

PROBA2 SWT ☀ NOV 2017 ☀ M J WEST ON BEHALF OF P2SC

P2SC OVERVIEW

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

PROBA2 Liaison Scientist:

- Marilena Mierla

SWAP Instrument Scientist:

- Elke D'Huys

Operator Emeritus / Software Upgrade
Supervisor:

- Koen Stegen

Operators:

- Laurence Wauters
- Jennifer O'hara

LYRA Research Team:

- Ingolf Dammasch
- Thanassis Katsiyannis

Software Developer:

- Boris Giordanengo

PROBA2 VITAL STATISTICS

- 2947 Days in orbit
- More than 25,950 ground contacts
- ~41,500 orbits and ~1.8 billion km traveled
- 731 SWAP IOSs, 659 LYRA IOSs
- More than 1,750,000 SWAP Images (~8.2 TB)
- More than 8.1 GB of LYRA Data

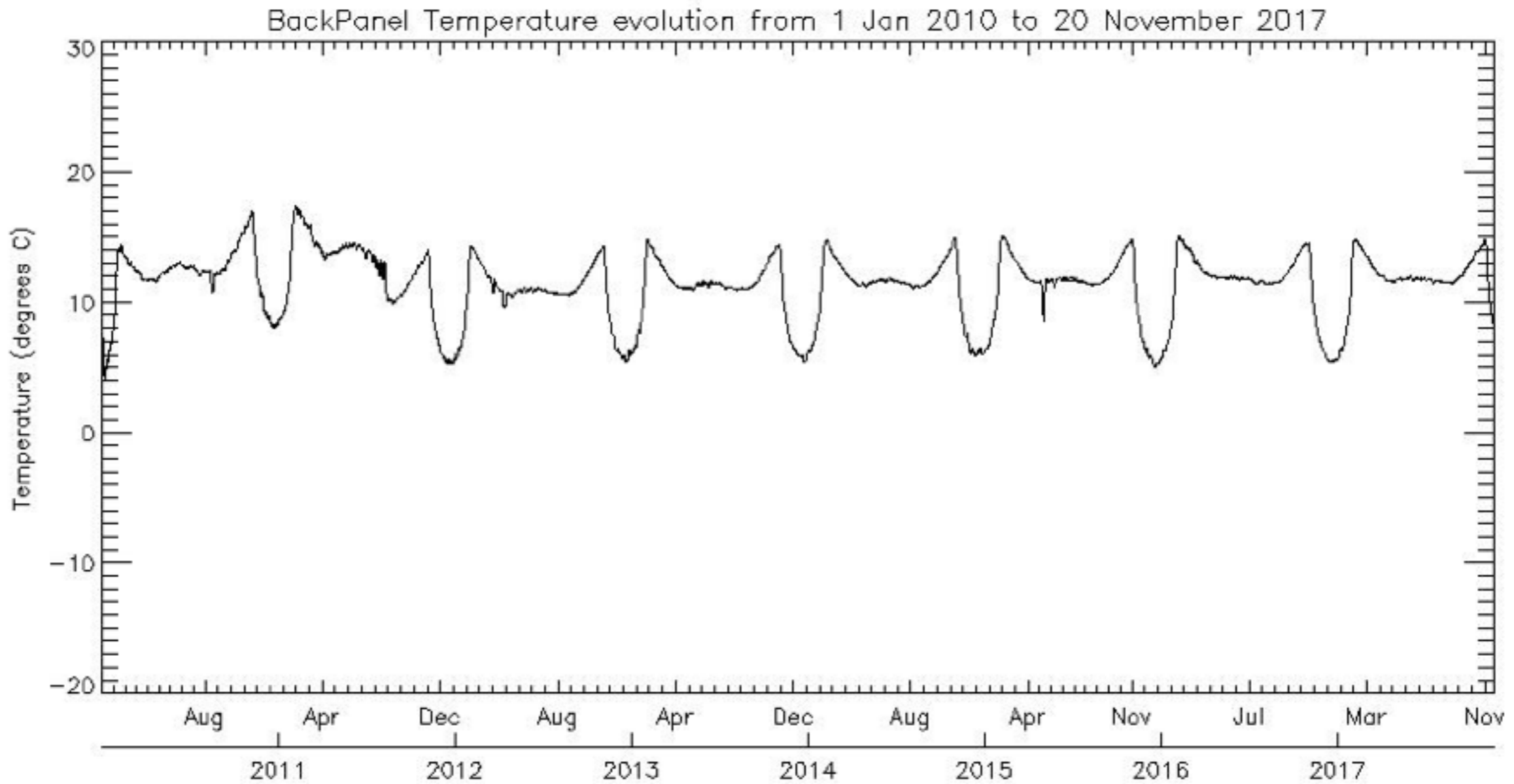
SWAP STATUS UPDATE

P2SC SOFTWARE UPGRADES

- Koen Stegen, Elke D'Huys & Marie Dominique have continued server updates and reprocessing
- Continued bug fixes, system software updates, including:
 - Updating the various tools of P2SC to get rid of deprecated routines (in particular Python). - Currently verifying
- Automated SSA notification system still in development, but run manually.

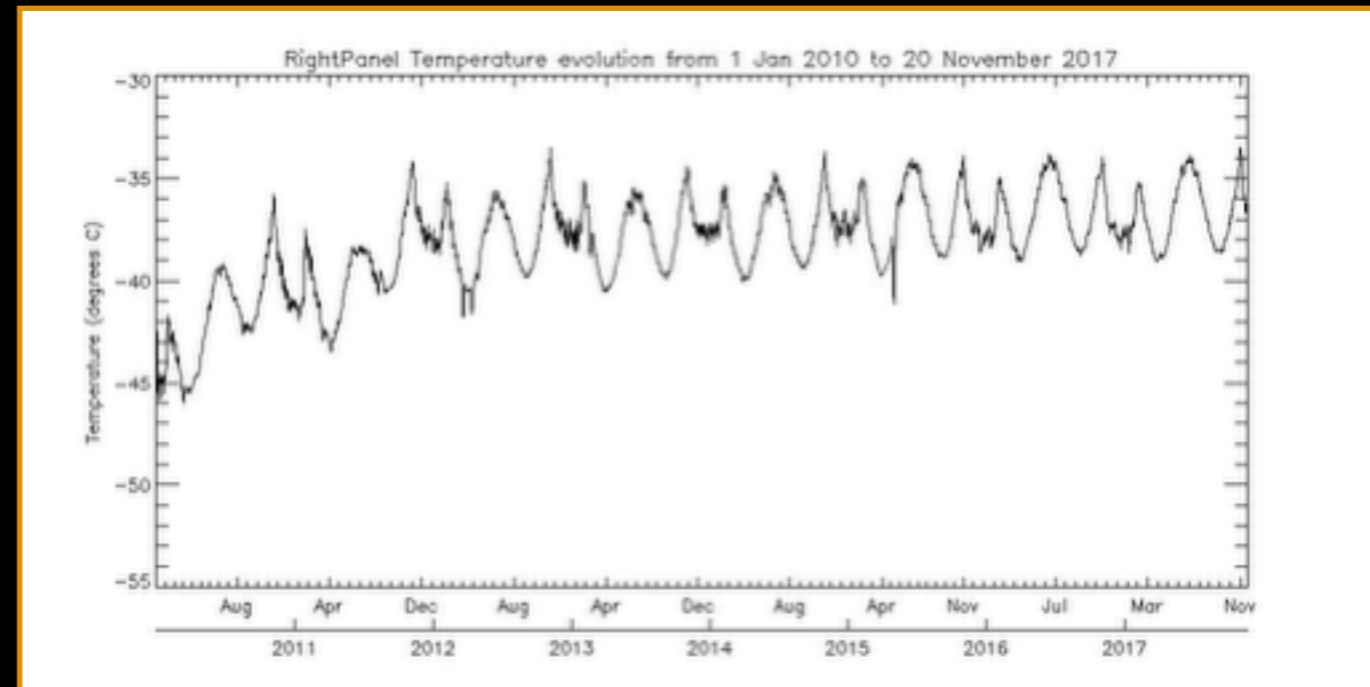
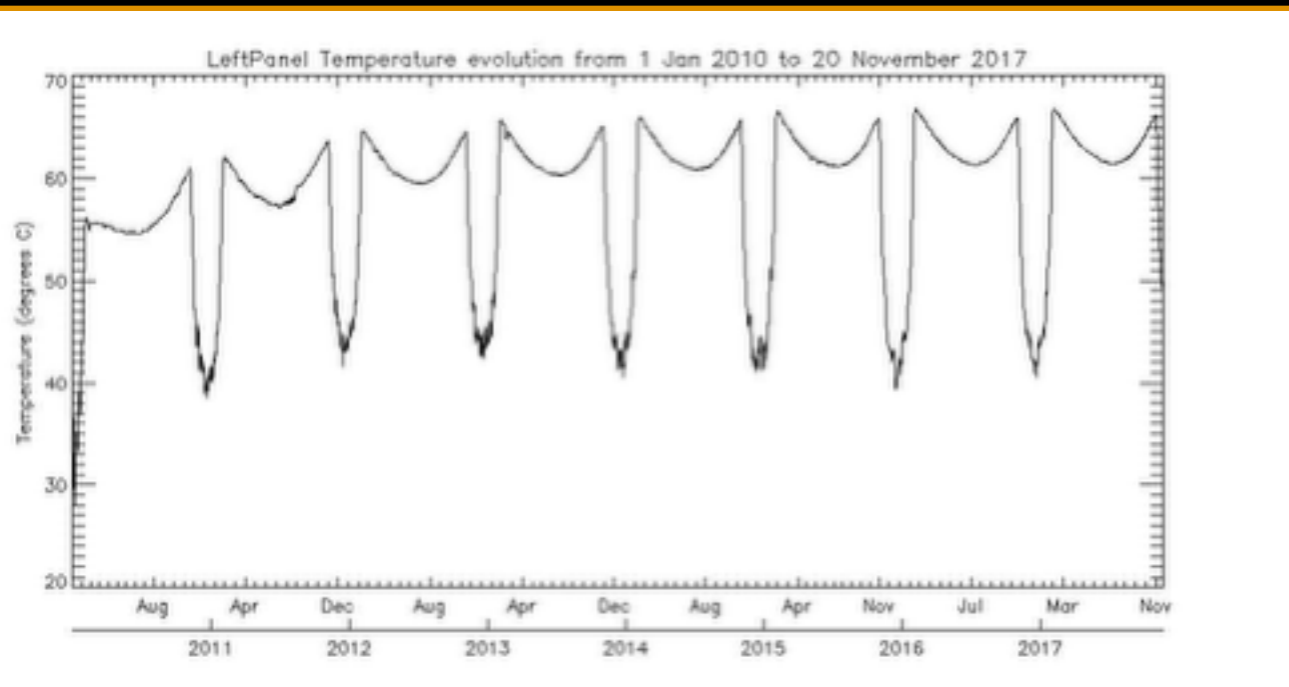
INSTRUMENT HEALTH

