

PROBA2 SWT 14 ☀ 16 OCTOBER 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 early 2017
- 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
- Jennifer O'hara

LYRA Research Team:

- Ingolf Dammasch
- Thanassis Katsiyannis

Software Developer:

- Bram Bourgoignie

PROBA2 VITAL STATISTICS

- 2572 Days in orbit
- More than 22,000 ground contacts
- ~37,000 orbits and ~1.6 billion km traveled
- 669 SWAP IOSs, 585 LYRA IOSs
- More than 1,530,000 SWAP Images (~6.8 TB)
- More than 6.9 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
- SSA notification system

SWAP STATUS UPDATE

P2SC SOFTWARE UPGRADES

- SSA notification system:
 - Web interface - Latest Information - Email notification

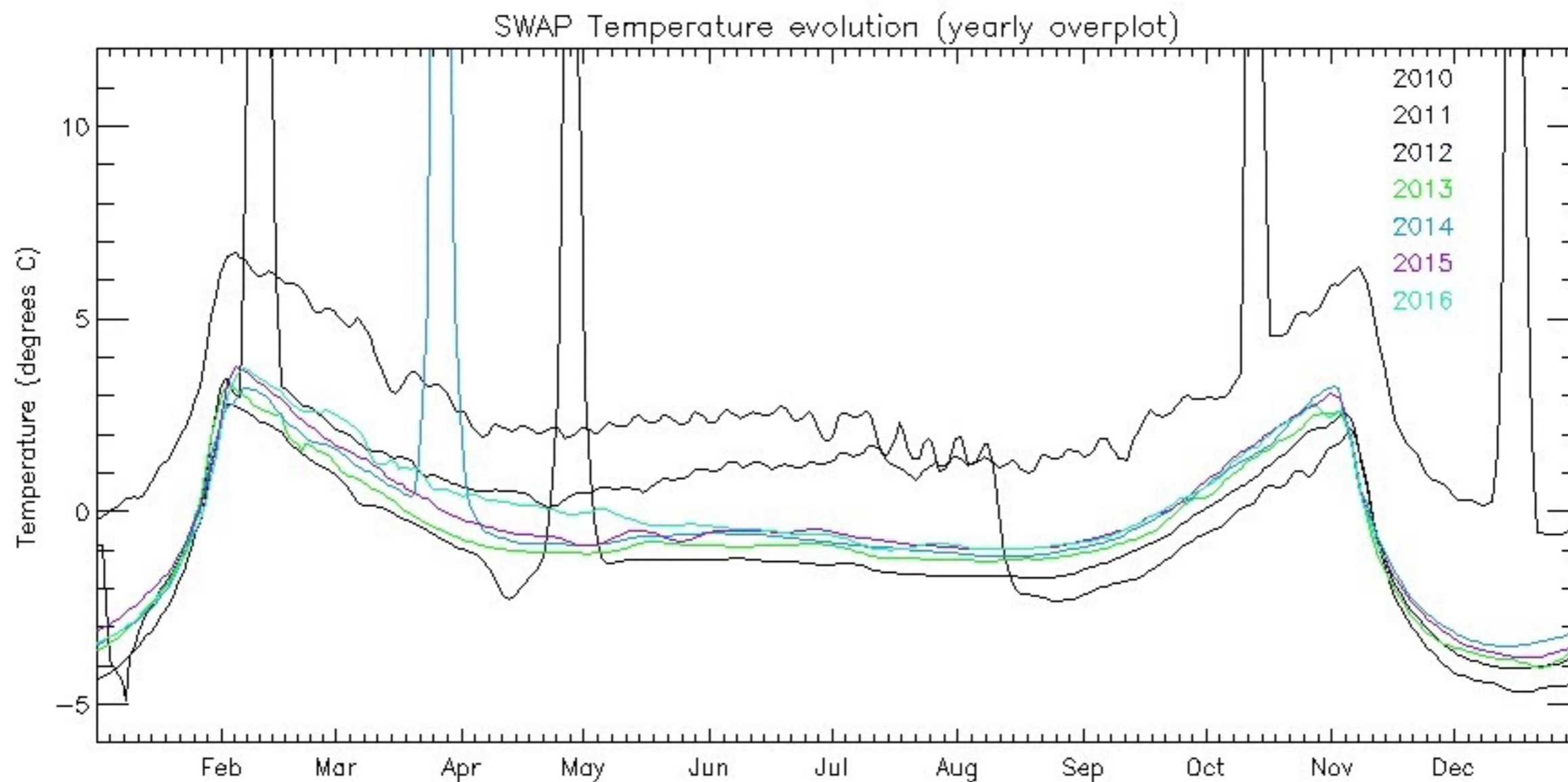
The screenshot shows a web browser window with the URL `stce.be`. The website header includes navigation links: [Dashboard](#), [Content](#), [Add content](#), and [Find content](#). The user is logged in as `Hello MW` with a [Log out](#) option. The main navigation menu contains: [HOME](#), [PROJECTS](#), [PEOPLE](#), [NEWSLETTER](#), [NEWS](#), [PRESS](#), [LINKS](#), and [GOOD TO KNOW](#).

