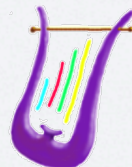


FIRST SCIENCE RESULTS FROM PROBA2

David Berghmans & PROBA2 Science Center
Royal Observatory of Belgium

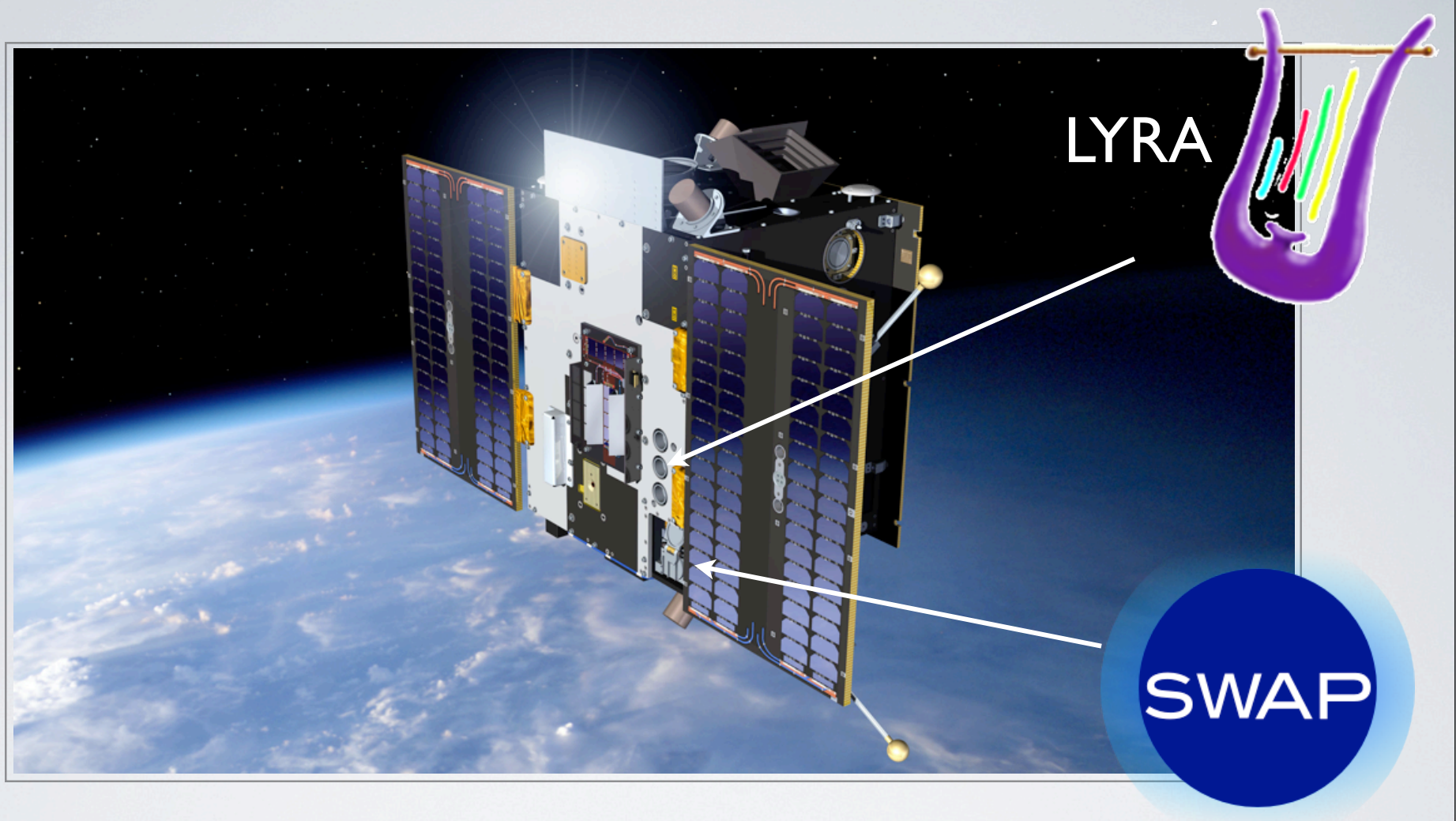
SOTERIA annual meeting ☼ Debrecen ☼ October 6, 2010

david.berghmans@gmail.com



esa



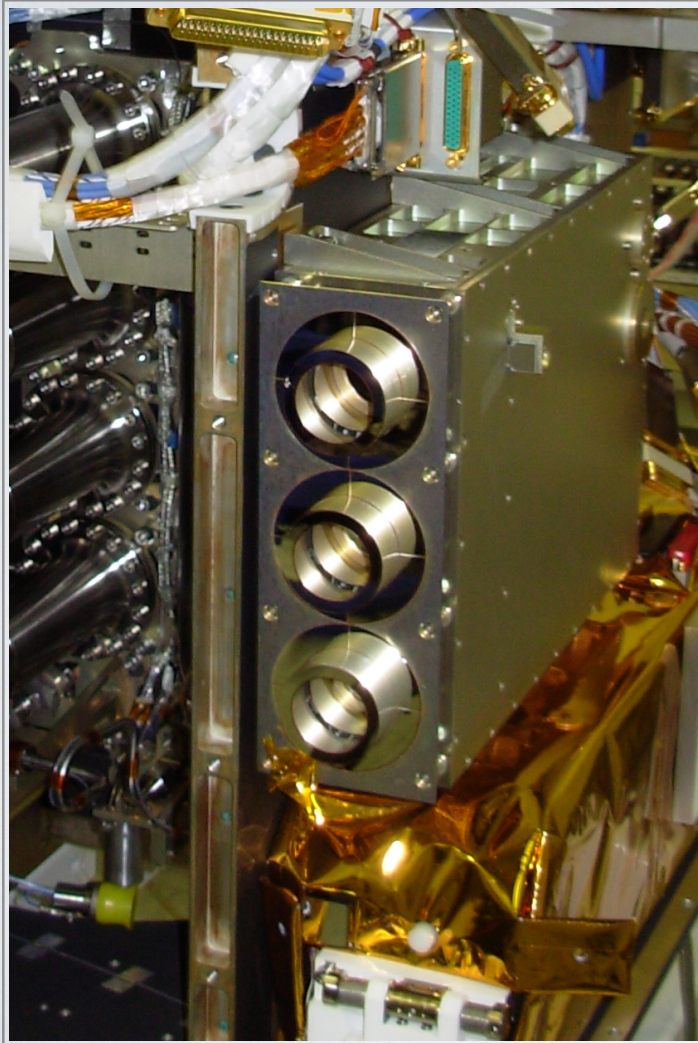


PROBA2 INSTRUMENTATION

Large **Y**ield **R**adiometer

Sun **W**atcher with **A**ctive Pixel System & Image **P**rocessing

LYRA

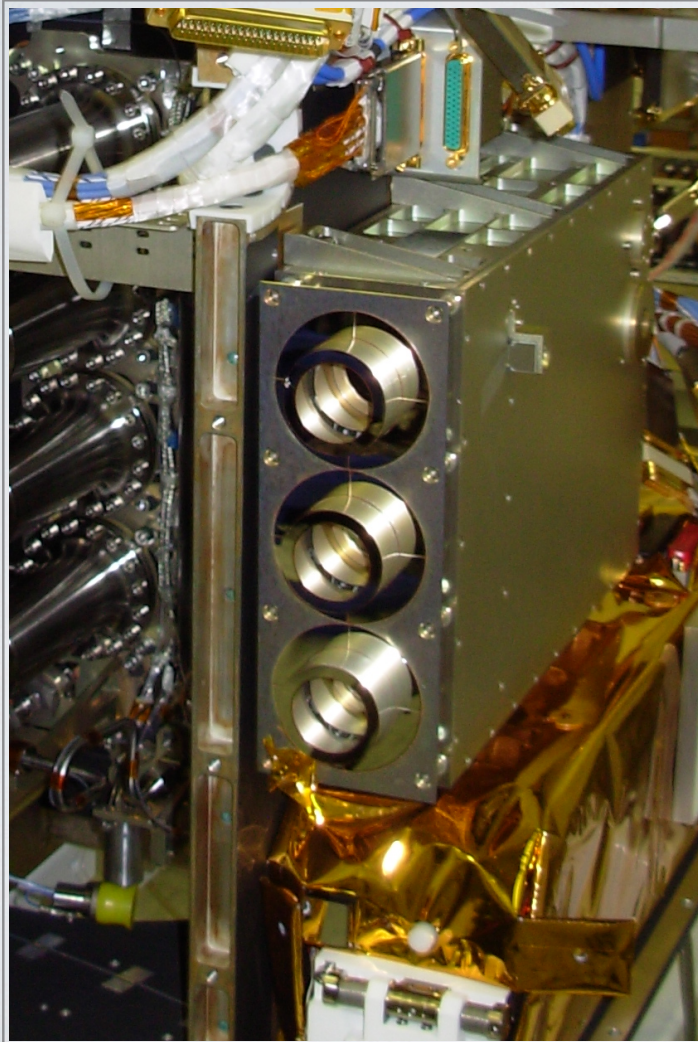


PI: Marie Dominique (ROB)

Important Swiss Contribution:
Werner Schmutz (PMOD-WRC)



