
	Title:	Reference:
	<b>Minutes of the 20<sup>th</sup> Scientific Committee</b>  Authors: Annie BAGLIN and Claude Catala	COROT.LESIA.06.050 <b>Version: 3</b>  Date: 04/12/06

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## Minutes of the 20th Scientific Committee

Held in Paris on September 15<sup>th</sup> 2006.

Prepared by par:		
Annie Baglin and Claude Catala		
Accepted by:		
The SC members		

### MODIFICATIONS OF THE DOCUMENT


Ed.	Revs.	Date	Modifications	Visa
1				

### REFERENCE DOCUMENTS

Index	Reference	Title of the document
DR1	SC20_DR1	Project status ( T. Lam-Trong)
DR2	SC20_DR2_launcher_AB.ppt	Scientific programme and launch date by (A. Baglin)
DR3	SC20_DR3_cimmiss_LB.ppt	Commissioning phase (LEOP) (L. Boisnard)
DR4	SC20_DR4_calib_MA.ppt	First Calibrations (M. Auvergne)SC20_4_calib.ppt
DR5	SC20_DR5_LoICP_AB.ppt	LoI for the Core Programme (A. Baglin)
DR6	COROT.LESIA.04.103	List of N3 products
DR7	SC20_DR7_organexo_MD.ppt	Organisation of the CEST: SC20_7_organexo.ppt
DR8	SC20_DR8_SWG_EM.ppt	
DR9	SC20_DR9_4fieldsexo_MD.ppt	

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

	Title:	Reference:
	<b>Minutes of the 20<sup>th</sup> Scientific Committee</b>  Authors: Annie BAGLIN and Claude Catala	COROT.LESIA.06. 050 <b>Version: 3</b>  Date: 04/12/06

#### Participants:

M. Auvergne, A. Baglin, L. Boissard, C. Catala, M. Deleuil, M. Fridlund, R. Garrido, T. Guillot, E. Janot-Pacheco, L. Jorda, T. Lam Trong, E. Michel, M. Ollivier, H. Rauer, I. Roxburgh, J. Schneider

## 1. The project status


TLT presents the status of the project, as described in the document DR 1. The satellite is ready. The last preparations to shipping are being done in Cannes. But the ground segment is still under development and on the critical path. Actions are being discussed to improve the situation between CNES, GMV and the labs. As we are asking for a launch before the end of 2006 (see next §) to be able to start scientific operations as early as possible and not later than February 1st 2007, we need to have a ground segment fully operational at that time.

## 2. The launch

### 2.1. Where are we?

TLT explains the difficulties encountered by the delay of the launch of METOP. On the 29<sup>th</sup> of August, a meeting between ArianeSpace(AE), CNES and the scientific community has been held to examine the situation. The scientific community has asked ArianeSpace to present a recovery plan using the back-up (a Soyuz FG), in conformity with the contract, if the nominal version is not completely qualified and ready to be launched by the end of the year. A second meeting has been held during this SC meeting. Its conclusions are as follows:

- Le passage à la version FG pour Corot sera effectué si le lancement de MetOp subit un nouveau retard du créneau actuel (7 au 10 Octobre 2006). Le calendrier de lancement MetOP sera examiné avec le CNES lors de trois points de rendez-vous :
  - Les 18 et 19 Septembre 2006 : résultats de l'audition de NPO-Avtomatika par la « task force »
  - 28 Septembre 2006: présentation à Eumetsat des résultats des actions en cours suite aux anomalies de chronologie finale MetOp et autorisation formelle d'un lancement au 7 Octobre 2006
  - 10 Octobre 2006 (prévision de 3 tentatives de lancement)
- La non tenue de l'un quelconque de ces événements conduirait au passage à la version FG.
- A chaque étape, une réunion ArianeSpace/CNES/Scientifiques sera organisée seulement en cas de problème entraînant le report du lancement MetOp, pour acter le passage au lanceur de « back-up » Soyuz FG. Par contre, si les résultats sont positifs, ArianeSpace en informera le CNES dans les meilleurs délais.
- 2 actions sont prises par ArianeSpace
  - Démarrage de l'analyse de mission Corot avec un Soyuz FG
  - Démarrage de l'étude de faisabilité de campagnes MetOp et Corot en parallèle
- Prochain rendez-vous (hors crise) : le 29 Septembre 2006 à 14.00, par visioconférence.

