field is centred on 174532 For LRa02 there is still a difficulty with the position proposed by SWG, which does not seem feasible. It is asked to compare different scenarios.

The main target of SRa02 is HD 46375 and the positionning will accommodate of the programme on O stars

A more precise position will be proposed soon. Unfortunately the Spitzer proposal has not been accepted.

Action SC27-3: EM MD: Compare different scenarios for LRa02: end of July

Action SC27-4: EM propose a precise pointing for SRa02: end of July

### 2 Data

# 2.1 Status of the pipe-line: M. Auvergne, F. Baudin, L. Jorda

See SC27-DR5

Planning of delivery

February 15<sup>th</sup> LRc01 complete except imagettes (exo ou sismo?)°



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March 15<sup>th</sup> SRc01 astero + E1 End of April SRc01 complete End of June LRa01 End of July SRa01 September IRa01 new version better jitter correction

#### 2.2 The N2XX tool from M. Gruberbauer

Presented by W. Weiss

It is decided to give access to it on the web page of the Archive

**Action SC27-5:** AB Contact Frederic Baudin to give access to N2XX on the web page of the archive ASAP

#### 3 First results, Plans for publication

3.1 Detection of exoplanets: P. Barge

See SC27-DR6

3.2 The seismology programme: E. Michel

See SC27-DR7

# 3.3 The Instrument: M. Auvergne

The paper on performances signed by MA and more than 100 people is in progress A paper on jitter corrections by R. Drummond and F. Faith is being submitted to A&A

#### 3.4 The additional programmes: W. Weiss

#### 3.5 Synthesis of the answers of the Co-Is/GIs AB

In seismology 2 papers area almost ready and 16 more are foreseen, some of them using the data of the exofield

The CEST has already submitted 3 A&ALetters, which are accepted, and will be published together in the same volume

In the AcroCoRoT programme 15 to 20 papers are foreseen

For the other Aps it is a bit early but of the order of 10 could be thought of.

In total this would represent of the order of **50 papers**, which would be ready before the end of the year.

#### 3.6 Proposition of A and A

T. Forveille has asked for our plans and proposed to discuss globally with A&A

This seems a little bit difficult, and the SC encourages the community to publish also elsewhere, MNRAS, PASP, Nature, Science......

But, concerning the Symposium it will be proposed to have a special issue of A&A (see § 8.2)

Action SC27-6: Discuss this point with A&A AB ASAP



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#### 4 Additional programmes

# 4.1 Variable classification: invited C. Aerts

A general presentation of the past present and future work is given by C. Aerts who has been invited for this topic as the coordinator of this action (SC27-DR7).

The first meeting was held in Marseille on February 5<sup>th</sup> and the next one will be in May.

A website has been opened where all informations can be found.

The SC has proposed a defintion of the N3 product corresponding to this classification

- a flag for the variability detection
- the ordered three first classes proposed with their probability

The work is being done on white light presently. And the initial templates were Hipparcos and Ogle light curves. It is decided to start the second step using the CoRoT light curves of well-defined variables as templates.

Experts of the different classes will be asked by C. Aerts to confirm the good candidates.

#### **4.2** Calibration of colours

The Eclipsing binaries group has been trying to work on a colour calibration of the explanted field, and would need specific data. But the feasibility study is not conclusive.

#### 4.3 AcroCoRoT:

There has been already a lot of work done by the 5 groups who proposed such programmes. MJ. Goupil as a coordinator of this very wide topic proposes a meeting of all the actors on April 17<sup>th</sup>.

#### 4.4 .SdB and long period pulsators

In the answers to the A0-1 for Aps a proposal by S. Charpinet is missing.

It has been send to the SC members on march 5<sup>th</sup>. This proposal is evidently in the list of accepted proposals.

S. Charpinet is asking if he can collaborate with a US and a canadian scientist to ask for telescope time at Steward Observatory for spectroscopic observations of candidates in the fields of CoRotT. This is accepted

# 4.5 New AO/AP

As proposed by W. Weiss, it is decided to issue a new call for general topics.

Scientists will be proposed to either join existing approved programs, or propose new programs. Successful proposers will have full access to already existing archival data (fitting to the program) and, of course, to new data.

Action SC27-7 Issue the general AO W. Weiss ASAP

A special AO will be send for specific targets of LRa02, SRa02, though the precise position is not yet fixed. But answers may help the final choice.