LYRA



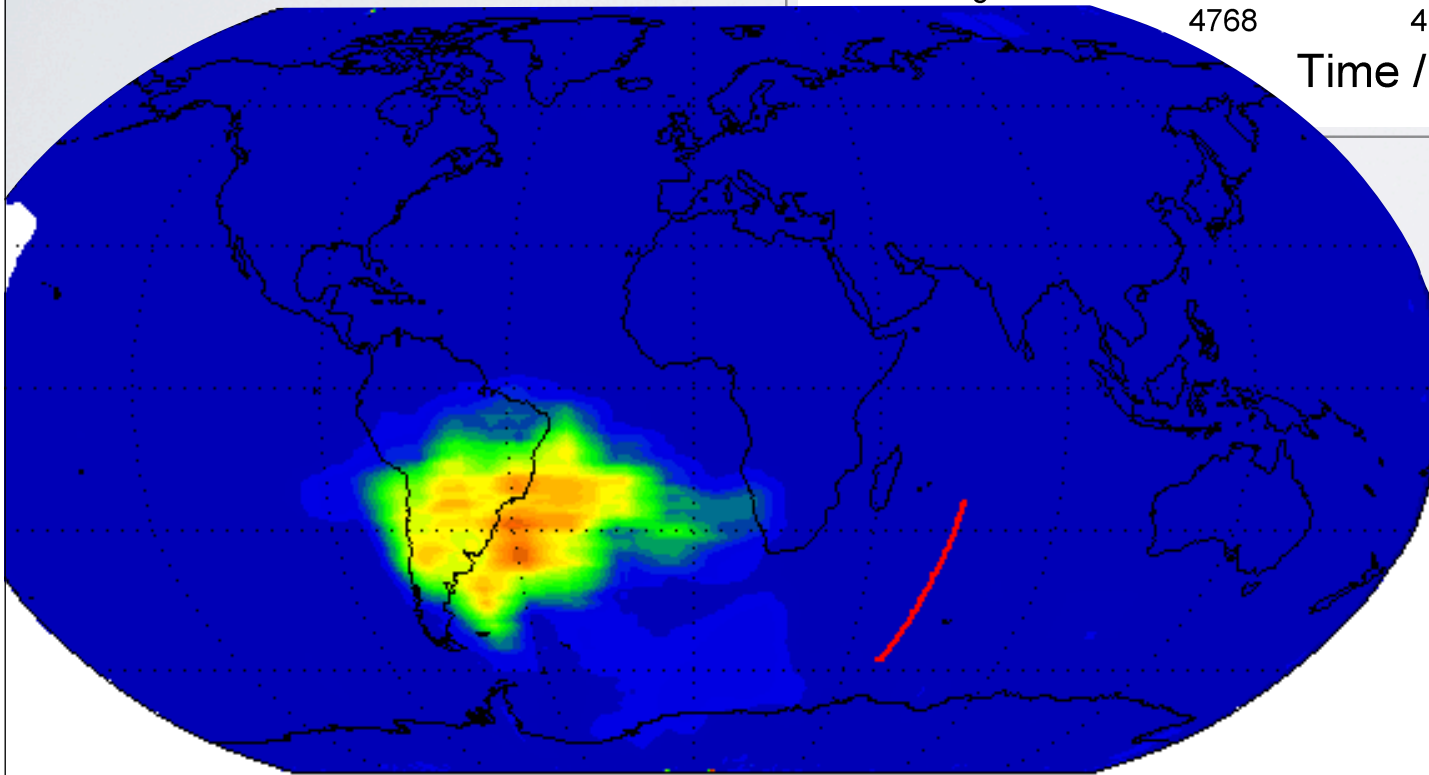
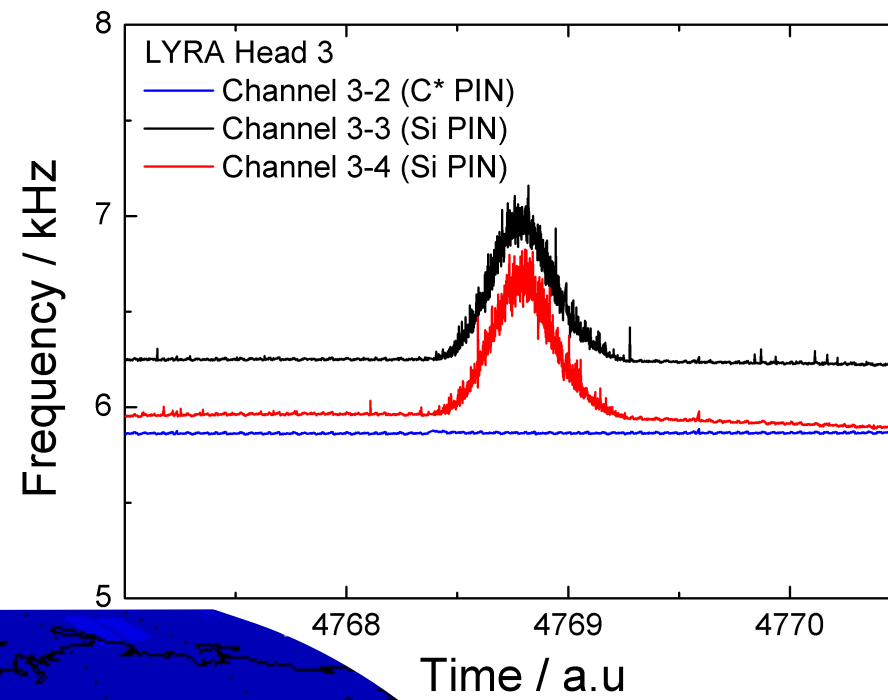
Lyman- α :
120-123 nm

Herzberg Continuum:
190-222 nm

Aluminum Filter:
17-80 nm+a bit of soft X-rays

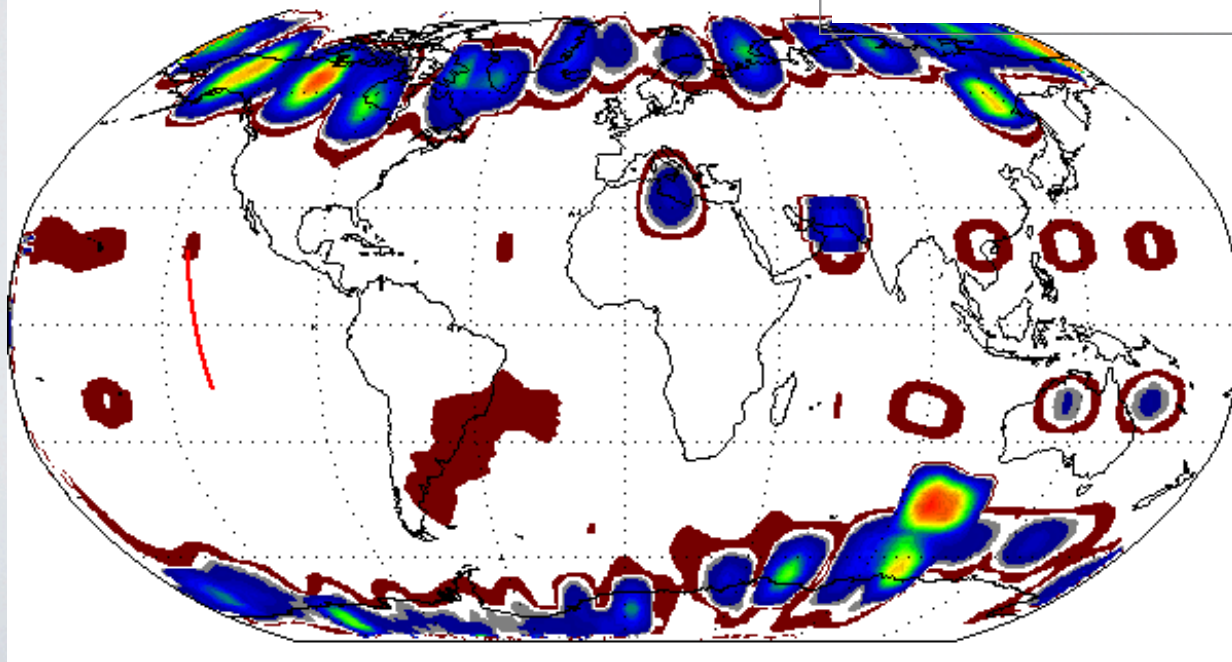
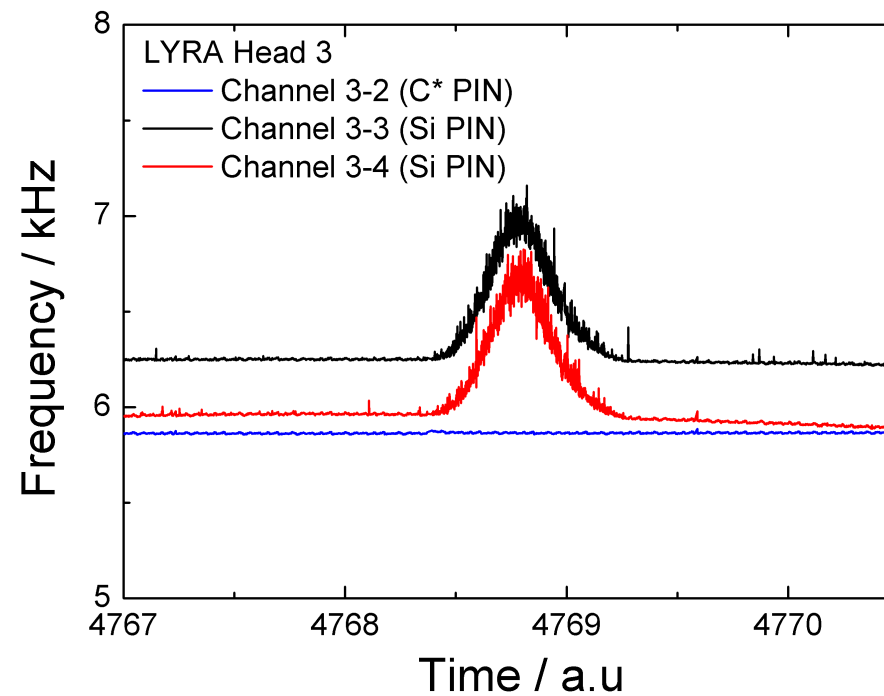
Zirconium Filter:
6-20 nm+a bit of soft X-rays

