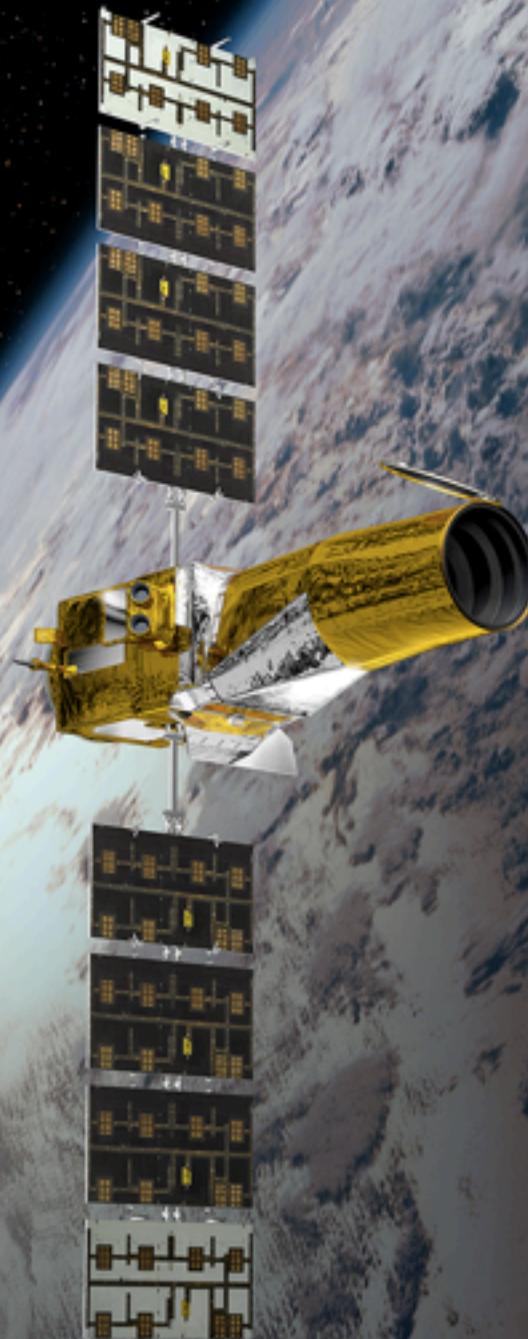


CoRoT Mission

CW11th at IAC

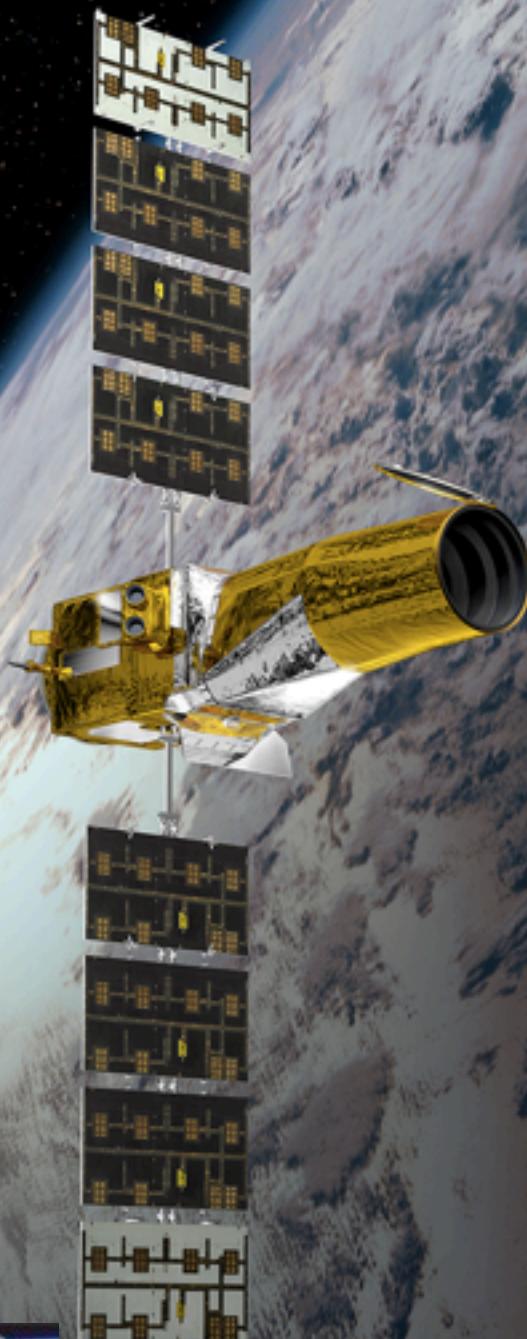


CoRoT in Short

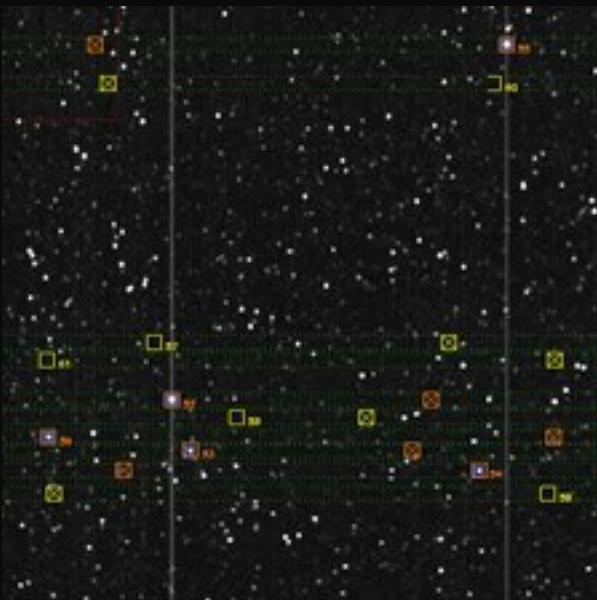
Multi - Cooperation project
Launched Dec. 26, 2006

6 years of operations (Toulouse)
25 Runs achieved

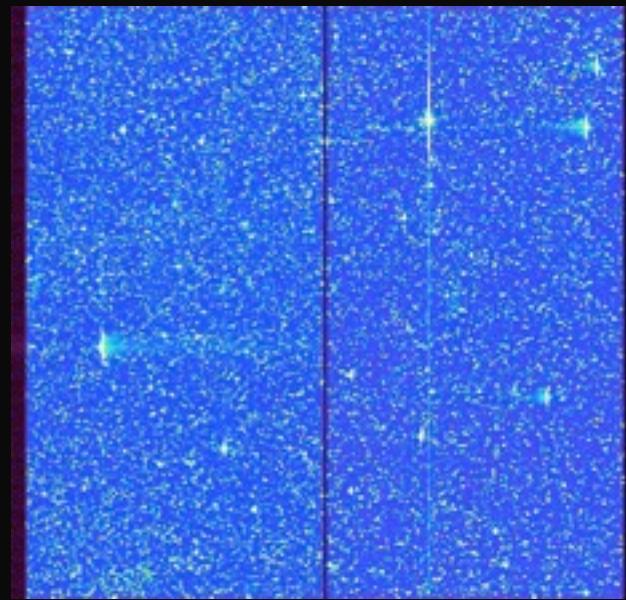
Chain n°1 stopped in March 2009
Chain n°2 stopped beg. of Nov. 2012



2007-2008 : a very exciting & challenging period
calibration & discovery of the instrument
the first runs
data production & reduction start



Seismology field : 5 x 2 stars
Bright stars $6 < mv < 9$

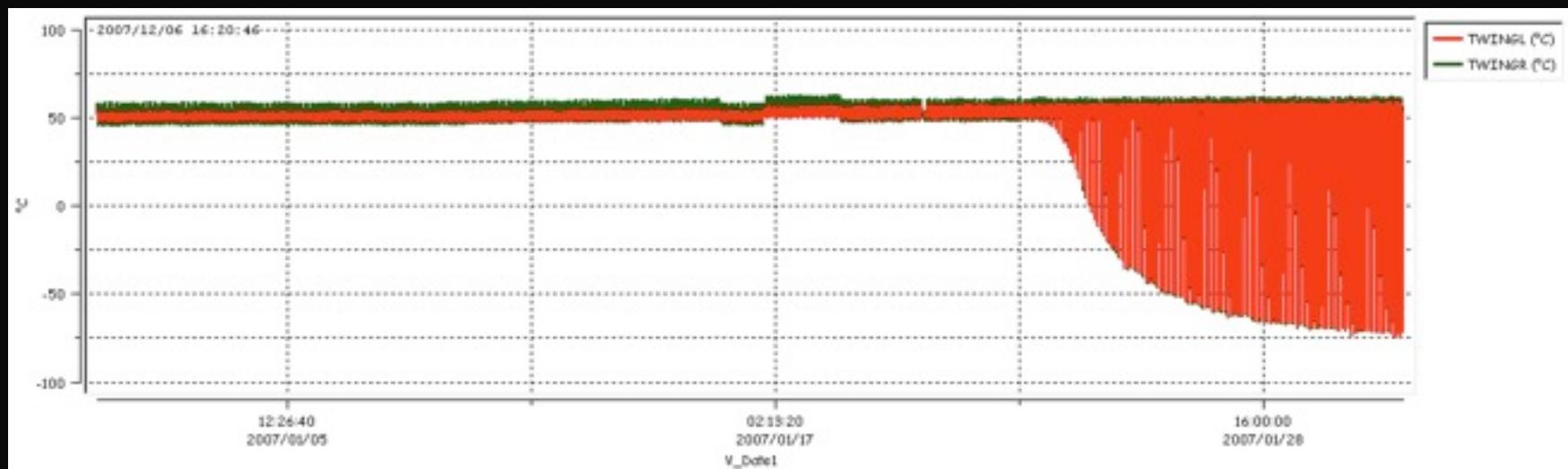


Exoplanet field : 2 x 5000 stars
Faint stars $12 < mv < 16$

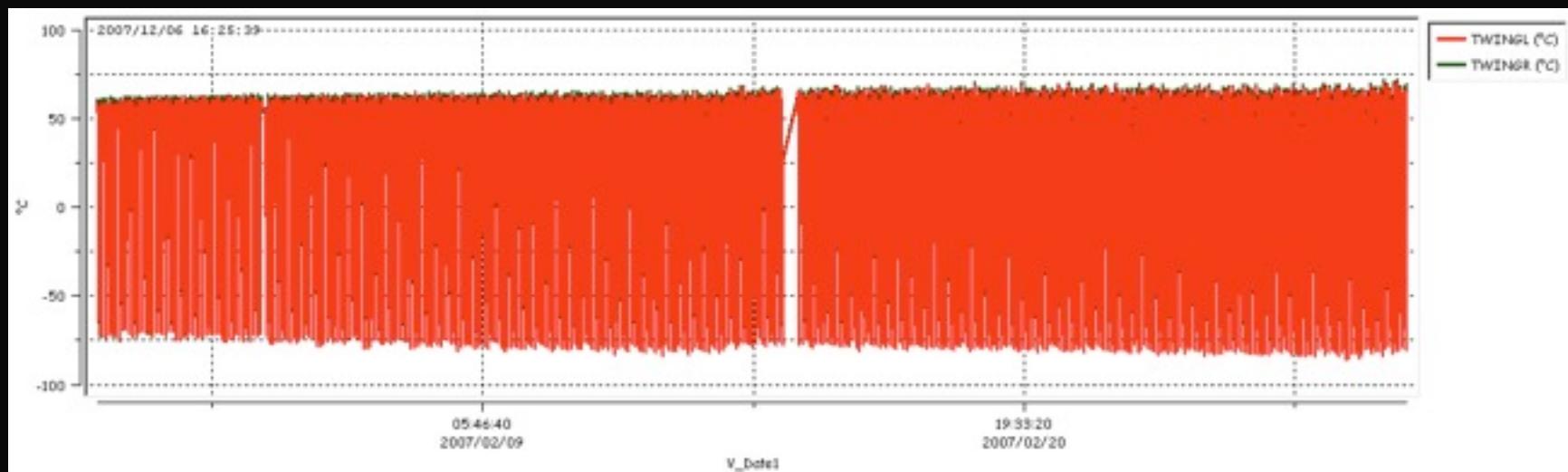


and the real «life» of the satellite in hostile
environment ...