	Title:	Reference:
	<b>Minutes of the 20<sup>th</sup> Scientific Committee</b>  Authors: Annie BAGLIN and Claude Catala	COROT.LESIA.06. 050 <b>Version: 3</b>  Date: 04/12/06

## 2.2. The SC requirements

AB recalls the presentation she has given during the August 29<sup>th</sup> meeting at CNES, to explain why we want to be launched before the end of the year. (see DR2). This case has been well understood by CNES, and supported by all the representatives of the European astronomical community (including ESA).

### 2.3. Letter to CNES

It is decided to confirm this presentation by a letter from the SC to the president, describing the content of the presentation. Ian Roxburgh is asked to send the letter on behalf of the SC. This letter has been sent on September 18<sup>th</sup>.

### 2.4. PR activities associated to the launch.

Thien recalls the CNES programme and facilities available. Abroadcasting via satellite will be available to the institutions which want to get it. For any technical information and complementary material contact Agnes.Lerr@cnes.fr

## 3. Commissioning phase

Laurent Boissard (see DR3) recalls the early phases after launch. The system tests have shown that the time needed to point will be longer than was foreseen before (9 days instead of 7).

Michel Auvergne (See DR4) presents the calibrations needed to define the parameters of the flight software. They will last for 7 days

In the early plans they were followed by a check of the baffle properties. Due to the date of the launch, the period is not favourable, as the Sun will be just in the back of the satellite, and that there will be very little variations of the straylight background as a function of depointing. So this check will probably be postponed to the beginning of the next run, just after the manoeuvre towards the centre direction.


As we want to try to have a run as long as possible, a second pointing during the commissioning phase will be probably postponed, and performed after the manoeuvre.

## 4. AO for core programme

AS reported by AB (see DR5), the answers show first a strong difference between the exo and sismo programme,

The exo-Co-Is are all involved in the transit detection and characterisation programme, and all accept the organisation which has been set up as presented by M. Deleuil. A few specific programmes are proposed.

The sismo Co-Is have proposed only a few programmes of data analysis, as many will rely on the N3 products.

	Title:	Reference:
	<b>Minutes of the 20<sup>th</sup> Scientific Committee</b> Authors: Annie BAGLIN and Claude Catala	COROT.LESIA.06.050 <b>Version: 3</b> Date: 04/12/06

There are two major types of programmes, based either on physical processes or on objects. In both cases some of them address general questions while others focus on specific topics or targets.

The already existing teams of SWG have proposed the programme associated to their topic. Teams are generally quite wide and many Co-Is belong to many different teams.....

The aim of this exercise is to make the Co-Is aware of the intention of the others, and eventually to help people to cooperate more.

It is decided to circulate the answers among the Co-Is, and it is believed that it will be sufficient to help people getting together or confronting their results before publication, and to avoid unfair competition.

**Action SC20-1:** AB October 1<sup>st</sup>: prepare the synthesis document and circulate it among the Co-Is

## 5. Data analysis and publication strategy

### 5.1. N3 products

They are defined in document COROT.LESIA.04.103, (DR6) and were approved at the 13<sup>th</sup> scientific committee in June 2005. The list of N3 products and the teams responsible for them are the following:


- N3.1 : General properties of the light curves (standard deviation, noise level, quality index) – instrument team
- N3.2 : Detected frequencies, linewidths, amplitudes and error estimates – « DAT » team
- N3.3 : Detected candidate transits and transit parameters – transit candidate identification team
- N3.4 : Photometric calibration of the COROT system – no responsible team identified (see below)
- N3.5 : Classification of physical and geometric variables – Leuven and Madrid teams

Data product N3.4 is considered important for some programmes as for instance the study of binary systems.