SOUTH ATLANTIC ANOMALY

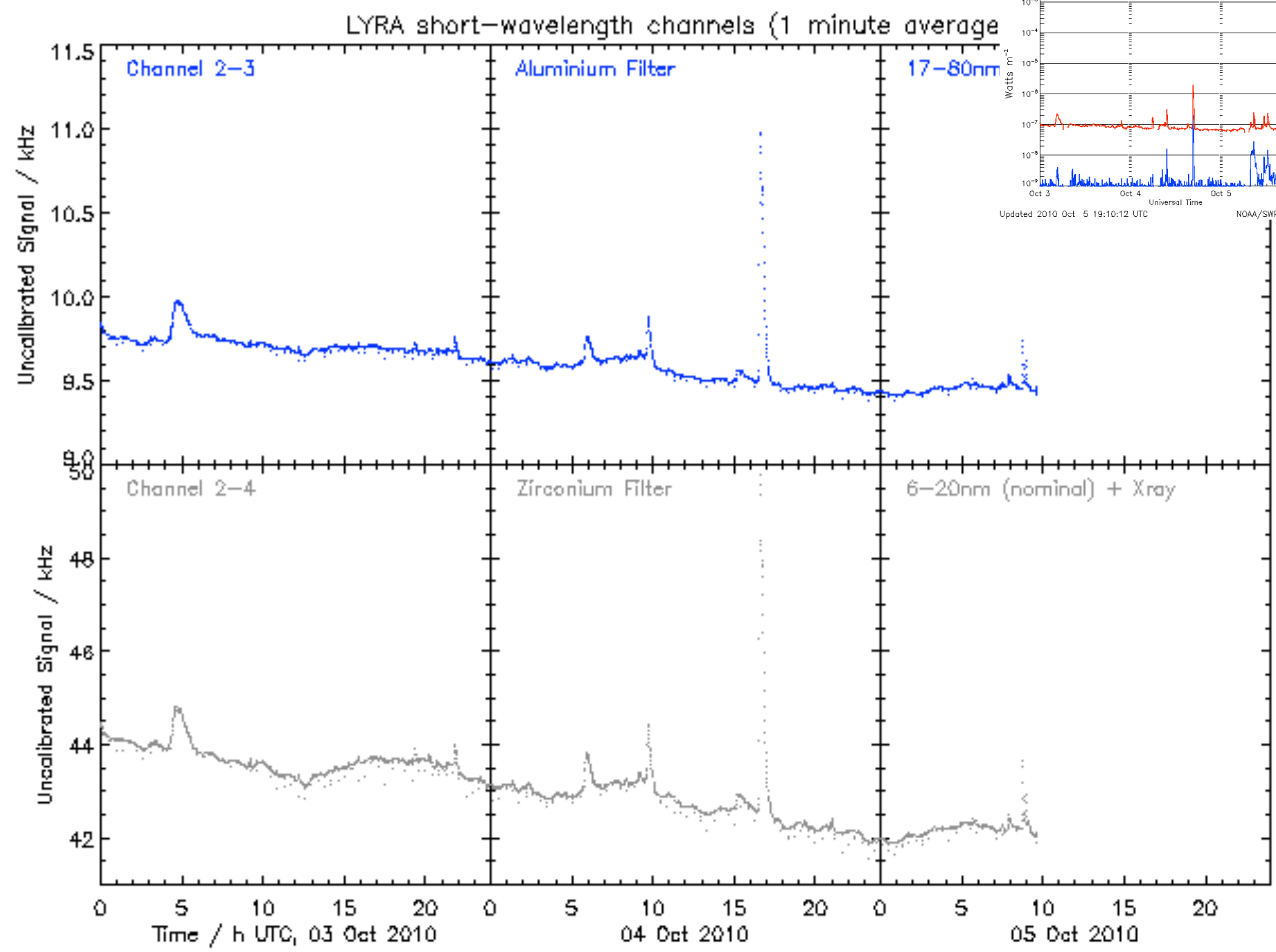
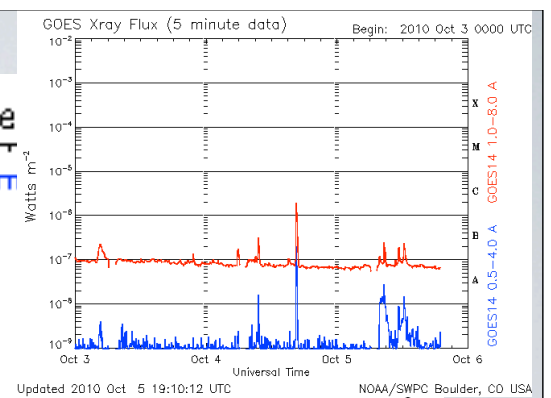


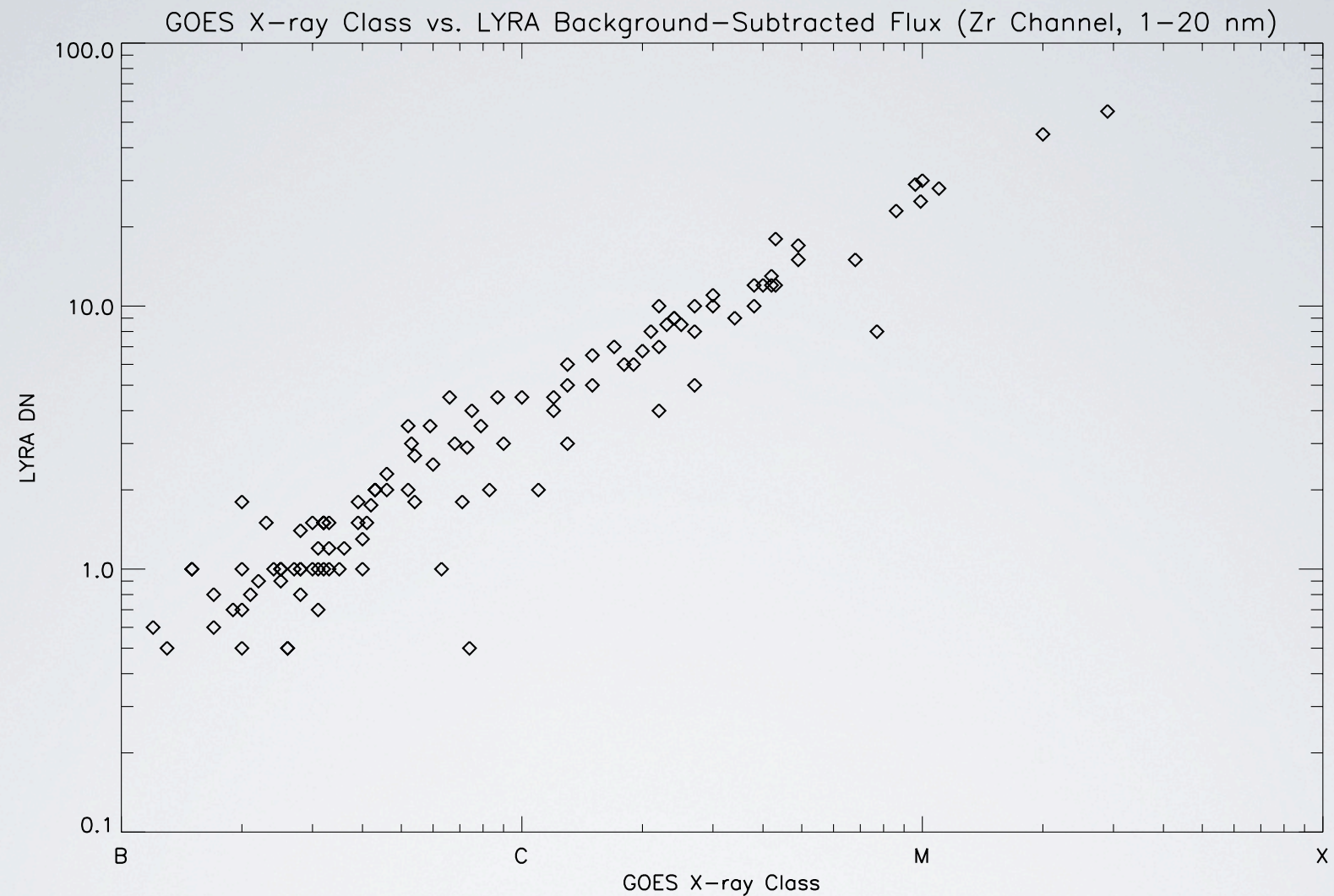
Work by
Daniel Vagg & Joe Zender

AURORAL ACTIVITY (APRIL 6 2010)



