

PROBA2 SWT 13 ☀ 28 JUNE 2016 ☀ MATTHEW J WEST

P2SC STATUS UPDATE

MISSION STATUS

- Successfully co-funded by ESA SSA & SPC since July 2013
- Mission confirmed to the end of 2018, extension through 2020 to be decided end 2016
- PROBA2 data serving into SSCC operations, Space Weather Forecasters, SolarSoft Latest Events...
- 2015 On-Board Software Upgrade Successful
- Major P2SC Software Upgrade Underway

P2SC STATUS UPDATE

THE TEAM

ESA Technical Officer:

- Joe Zender

SWAP PI:

- David Berghmans

LYRA PI:

- Marie Dominique

P2SC Technical Coordinator and Liaison
Scientist:

- Matthew J West

SWAP Instrument Scientist/Liaison Scientist:

- Elke D'Huys

Operator Emeritus / Software Upgrade
Supervisor:

- Koen Stegen

Operators:

- Katrien Bonte
- Robbe Vansintjan
- Laurence Wauters

LYRA Research Team:

- Ingolf Dammasch
- Thanassis Katsiyannis

Software Developer:

- Bram Bourgoignie

SWAP PI Emeritus:

- Daniel B Seaton

PROBA2 VITAL STATISTICS

- 2425 Days in orbit
- More than 20,000 ground contacts
- More than 35,000 orbits and 1.5 billion km traveled
- 649 SWAP IOSs, 567 LYRA IOSs
- More than 1,450,000 SWAP Images (6.4 TB)
- More than 6.6 GB of LYRA Data

P2SC SOFTWARE UPGRADES

- Koen Stagen & Bram Bourgoignie have begun working on software upgrades
- New/improved SWAP & LYRA data products
- Bug fixes, system software updates, including:
 - Update the various tools of P2SC to get rid of deprecated routines (in particular Python). -
Currently verifying

SWAP STATUS UPDATE

GI STATUS

- Guest Investigator Round 6 Participants visited
- Guest Investigator Round 7 Selection was made