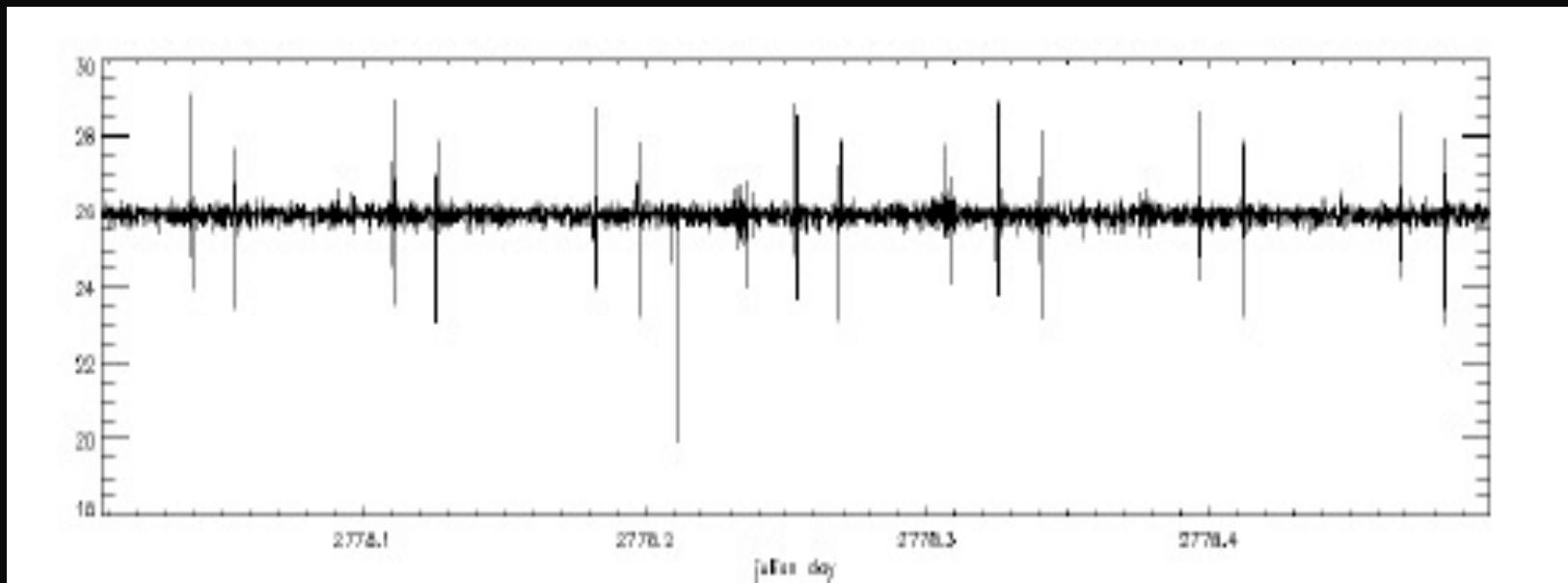
Days and nights



Days and nights



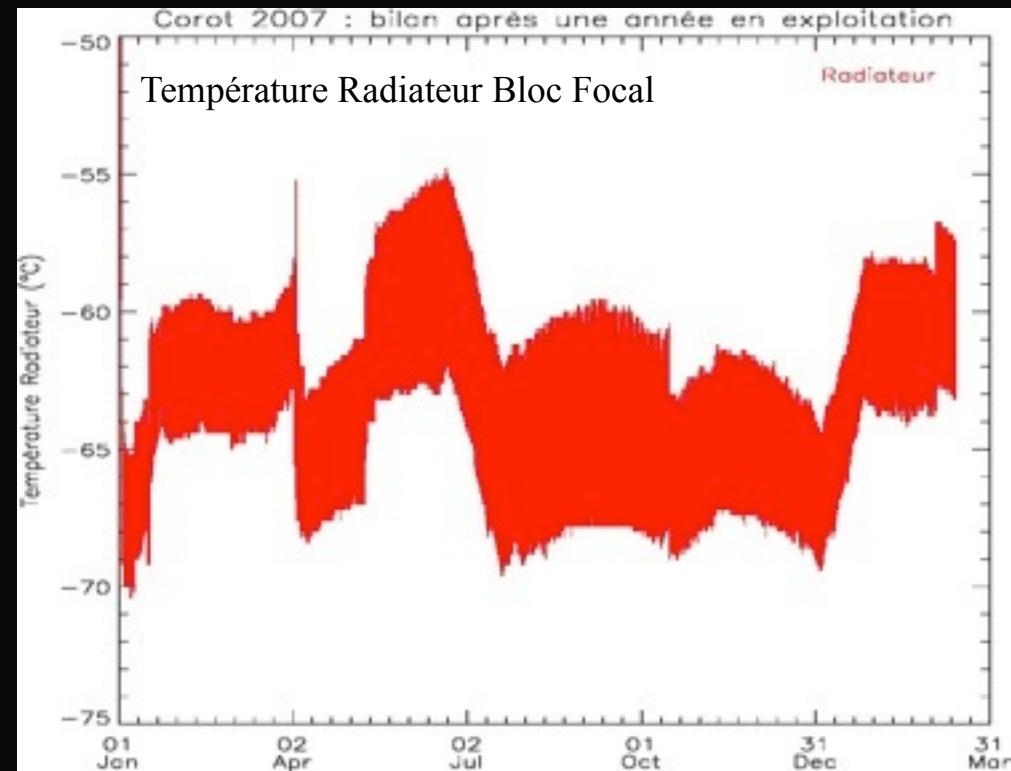
Days and nights



Thermal control of the CCDs

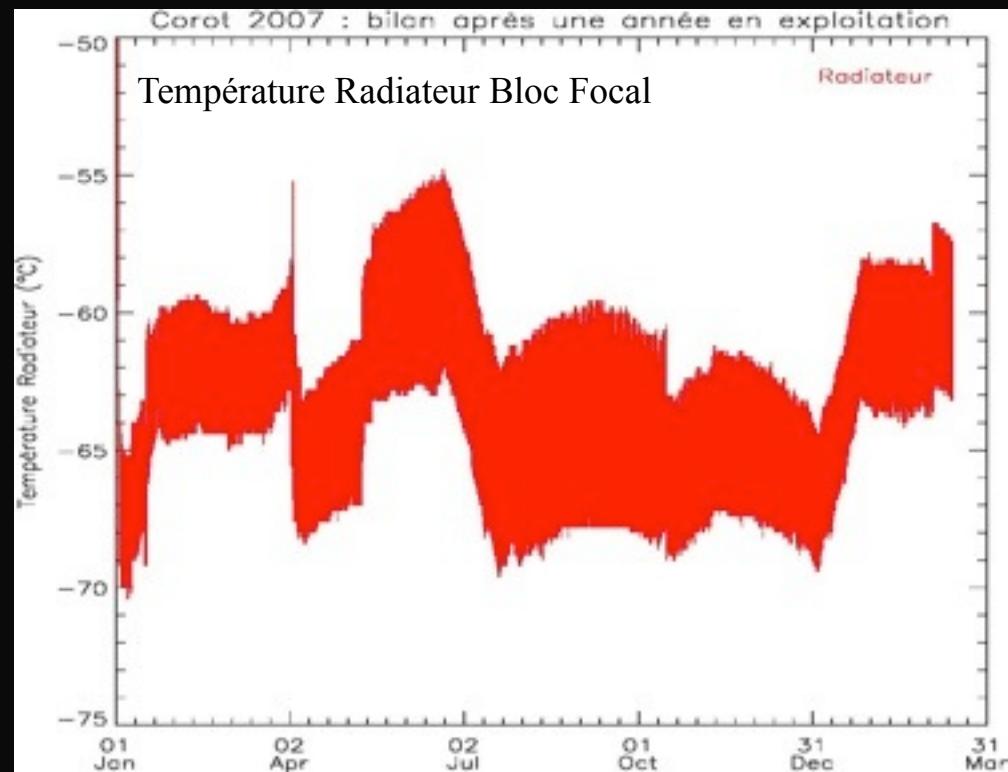
Température Radiateur Bloc Focal

Thermal control of the CCDs



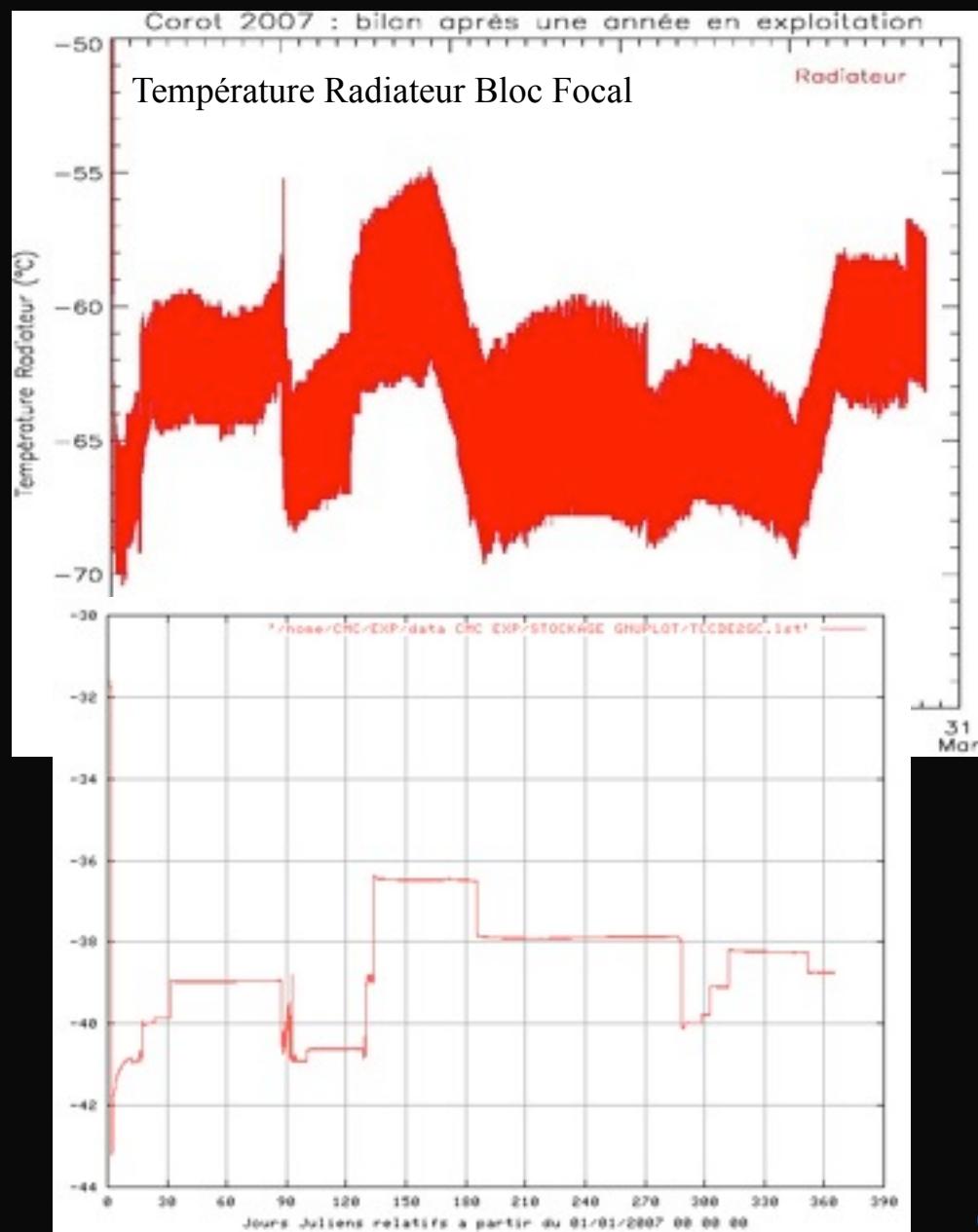
Thermal control of the CCDs

- IRa01 :** 18/01/07 - 02/04/07
- SRc01 :** 07/04/07 - 09/05/07
- LRe01 :** 09/05/07 - 15/10/07
- LRa01 :** 15/10/07 - 03/03/08
- SRa01 :** 03/03/08 -



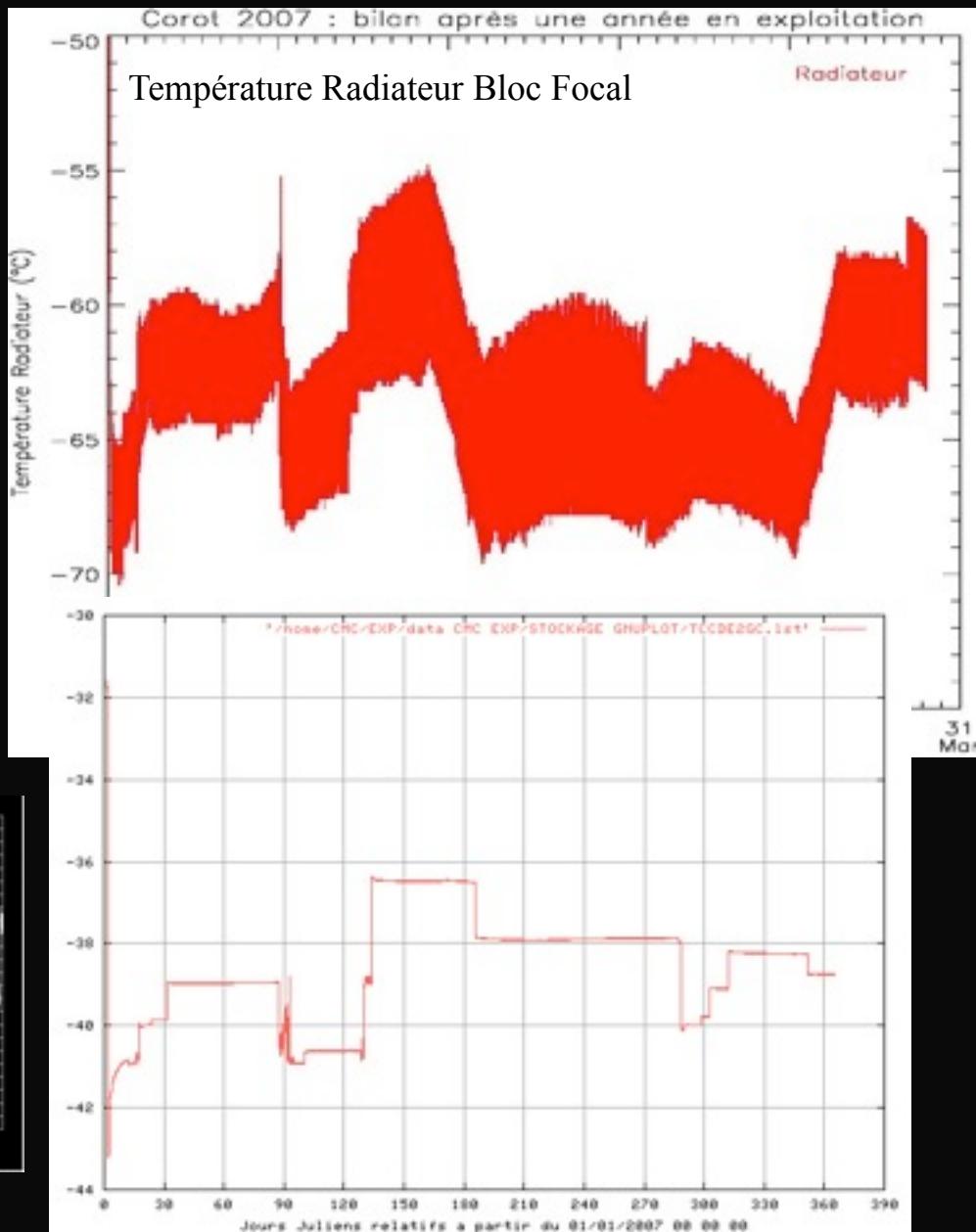
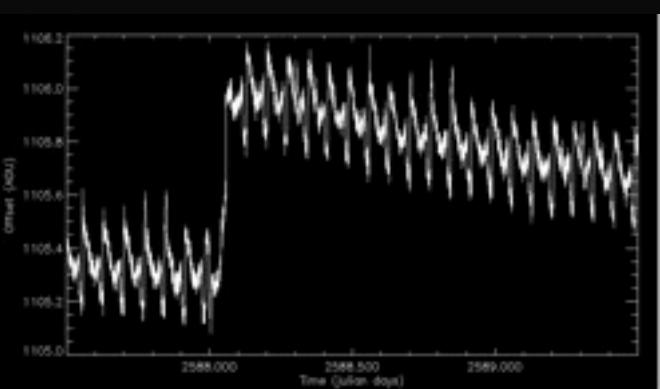
Thermal control of the CCDs

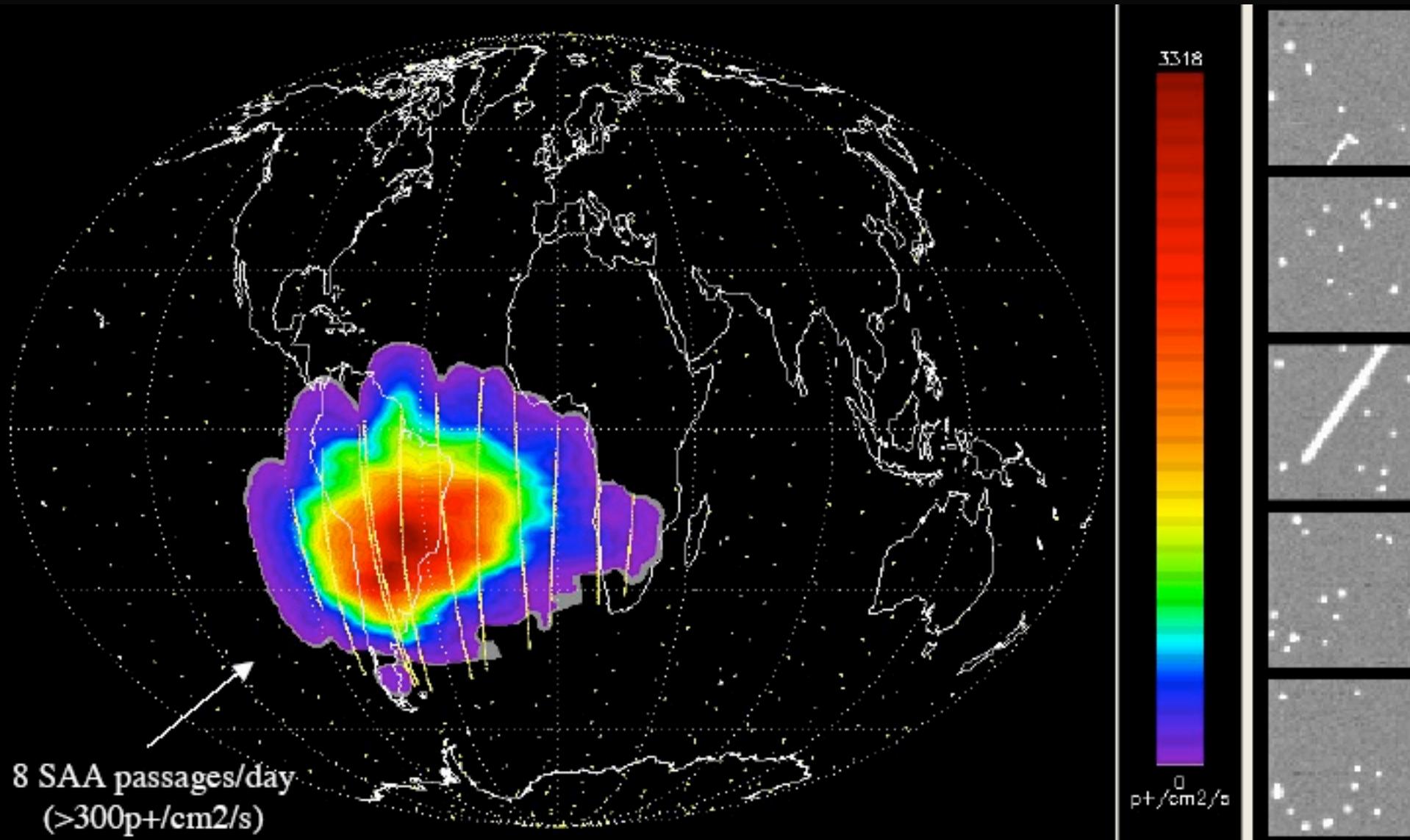
- IRa01 : 18/01/07 - 02/04/07
- SRc01 : 07/04/07 - 09/05/07
- LRe01 : 09/05/07 - 15/10/07
- LRa01 : 15/10/07 - 03/03/08
- SRa01 : 03/03/08 -



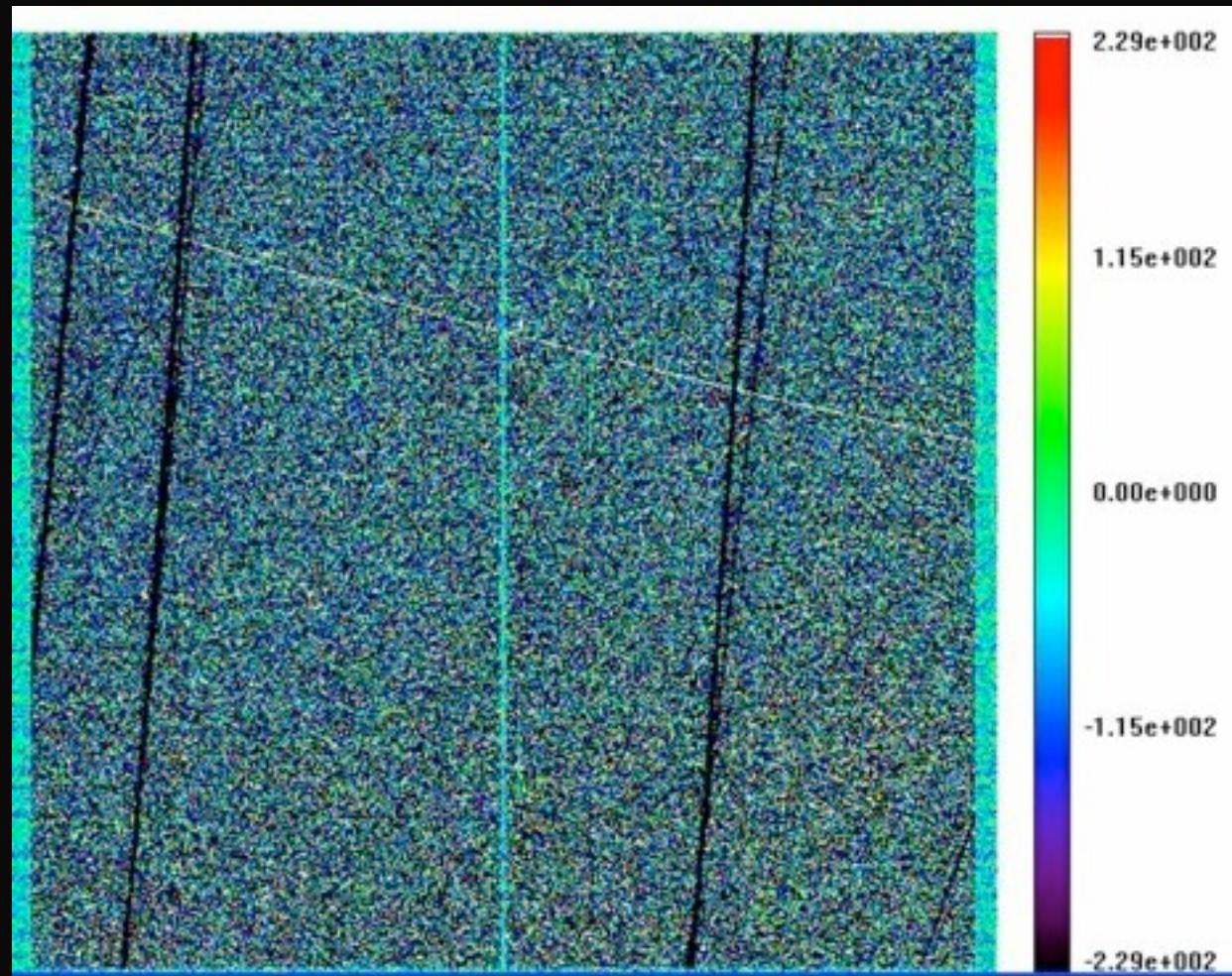
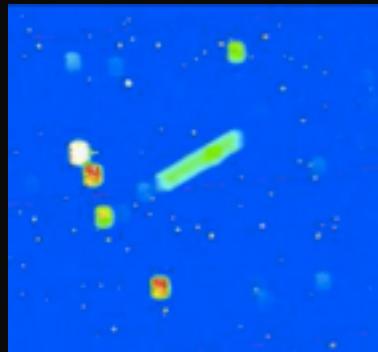
Thermal control of the CCDs

