



Where are we ?

What is needed....From ESTA



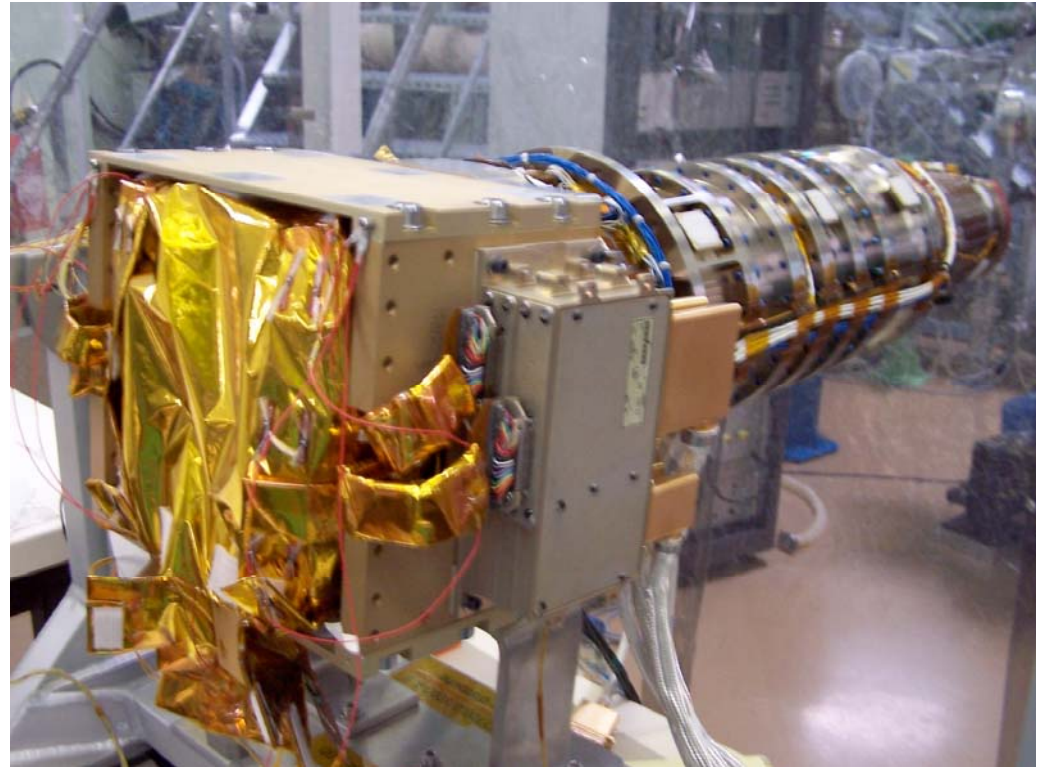
Camera calibration.

Several problems arise: some due to the test software equipment, some others to the hardware.

- Bad stability of the sources
- Difficulties to define the windowing
- Problems with the binning -> wrong camera control micro-sequences
- Identification of cross-talk between CCD PF-AS and AS-AS