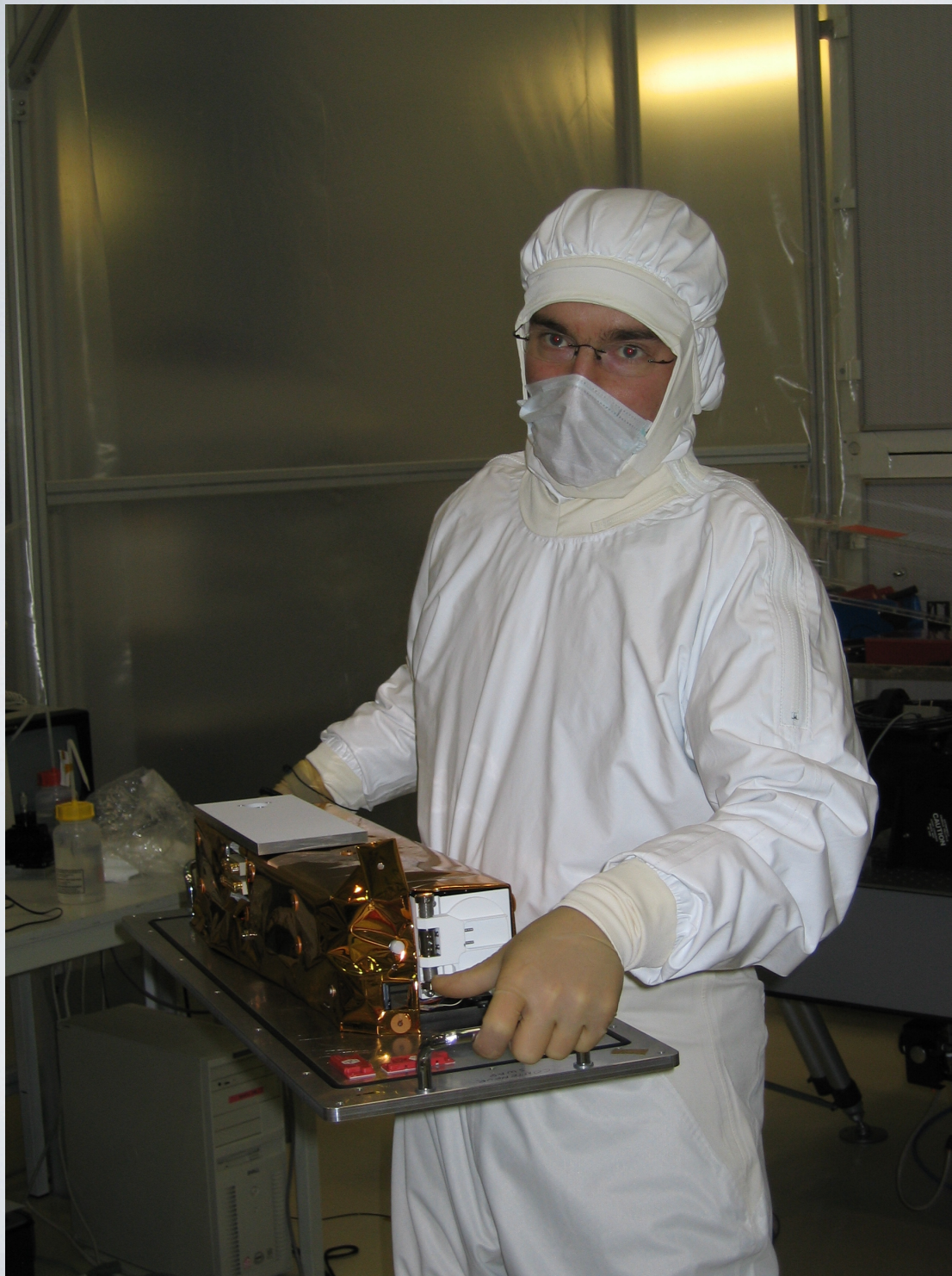
Work by
Daniel Vagg & Joe Zender





LYRA & GOES FLUX

Flares observed in 2010, LYRA Zr Channel

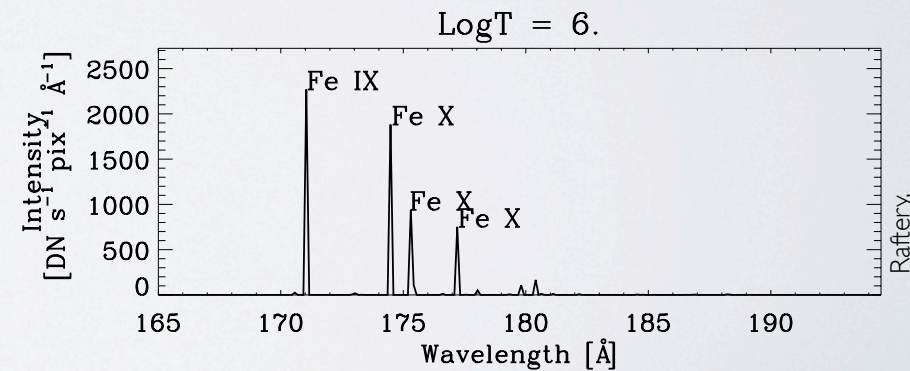
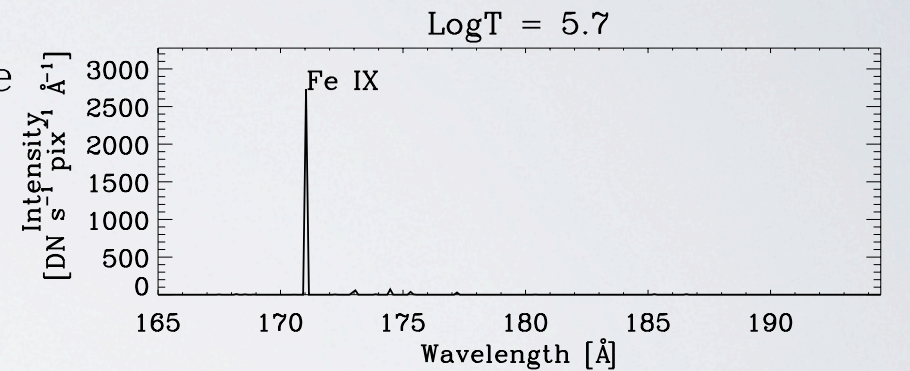
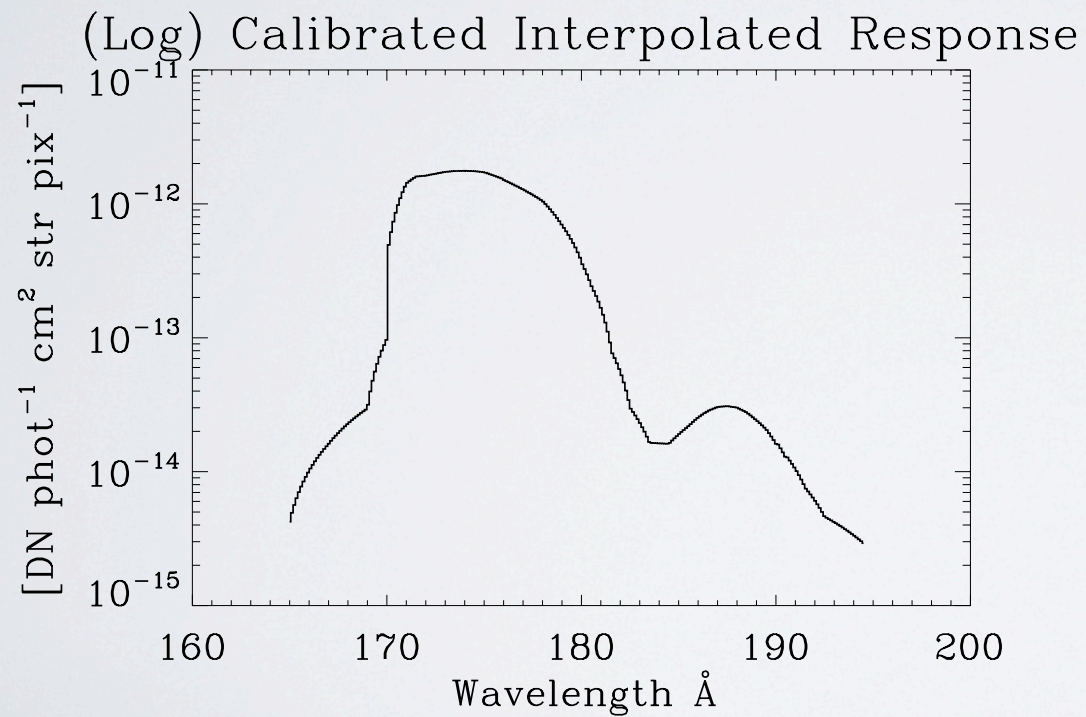


Sun Watcher using APS and Image Processing

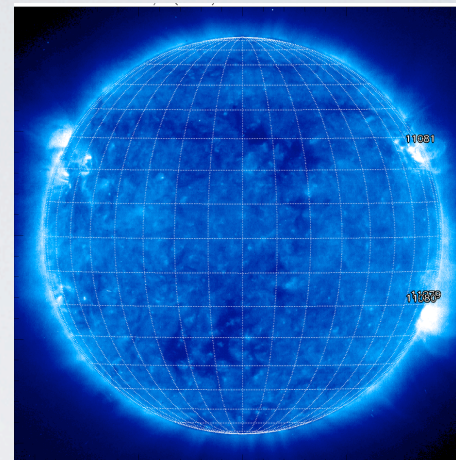
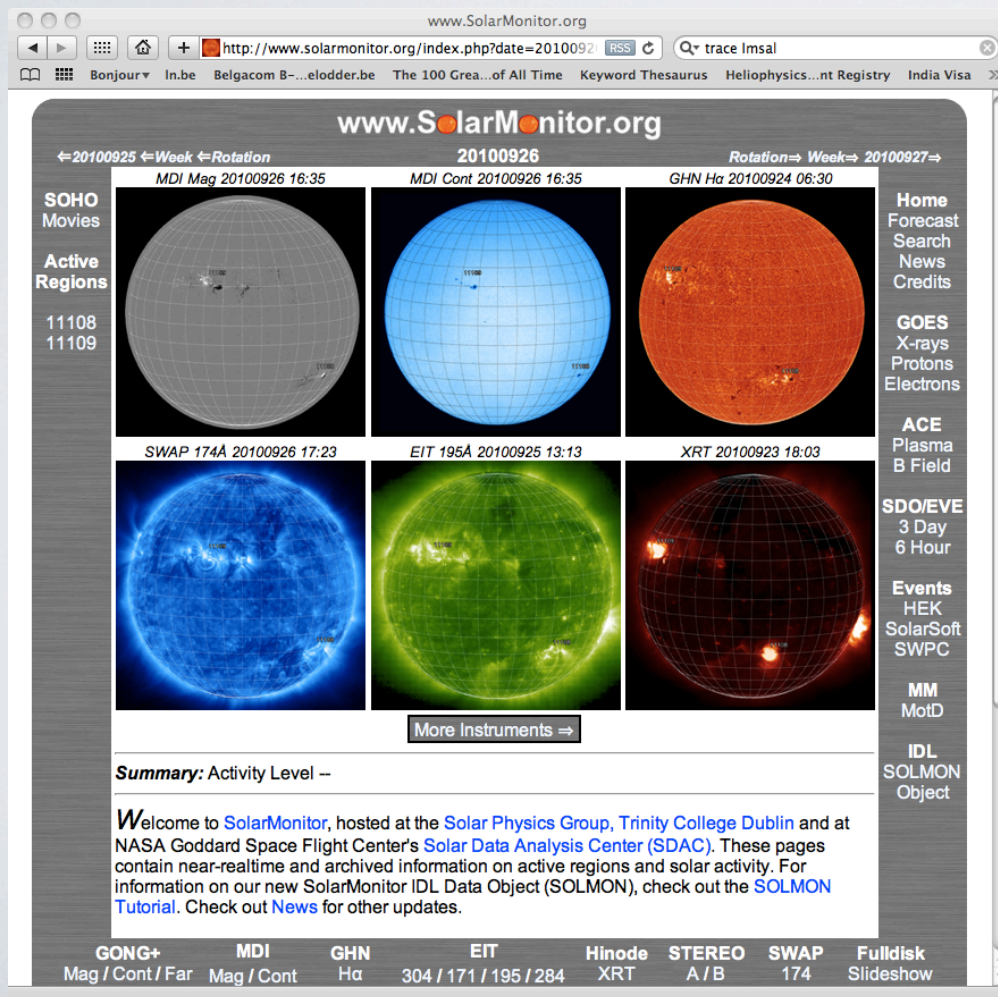
PI: David Berghmans (ROB)
Jean-Marc Defise (CSL)