Obtaining this product, already discussed since a while, would involve a calibration of the instrument transmission as a function of wavelength. Due to the method of defining the colors, it is different from one target to another. M. Auvergne says that it will be very difficult to achieve, and this data product may not be retained. We still need to identify a team for performing this task, if needed.

### 5.2. New structure of exoplanet group

The exoplanet community has redefined its organisation in order to provide efficiently the exoplanet N3 products and perform/analyze the complementary ground and space-based observations. This new organization recognizes follow-up observations as part of the exoplanet programme. Participants to this new organization (called the CEST: CoRoT Exoplanet Science Team) are all Co-Is who have expressed their will to be involved in the planet search business, called the Exo-CoIs, plus associated scientists involved in programmes led by these Co-Is.

	Title:	Reference:
	<b>Minutes of the 20<sup>th</sup> Scientific Committee</b> Authors: Annie BAGLIN and Claude Catala	COROT.LESIA.06.050 <b>Version: 3</b> Date: 04/12/06

The new organization, described by Magali Deleuil (DR7), is arranged around 5 tasks:

- transit candidate identification: producing the target list, the transit parameters, and ranking of the transits – these are the planet search N3 products.
- G/B photometric observations: providing the  $\Delta m$  of all stars within the PSF of targets, observed according to their ranking by the previous team
- radial velocity measurements: measuring RV with  $\sigma < 100$  m/s, for targets observed according to their ranking, providing planet mass
- stellar population: providing stellar fundamental parameters and physical properties, measuring radius and mass of planets
- space-based observations: for planet further characterization

The outputs of all five groups will converge to a data manager and will be ingested in a global database. This database will feed the work of the “detection and analysis group”, whose role will be to evaluate the scientific content of the DB and identify potential publications, to setup the list of priorities for follow-up observations, to assess the follow-up performances, and identify/solve potential problems in follow-up tasks. The members of the detection and analysis group are the coordinators of the five tasks described above, plus the data manager.

### 5.3. Exoplanet publication policy

A preliminary text is presented by Marc Ollivier. After discussion, this text is received positively by the CSC. It will be circulated within the exoplanet community to collect reactions and suggestions, then approved at the next CSC meeting. The list of builders, who will appear as co-authors, needs to be defined soon.

**Action SC20-2:** Marc Ollivier, SC21: circulate text about exoplanet publication strategy among exo Co-Is, collect reactions and suggestions, present it at the next SC


**Action SC20-3** Annie Baglin SC21: prepare preliminary list of builders

One suggestion is made of having the most important papers signed by “The COROT team”, without having a real list of names in the authorship. This idea is discussed, but the majority of the attendees do not support it. The possibility of adding “and the COROT team” at the end of the regular author list is mentioned.

### 5.4. Structure of the seismology groups

Eric Michel recalls the structure of the seismology groups, which has not changed (DR8 TR1). The GBOSWG still exists for complementary and follow-up observations. It is noted that many of the working groups correspond to types of objects (ex: red giants, Be stars, gamma Dor stars, delta Scuti stars, etc...). These groups are both involved in the seismology core programme, but also in additional programmes. This is seen as positive. There is no need for modifying this structure, which will be efficient for organizing the exploitation work in the framework of the publication policy proposed below.

### 5.5. Seismology publication policy

	Title:	Reference:	<b>Page: 7</b>
	<b>Minutes of the 20<sup>th</sup> Scientific Committee</b>	<b>COROT.LESIA.06. 050</b> <b>Version: 3</b>	
	Authors: Annie BAGLIN and Claude Catala	Date: 04/12/06	

Eric Michel presents a tentative proposal for defining a publication strategy for the seismology core programme (see DR8, TR2). It involves two types of papers:

Type 1: these will be papers presenting the seismology N3 products. We foresee one such paper per star or group of stars. The authors will be the members of the DAT team and the builders. Each such paper will be written under the responsibility of one DAT member or one builder, who will be responsible for defining the order of authors in the list.