BACK PANEL



INSTRUMENT HEALTH

LEFT & RIGHT PANELS



GI STATUS UPDATE

GI PROGRAM

The following 12 proposals were selected for the period October 2017 – December 2018:

- Thiemann - Comparing the response of the thermospheres of Earth and Mars to solar forcing with contemporaneous solar EUV occultations.
- Ryan - The Relationship Between Hard X-ray and Ly- α Emission in Coronal Energy Release Events.
- Wyper - Pseudostreamer Filament Eruptions Comparison with MHD Simulations.
- Meyer - Investigation of the middle corona with SWAP and a data-driven non-potential coronal field model.
- Wallace - Identifying pseudostreamers with PROBA2 SWAP: A comparative study of observed and model-derived fundamental properties of pseudo streamers.

GI STATUS UPDATE

GI PROGRAM

- Kourkras - A unique opportunity of observing and modeling a CME event from the low to the outer corona.
- Banerjee - Automated detection of Coronal Mass Ejections (CMEs) in SWAP images.
- Palmerio - Earth-impacting coronal mass ejections erupting from the solar limb.
- Sarkar - Evolution of coronal cavities leading to CMEs.
- Cécere- A systematic study of CME deflections.
- Georgiou - Relativistic electrons precipitation due to geomagnetic activity in coordinated POES, PROBA-2 and PROBA-V observations.
- Alzate - A Closer Look at 'Stealth' Coronal Mass Ejections.

And one reserve:

- Chifu - Plasma properties of large coronal loops connecting two Active Regions.