



CENTRE NATIONAL D'ÉTUDES SPATIALES

**30th Scientific Committee
Institut D'Astrophysique Paris
Dec. 1st, 2008**

COROT : MISSION STATUS

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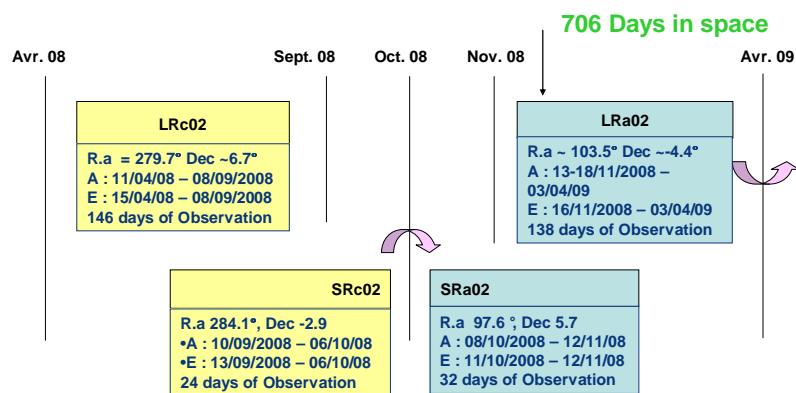


30th Scientific Committee : 02/12/2008



Operations & Observation program

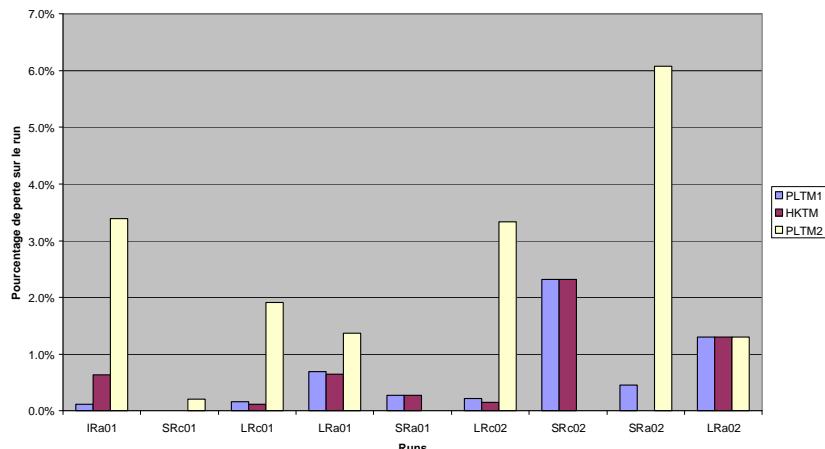
- 8 Runs completed – a new LR on going



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TM Loss by Run

Pourcentage des pertes de chaque type de TM par Run



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Status of the Corot system

■ Satellite & Instrument : Nominal

- Exporank anomaly that appeared on SRc02, SRa02 disappeared on LRa02 : under investigation

■ Control Ground Segment : Nominal

■ Mission Ground segment :

- Corot Mission Center : **operational** with
 - N1 alarm data delivered on a weekly basis
 - Impact of orbiting objects on the data : study has started fall 2008
 - Corotsky new versions to come (V5.4 in Dec. 2008, V5.5 March 2009)
 - Some on going activities to improve the robustness of the Decom module (TMPROC)
 - Astro Masks (SRc02, SRa02) : a new TCGEN bug
 - The efficiency of the maintenance of the CMC modules has dropped
- Mission Ground stations :
 - ALC : A number of passes recently lost or uncompleted TM data
=> to avoid more data loss switch from ALC to KRN station to download PLTM2 during SRa02 and beg. Of LRa02
 - VGS : a recent break down on the azimuth rotor of antenna
- Corot data Center

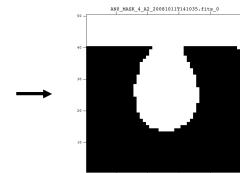
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Astro Photometric masks

- 4 erroneous astro photometric masks loaded and used for SRc02, SRa02

- SRc02
 - From 09/09/2008 to 12/09/2008 (Seq ID 40 A1&A2) :
HD 174532 (ID 7655), HD 175152 (ID 7522) astero LC impacted (**Large Masks**)

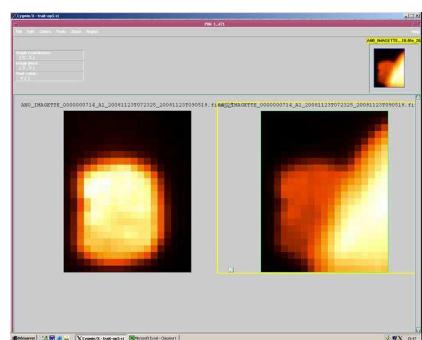
- SRa02
 - From 08/10/2008 to 11/10/2008 (Seq ID 44 A2) :
HD 46223 (ID 1718) astero LC impacted (**Large Mask**)
 - From 11/10/2008 to 12/11/2008 (Seq ID 45 A2) :
HD 46149 (ID 1818) astero LC impacted (**Optimized Mask**)



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A “close” encounter at the beginning of LRa02

- 23/11/2008 : short but Large impact on the photometry of HD 51193 (COR ID 714)



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Next project events

- Project Meeting in January :
 - ♦ Main issues after the last operations at CNES
 - ♦ Status of the instrument
 - ♦ Exploitation of the system and CMC : status and evolution
 - ♦ The extension of the mission
- CNES Review of Exploitation (REVEX Nb. 2), on 12 & 13th March, 2009

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CONCLUSION

- Technical expertise, maintenance of the ground and instrument software, management and exploitation of the stations : the support of the partners is essential and must keep on as committed .

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