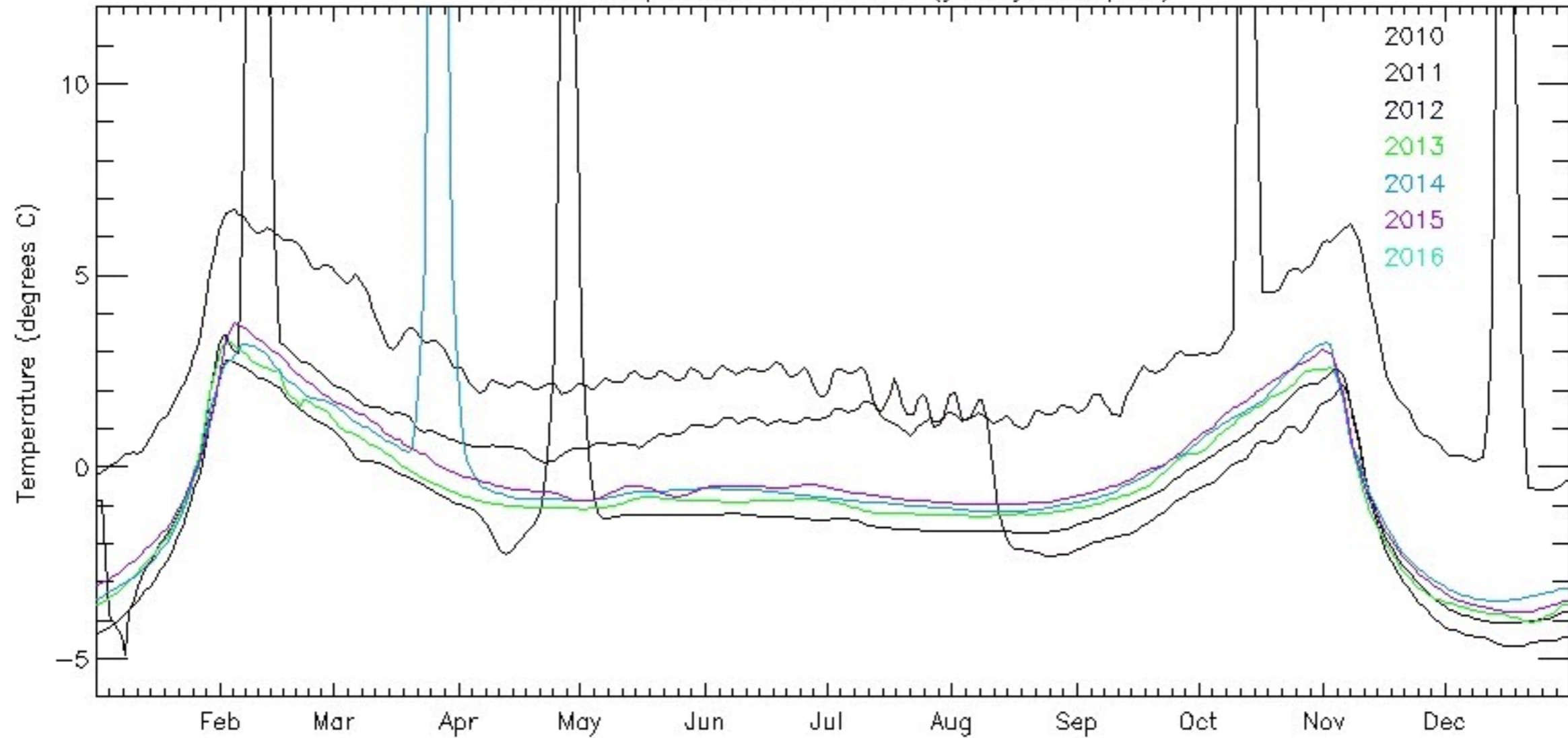
GI PROGRAM

- F. Frassati - Formation and early evolution of coronal shock waves.
- F. Goryaev - Study of properties of the inner corona and search of solar wind flows by illumination from backside solar flares.
- M. Janvier - The evolution of flux ropes and their accompanying filament/prominence during eruptive flares.
- M.Kirk & B. Thompson - A Targeted Analysis of the Link Between Filament Eruptions, Lower Coronal EUV Features, and CMEs With PROBA2 SWAP.
- L. Krista - The structural and footpoint evolution of CMEs.
- V. Krupar - Radio signatures of the shock waves and their association with coronal structures seen by the SWAP and coronagraph observations.
- O. Panasenco - Pseudostreamers and their Immediate Environment: Observations and Modeling.
- E. Thiemann - Inversion of LYRA Occultations with the Onion Peel Method.