Readout noise 10 e-

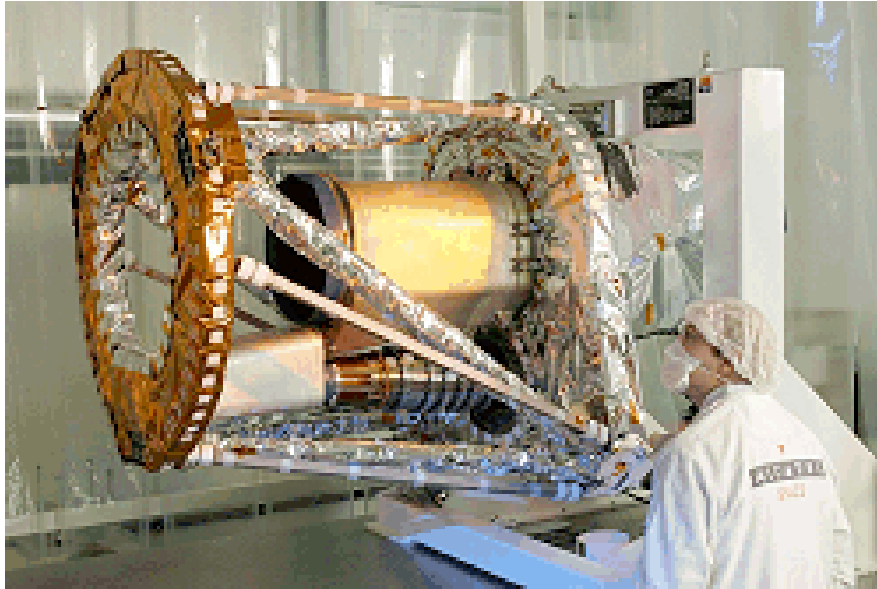
Total white noise 10% gt photon noise



The most serious problem is the microsequence implemented in FPGA which shall be changed before the instrument thermal tests.



