

Welcome to the workshop
Inter-calibration and degradation in
EUV

Brussels 15-18 April 2013

One year ago, in Boulder...

- A. Jones and F. Eparvier raised a critical question:
Why do all the solar instruments measuring EUV irradiance provide so different measurements ?

We had to search for the answer in the way:

- the instruments are performing their measurements
- they are calibrated before launch
- they evolve/degrade once in flight
- this evolution is tracked and corrected in the data

... and the lack of standards in all these matters!

Going back to fundamentals...

- How to define bandpasses?
- How to determine the uncertainties on measurements?
- Can we rely on *other's* data/instruments:
 - Primary standards, such as synchrotrons
 - Reference spectra for the broadband instruments
 - ...

=> There is a crucial need for communication, with no taboo, and for data comparison

One year ago, in Brussels ...

- A. BenMoussa devoted a small workshop to this topic no one wants to hear about:

... Degradation!!!

→ Sources of degradation are multiple, and particularly affect the observations in the EUV, whatever type of instrument you are dealing with

→ BUT some lessons are to be learned and we can avoid repeating the same mistakes again and again

... if we accept facing the problem

One year ago, in Brussels: the output

Solar Physics

DOI: 10.1007/.....

Lessons learned from on-orbit degradation of solar instruments

(in alphabetic order)

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And here we are today...

To try to go one step further in the understanding of those questions.

Thank you!

- To all of you for participating
- To STCE for making this possible

Organization

- Web-site: <http://www.stce.be/euvworkshop2013/>
- 2 days of talks
- 2 days of working sessions
- Workshop dinner: Wednesday 17 April, 18h30
Relais Saint-Job, Place de Saint Job 1
- Tour of the Observatory: Thursday 18 April,
15:00-16:30
- Wifi: RMIguest
 - Login: ORB
 - Pwd: orb

Agenda

Monday April 15, 2013

14:00 - 14:15	Welcome	
14:15 - 14:30	M. Dominique - A. Jones	Wrap-up of the Previous Meetings and Objectives
14:30 - 15:00	I. Dammmasch	Update on LYRA degradation - LYRA calibration using TIMED and SORCE
15:00 - 15:30	M. Kretzschmar	Comparison of SDO/EVE and PROBA2/LYRA irradiance: flare and longer term
15:30 - 15:45	Coffee	
15:45 - 16:15	A. Gottwald	Uncertainties in traceable radiometric calibration of EUV instruments using synchrotron radiation
16:15 - 16:45	M. Meftah	On-orbit degradation of PICARD-SODISM telescope - Lesson Learned

Tuesday April 16, 2013

09:00 - 09:30	S. Wieman	SOHO/Solar EUV Monitor
09:30 - 10:00	S. Wieman	SDO/EVE/EUV Spectrophotometer (ESP)
10:00 - 10:30	J. Machol	Preliminary calibrations of GOES EUVS channels
10:30 - 10:45	Coffee	
10:45 - 11:15	A. Jones	SDO-EVE-MEGS
11:15 - 11:45	G. Del Zanna	Calibration and irradiance measurements with SOHO/CDS
11:45 - 12:15	C. Erhardt	SolACES - Degradation Analysis of the instrument
12:15 - 13:45	Lunch	
13:45 - 14:15	Dhooghe	Spacecraft contamination: Lessons about outgassing from the Rosetta/ROSINA mass spectrometers
14:15 - 14:45	P. Bochsler	Proxies for Photoionization Rates of Interstellar Neutrals
14:45 - 15:15	S. Dewitte	Total Solar Irradiance measurements and degradation correction
15:15 - 15:45	M. Kretzschmar	SOLID: a European project to build composite SSI time series over the space age
15:45 - 16:00	Coffee	
16:00 - 17:00	Preparation of Working Session	

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Workshop dinner