JP Halain (Centre Spatial de Liege)
SWAP project manager

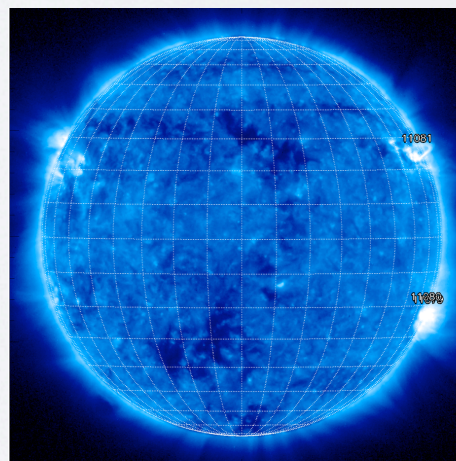
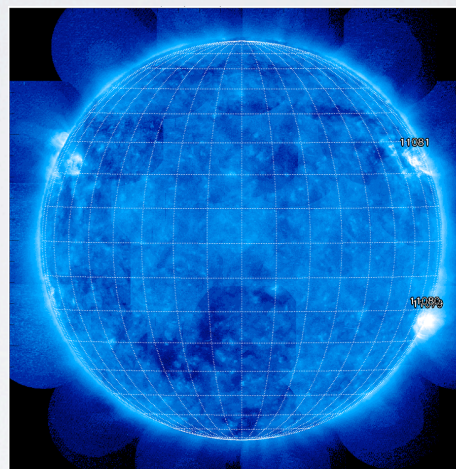
SPECTRAL RESPONSE



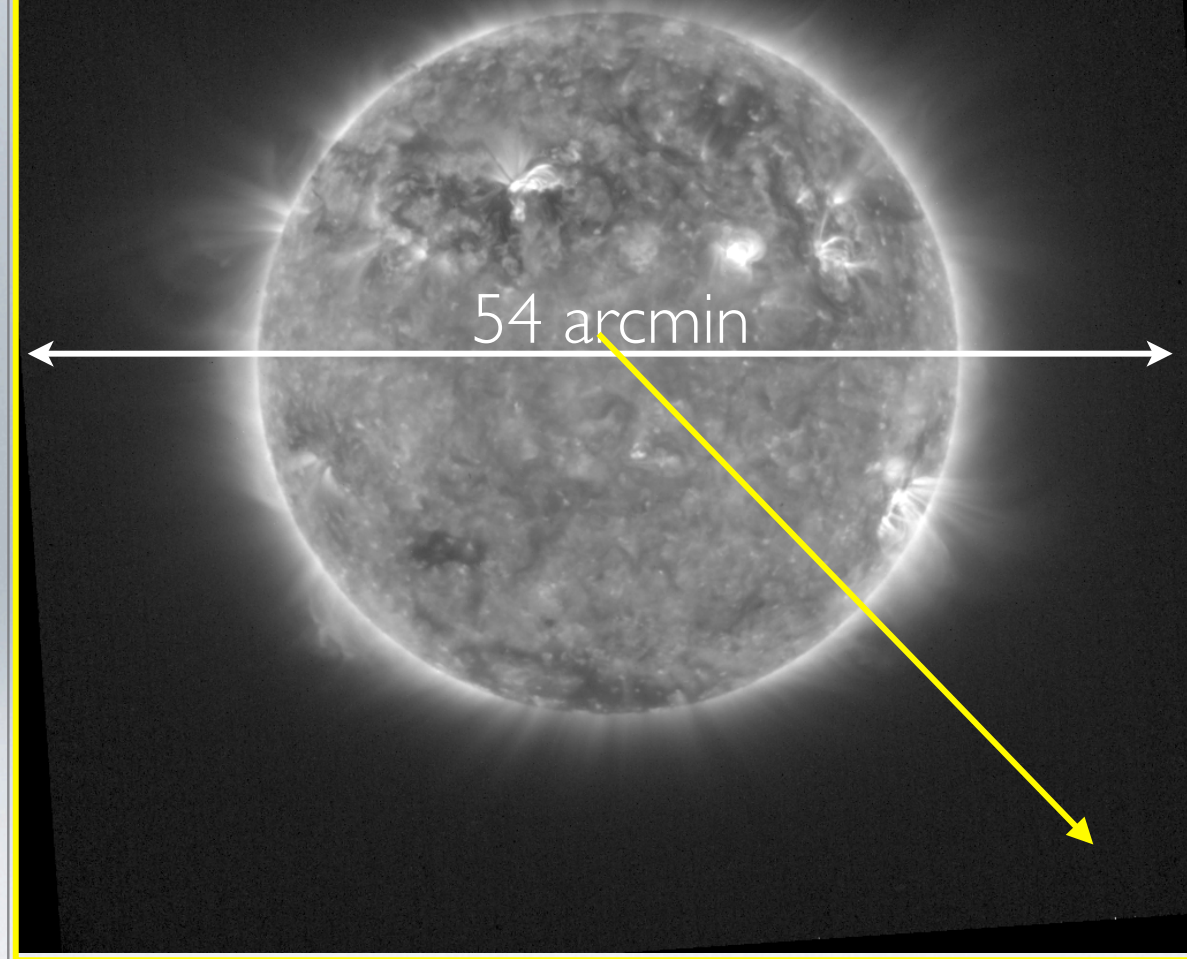
SPECTRAL RESPONSE



EIT

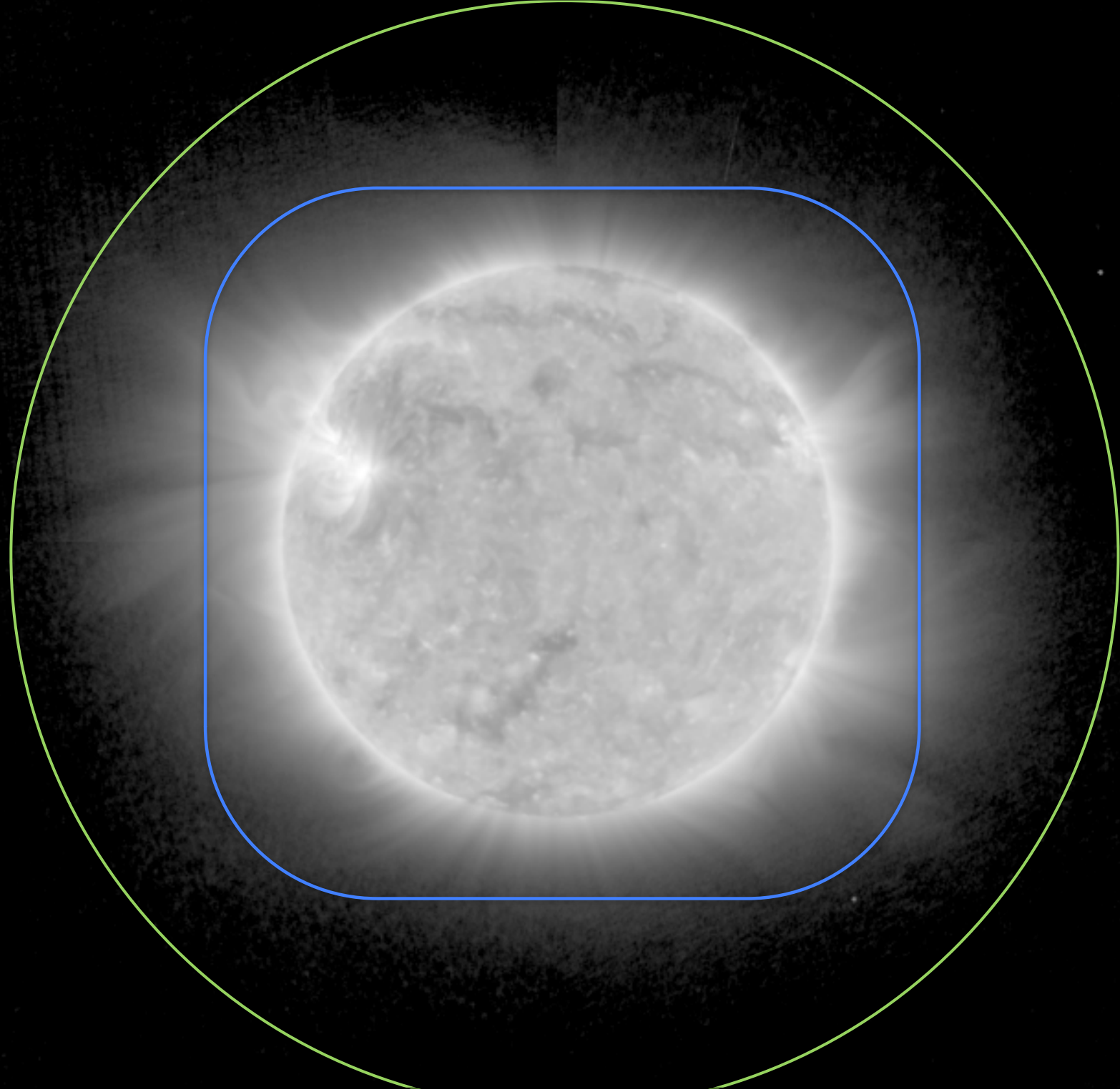
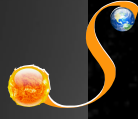