INSTRUMENT HEALTH

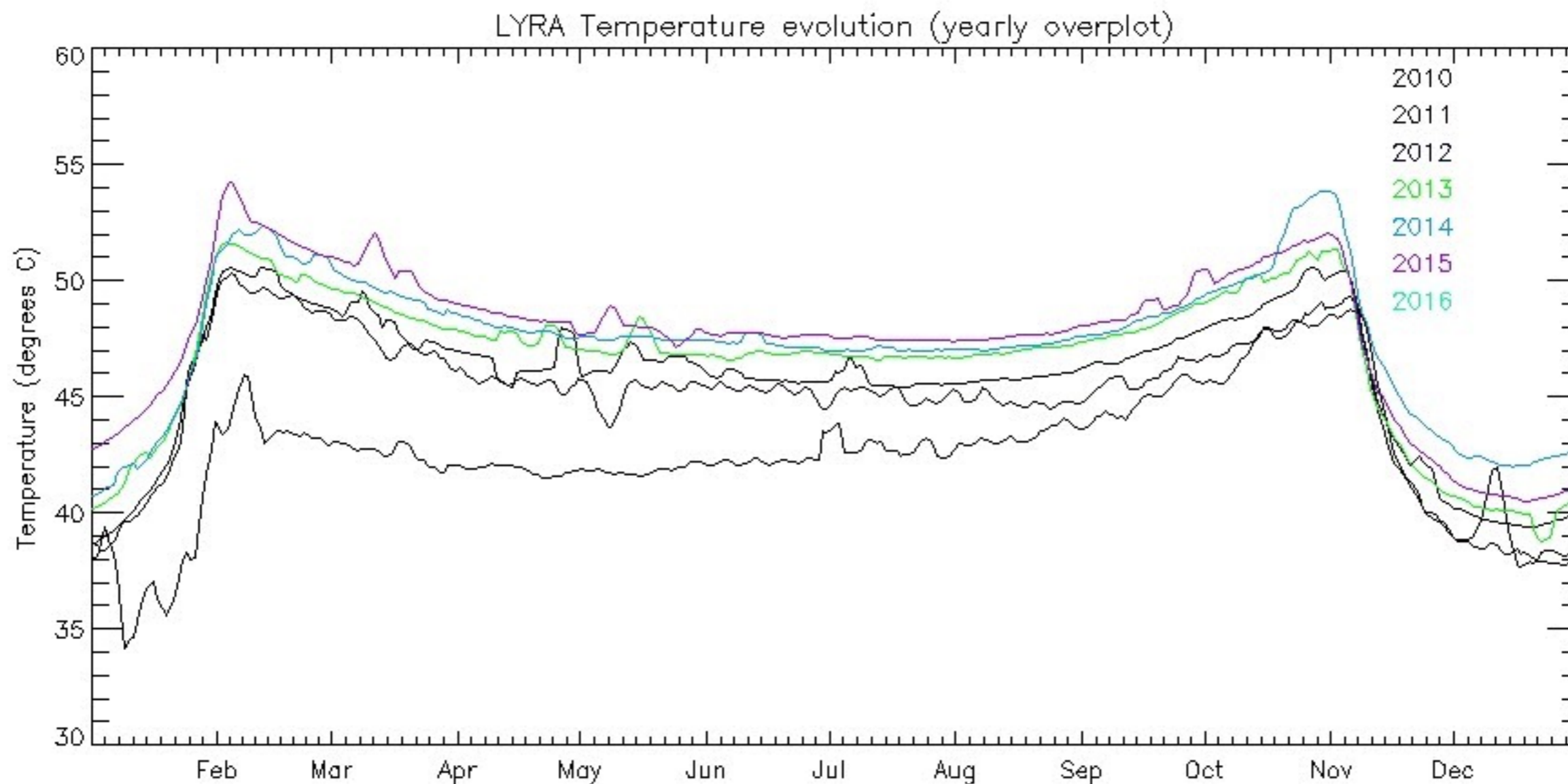
SWAP

SWAP Temperature evolution (yearly overplot)



INSTRUMENT HEALTH

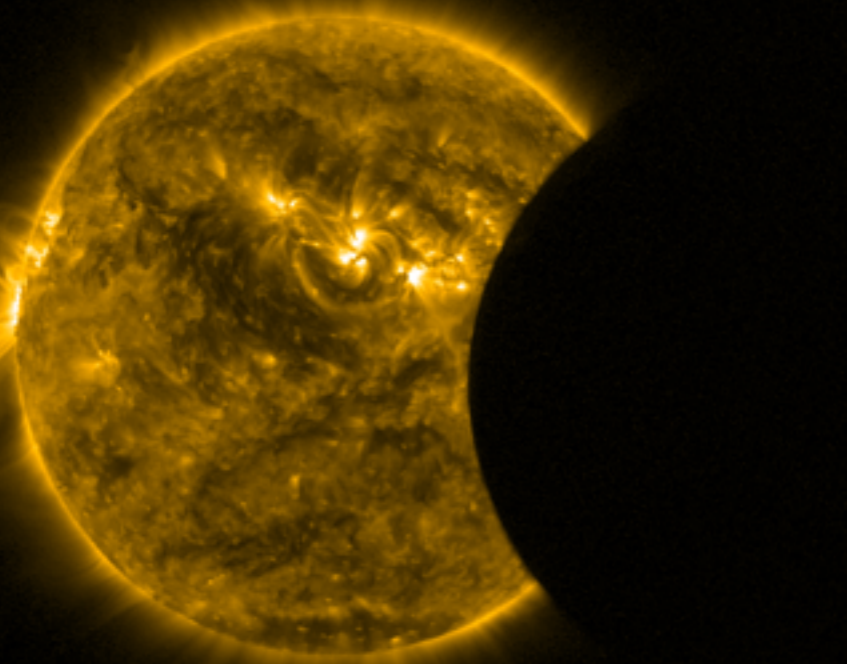
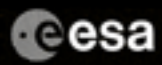
LYRA