The main content area features a **NEWSLETTER** section with a [View](#) button and an [Edit](#) button. Below it is a **SPACE WEATHER WEEK** section with a logo for **ESWW**. The **STCE IN ACTION** section is partially visible at the bottom.

The central news item is titled **SWAP Bi-weekly Calibration Campaign**. It was submitted by KS on Tue, 2016/10/25 - 12:48. The **Service:** includes SWAP Solar Observations and LYRA Solar Observations. The **Severity:** is Non-nominal. The **Begin:** is 2016-10-18, 03:00:00 to 03:52:40 UTC. The **End User Message:** is Planned Campaign. The **Technical Reason:** is SWAP Calibration uses an offpoint which causes dark images for SWAP and a dip in LYRA intensity.

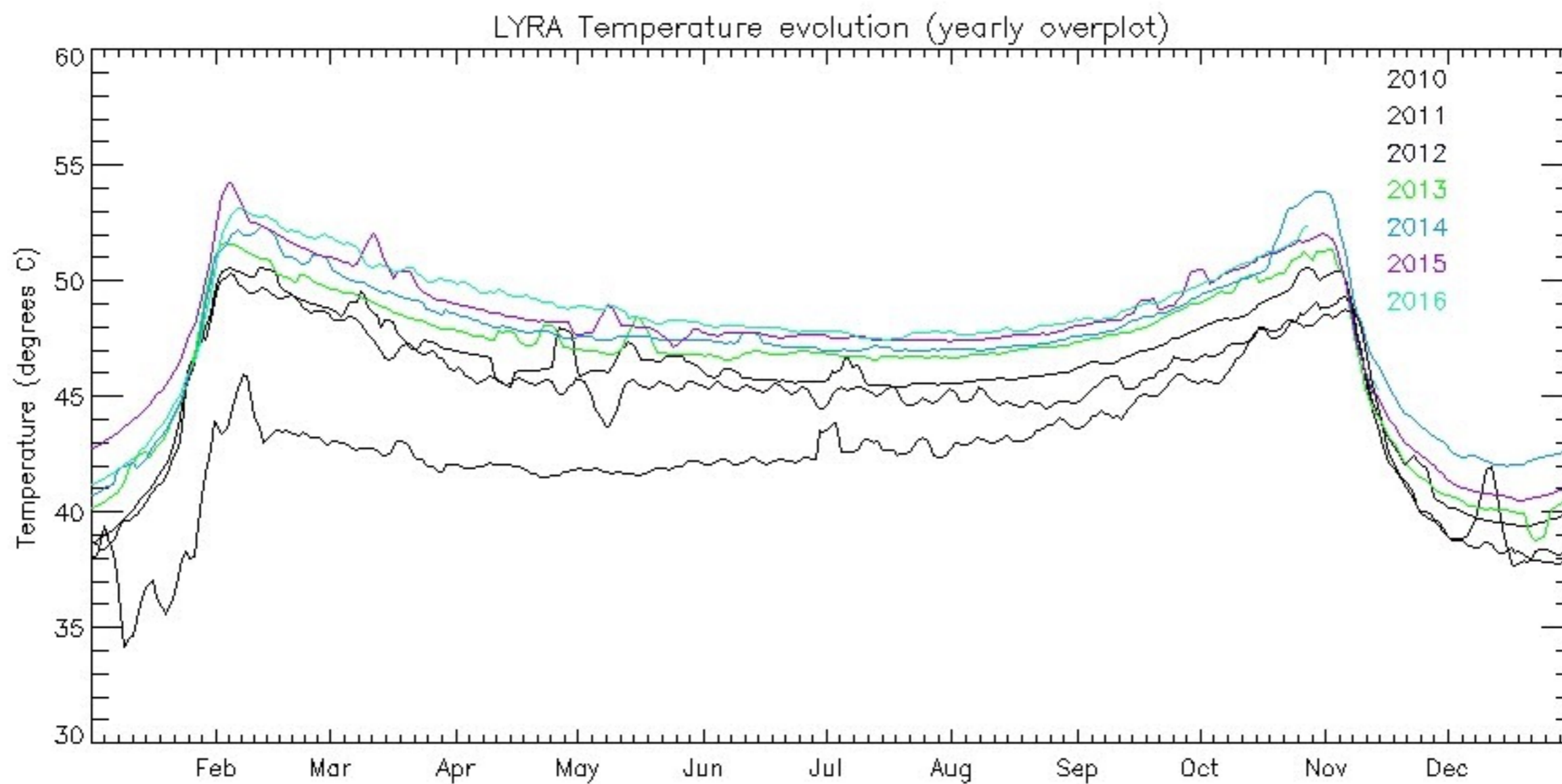
INSTRUMENT HEALTH

SWAP



INSTRUMENT HEALTH

LYRA



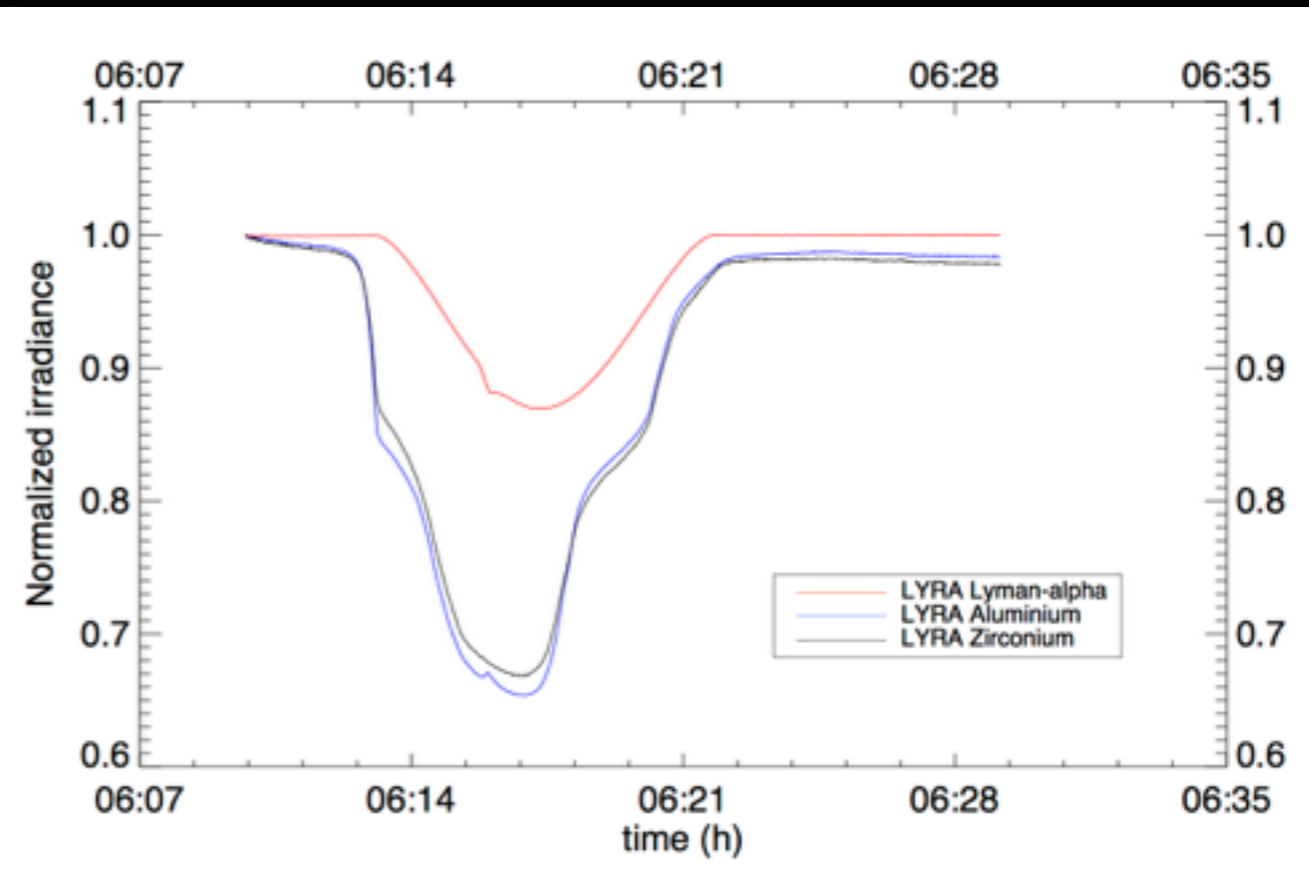
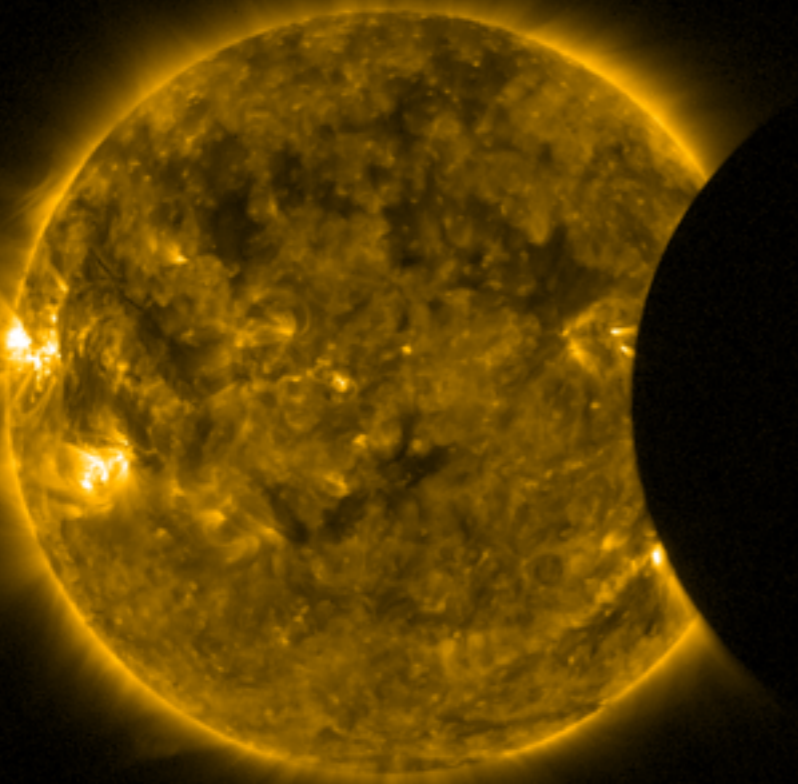
OUTREACH