Action SC27-8 Issue the specific AO for LRa02 and SRa02 W. Weiss May



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There are targets common to different programs: it means that each GI will access the data for his own programme but will not be allowed to use it for other purposes as decided already.

# 5 Embargo and presentation of results

#### 5.1 Embargo rules

are presently described in the Data rights and Data Policy document.

These have to be understood as

#### All what is not permitted is forbidden!

For the data already available to the Co-Is/GIs, they are allowed, under their own responsibility to show light curve but no identification, no frequencies, no transit parameters....

#### **5.2** Upgrade of the booklet

It is decided to have regular updates of the Booklet every 3 months

The next version should be issued by April 15th

Action SC27-9 Prepare an upgrade of the booklet for Apes WW

Action SC27-10 Propose an upgrade of the booklet after the meeting of the CEST PB

Action SC27-11 Propose an upgrade for the sismo programme

Action SC27-12 Prepare the upgrade AB April 20th

### 6 Long term archiving and VO

#### 6.1 Naming

We are asked by CDS to define the nomenclature of our targets. It is confirmed that it is the CoRot identifier or Cid, which describes our targets.

Action SC27-13 Confirm the nomenclature to CDS AB ASAP

#### **6.2** Present status

As decided in the framework of CD meetings, IAS is the mission archive, LAEFF and CDS will be the long term archives.

LAEFF has proposed long time ago to build tools to facilitate the use of these data in the VO environment. LAM has prepared lots of mock-ups in this framework based on SITools developed by CNES, which will need some development to make them available widely. EXODAT as presently developed is compatible with the VO environment.

There may be some contribution from US (see 7.1).

However, there is some difficulty on the time of transfer from the science archive to the public archive. While some times ago it was foreseen to feed the long term archive with the last version of the data, after the end of the mission, some of us think that it is too late and that Long term archive in the VO environment should host the data as soon as they become public. This raises a question: the visibility of the science archive.



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**Action SC27-14** Organise discussions with the different partners to try to find a compromise. AB ASAP

#### 7 Collaboration with NASA

#### 7.1 **CoRoT Data in NstED**

A meeting with the NstED team, MD, AB and FB have shown a common interest in including the CoRoT public data in the NstED environment and the development of specific tools to help the scientific work; However it is required that these tools be VO compatible.

A meeting in Marseille with the LAEFF group shows that there is an interesting possibility of collaboration with this group to share the tasks.

The NStED group will prepare a proposal with the help of LAM, IAS and LAEFF to get support from NASA, based on these discussions.

It is proposed that the scientists define the tools and make of shopping list in which the different developers will base their share of task.

#### 7.2 **FU with Keck**

NASA proposes to devote up o 60 nights of KECK over two years to FU observations of CoRoT exoplanet programme.

Though the first offer refers to HIRES there are other possibilities of instrumentation, which can be envisaged.

MD is circulating a mail asking the CEST group for proposals to use KECK to extend and improve the CoRoT FU. AO and HR imaging, photometry, spectral classification and VR can be envisaged.

However the answer has to be quite rapid as it seems that we have to show that we can use this time fruitfully before KECK has the priority of KEZPLER FU

#### 7.3 Use of CoRoT data to prepare Kepler

Following discussions at the KASC meeting W. Borucki asked AB to have some anonymous light curves to evaluate better the role of activity and its influence on transit detection algorithms a s prepared in the framework of KEPLER

It is decided to answer very positively to this demand

Action SC27-15 Send a bunch of solar light LC to Borucki AB ASAP

### 8 Meetings

# 8.1 CO-is and GIs meeting 2

Date: May 30<sup>th</sup> from 9 am to 6 pm Place: CNES HQ in Paris as the first one

Subject: Exchange of informations on data analysis

Call for presentations to be send soon



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### 8.2 International symposium

In early 2009: February 3 to 6 (or 2 to 5) depending on the availability of the place Cite Universitaire Paris, Maison internationale

Prime organiser CNES

Important participation of HELAS as the HELAS III colloquium C. Aerts belongs to the organising Committee

Participation of Paris Observatory for a social and remembrance evening event in Salle Cassini Registration fees as light as possible, essentially to cover the meals

Website soon available

The SC proposes to try to publish the communications as a special volume of A&A, with all manuscripts ready at the meeting and all referred as usual. AB will negotiate this with A&A. The cost, if any, could be supported by HELAS

The list of invited speakers will be decided at the next SC

#### 8.3 JENAM

At the Minisymposium on Asteroseismology and Stellar Evolution, E. Michel is invited to present some results

Negotiations to have a General lecture are going on (slowly). WW has contacted G. Hensler and AB Catherine Cesarsky, interested, but no firm answer yet.