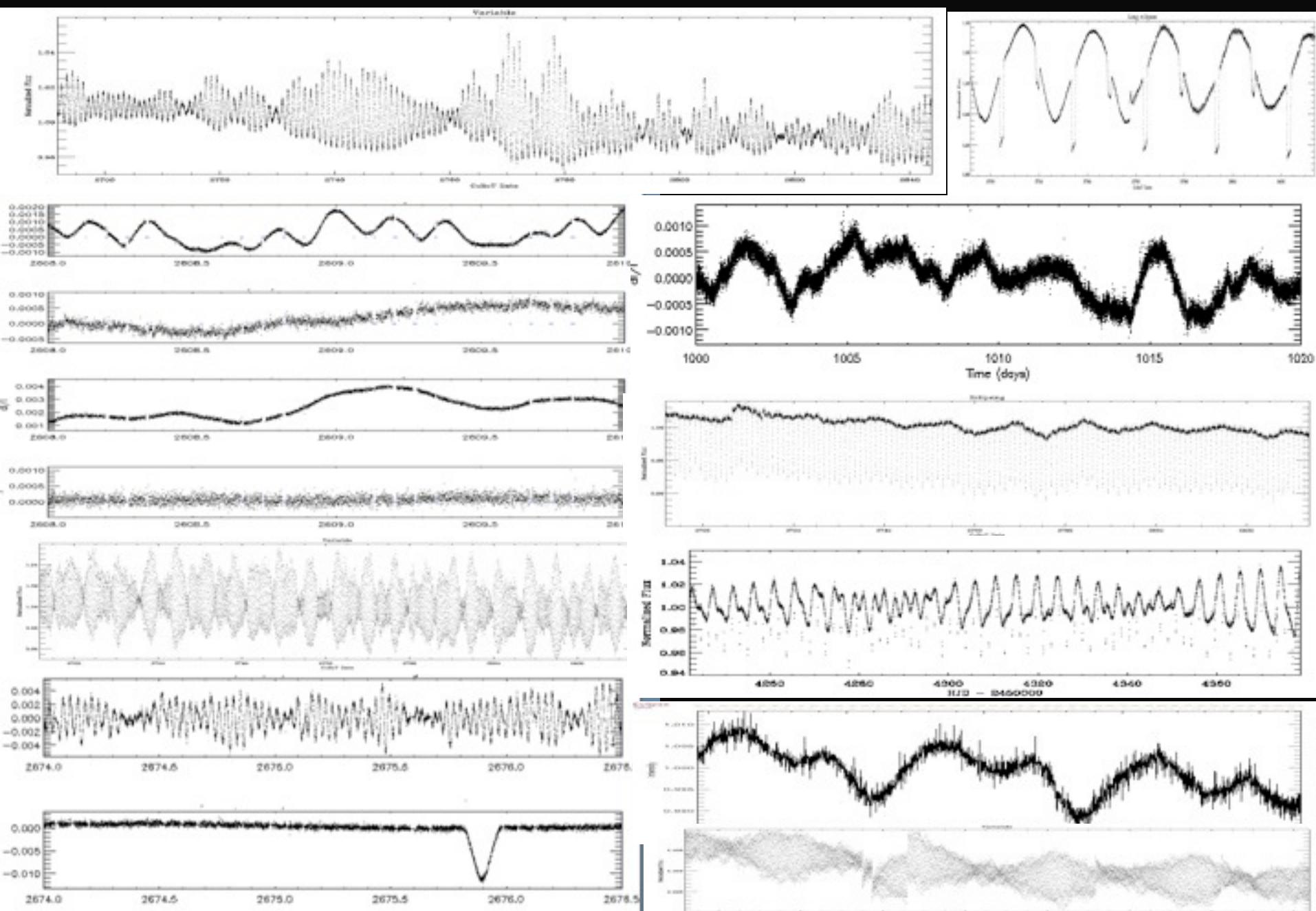
- IRa01 : 18/01/07 - 02/04/07
- SRc01 : 07/04/07 - 09/05/07
- LRe01 : 09/05/07 - 15/10/07
- LRa01 : 15/10/07 - 03/03/08
- SRa01 : 03/03/08 -



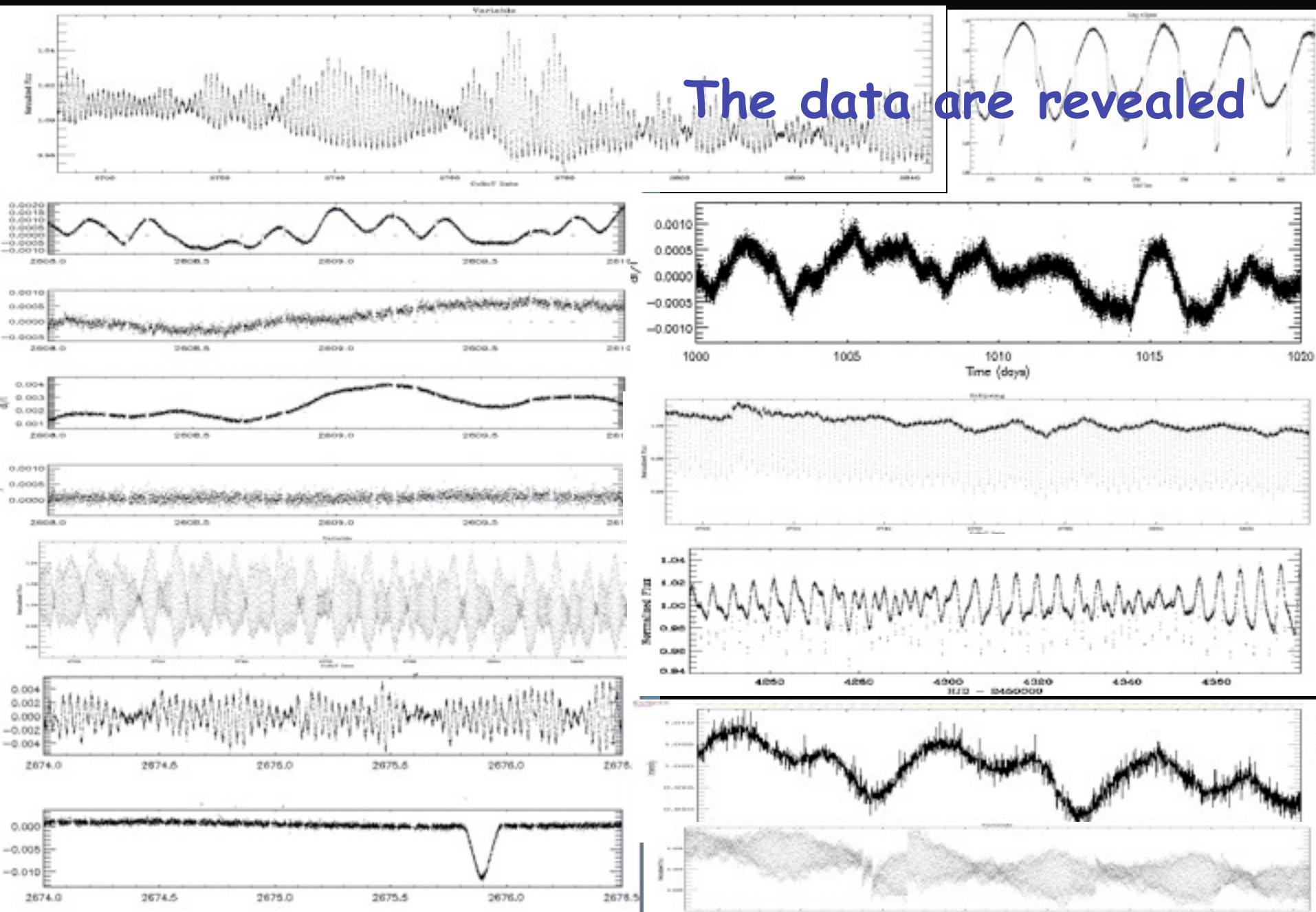


Some “intruders” in the data

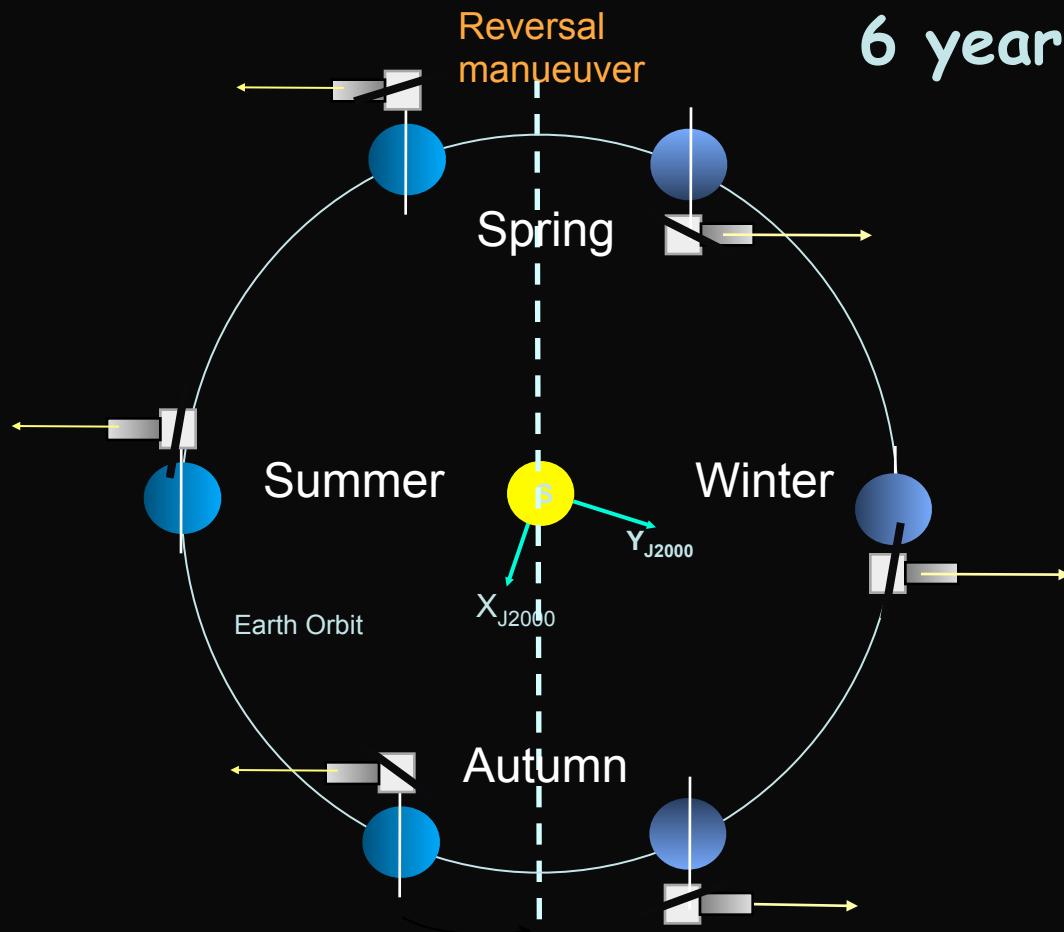




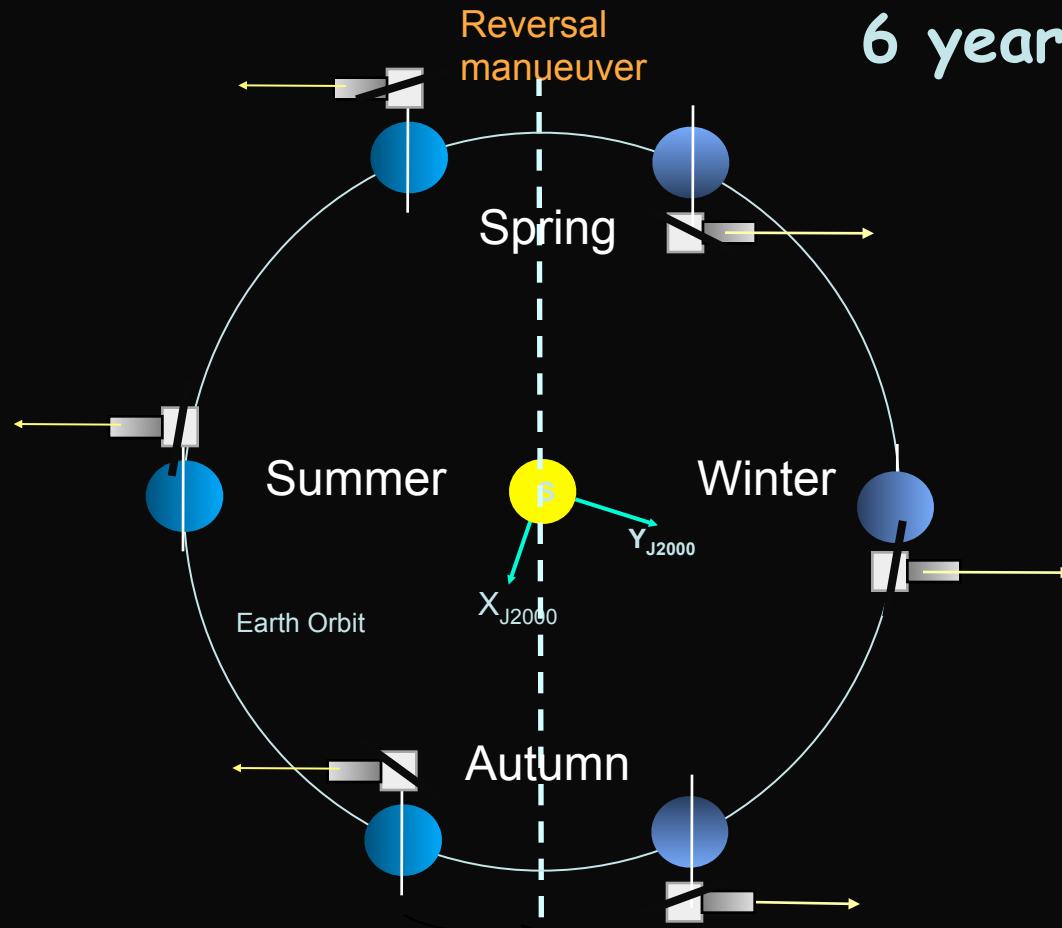
The data are revealed



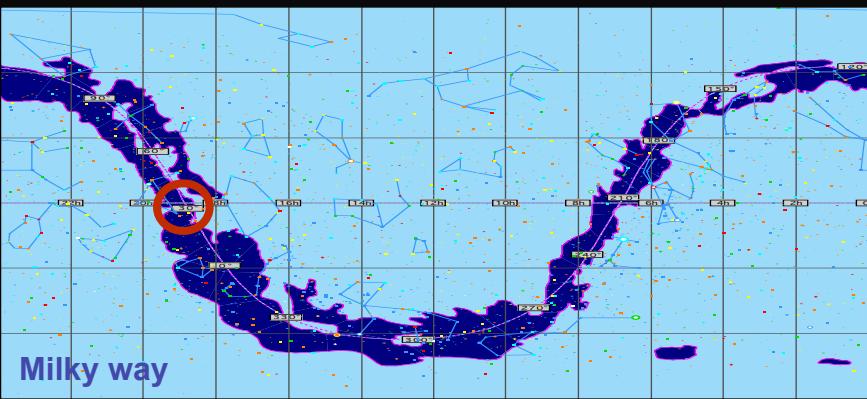
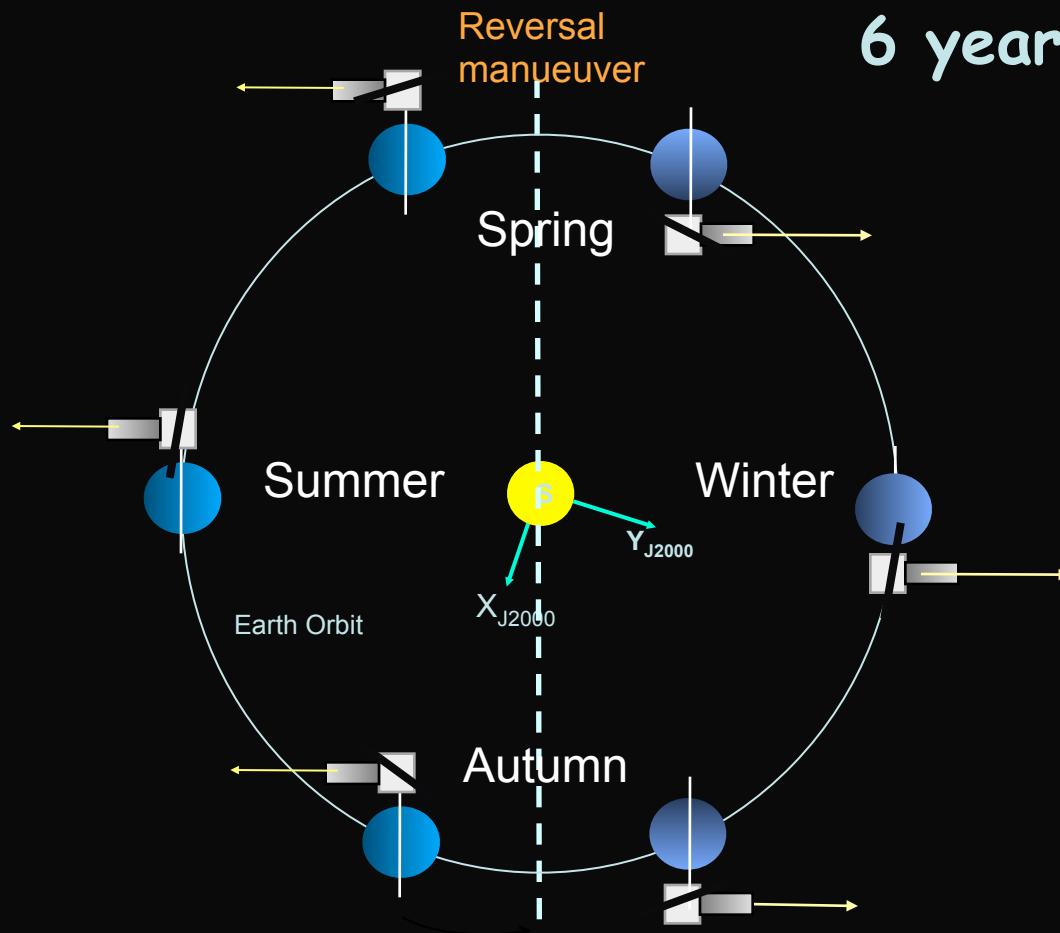
6 years of operations