Type 2: these papers will use the oscillation parameters presented in type 1 papers, and starting from there will present an interpretation concerning the star's interior structure and physics. Papers using a different recipe to derive oscillation parameters than those used by the DAT team will also be considered as type 2. There is no rule for authorship of type 2 papers.

This strategy of publication was received positively by the CSC.

**Action SC20-4:** Eric Michel SC21: write a document detailing the strategy of publication of the seismology programme and circulate it within the CSC to collect comments, then to the seismology community.

This text will be discussed and possibly approved at the next CSC meeting.

## 6. Observing programme

Magali Deleuil and Eric Michel (see DR8 TR 3 and 4) remind the present status of the observing programme: IR01, IR02, LRC1 and LRA1 are fully defined (position/orientation of CCDs, choice of targets for seismology field).

MD presents the latest evaluation of the stellar population of these fields (DR9).


For SRC1, a proposal from the seismology group exists and needs to be evaluated for optimization of exofield, both for exoplanet and additional programme. Proposals of the seismology group for LRC2 and LRA2 also need to be studied by the exoplanet group.

Because the launch will be delayed at least until end November, there is no time left for having a 60 day IR01 and a 30 day IR02. It is decided to keep IR01 as long as possible, and therefore to abandon IR02.

The need for very long runs (180 days instead of 150) is discussed. There is no strong motivation for them in the seismology programme, and the merit of these very long runs for the exoplanet programme is judged not essential. If a very long run is planned, it has to be in the anticenter direction, which is better for the exoplanet programme. It will therefore take the place of one of the approved additional programmes, which are all in the anticenter. If a VLR is decided, then a new AP for the center direction must be identified. Considering all these arguments, the CSC suggests that the possibility for very long runs be envisaged only for an extended mission.

Both seismo and exo programmes have follow-up observations being planned.

\* The seismo programme has been granted an ESO key-programme for high resolution spectroscopic monitoring of classical pulsators observed with COROT, which will allow us to detect

	Title:	Reference:	<b>Page: 8</b>
	<b>Minutes of the 20<sup>th</sup> Scientific Committee</b>	<b>COROT.LESIA.06. 050</b> <b>Version: 3</b>	
	Authors: Annie BAGLIN and Claude Catala	Date: 04/12/06	

higher degree modes, as well as 15 nights at TBL/Narval to study magnetic activity of HD 49933 (IR01) in simultaneity with COROT observations.

\* Follow-up observations for the exo programme are described in § 5.2.

## 7. AO for AP in IRs

Only one proposal was received in response to the AO for APs in IR01 and IR02, concerning the study of known close binaries in these fields, and involving targets on both IR01 and IR02. Because the CSC has decided to abandon IR02, the proposers will be notified that only the targets in IR01 will be observed.

**Action SC20-5** Werner Weiss: notify GIs for AP in IR1 and IR2 that IR2 is no longer proposed.

## 8. Web page for publications

Tristan Guillot had proposed at SC19th to build a web page for a better organization of the internal refereeing system. This page would include a link to the description of the publication rules and strategy, an open link to already published COROT papers, and a password-protected link to pre-submissions in the internal refereeing system. The need for such a tool seems clear, and the amount of work needed for setting it up is not enormous. However, the manpower that had been planned for this work is no longer available.

**Action SC20-6** Annie Baglin: try to find means to install a web page before the end of 2006.

## 9. The OMP Corotsky database


It is envisaged to open the access of the input stellar catalogues in Corotsky to the COROT community, then to the world, directly without using the Corotsky tool. A test version of this new tool is available and has been used for testing. It is important to distinguish between the input catalogues for the exoplanet programme and those for the seismo programme.

\* Catalogues for the exoplanet programme are managed by the exodat database in Marseille, and it is this database that must be open to the COROT community.