#### 8.4 Others

The Wroclaw HELAS meeting will be held in June 23-27<sup>th</sup>. It will cover many topics related to the interpretation of seismologic data, as well as presentation of present and future missions. The 38<sup>th</sup> Liege International Astrophysical Colloquium on massive (July 7 to 11) will have 2 sessions devoted to seismology.

Meeting on extra solar super earths in Nantes in June 16 to 18th

IAU symposium on transiting planets in Cambridge Mass. May 19 to 23.

#### 8.5 COSPAR

A report is asked by CNES to be integrated in the French contribution, due March 31st

#### 9 PR activities

The question is raised whether we should have new PR activity now.

We decided to wait until some new exciting results are about to be published.

### 10 General management

#### 10.1 List of CO-Is, evolution of the teams

E Janot proposes a change in the Brazilian CO-Is. Due to its duties Jane Hetem cannot continue to work sufficiently on CoRoT. And E. Janot proposees to replace her by **Sylvia Alencar**, very active in PMS stars who belongs already to this team. This change is accepted.



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The updated list of Co-Is and GIs is added to these minutes

N. Lanza informs the SC that he would like to include in his team on rotation the two canadian scientists G. Walker and B. Croll. This is accepted.

# 10.2 Next SC meeting. May 29<sup>th</sup> Paris Observatory

# 11 Actions

#### Actions from SC 19.

SC19-1 nent on the observing programme	AB	July 1st	
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# **Actions from SC24**

SC24 -7	Evaluation of the position for LRa2 proposed by	EM	Postponed	Action
	the EWG		to SC 27	SC27-
				3

#### **Actions from SC25**

SC25-6	Present a final version of "Management of the Additional programme in the exo field"	WW	SC26
SC25-9	Put the list of meetings on the web page	AB	ASAP
SC25-10	Upgrade the booklet,	AB	October

#### **Actions from SC26**

#### **Actions from SC27**

SC27-1	Ask CNES/DP for a letter on the extension of the	OV	March	
	mission		31st	
SC27-2	Control of the N1alarm chain	MA	April 31st	
SC27-3	Compare different scenarios for LRa02	EM, MD	July 31st	
SC27-4	Propose a more precise position for SRa02	EM, MD	July 31st	
SC27-5	Contact Frederic Baudin to give access to N2XX	AB	ASAP	
	on the web page of the archive			



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SC27-6	Discuss this point with A&A	AB	ASAP
SC27-7	Issue the general AO2 for APs	WW	ASAP
SC27-8	Issue the specific AO for LRa02 and SRa02	WW	May
SC27-9	Prepare an upgrade of the booklet for Aps WW	WW	April 15
SC27-10	Propose an upgrade of the booklet for exo	PB	April 15th
SC27-11	Propose an upgrade of the booklet for sismo	EM	April 15th
SC27-12	Prepare the new version	AB	April 30th
SC27-13	Confirm the nomenclature	AB	ASAP
SC27-14	Organise discussions with the different partners	AB	ASAP
	to try to find a compromise		
SC27-15	Send a bunch of solar like LC to Borucki	AB	ASAP



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# List of CO-Is and Gis

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	GBO, dynamics, planet statistics	E/ECO
501501 LINID		50750	DOOD		•
FRIEDLUND	Malcom	ESTEC	RSSD		?
FOING	Bernard	ESTEC	RSSD	Link to space missions, activity	Α
FAVATA	Fabio	ESA	HQ		•
GONDOIN	Philippe	ESTEC	RSSD		?
NOELS	Arlette	Belgium	Liège	Stellar evolution	S
AERTS	Conny	Belgium	Leuven	Beta Ceph, SPB	S
THOUL	Anne	Belgium	Liege	Massive stars	S
MAGAIN	Pierre	Belgium	Liege	Spectroscopic analysis then planets	E
VANDENBUSSCHE	Bart	Belgium	Leuven	Instrumentation, Ground segment	Inst
		_		-	
GARRIDO	Rafael	Spain	IAA	GBO photometry	S
RIBAS	Ignacio	Spain	U. Barcelona	Binaries Ecclipsing	AP
DEEG	Hans	Spain	IAC	Transit detection	E
ROCA-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	lan	UK	QMW London	Excitation and amplitudes	S
AIGRAIN	Suzanne	UK	Exeter	Transit and activity	E+AP
QUELOZ	Didier	Switzerland	Geneve	GB follow-up	EGBO
KJEDSEN	Hans	Danemark	Aarhus	TBC	SGBO
MONTEIRO	Mario	Portugal	Porto	Stellar modeling (TBC)	S
LANOT					
JANOT-	Edouarda	Prozil	Universidade de Sao Paulo	Sismologie Be stars	S
PACHECO	Edouardo	Brazil	Universidade	SISHIOLOGIE DE STAIS	3
DE MEDEIROS	José Renan	Brazil	Federal do Rio	Rotation	AP
ALENCAR	Sylvia	Brazil	Minas gerais	PMS	AP
, LE110/ III	- Jivia	DIULII	i-iiias gerais	1 1-10	7.11