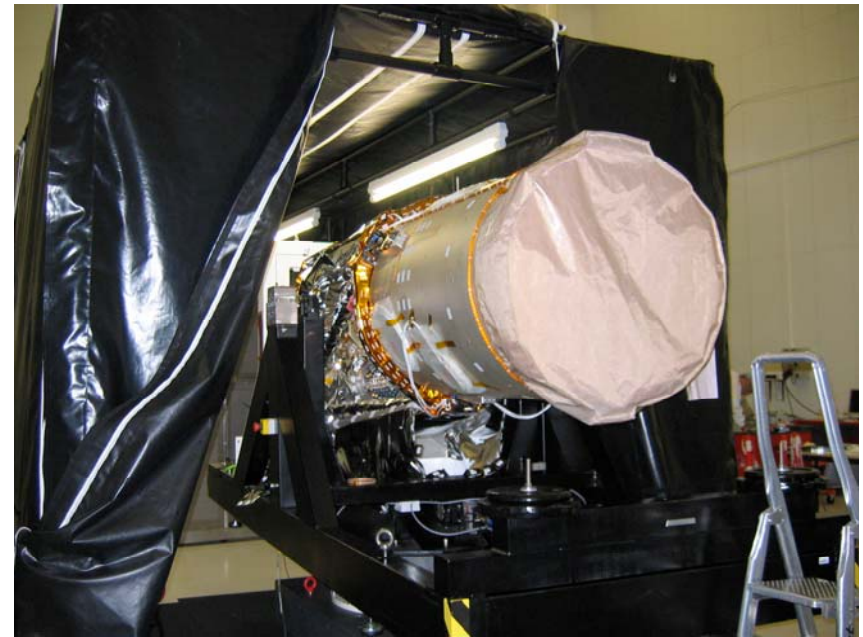
Telescope integration



Telescope + camera

Pb with reference system, solved

At Alcatel Cannes



+ Baffle

At CNES



Instrument integration

Very touchy
But

No
problem





The primary
mirror



ESTA Nice 26/09/05



Fixing the telescope +
camera on the
Equipment bay

At CNES

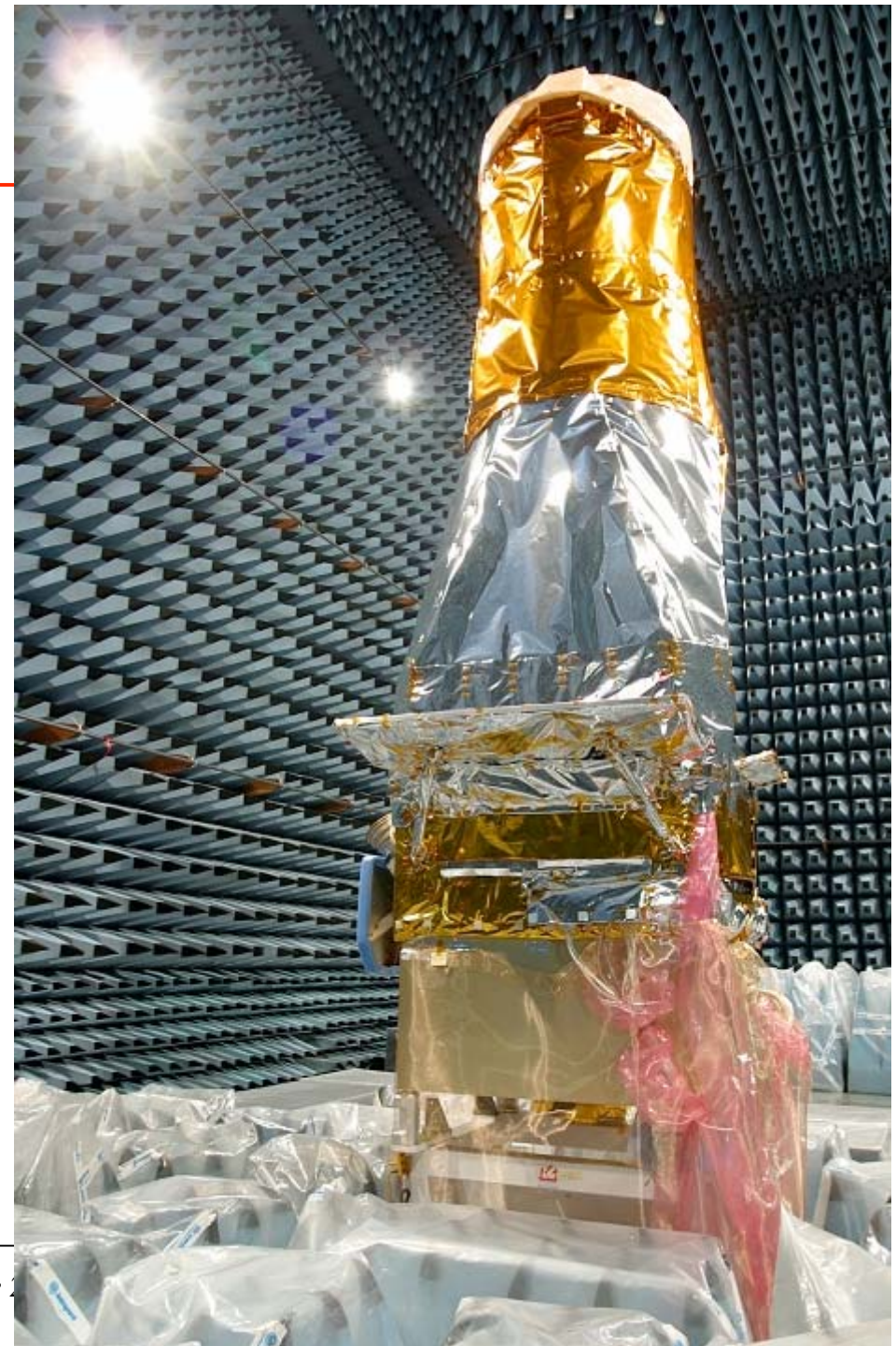




EMC tests

At Intespace
September 16th

Everything nominal





Ground segment

The **Control Centre** has been successfully integrated.

The **Mission Centre** at CNES is still under integration



In labs, people are working hard
on the calibration and correction pipe-line
Dead-line for version V1 November 2005

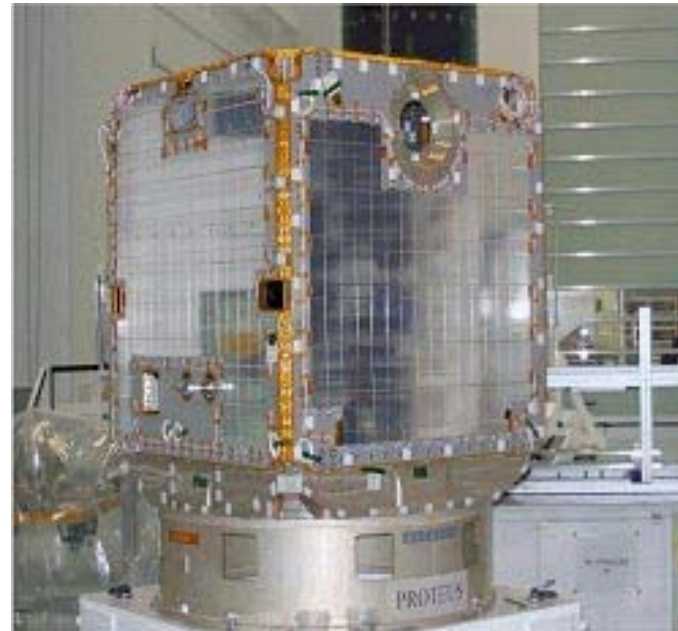


PROTEUS Platform

The delay of Calypso till october 2005 will induce a slight delay on the launch date