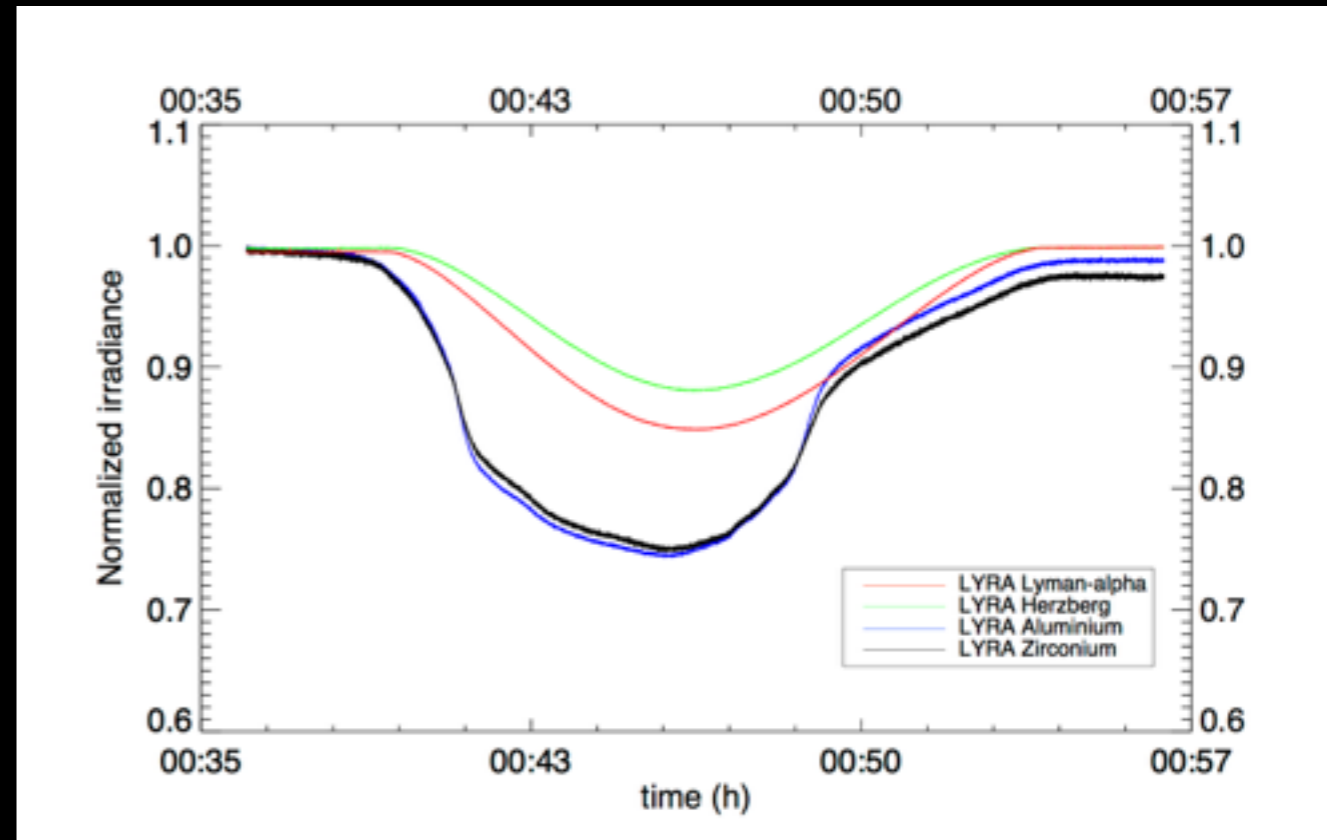
PROBA2 EVENTS & OUTREACH

- PROBA2 at Junior College - January 2016
- Total Solar Eclipse - Mar 2016
- Mercury Transit - May 2016
- "PROBA2 at School" - March 2016
- GOES-R SUVI/SWAP collaboration - June 2016
- NASA Post Graduate Summer School- June 2016
- Annular Solar Eclipse - September 2016

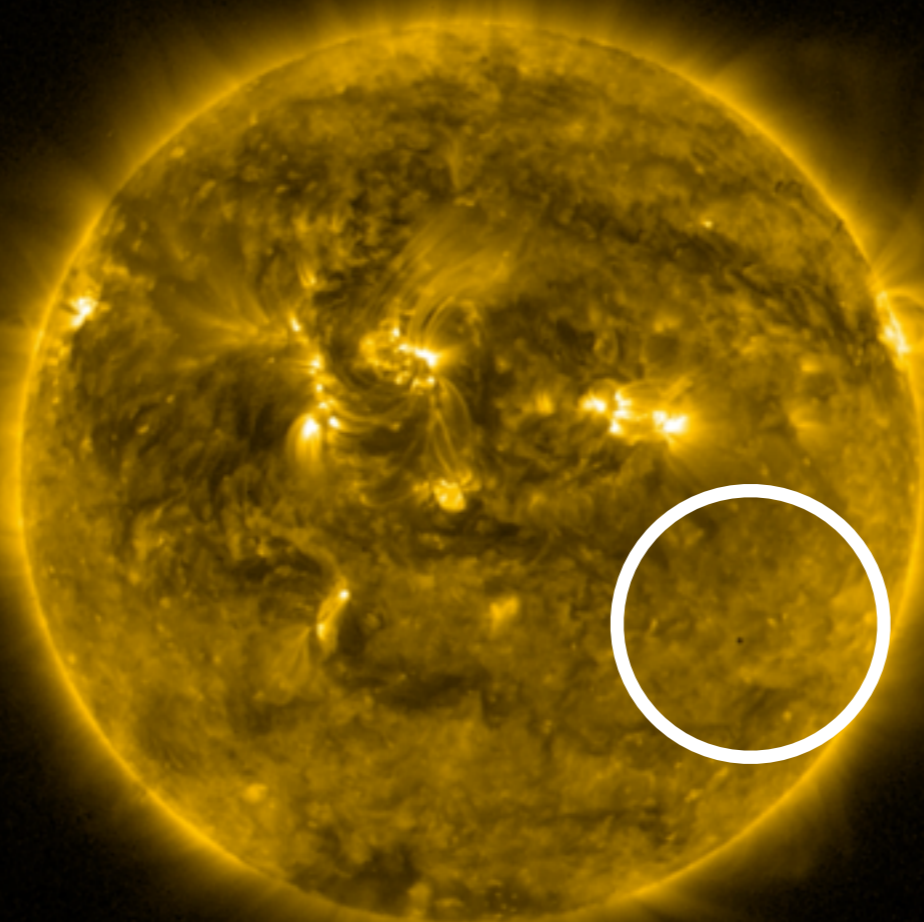
PROBA2 EVENTS & OUTREACH



PROBA2/SWAP 174 Å 2016-03-09 03:05:48



PROBA2 EVENTS & OUTREACH



PROBA2/SWAP 174 Å 2016-05-09 17:27:58



COLLABORATIONS

SPECIAL CAMPAIGNS

- A joint observation campaign including SWAP, LYRA and IRIS
- N Viall (NASA GSFC) organising joint EIS, STEREO and SWAP observations of streamers.
- H Warren (NRL) organising SWAP support for next EVE rocket test
- Support of GOES-R/SUVI mission development - E D'Huys and M West completed GOES-R collaborative meeting.