\* The input catalogues for the seismo programme are managed in Toulouse, and their opening to the community represents a valuable added value. Information concerning direct access to these catalogues should be distributed to the whole CSC for further testing. Later on, a world-wide opening of this base is recommended. It must be preceded by the publication of a paper presenting the content of the catalogues and the methods used to derive parameters.

**Action SC20-7:** 1- Claude Catala October 1<sup>st</sup>: ask Toulouse team to send to AB, info on access parameters to Corotsky catalogues..

**Action SC20-7:** 2- Annie Baglin October 3<sup>rd</sup>: circulate the info to the whole CSC, for further testing.

	Title:	Reference:
	Minutes of the 20 <sup>th</sup> Scientific Committee	COROT.LESIA.06.050 Version: 3
	Authors: Annie BAGLIN and Claude Catala	Date: 04/12/06 Page: 9

## 10. List of Co-Is

Andrew Collier Cameron has contacted Annie Baglin stating that he wishes to resign as an ESA co-I and proposed that Suzanne Aigrain should take his place. Ian Roxburgh stated that it is not up to a resigning co-I to nominate a successor, ESA co-Is were selected following an open call for nominations and that we need to follow the ESA procedures for replacing a co-I, which we do not know. Ian will clarify this point. It was then decided that Andrew should write a formal letter of resignation to Ian Roxburgh as the ESA member of the Scientific Committee resigning his position, and that Ian would contact ESA for clarification on the procedures for nominating a new ESA co-I.

**Action SC20-8** C. Catala: ask Andrew CC to write a formal letter to Ian, asap  
**Action SC 20-9** Ian Roxburgh: ask ESA about the procedure, before next SC

A potential new French Co-I could be Pascal Bordé, from IAS. Marc Ollivier is asked to prepare a case, to be discussed at the next CSC meeting

## 11. Next meeting

The next meeting of the CSC will be held at University of London in Paris on December 1<sup>st</sup>, 2006. But this date could change when the date of launch will be known.

## 12. The COROT book

The COROT book is now ready for printing, and should come out sometime before early December.


## 13. Actions

### 13.1. Actions from SC17 still open

SC17-2	Edition of the document on the templates	AB	End 2005	
SC17-6	Standard copyright	T L T	SC 18	
SC17-8	Document on classification of variables	RG	CW10	

### 13.2. Actions from SC 18

SC18-7	Initial oversampling list	WW, PB, AB	SC19	
SC18-12	CP data right doc	AB	SC19	
SC18-14	Mail to T. Mazeh	AB/HR/MD	May 15	

	Title:	Reference:
	Minutes of the 20 <sup>th</sup> Scientific Committee	COROT.LESIA.06.050 Version: 3
	Authors: Annie BAGLIN and Claude Catala	Date: 04/12/06 Page: 10


SC18-15	PR in USA	JS	asap	
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### Actions from SC 19.

SC19-1	Document on the observing programme	AB	July 1st	
SC19-5	Web page for publications	TG	SC20	

### Actions from SC 20.


<b>Action SC20-1</b>	prepare the synthesis document of the answers of the LOI for CP and circulate it among the Co_Is	AB	October 1st	
<b>SC20-2</b>	circulate text about exoplanet publication strategy among exo-co-Is, collect reactions and suggestions,	Marc Ollivier	SC21	
<b>SC20-3</b>	prepare preliminary list of builders	AB	SC21	
<b>SC20-4</b>	write a document detailing the strategy of publication of the seismology programme and circulate it within the CSC to collect comments, then to the seismology community.	Eric M.	SC21	
<b>SC20-5</b>	notify GIs for AP in IR1 and IR2 that IR2 is no longer proposed	WW	ASAP	closed
<b>SC20-6</b>	find means to install a web page before the end of 2006	AB	SC21	
<b>SC20-7</b>	1: ask Toulouse team to send to AB, info on access parameters to Corotsky catalogues 2- circulate the info to the whole CSC for further testing.	CC AB	October 1 <sup>st</sup> October 3rd	
<b>SC20-8</b>	Ask Andrew Collier C to write a formal letter to Ian	CC	asap	done
<b>SC 20-9</b>	Ask ESA about the procedure	Ian R.	Before SC21	