To **August 22nd 2006**

Under discussion





Launcher

The development is almost nominal

Visit to Baikonour Team ALCA TEL/CNES
21/24 June 2005





Antennas

Activities concerning the Brazilian station (at Alcantara) are underway

Discussions are going on with Institut of Astronomy
in Vienna to use the MOST antenna

19/04/2005

(Eventually also in Vancouver)





Corot Brasil agreement

Signed at Le Bourget Air show on June 14th 2006





Scheduling the observations

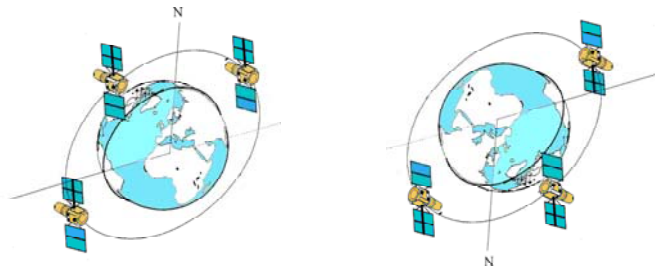
Launch

August 22nd

Commissioning

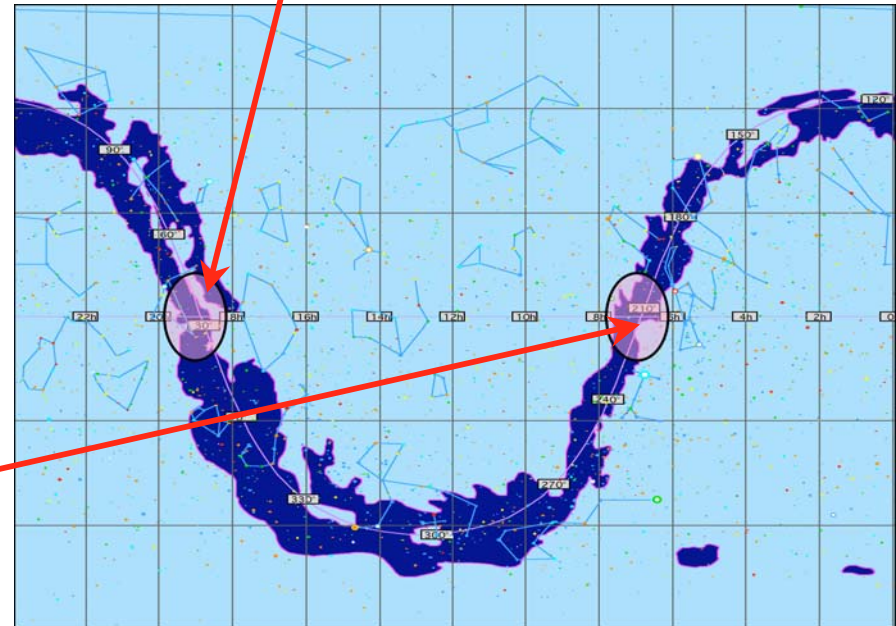
October 6th (in the centre direction)

Rotation



Anticentre session

October 20th **if everything OK**





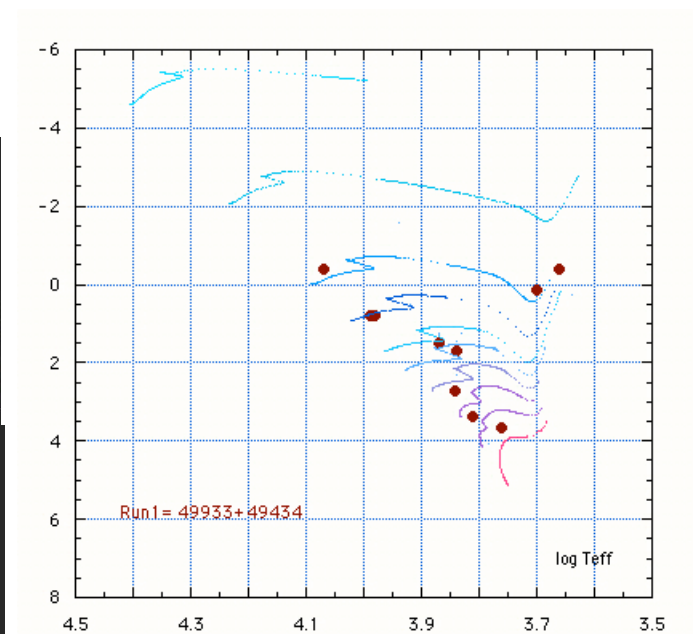
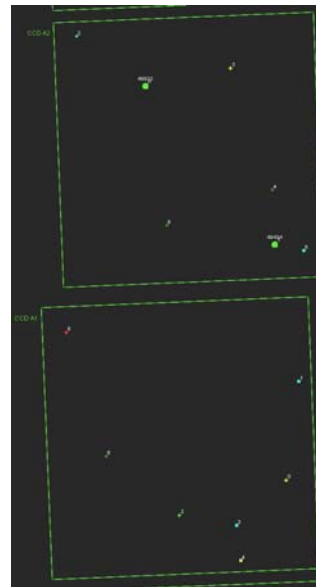
First long run