Off-pointing CME Tracking



SWAP VS. AIA ON SDO

Work by Vladimir Slemzin (Lebedev) 11 July

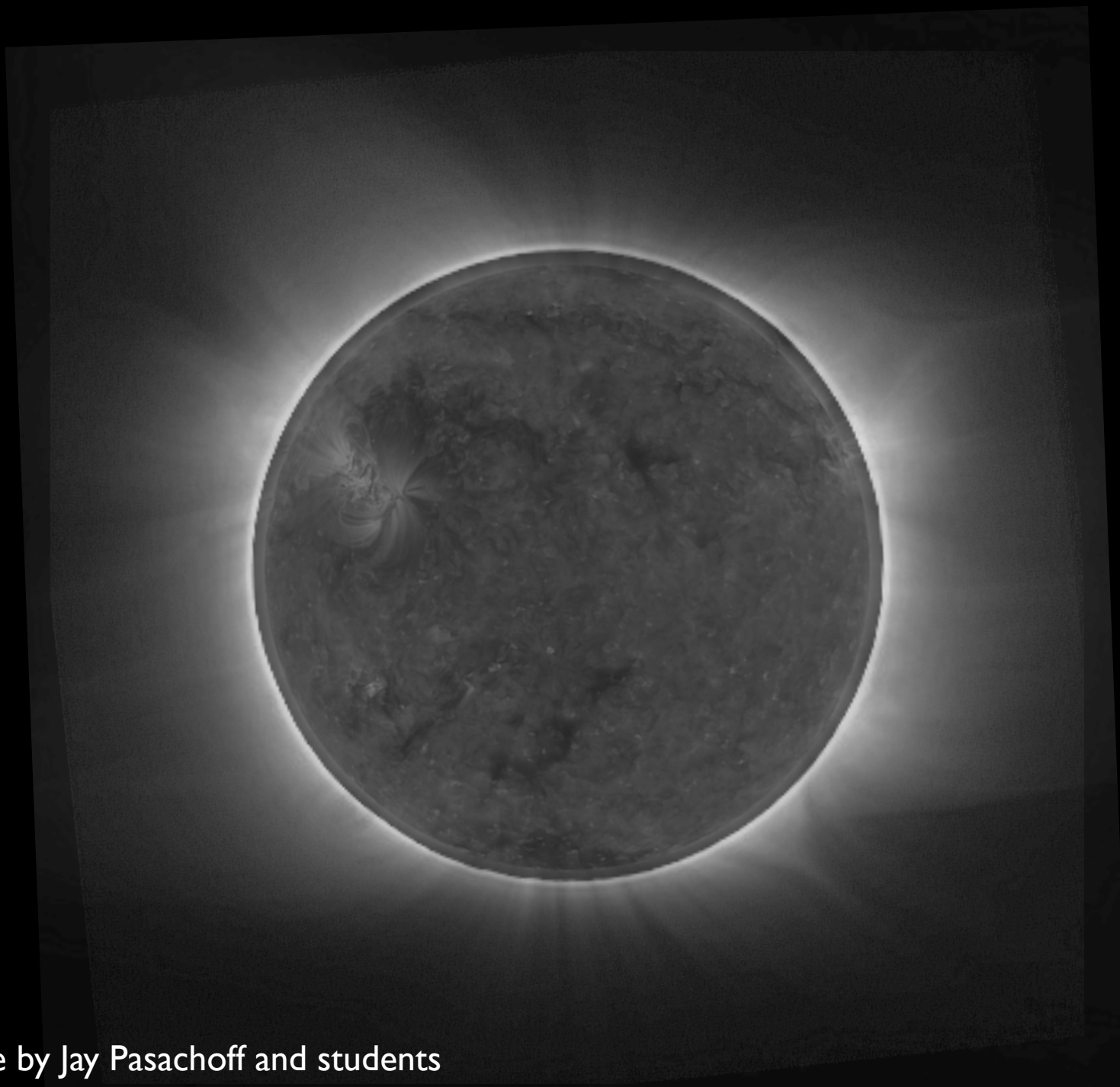




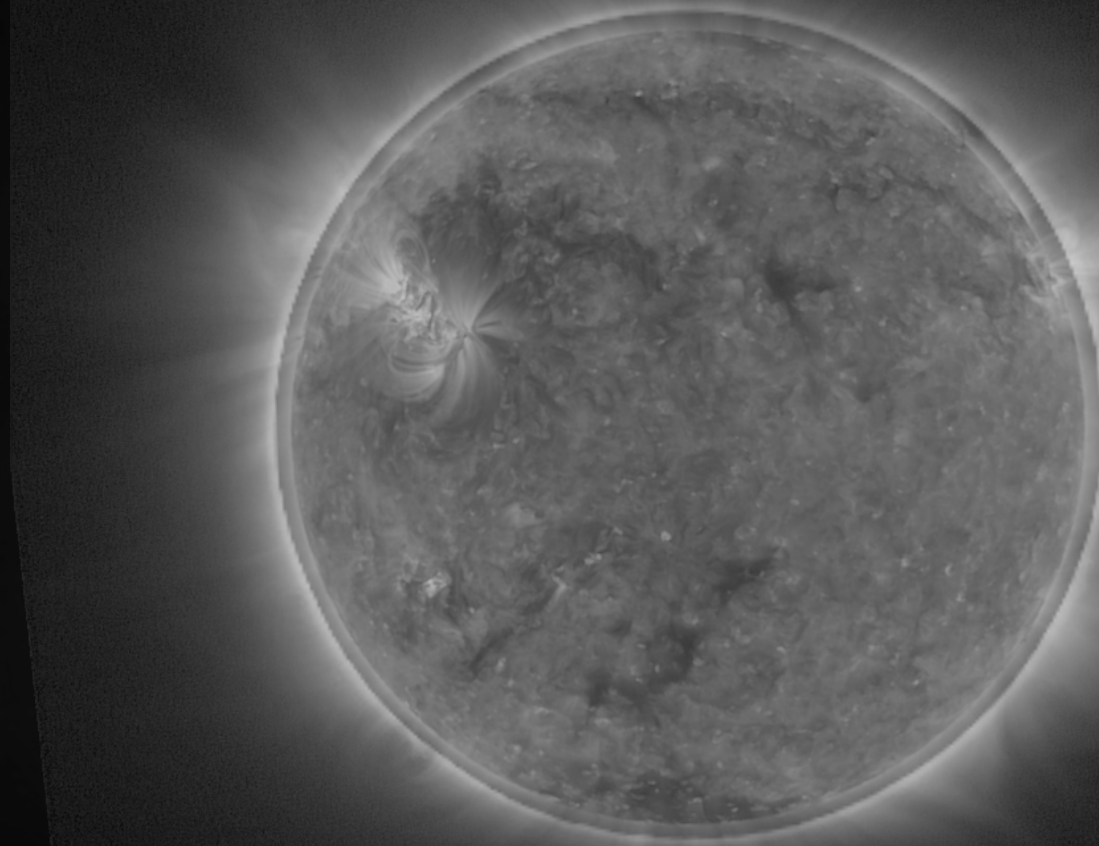
Eclipse image by Jay Pasachoff and students
from Eastern Island July 11 2010



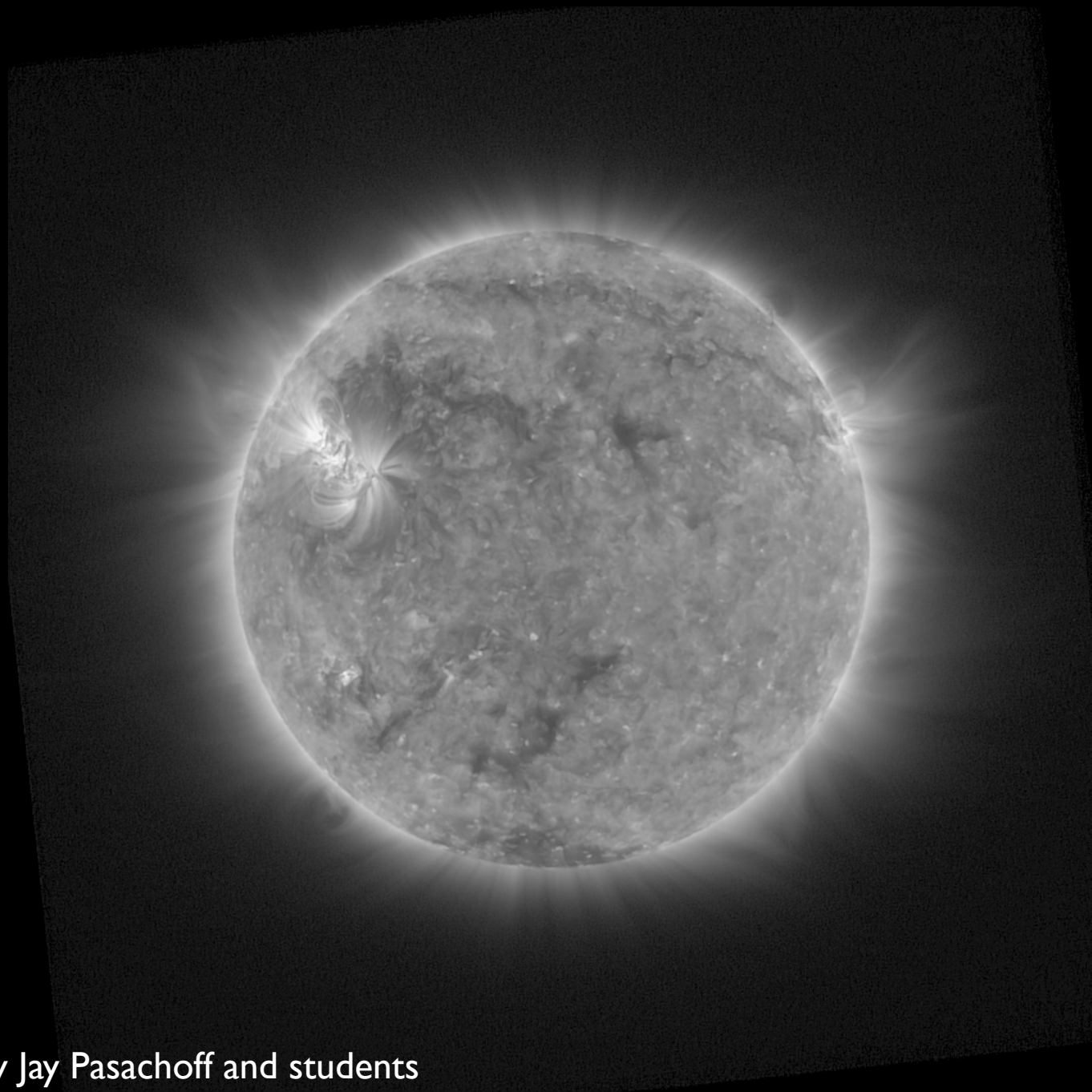
Eclipse image by Jay Pasachoff and students
from Eastern Island July 11 2010