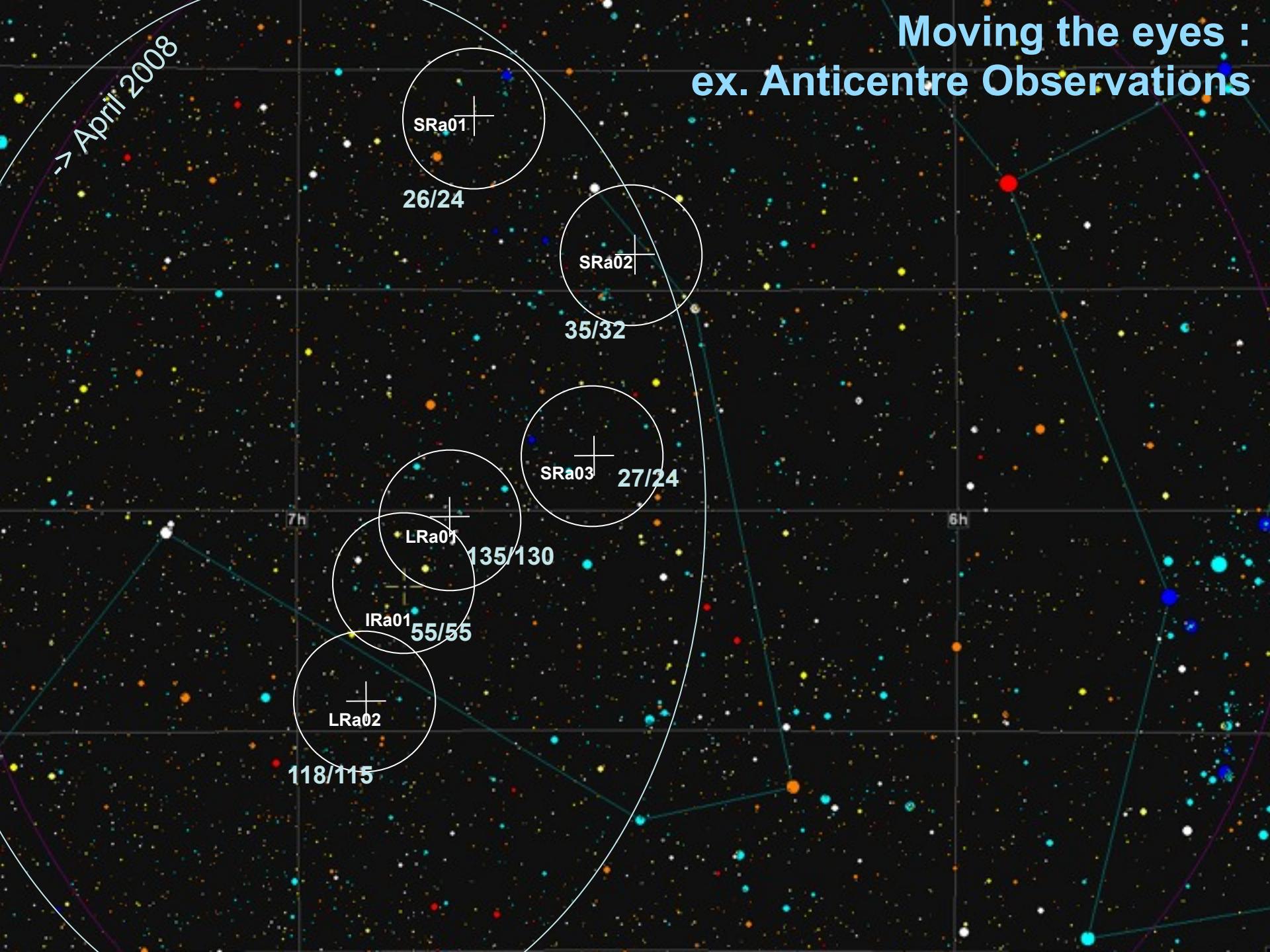
6 years of operations



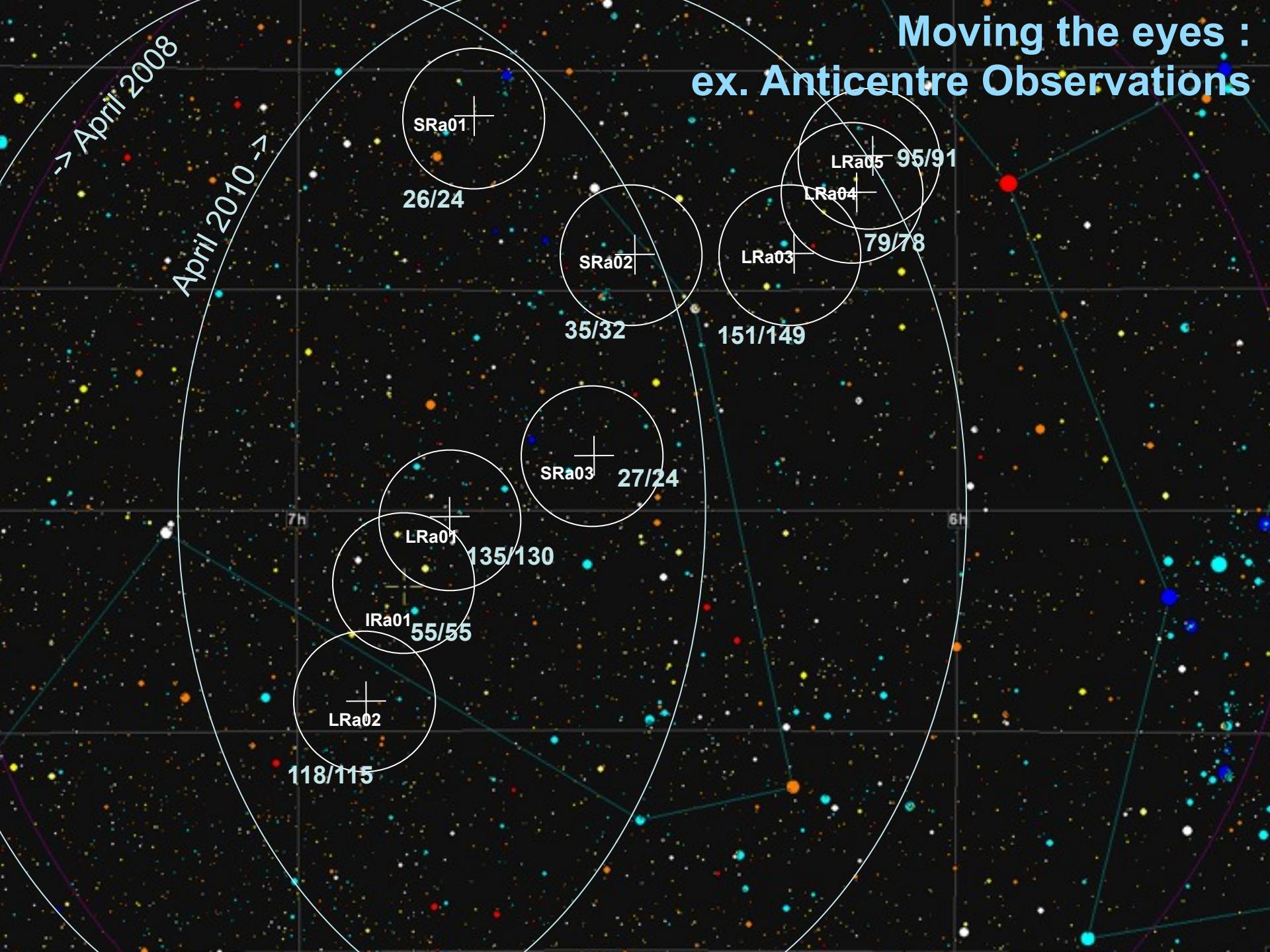
6 years of operations



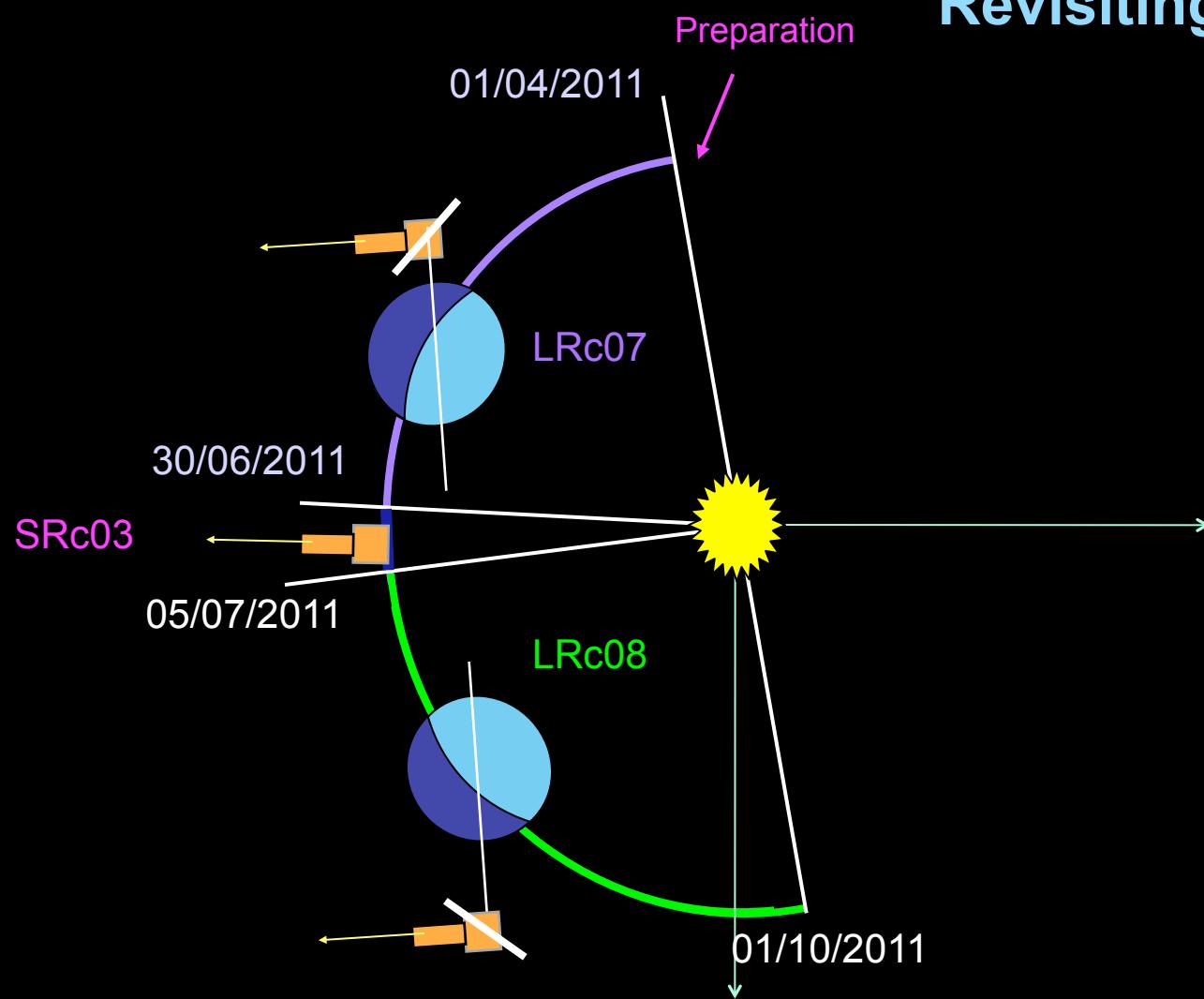
Moving the eyes : ex. Anticentre Observations



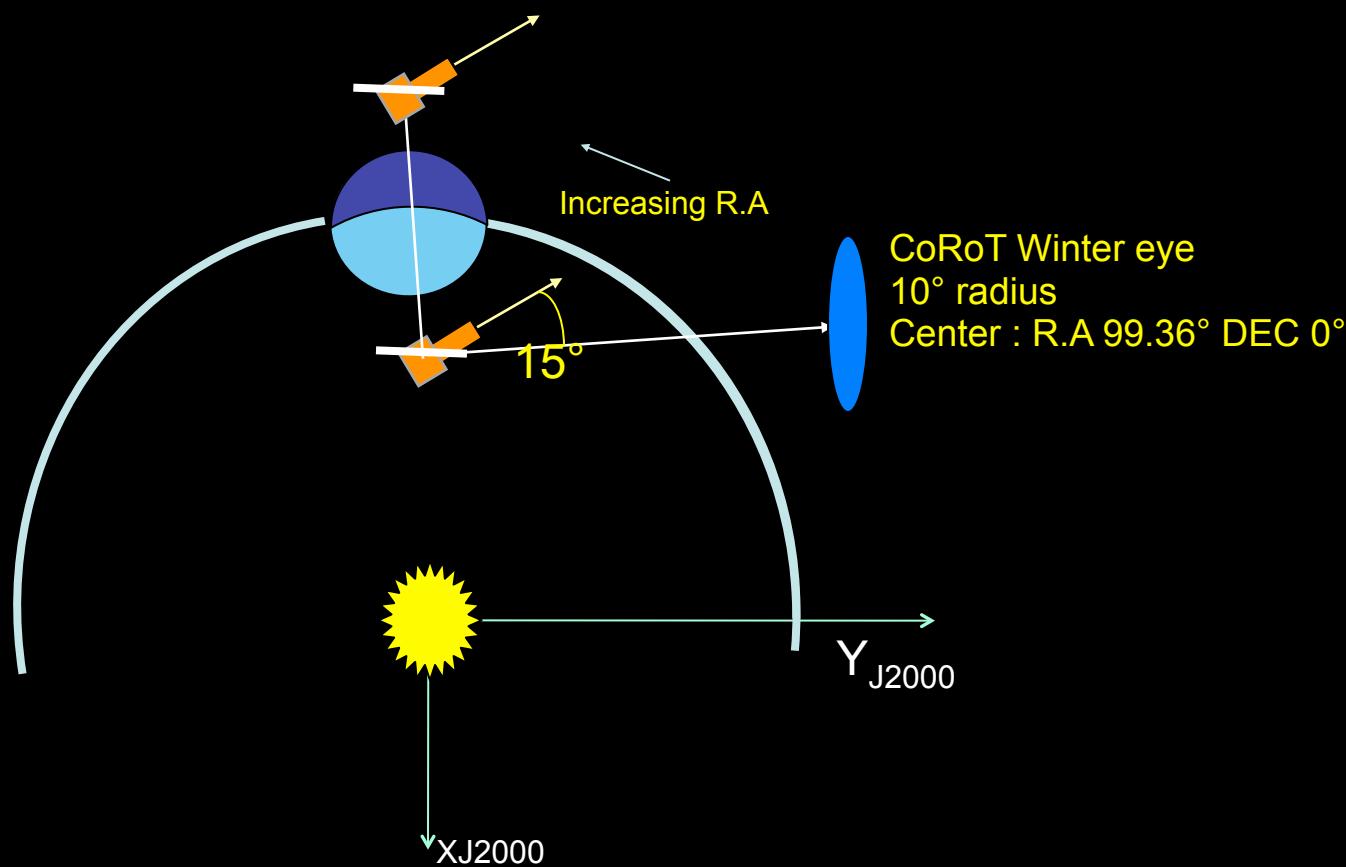
Moving the eyes : ex. Anticentre Observations