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
- Annular Solar Eclipse - September 2016

OUTREACH

PROBA2 EVENTS & OUTREACH



OUTREACH

PROBA2 EVENTS & OUTREACH

- PROBA2 Science Archive Tool

The screenshot shows the SOHO Science Archive v2.5 search interface. The window title is "SOHO Science Archive v2.5". The menu bar includes "File", "View", "Windows", "Actions", "Tools", and "Help". The search interface is divided into several panels:

- Results Display:** Includes radio buttons for "Observations" (selected), "Studies", and "Campaigns". It also has "Sort Criteria" dropdowns for "Begin Date" and "Ascending".
- Main Query Panel:** Contains a "Date Range" section with "Begin" and "End" text boxes (format: dd/MM/yyyy HH:mm:ss). It also includes an "Instrument" dropdown menu with options: All, CDS, CELIAS, COSTEP, EIT, ERNE. Below this are fields for "Objective", "Campaign Name", "Obs Type", "Object" (dropdown: All), "Study Name", and "Wavelength".
- Instruments Panel:** Features a breadcrumb-style navigation bar: "CDS | CELIAS | COSTEP | EIT | ERNE | GOLF | LASCO | MDI | SUMER | SWAN | UVCS | VIRGO | Proba2/LYRA | Proba2/SWAP". It includes dropdowns for "Detector" (All), "Obs Mode" (All), "Slit Id" (All), "Proc Level" (All), "Obs Name" (text box), "File Name" (text box), and "Compression" (All).

At the bottom right, there are three buttons: "Query" (with a green checkmark), "Cancel" (with a red X), and "Clear" (with a trash icon). A "Log Console" tab is visible at the bottom left.

COLLABORATIONS

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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.

GI STATUS UPDATE

GI STATUS

- Guest Investigator Round 7 Selection was made

GI STATUS UPDATE

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.