Eclipse image by Jay Pasachoff and students
from Eastern Island July 11 2010

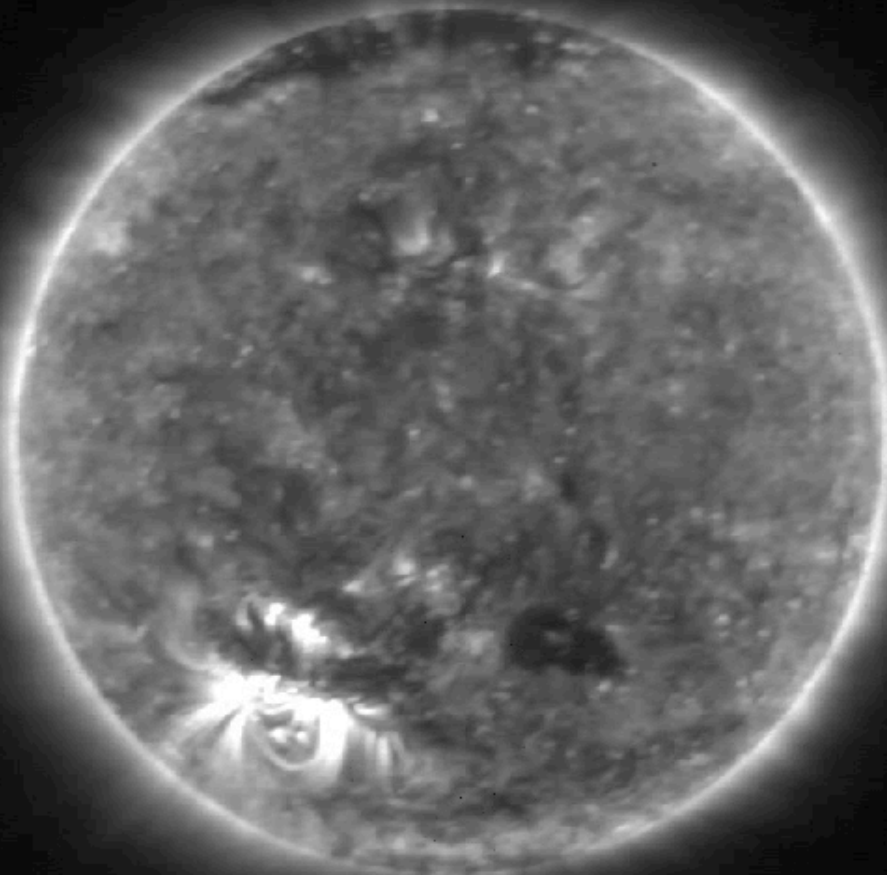


Eclipse image by Jay Pasachoff and students
from Eastern Island July 11 2010



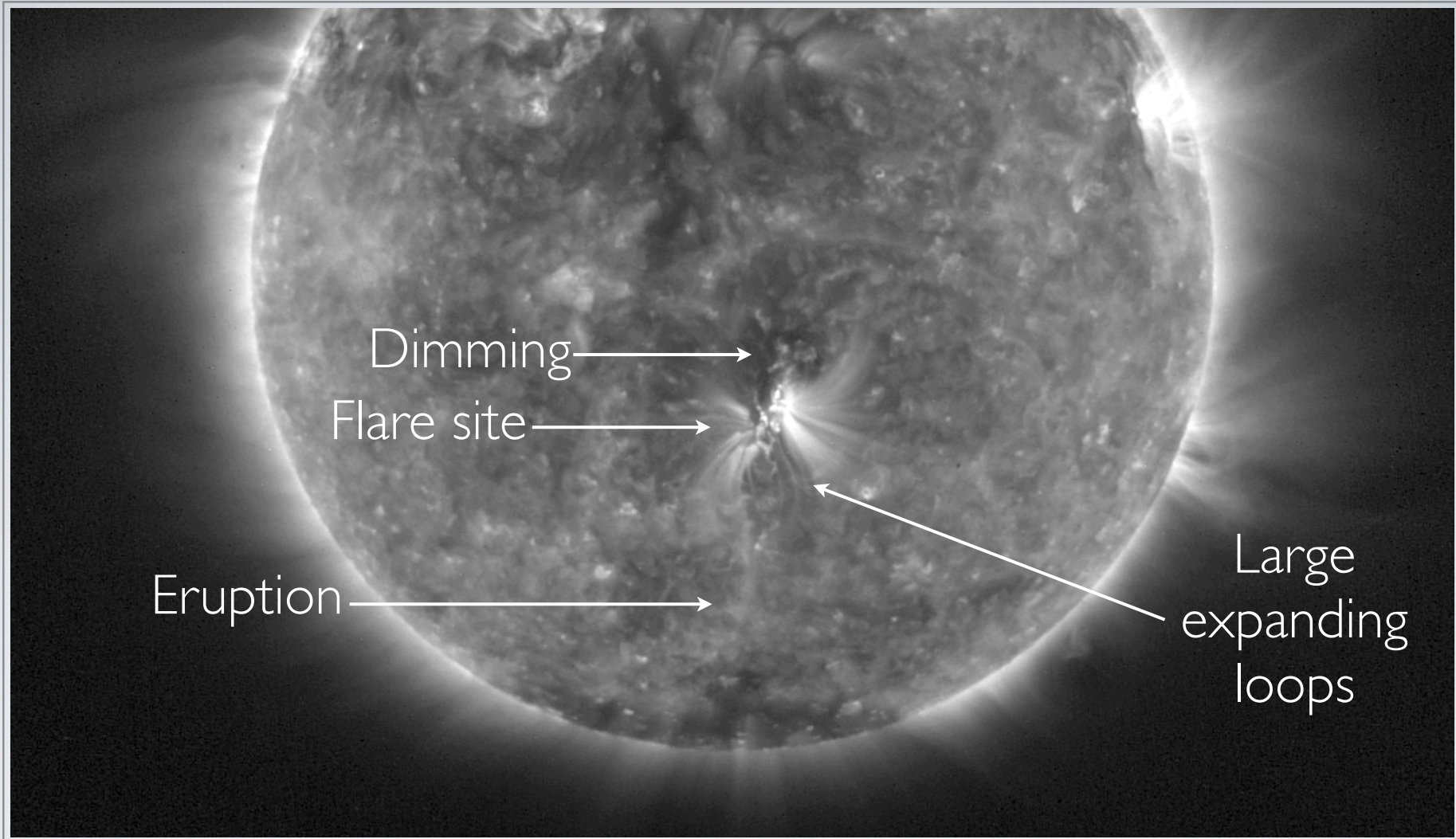
Eclipse image by Jay Pasachoff and students
from Eastern Island July 11 2010

