

35th Scientific Committee March 12th, 2010

COROT: Mission & Project STATUS

1/1



35th Scientific Committee: 12/03/2010



Events since previous Science Committee (1/2)

- Satellite operations in short
 - LRa03 stopped March 1st
 - Operations SRa03 : nominal
 - from the 1st of March to the 5th
 - Seismology observation started on the 2nd of March
 - Exoplanet observation started on the 5th of March
 - Final seismology masks uploaded on the 5th
 - To be noticed for science : the image of Corot Id 374 star (Seismology) is positionned on some defective pixels



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Events since previous Science Committee (2/2)

■DPU1 anomaly of March, 8th 2009

- Presentation (Feb. 12) of the conclusions of the enquiry to CNES executives
- Main conclusions:
 - A failure of DPU1 component (current regulator of the FPGA ?) is the most probable cause of the anomaly,
 - It is not circumscribe to 1553 dialog
 - The channel 1 seems unlikely to recover
 - No further attempt to switch on again (except if transition in safe mode occurs)
 - some experience return

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Mission Status

■Mission

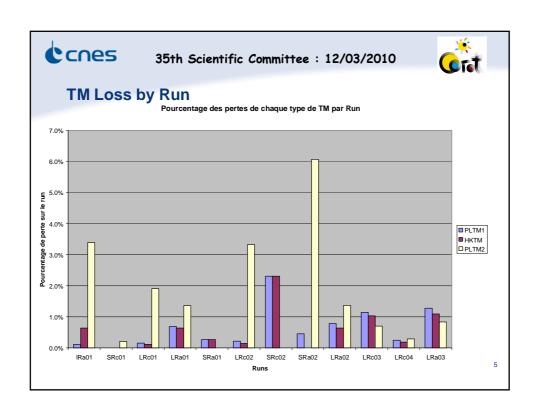
- + 1170 days in space
- 12 Runs completed

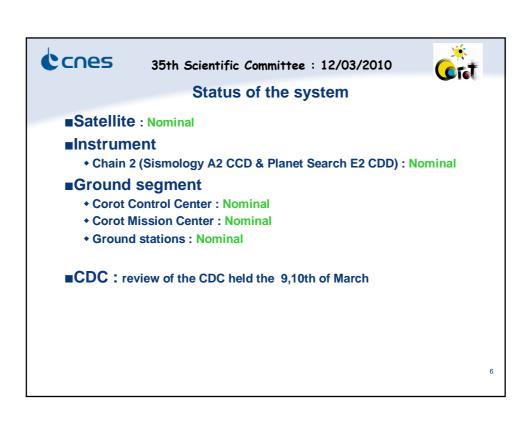
■ Status of LRa03 (440.8)

- Seismology channel
 - A2 151 days of data collected (146 with refined photometric masks)
 - 5 TM Starmasks (Imagettes 35x35), 5 Light Curves

• Exoplanets channel

- E2 149 days of data
- 36 TM Starmasks,
- 1768 Chrm + 94Chrm Tech + 3431 MonoC Stellar Light Curves
- 1(initial) + 4 updates of the Oversampling list of Exo stars along the run
- Small rotation around LOS (+1.2°) => optimal for CCD temperature





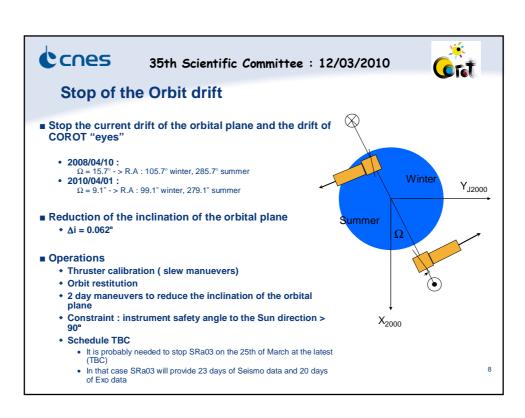


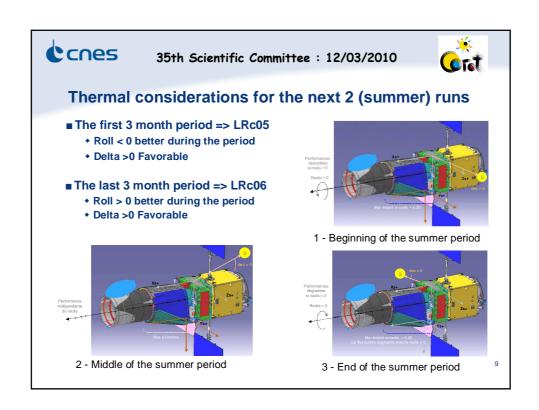
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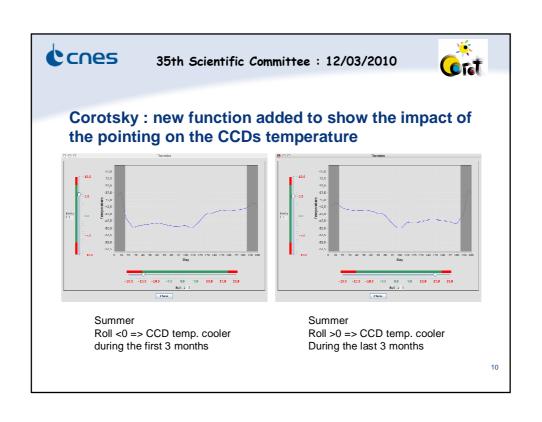


The next Operations

- Stop of SRa03
- Stop of Orbit drift
- Operations for the next Run (LRc05)









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Next project events:

- June 10th 2010 : REVEX (Exploitation Review)
 - Satellite, instrument ground system status
 - Performances and tendances
 - Evolutions