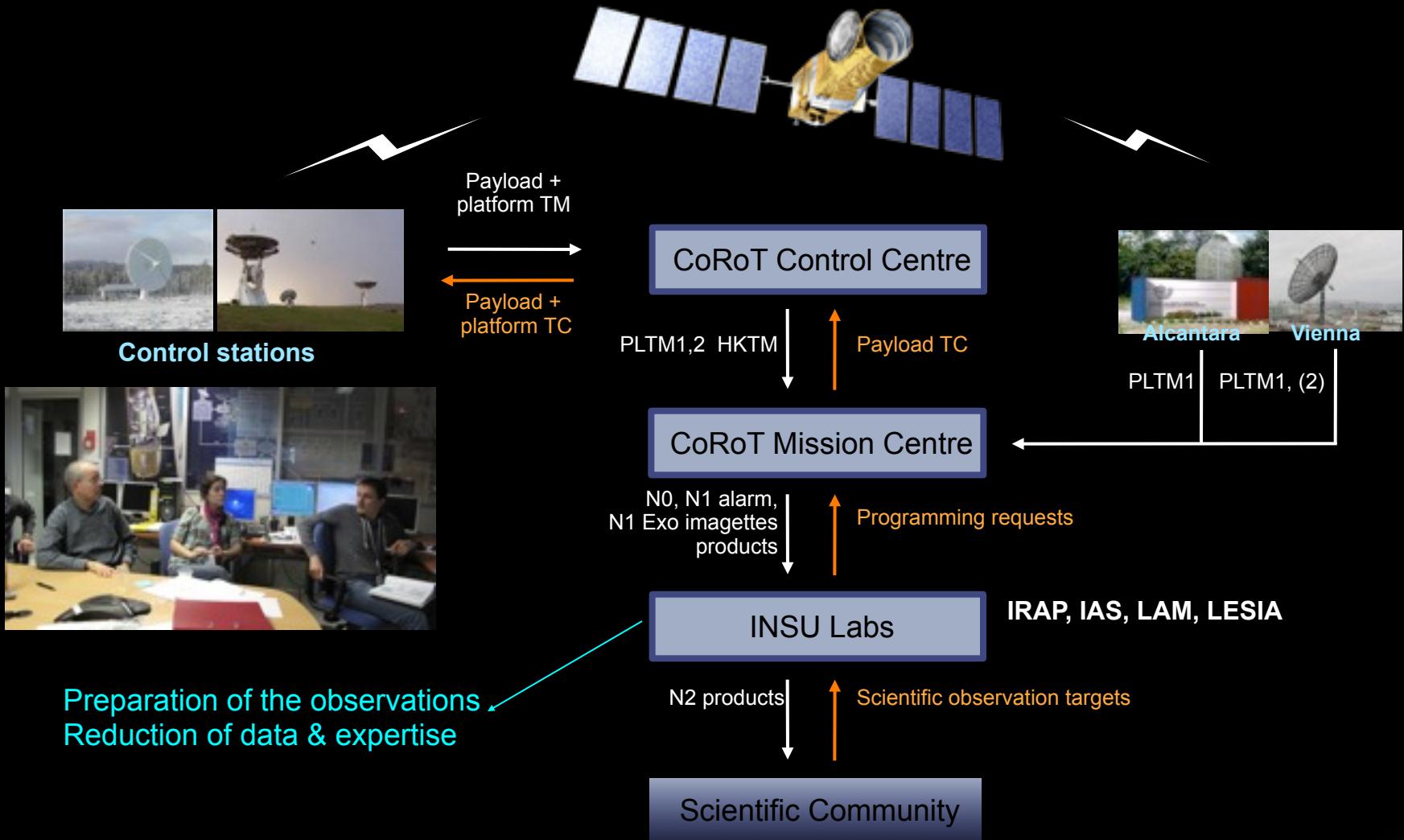
Some extras : Revisiting Corot 9b



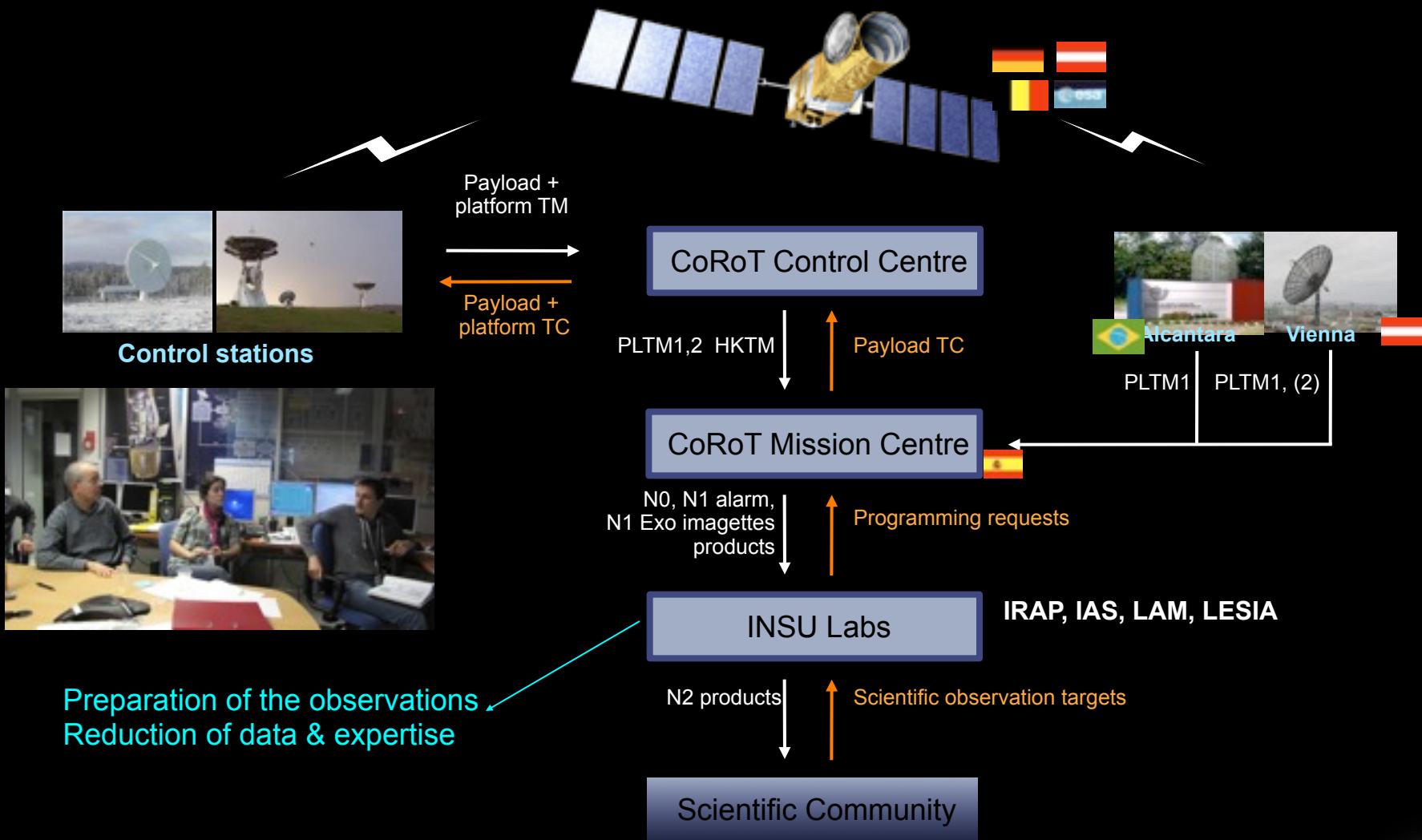
Enlarging CoRoT eyes



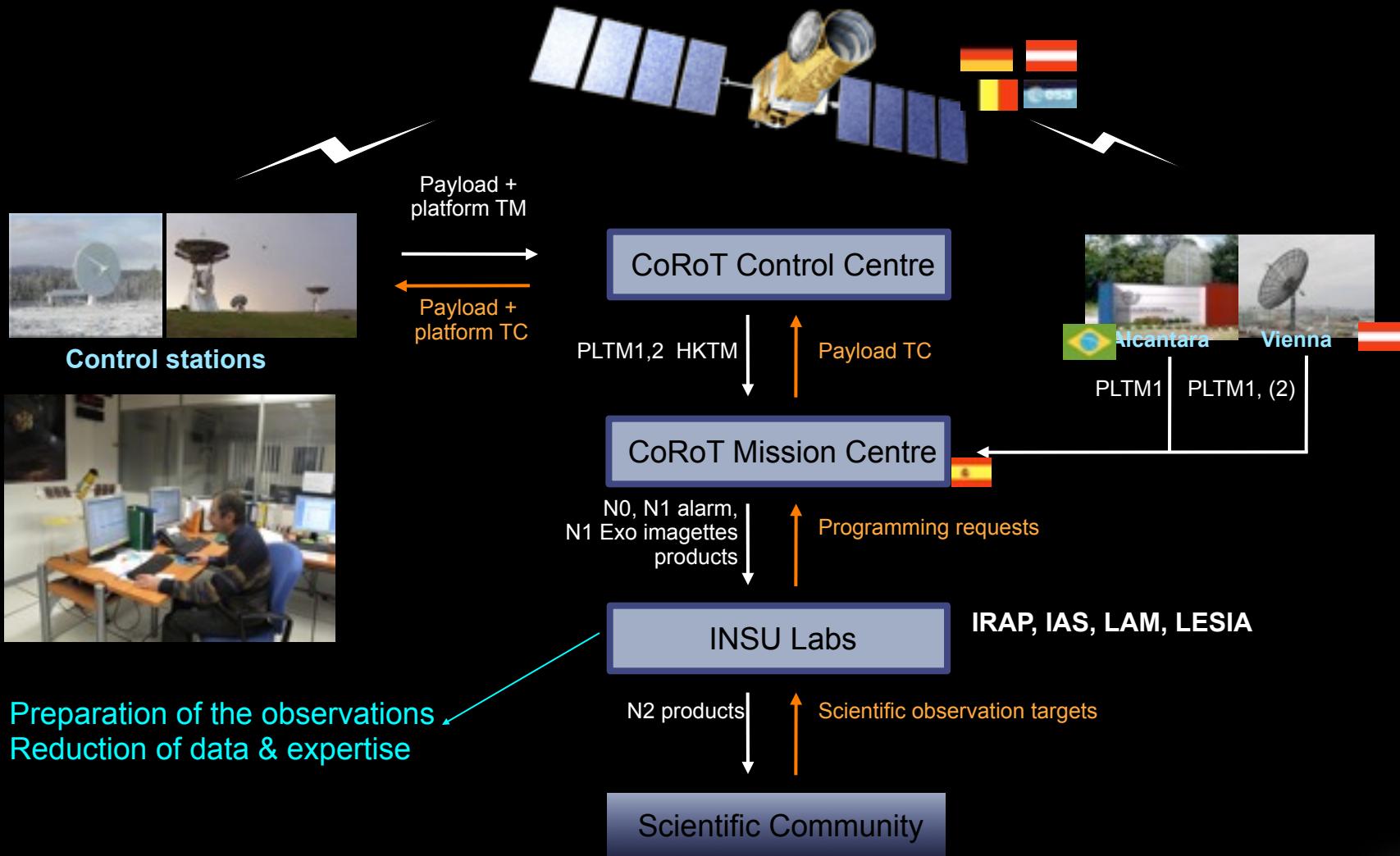
Behind the data : CoRoT System & Technical organisation



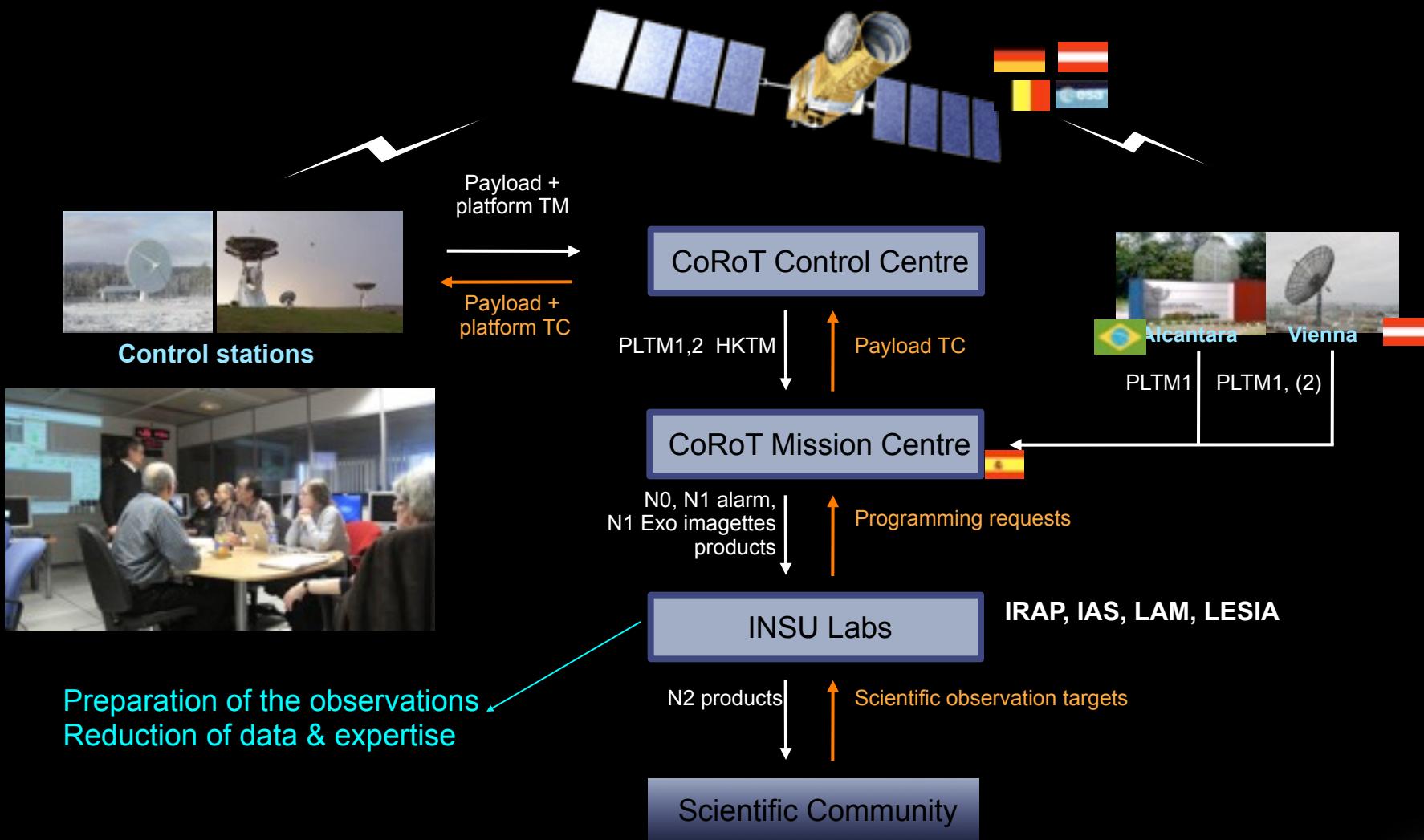
Behind the data : CoRoT System & Technical organisation



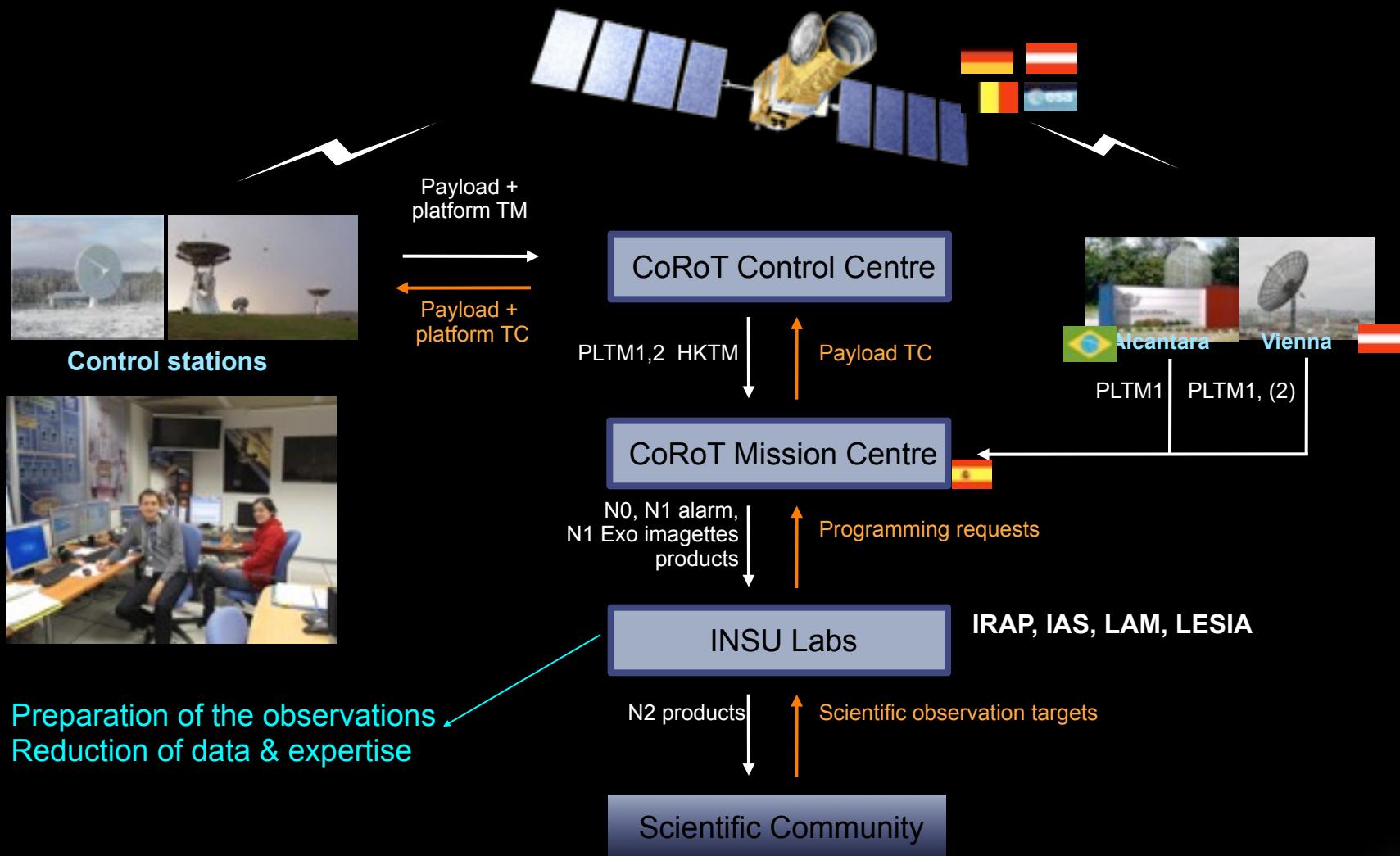
Behind the data : CoRoT System & Technical organisation



Behind the data : CoRoT System & Technical organisation



Behind the data : CoRoT System & Technical organisation



25 Scientific Runs completed
165 stellar observations on Seismology channel
172000 stellar observations on Exoplanet channel

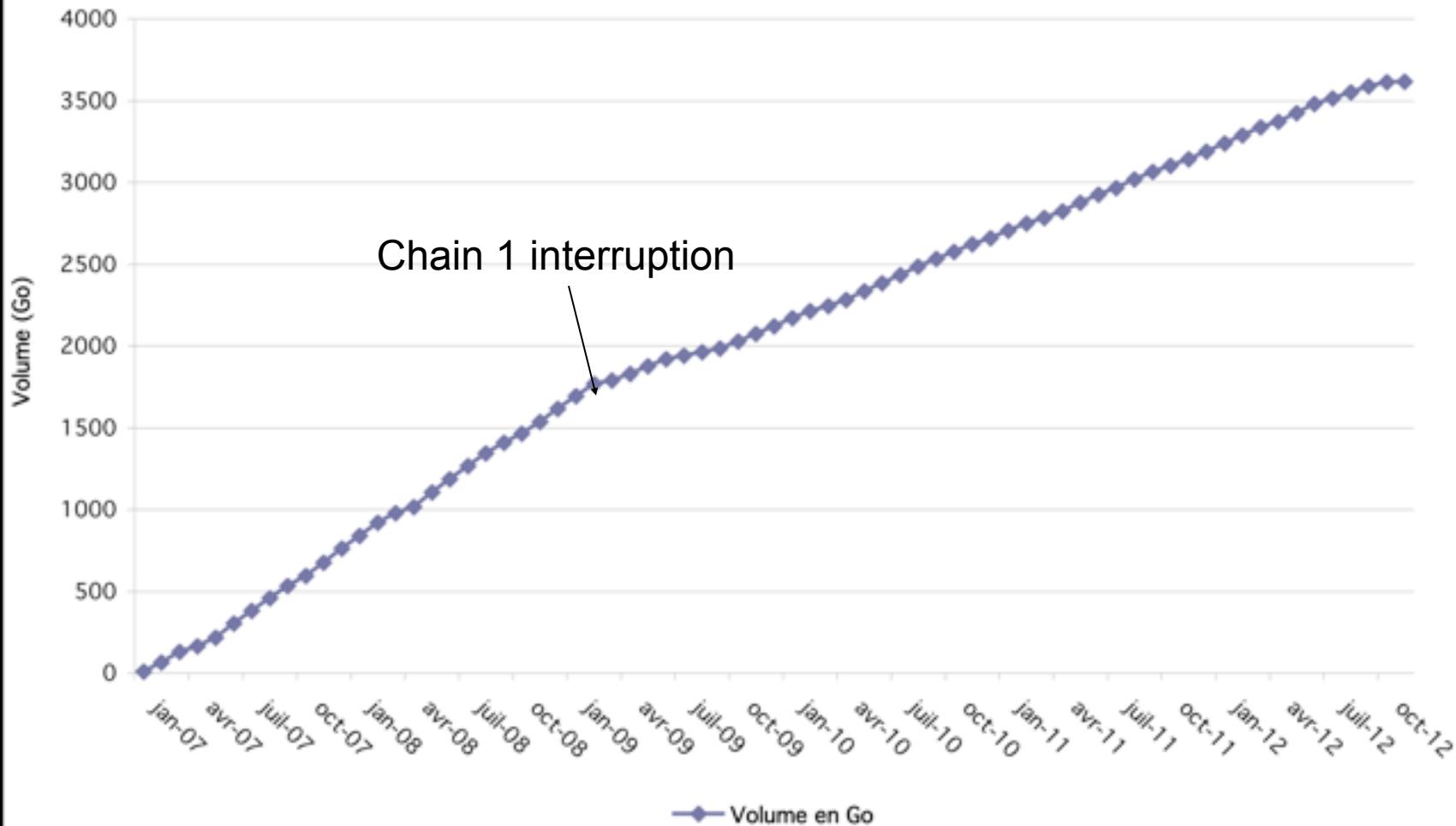


A continuous process of improvement : preparation of the observations, operations, data production & reduction, data quality monitoring