* Long run on HD 49 933

Final selection of the targets April to June

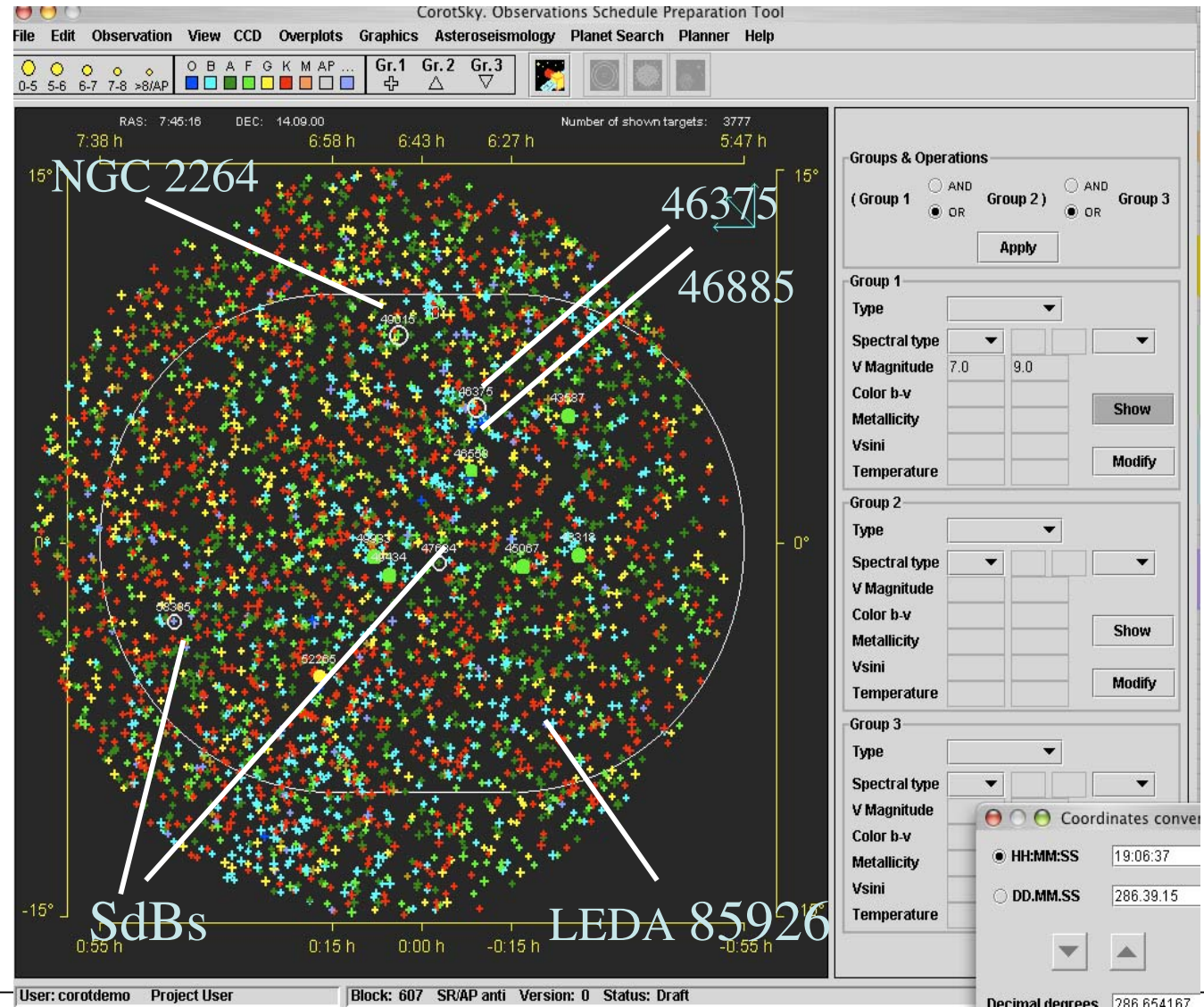
First data by January 2006.....

