



CoRoT data processing and deliveries

S.Chaintreuil,

C.Amafroid, M.Auvergne, F.Baudin, P-Y.Chabaud,
E.Grolleau, F.Heuripeau, R.Hulin, L.Jorda, F.Mertens,
D.Naudet, R.Romagnan, R.Samadi, T.Tuna

Data deliveries since SC33



- Exo light curves from imagerettes (EN2_STAR_IMAG) have been delivered for the runs **IRa01** and **LRc02** (on October 23th 2009) and **SRa02** (December 12th 2009)
 - some bugs have to be fixed by LAM
 - EN1_imagerettes are ready for the runs Sra01, SRc01, LRc01, LRa01, SRc02, LRa02
- Seismo and exo light curves (except those from imagerettes) have been delivered on November 18th 2009 for the run **LRc03**
- Standard exo light curves (EN2_STAR) have been reprocessed and modified in the IAS database on November 12th 2009 for the run **LRa02** (corrected version is 2.1b ; version 2.1 contains dates “going backwards” and should not be used)
- missing N1 data i.e. AN1_STAR have been delivered for the runs SRc01, SRa01, LRc02, LRa02 and LRc03.

Data to be delivered

Run	data	version	planned deliveries
LRc04	seismo	V2.0	15/02/2010
	exo	V2.2	29/03/2010

Data delivered to the CoRoT team

CoRoT team deliveries				
Run	data	version	date of delivery	version
LRc03	seismo	V1.9	Nov.18th 2009	
	exo	V2.1	Nov.18th 2009	
LRa02	seismo	1.8	August 5th, 2009	
	exo	2.1	July 29th, 2009	
SRa02	seismo	1.8	March 17th, 2009	
	exo	2.1	May 19th, 2009	
SRc02	seismo			
	exo	2.1	July 29th, 2009	
LRc02	seismo	1.8	June 3rd, 2009	
	exo	2.1	February 12th, 2009	
SRa01	seismo			1.4
	exo	2.1	May 18th, 2009	1.4
LRa01	seismo			1.3 then 1.7
	exo	2.1	April 22th, 2009	1.4
LRc01	seismo			1.1 then 1.6
	exo	2.1	April 3rd, 2009	1.2
SRc01	seismo			1.2 then 1.6
	exo	2.1	July 10th, 2009	1.3
IRa01	seismo			1.0 then 1.5
	exo	2.1	April 3rd, 2009	1.0

Public deliveries

Public deliveries			
Run	data	version	date of delivery
SRa01	seismo	1.4	November 23th, 2009
	exo	1.4	November 23th, 2009
LRa01	seismo	1.3 then 1.7	July 29th, 2009
	exo	1.4	October 29th, 2009
LRc01	seismo	1.1 then 1.6	February 16th, 2009
	exo	1.2	February 16th, 2009
SRc01	seismo	1.2 then 1.6	April 24th, 2009
	exo	1.3	April 24th, 2009
IRa01	seismo	1.0 then 1.5	December 19th, 2008
	exo	1.0	December 19th, 2008

<http://corotsol.obspm.fr>

Work in progress : software development



- the correction of the « macroscopic » trend related to the ageing of the instrument is ready
 - it will be added at the beginning of the N1->N2 process
 - it will be applied to all extends
- correction of the « gaps » related to the orders of changes of the CCD temperature
 - the study has begun (Thibault Tuna)
- characterisation of daily effects (24 hours and 12 hours)
- reconstruction of seismo light curves from imagerettes using PSF is nearly finished
 - the final tests are under progress
 - AN1_imagerette are ready to be used
 - AN1_STAR_IMG will be produced in the next months
 - AN1_SATR and AN1_STAR_IMG will be merged in order to improve the signal around the ASA
 - the pipe-line is still in progress

Work in progress : data production



- Re-processing (V2) AN1_STAR and AN2_STAR
 - in case of missing data, the last data before the hole were incorrectly marked
 - the bug has been fixed ; data need to be re-processed
- LRc03
 - production of EN1_imagette in progress
 - EN2_STAR_IMAG planned on February 1st 2010
- LRc04
 - N1 products are ready
 - AN2_STAR planned on February 15 th 2010
 - EN2_STAR and EN2_STAR_IMAG planned on March 29th 2010
- LRa03
 - will end March 1st 2010
 - seismo data planned June 1st 2010
 - exo data planned September 1st 2010