2274 days in space

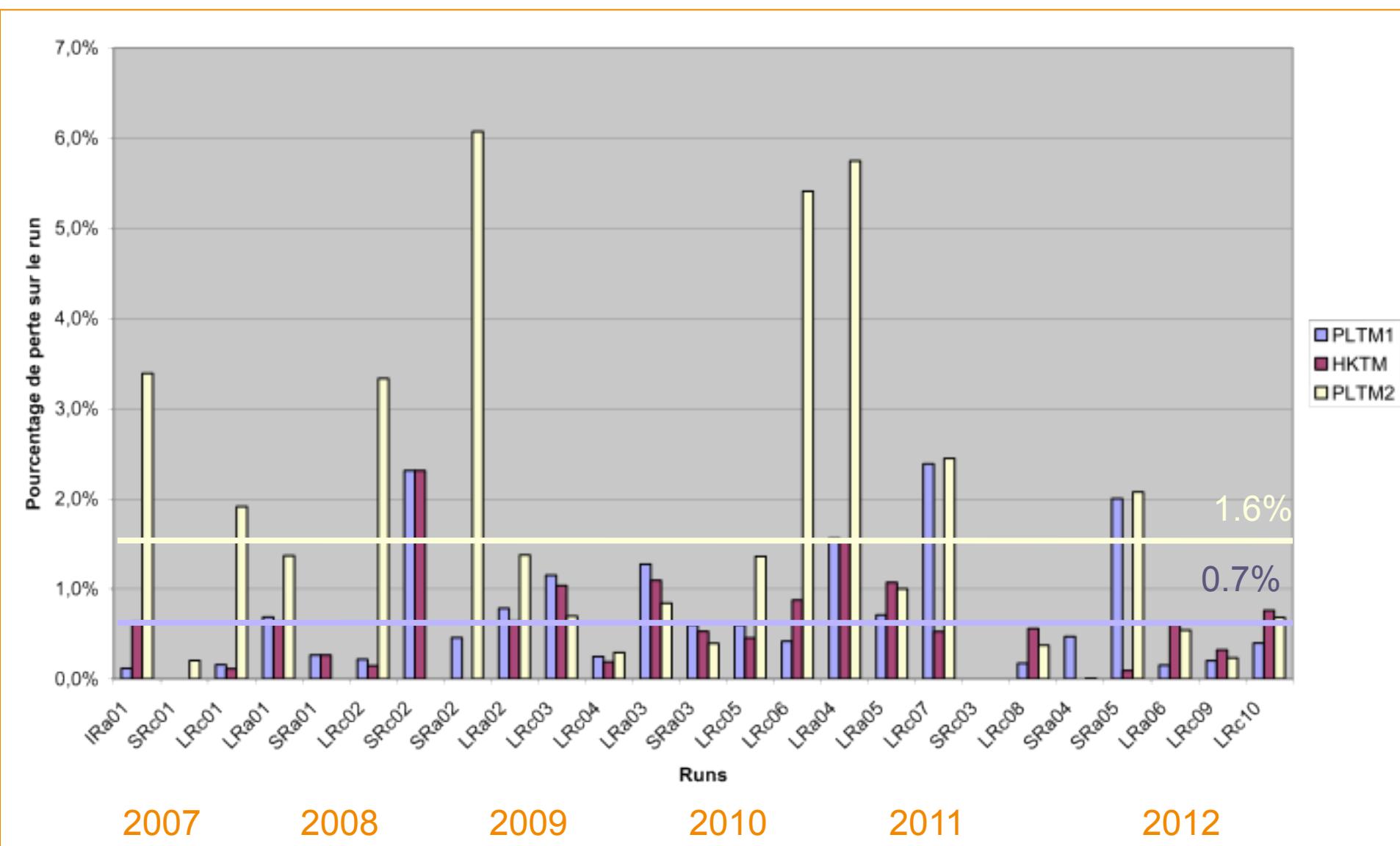
Commissioning	22 days	1%	26 Runs, 2 drift maneuvers, 4 SW uploads, PF maintenance, DPU1&2 tests, techno acquisitions
Operations and mission standby	178 days	7.8%	
P/F Unavailability	0	0.0%	
P/L Unavailability	155 days	6.8%	Chains 1 & 2
Observations (EXO)	1919 days	84.4%	
<hr/>			
Total	2274 days	100.0%	