	0	mass	1	IQ	2	log t _e	3	49933	4
0	49434		Gam Dor		3.842		2.740		
1	49933		F2V		3.811		3.390		
2	49385		G0 IV-V		3.760		3.670		
3	50229		B9V (var)		3.660		-0.4100		
4	50085		A0		4.070		-0.4100		
5	49330		B0 Be var?		3.870		1.510		
6	49808		F0V		3.840		1.680		
7	50209		B9V		3.990		0.7800		
8	49713		B9V Ap		4.080		0.05000		
9	40608		G5		3.700		0.1600		





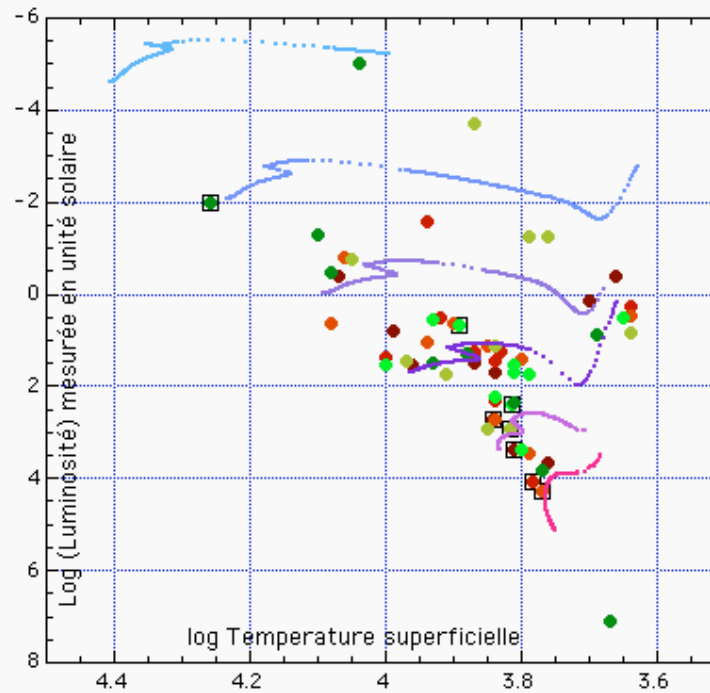
K1IV





At the end.....

5 long runs





What ESTA can provide ?

- * Validated models, comparable to each other, even if different...under way, important progresses have been made
- * Same comparison on oscillation codes

In a wide variety of mass and ages (may be including giants)

Evidently a pioneer contribution to a wider effort of modeling stars,
needed for CoRoT but also, ground based seismology, for GAIA.....

The question of the accuracy needed for CoRoT:

very different from the Sun !

Fundamental parameters are less well known

The number of modes is much smaller

The long runs of CoRoT have a frequency resolution of $0.1 \mu\text{Hz}$

Translated in accuracy on the frequency measurement of a mode depends on

- S/N e.g. amplitudes and magnitude
- life time of the modes

Estimate: from $0.2 \mu\text{Hz}$ for large amplitude coherent modes

to 0.4 or $0.5 \mu\text{Hz}$ for solar like oscillations in a 8th magnitude star.

How does this translate into accuracy on modeling.....Do not try to push comparison too far!



The CoRoT Schedule

Any information useful for the selection of targets *

has to be provided at least **6 months before the beginning of the observation**

- first long Run: selection of secondary targets April 2006
- first short run: selection of the field and of the targets: April 2006

A New selection every 6 months

Urgent to continue the comparison on other codes

But also to evaluate the oscillation codes in different situations

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- Should we include giants?
- Should we include very hot stars
- should we include many fast rotators
- Should we select only stars that we know how to model?