	Title:	Reference:
	Minutes of the 20 <sup>th</sup> Scientific Committee	COROT.LESIA.06.050 Version: 3
	Authors: Annie BAGLIN and Claude Catala	Date: 04/12/06 Page: 11


**Table 1: List of Co-Is and GIs**

**Co-Is**

Name	first name	Country/lab	Institution	activity	WG
<b>RAUER</b>	<b>Heike</b>	<b>Germany</b>	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
<b>FRIEDLUND</b>	<b>Malcom</b>	<b>ESTEC</b>	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
<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 adiabatic analysis	S
MAGAIN	Pierre	Belgium	Liege	Spectroscopic analysis	SGBO
VANDEBUSSCHE	Bart	Belgium	Leuven	Instrumentation, Ground segment	Inst
<b>GARRIDO</b>	<b>Rafael</b>	<b>Spain</b>	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
<b>WEISS</b>	<b>Werner</b>	<b>Austria</b>	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
<b>ROXBURGH</b>	<b>Ian</b>	<b>UK</b>	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

	Title:	Reference:
	Minutes of the 20 <sup>th</sup> Scientific Committee	COROT.LESIA.06.050 Version: 3
	Authors: Annie BAGLIN and Claude Catala	Date: 04/12/06 Page: 12

MONTEIRO	Mario	Portugal	Porto	Stellar modeling (TBC)	S
<b>JANOT-PACHECO</b>	<b>Eduardo</b>	<b>Brazil</b>	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	Gaints	AP
de MEDEIROS	José Renan	Brazil	U Rio Grande del Norte	Rotation	S/AP
PORETTI	Enio	Italy	Merate	Spectroscopy/delta scuti	SGBO
<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
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 analisis	S
<b>SCHNEIDER</b>	<b>Jean</b>	<b>France</b>	LUTH	Planets in multiple systems	E
<b>ALECIAN</b>	<b>Georges</b>	<b>France</b>	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
<b>LEGER</b>	<b>Alain</b>	<b>France</b>	IAS	Earth like	E
BLOUMIER	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
<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
MOUTOU	Claire	France	LAM	EGBOWG	EGBO
LLEBARIA	Antoine	France	LAM	Masks in E field	E
BOUCHY	François	France	IAP	Radial velocities	E
<b>VAUCLAIR</b>	<b>Gerard</b>	<b>France</b>	OMP/LAT	WD	S
TOUBLANC	Dominique	France	OMP/CESR	Catalogues	E

	Title:	Reference:
	<b>Minutes of the 20<sup>th</sup> Scientific Committee</b> Authors: Annie BAGLIN and Claude Catala	<b>COROT.LESIA.06.050</b> <b>Version: 3</b> Date: 04/12/06

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
<b>GUILLOT</b>	<b>Tristan</b>	<b>France</b>	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	Modeling, g modes	S
GARCIA	Rafael	France	Sap/CEA	Data analysis	S
BALLOT	Jerome	France	Sap/CEA	modeling	S
<b>AUVERGNE</b>	<b>Michel</b>	<b>France</b>	LESIA	IS	Inst
<b>BAGLIN</b>	<b>Annie</b>	<b>France</b>	LESIA	PI	

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Lanza	Antonio	<a href="mailto:nlanza@ct.astro.it">nlanza@ct.astro.it</a>
Aigrain	Suzanne	<a href="mailto:suz@ast.cam.ac.uk">suz@ast.cam.ac.uk</a>
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Ripepi	Vincenzo	<a href="mailto:nlanza@ct.astro.it">nlanza@ct.astro.it</a>
De Ridder	Joris	<a href="mailto:joris@ster.kuleuven.ac.be">joris@ster.kuleuven.ac.be</a>