Volumétrie accumulée des Produits N0 diffusés



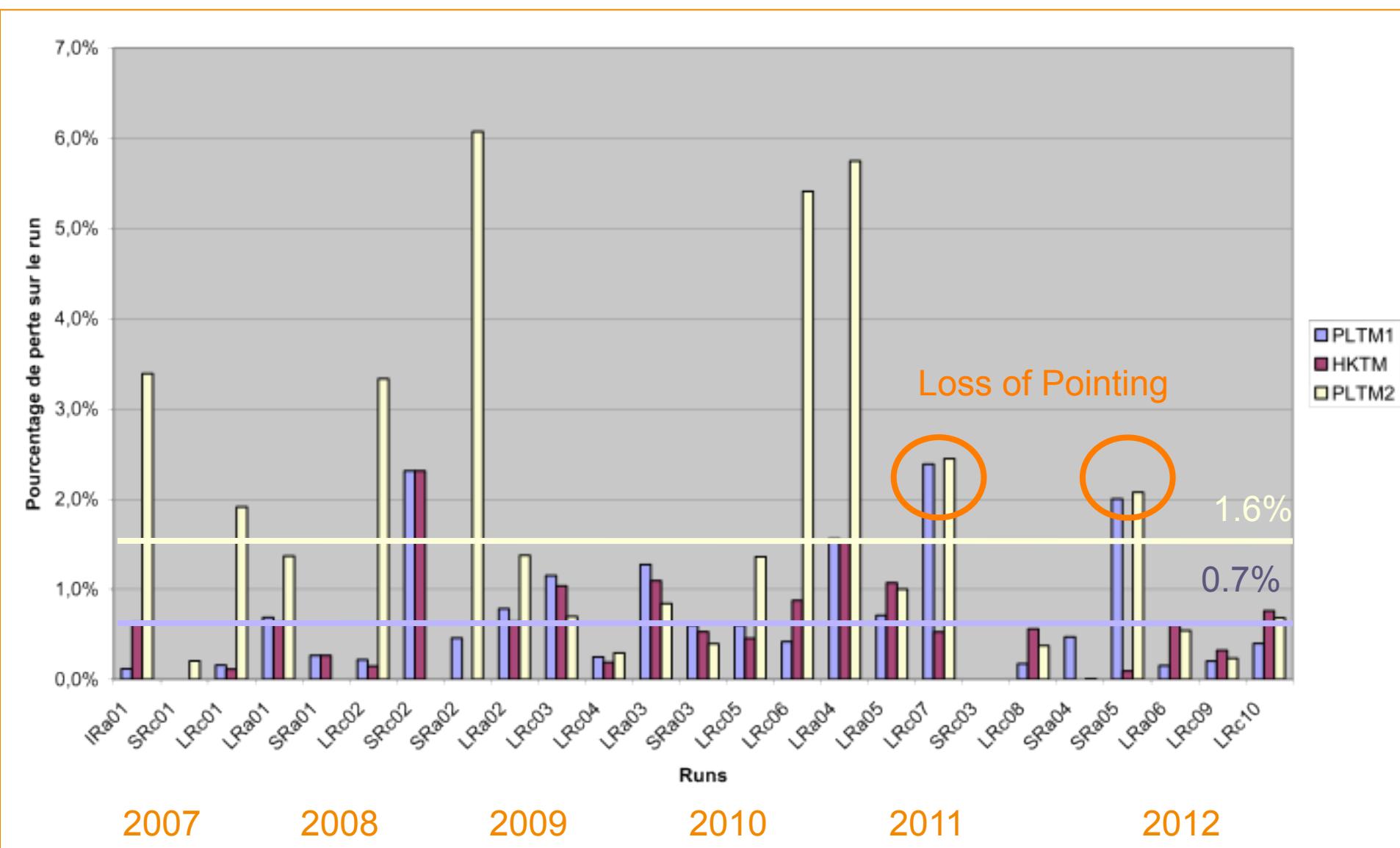
Data Loss

Run



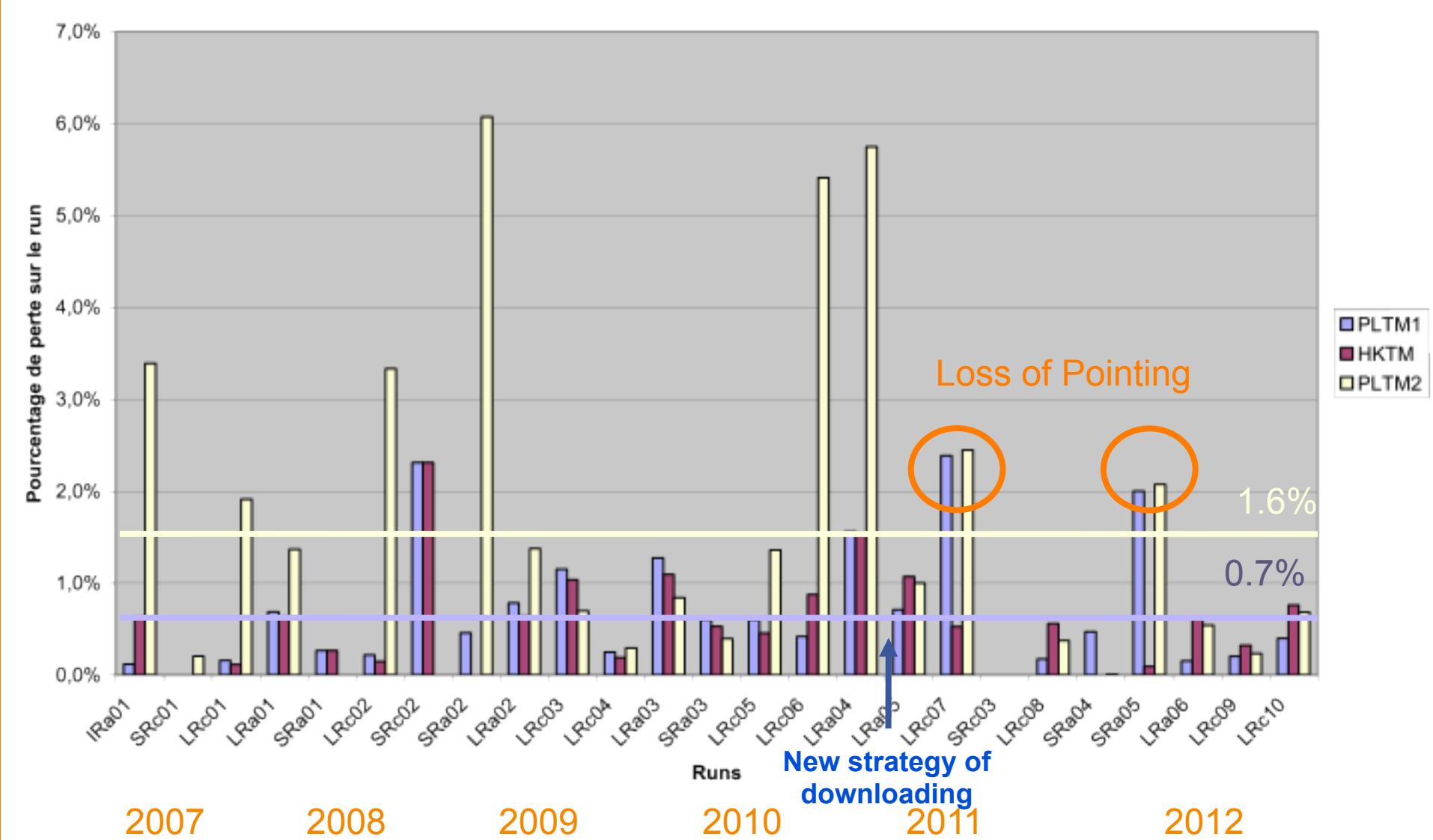
Data Loss

Run



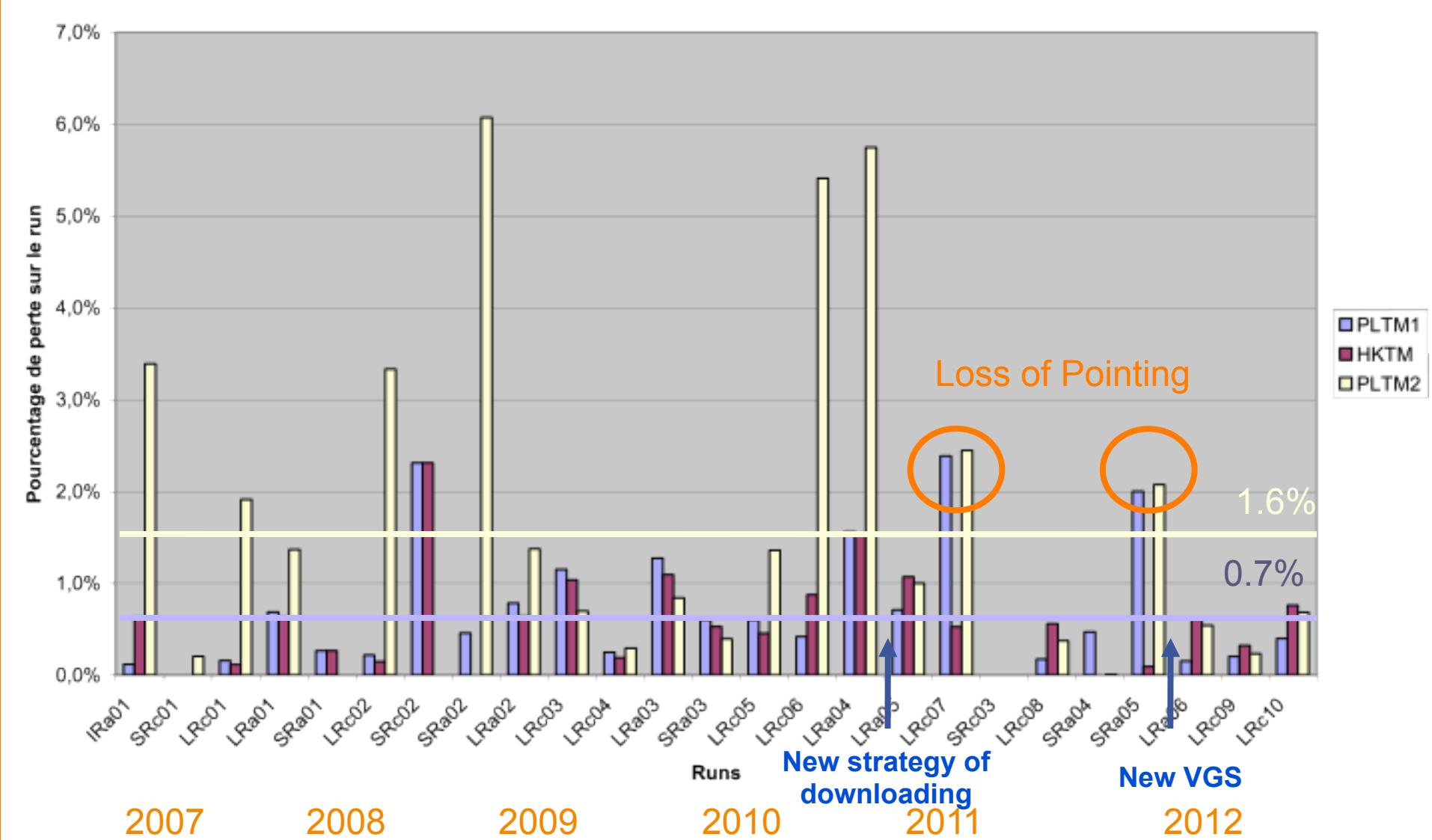
Data Loss

Run



Data Loss

Run





2007

2008

2009

2010

2011

2012

2013



A process of mngt of the project , annual review of exploitation



2007

2008

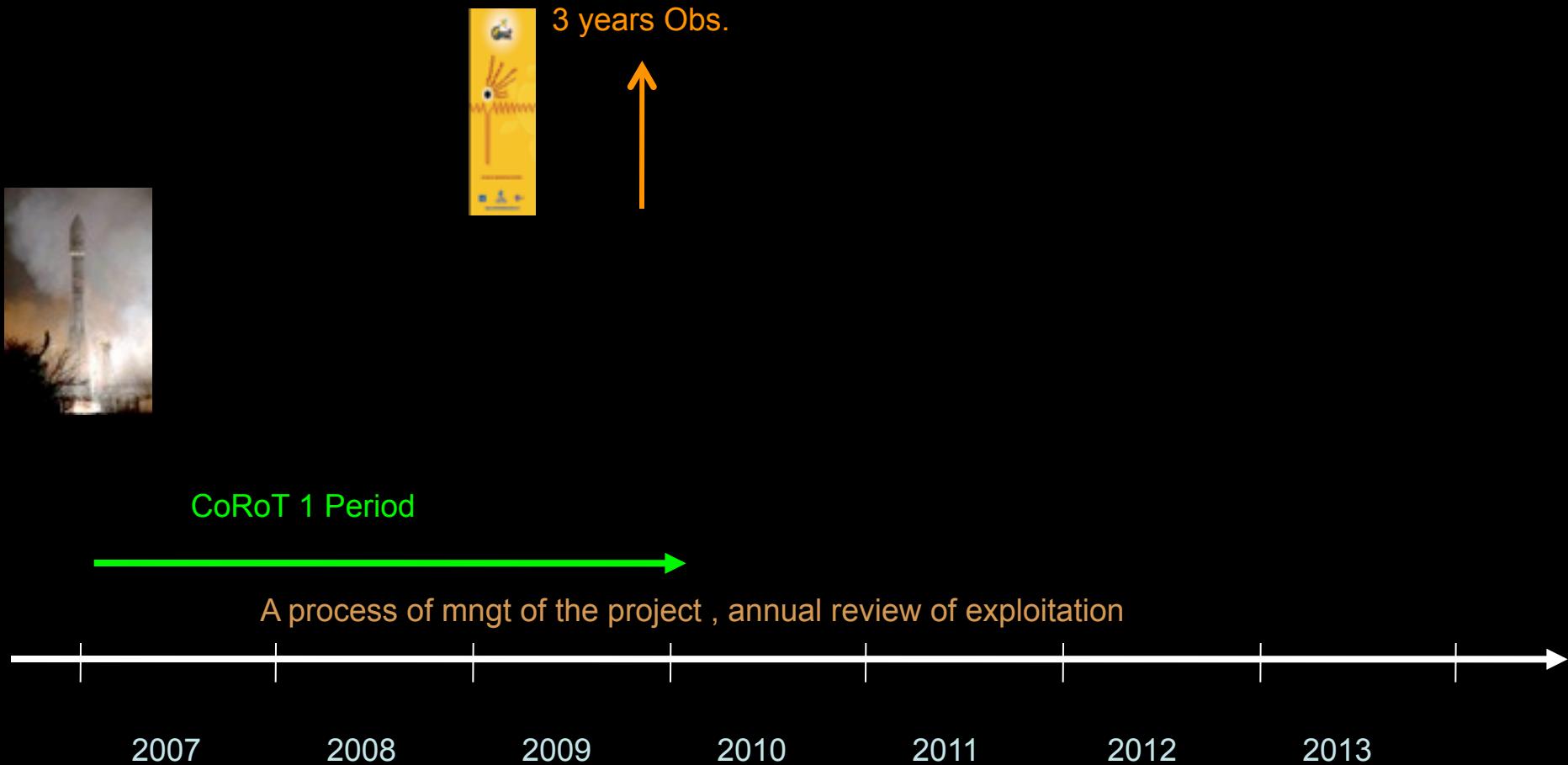
2009

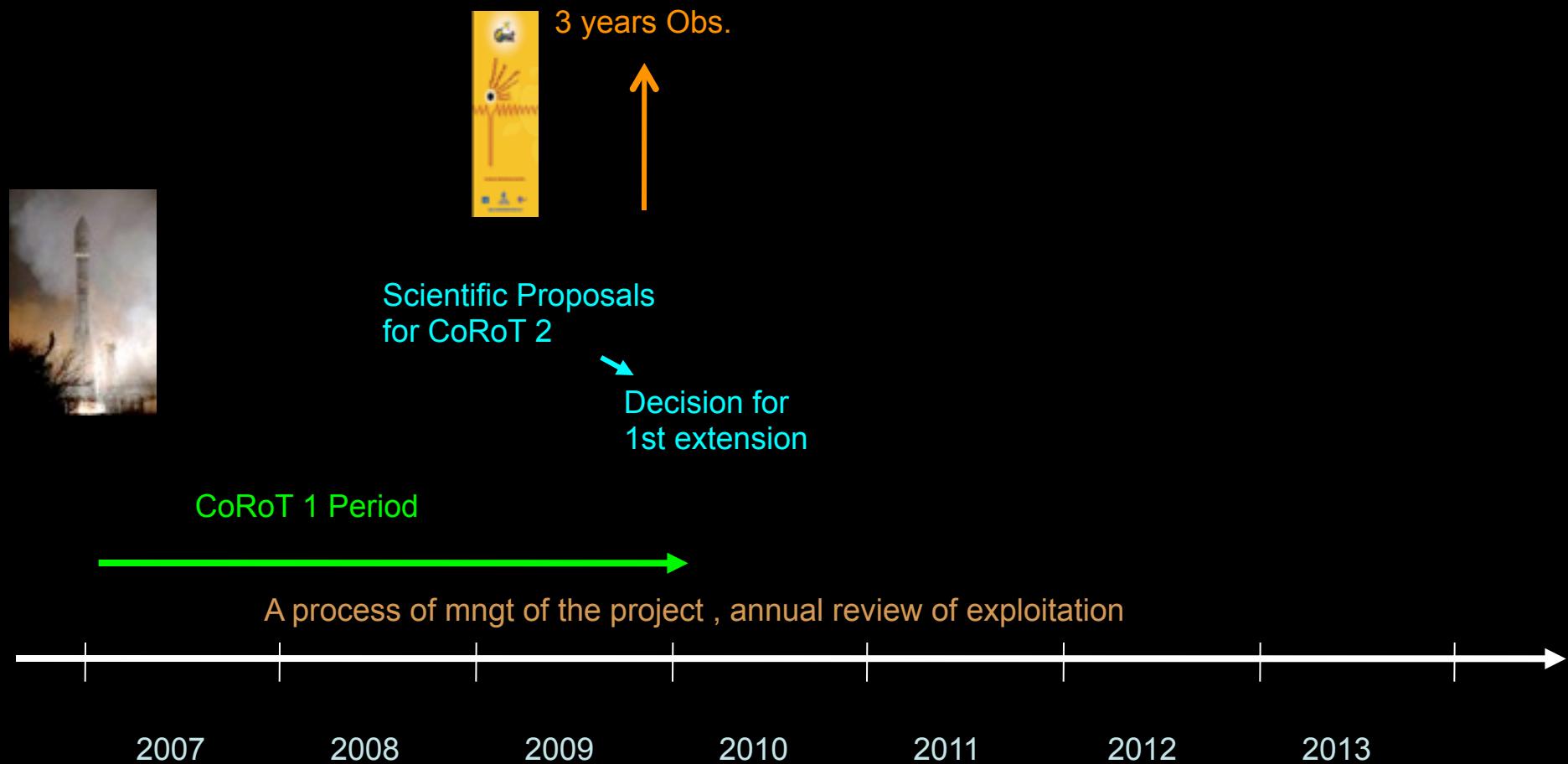
2010

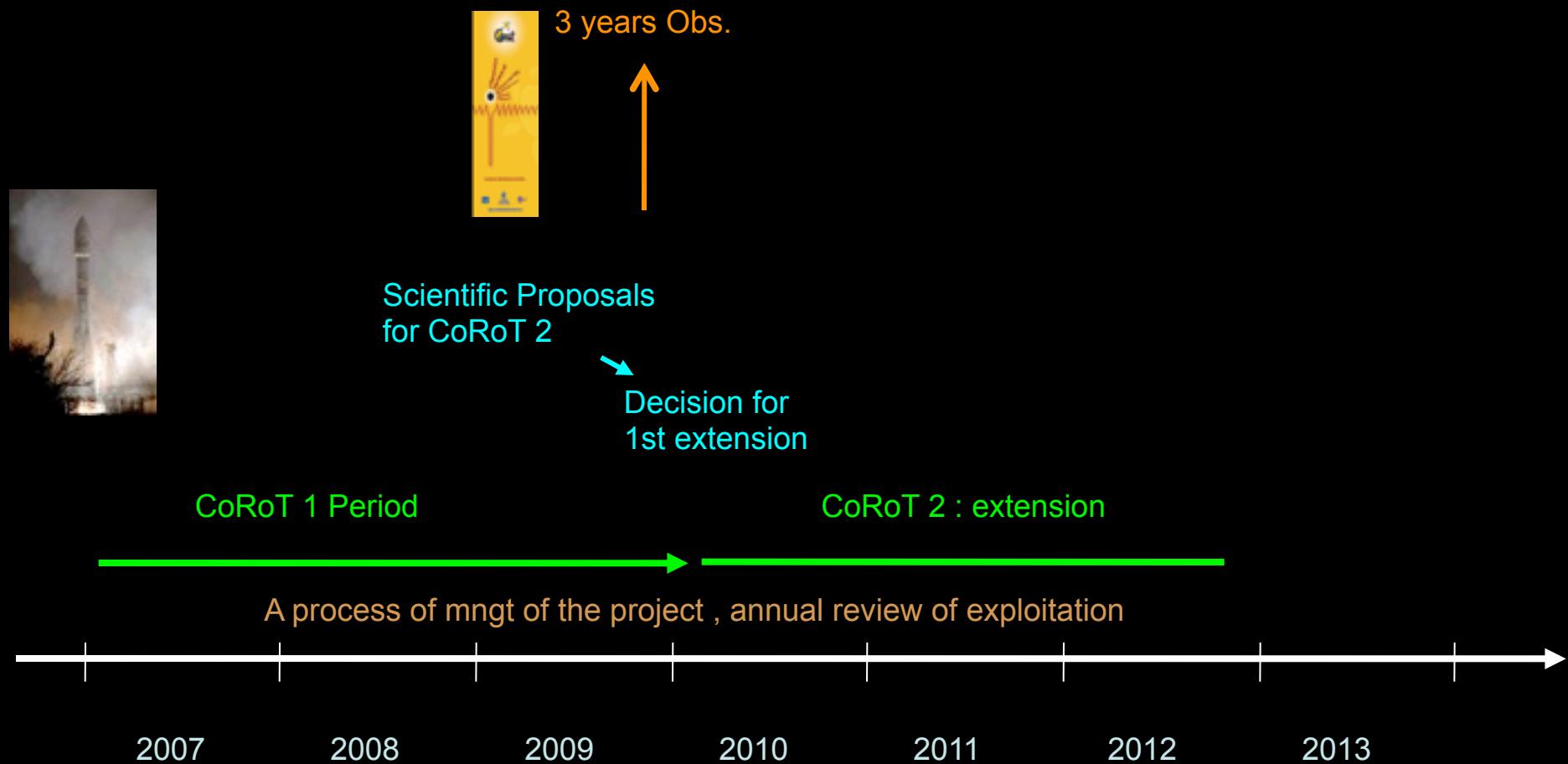
2011

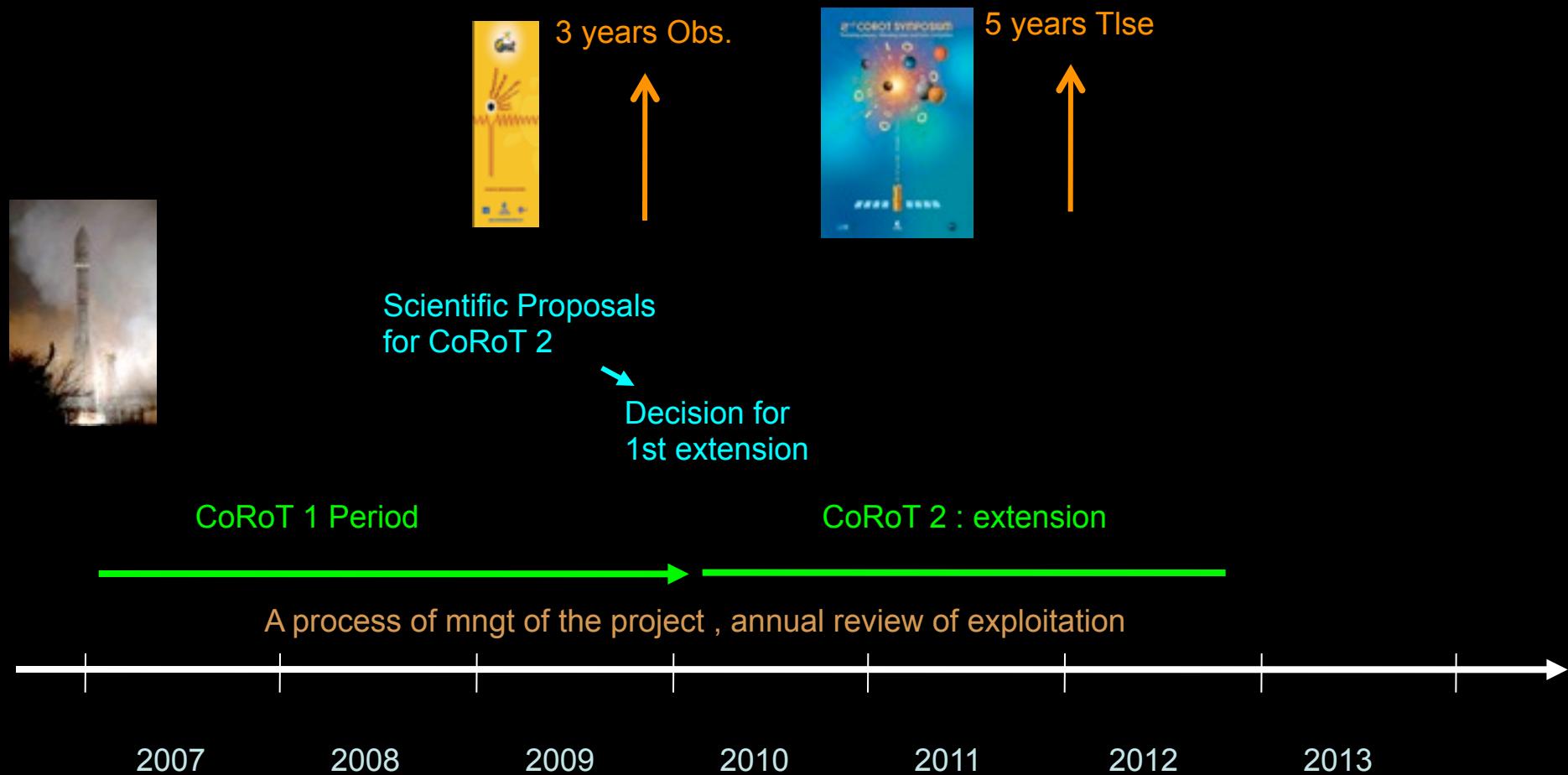
2012

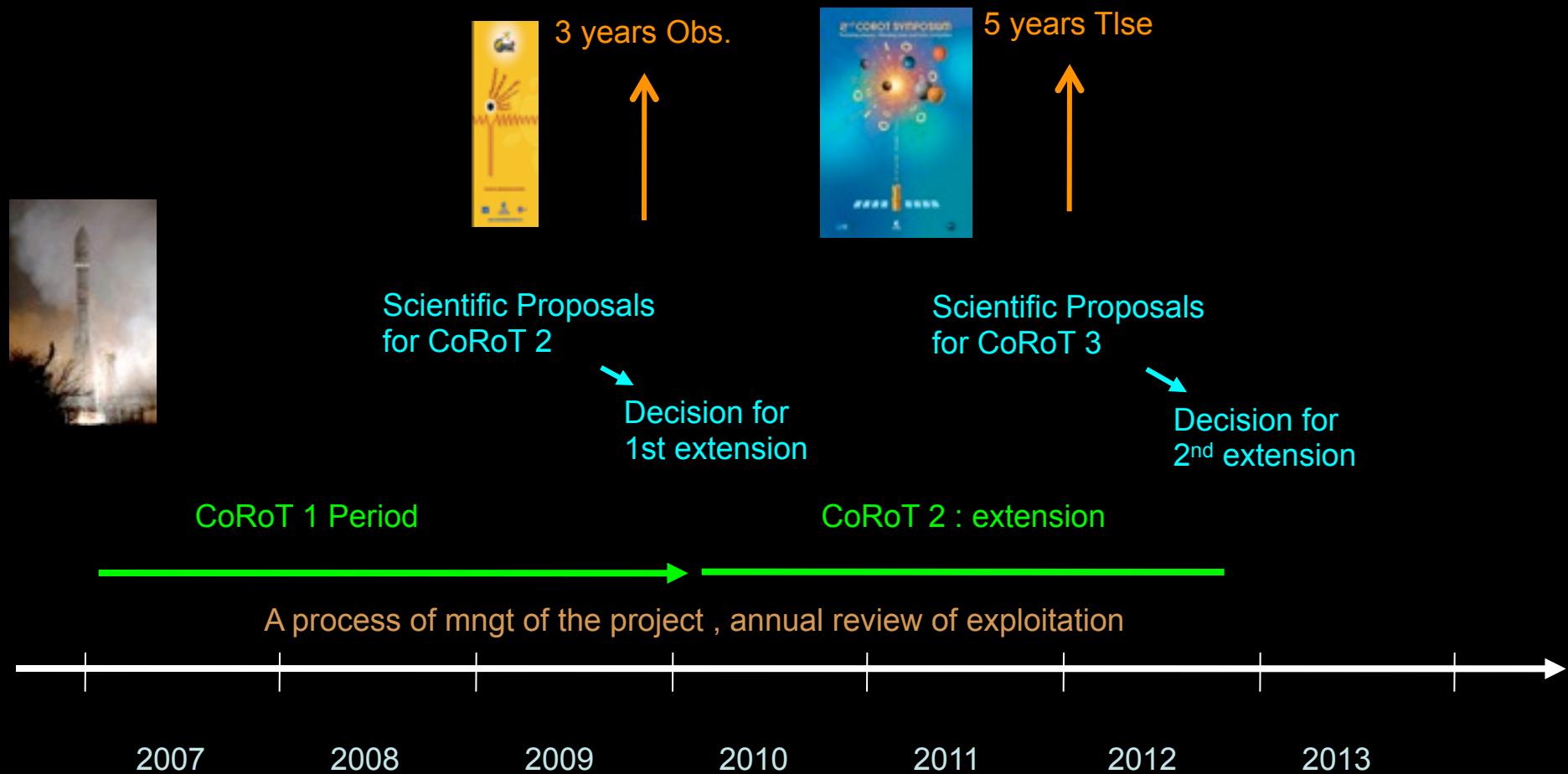
2013



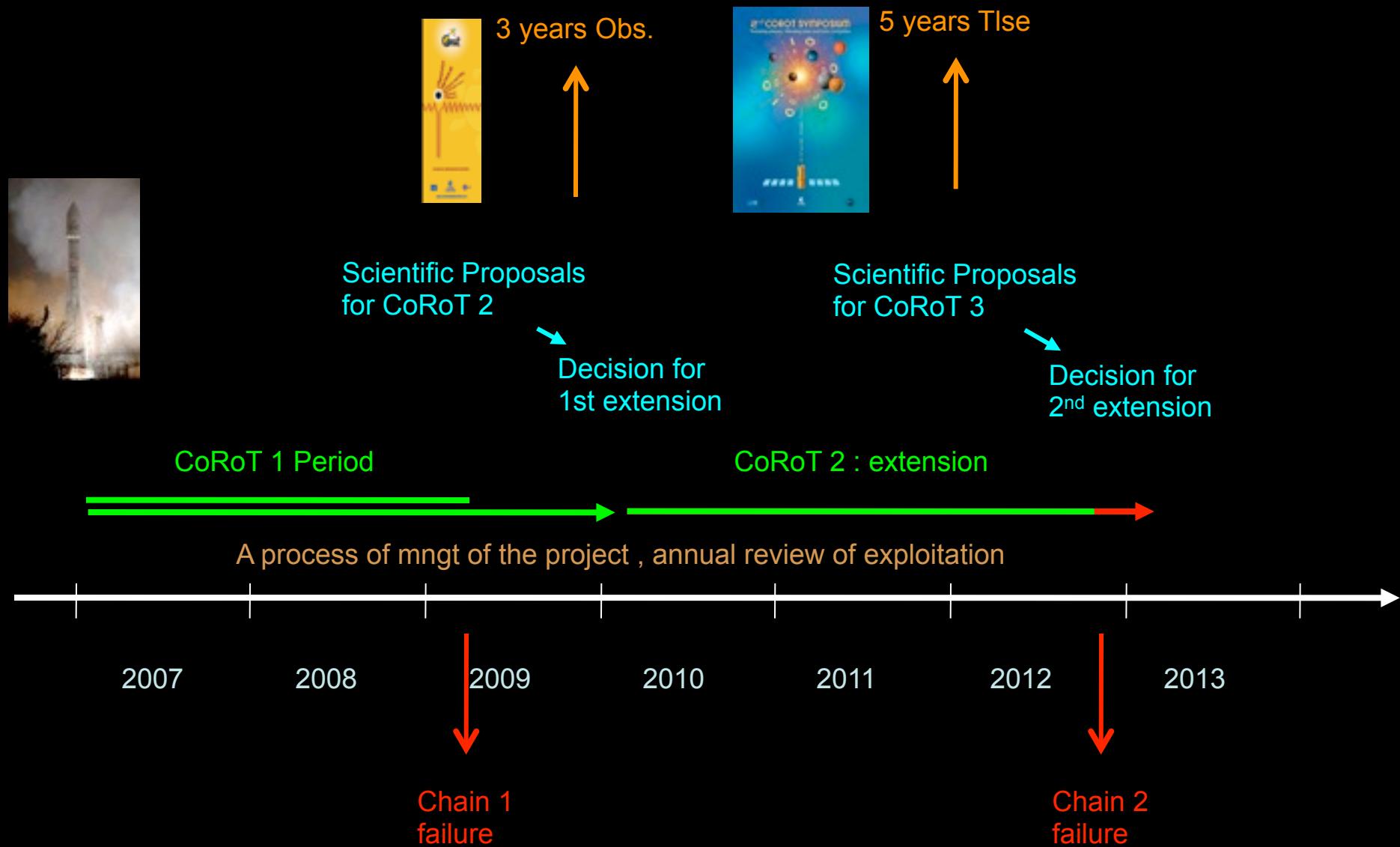




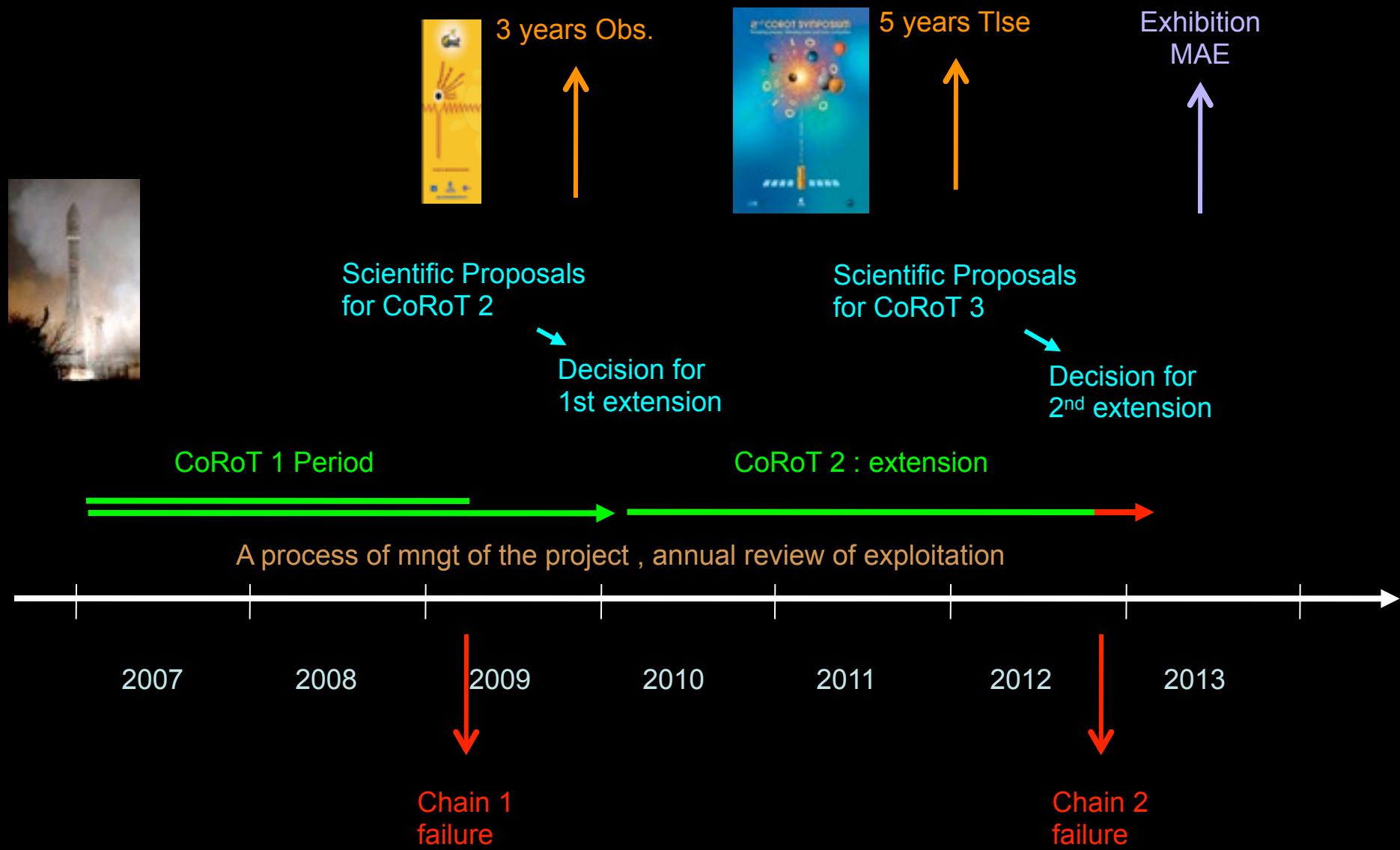




Project & events



Project & events



■ Based on TM delivered by the Proteus plateform

At 20:19:11 UT :