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DE LA REZA MELLO PORETTI	Ramiro Gustavo Enio	Brazil Brazil Italy	Observatoire National O Vallongo, Rio Merate	Exo, debris disks Gaints Spectroscopy/delta scuti	AP AP SGBO
MICHEL CATALA ROUAN GOUPIL MOSSER SAMADI TIPHENE BARBAN DUPRET	Eric Claude Daniel Marie-Jo Benoit Reza Didier Caroline Marc- Antoine	France	LESIA LESIA LESIA LESIA LESIA LESIA LESIA LESIA LESIA	SWG+delta scuti analysis SGBOWG Onboard treatment Moderate rotation Solar planets Amplitudes Instrument Data analusis  Modeling, nn adiab puls	S SGBO E S E/S S Instr S
SCHNEIDER ALECIAN HUBERT LEBRETON NEINER  OLLIVIER LEGER BOUMIER BAUDIN APPOURCHAUX BORDE	Jean Georges Anne-Marie Yveline Coralie  Marc Alain Patrick Frederic Thierry Pascal	France	LUTH LUTH/GEPI GEPI GEPI IAS IAS IAS IAS IAS IAS IAS	Planets in multiple systems Chemically peculiar stars Be stars Models Be stars Instrument Earth like Instrument Time frequency analysis Data analysis, solar type data analysis	E S AP/S S S/AP E/Instr E Inst S S
BARGE DELEUIL JORDA MOUTOU LLEBARIA BOUCHY  VAUCLAIR TOUBLANC VAUCLAIR RIEUTORD CHARPINET LIGNIERES	Pierre Magali Laurent Claire Antoine François  Gerard Dominique Sylvie Michel Stephane François	France France France France France Switzerland  France	LAM LAM LAM LAM LAM Genève  OMP/LAT OMP/CESR OMP/LAT OMP/LAT OMP/LAT OMP/LAT OMP/LAT	EWG+Hot planet statistics EGBO Data reduction EGBOWG Masks in E field Radial velocities  WD Catalogues Diffusion and mixing Fast rotation Corotsky Rotating models	E EGBO E EGBO E E S S S S S+SGBO
GUILLOT	Tristan	France	OCA	Hot Jupiters	E



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PROVOST	Janine	France	OCA	Direct seismic analysis	S
TOUTAIN	Thierry	France	OCA	Data analysis	S
MATHIAS	Philippe	France	OCA	gamma dor	S
TURCK-CHIEZE	Sylvaine	France	Sap/CEA	G modes?	S
GARCIA	Rafael	France	Sap/CEA	Data analysis	S
BALLOT	Jerome	France	SaP/CEA	modeling	S
AUVERGNE	Michel	France	LESIA	IS	Inst
BAGLIN	Annie	France	LESIA	PI	
Gls Vannier Gonzales Maceroni Surdej Gizon Lanza Silva Kollath Chadid	Martin Walter Carla Jean Laurent Antonio Adriana Zoltan merieme	Hungary France	INPE Rome Liege  Univ sao Paulo Budapest OCA	HD 46375 X ays of jupiters Binaries Binaries Activity Rotation Spots and transits Cepheids RR Lyrae	E E/AP AP AP AP AP AP
Ripepi	Vincenzo	<u>ltaly</u>	Napoli	Young clusters	AP
De Ridder	Joris	Belgium	Leuven	Giasnts	AP
COLLIER- CAMERON	Andrew	UK	St Andrews	Activity modeling	AP