- the DPU2 of the instrument stops to dialog on the 1553 link data
- default ecartometry data words ('FFFF') are acquired on the AS16 link

■ Based on HK TM related to instrument

Between 20:18:54 and 20:19:26

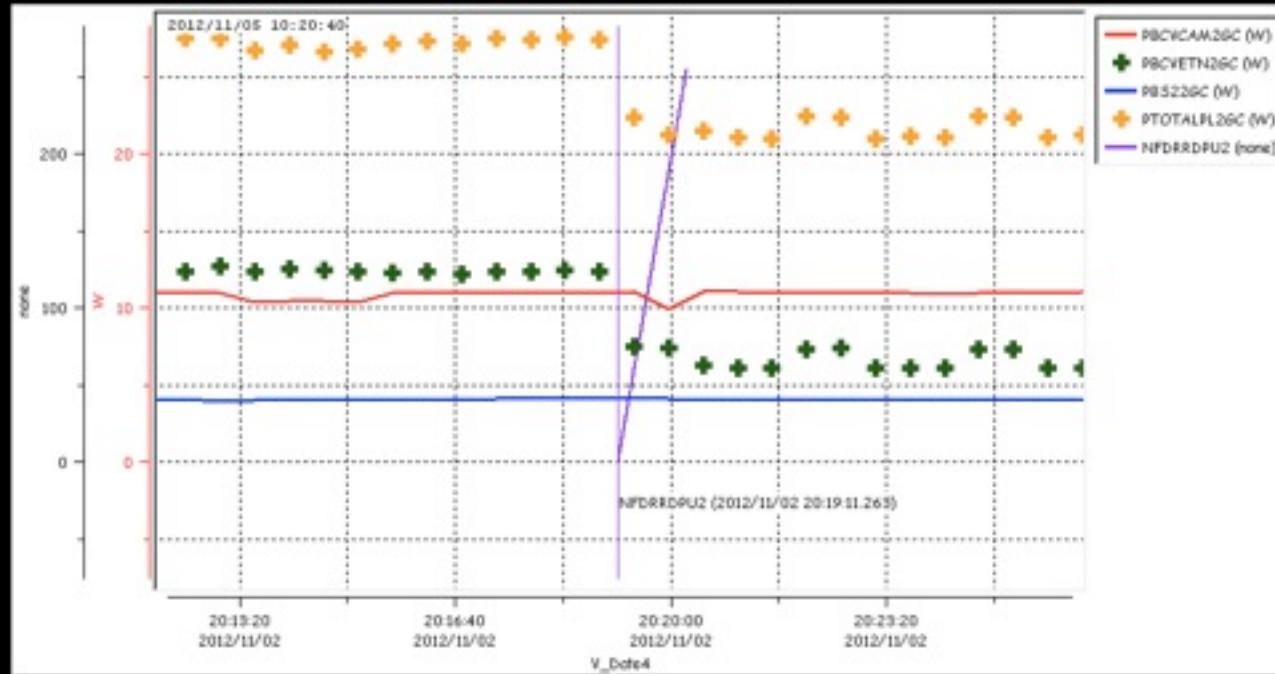
- Drop of input power BCVETN2 equipment from 12.5W to ~6W

Between 20:19:09 and 20:19:17

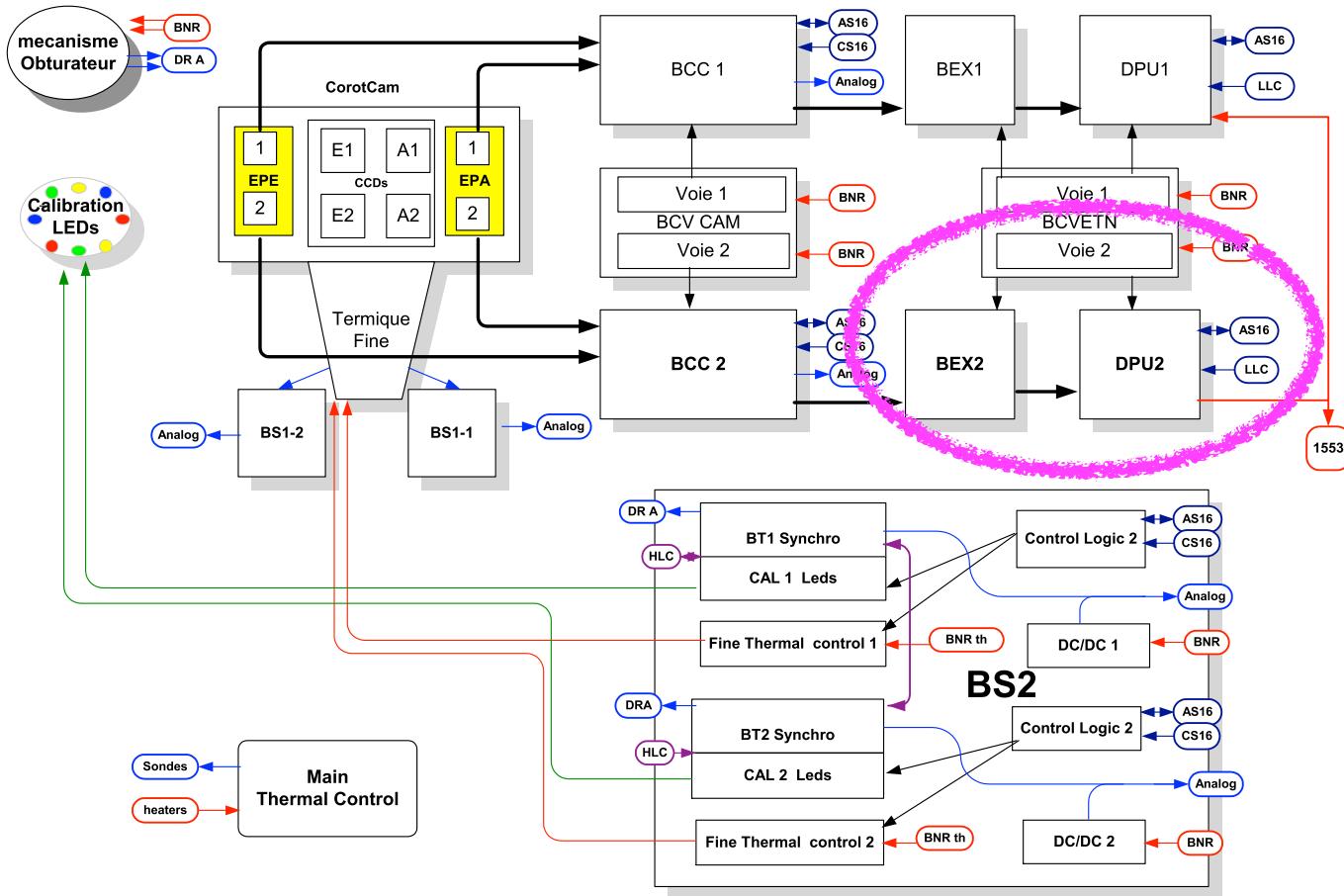
- drop of V5BEX from (5.2V to 3.1V)



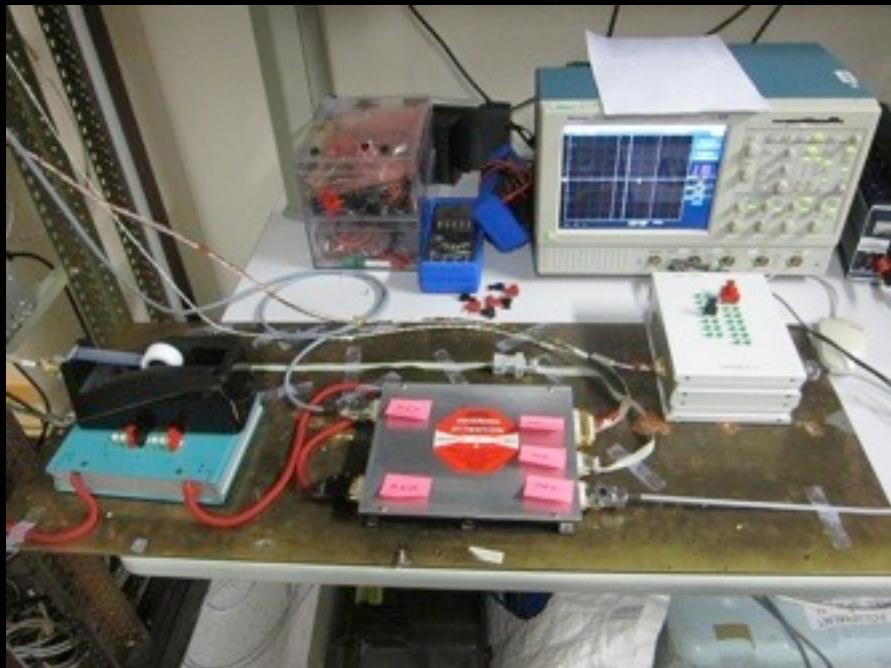
P BCVETN2, PBCVCAM2, PBS2

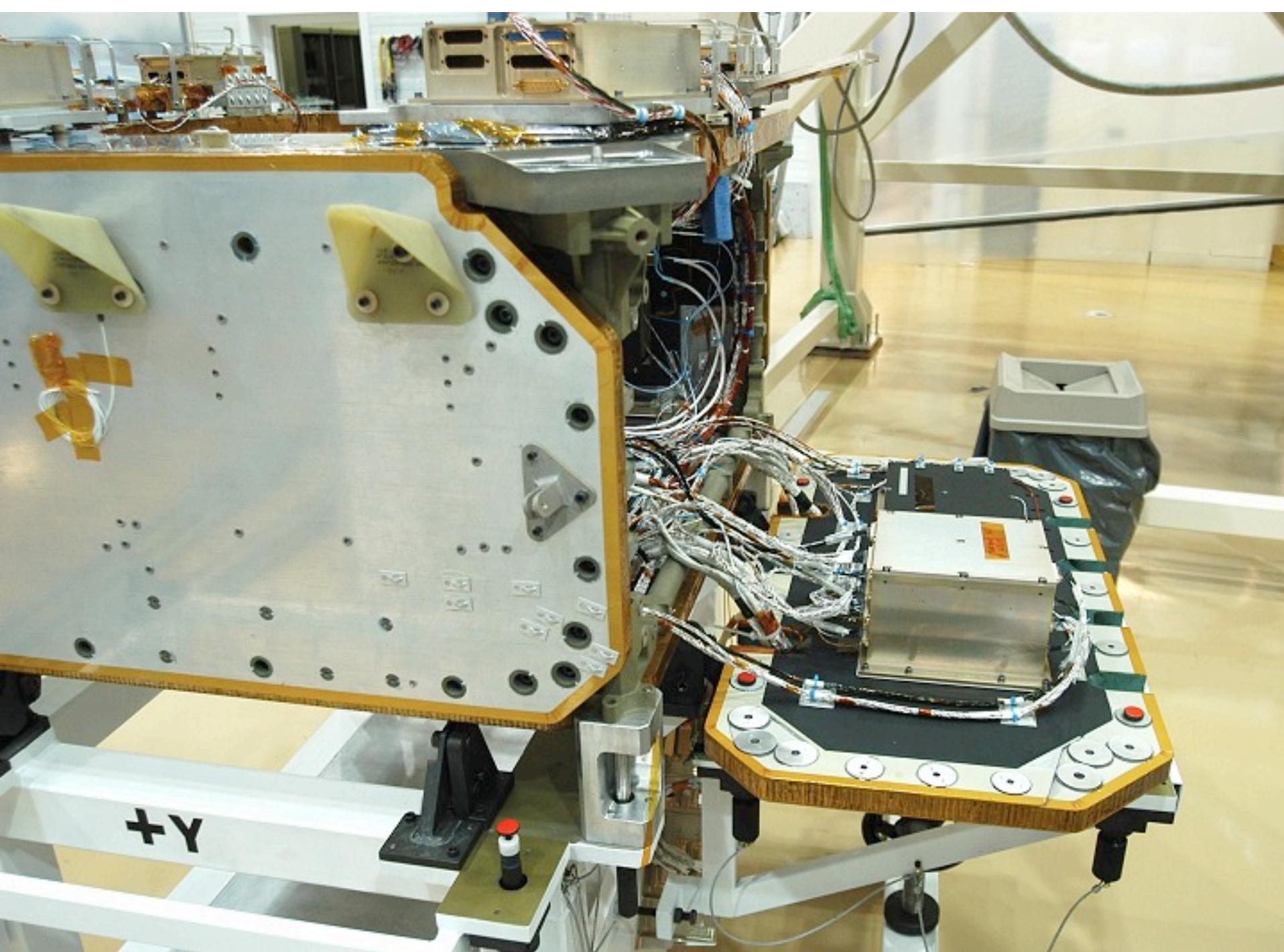


The instrument scheme



On - ground Testings







Many accomplishments during the 6 years

of operations and exploitations

thanks to the efforts and engagement of teams.

Whatever happens, CoRoT will still be there through

the scientific research and exploitation of data.

Gracias !