ANNULAR SOLAR ECLIPSE



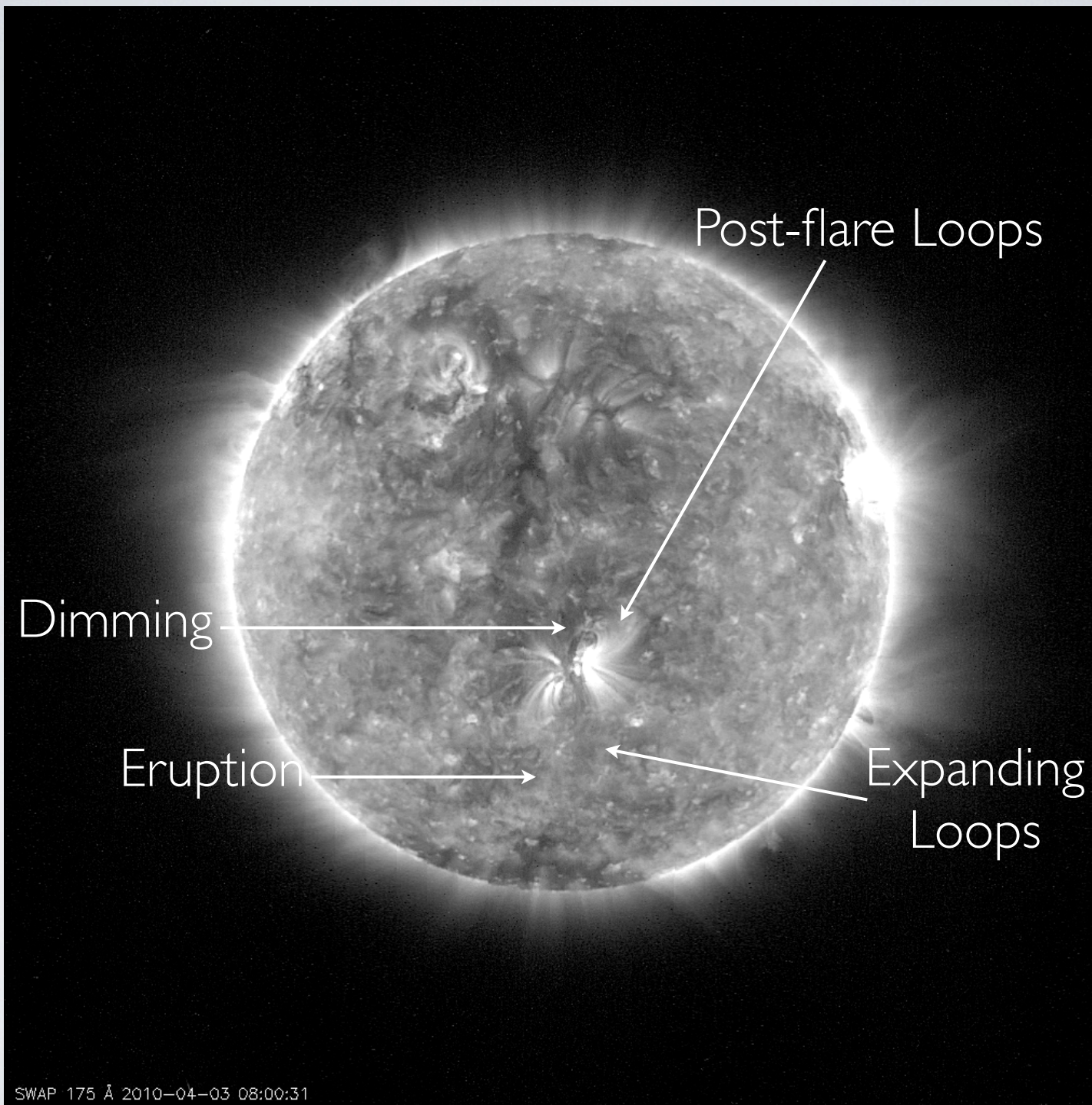
15 January 2010, 06:00 UTC

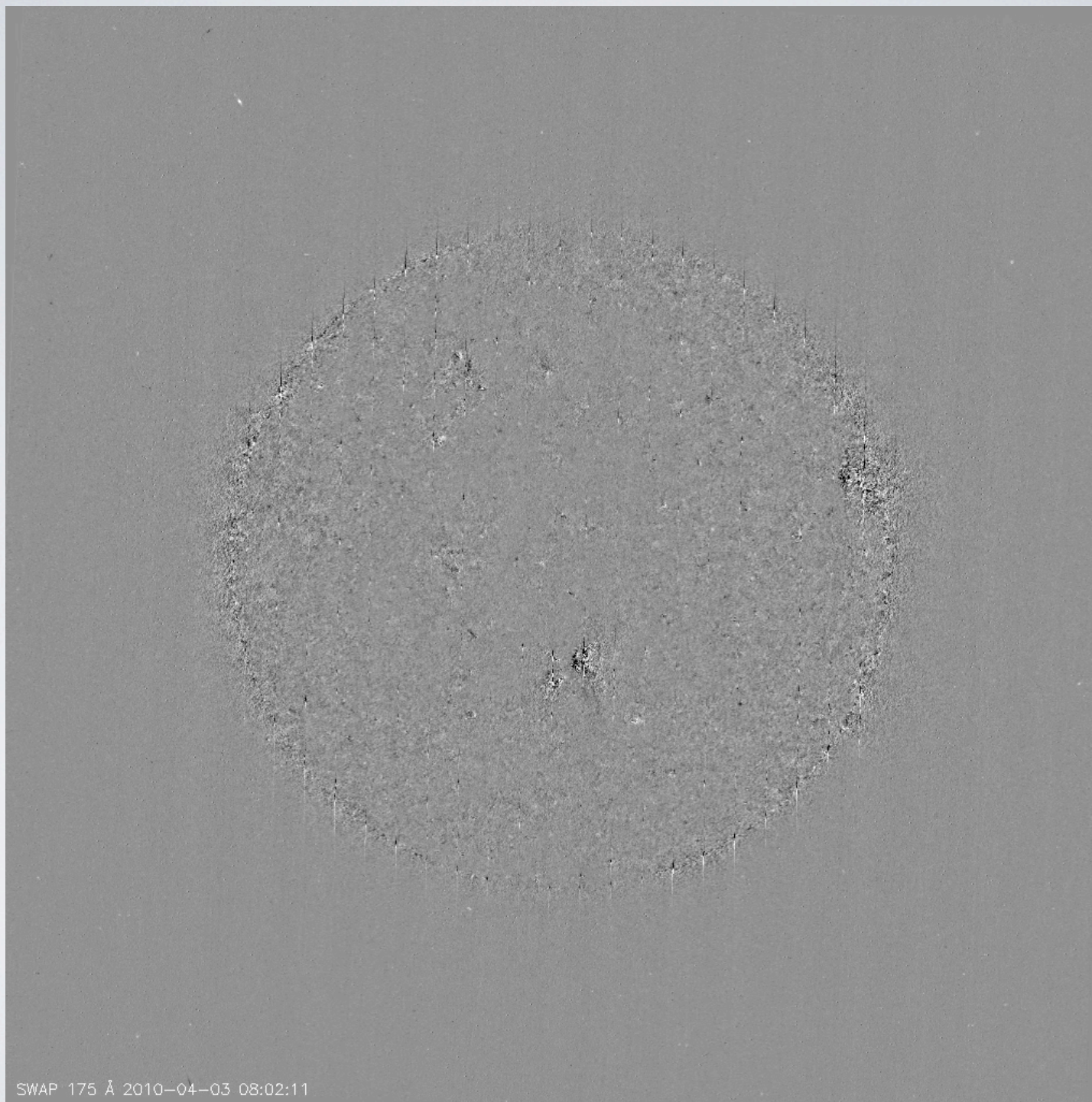




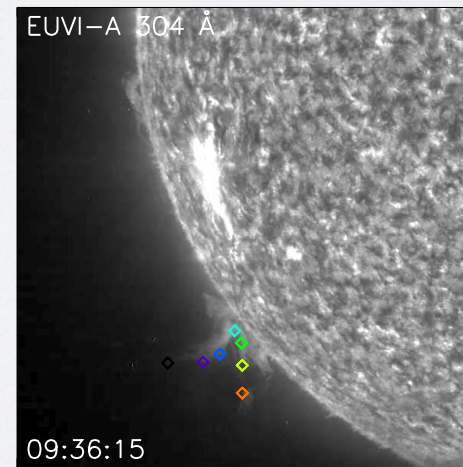
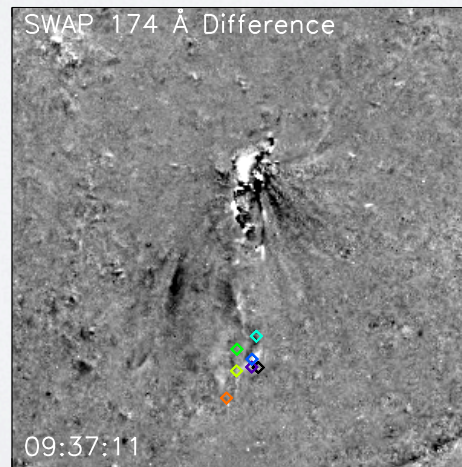
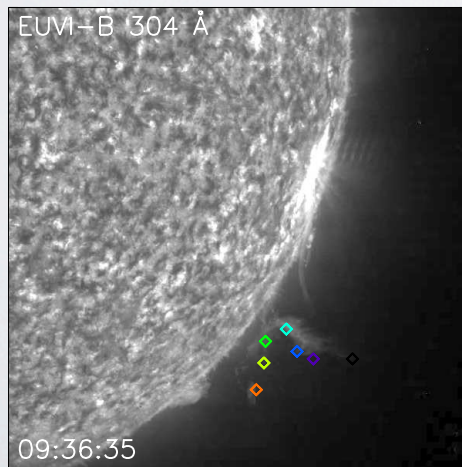
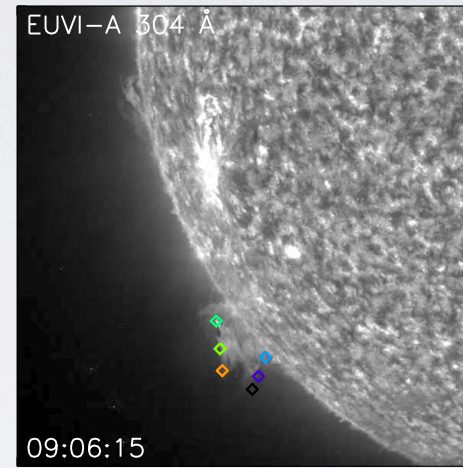
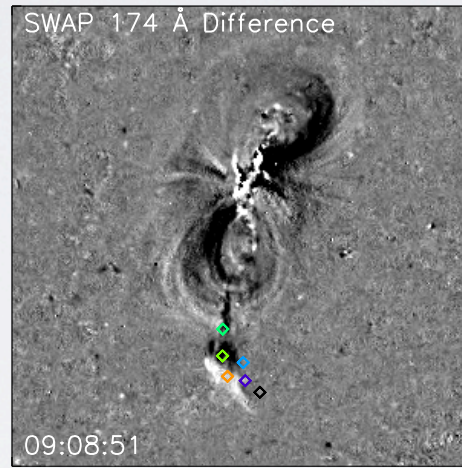
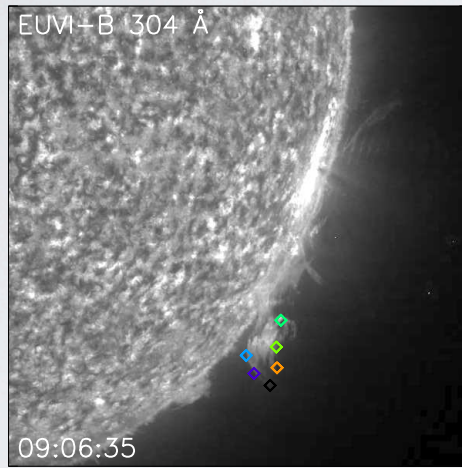
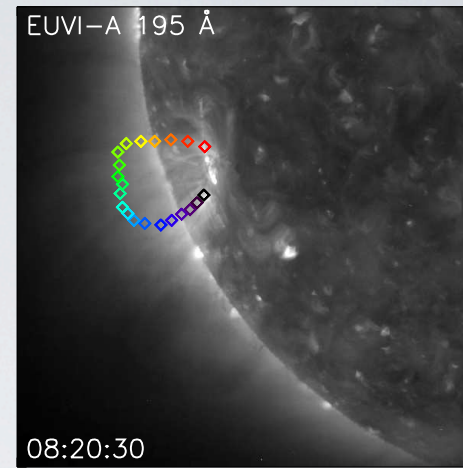
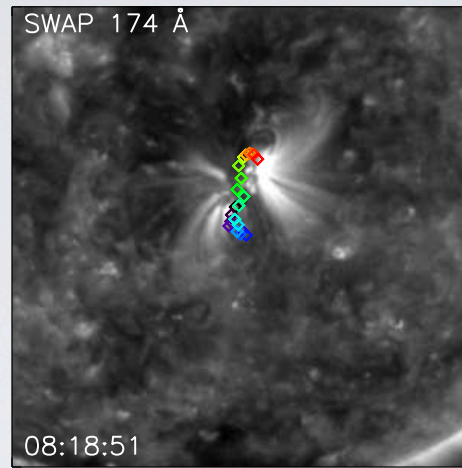
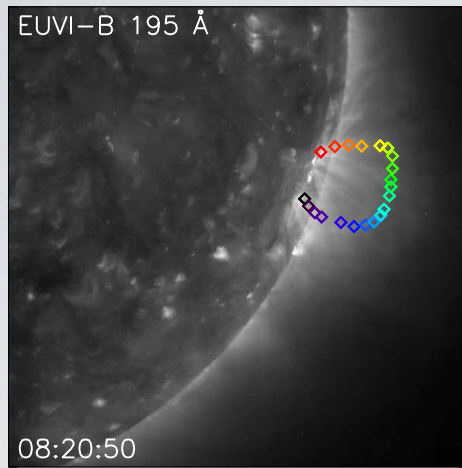
ERUPTION & FLARE

3 April 2010, 09:30 UTC ☀ B7.4 Flare ☀ Geoeffective CME



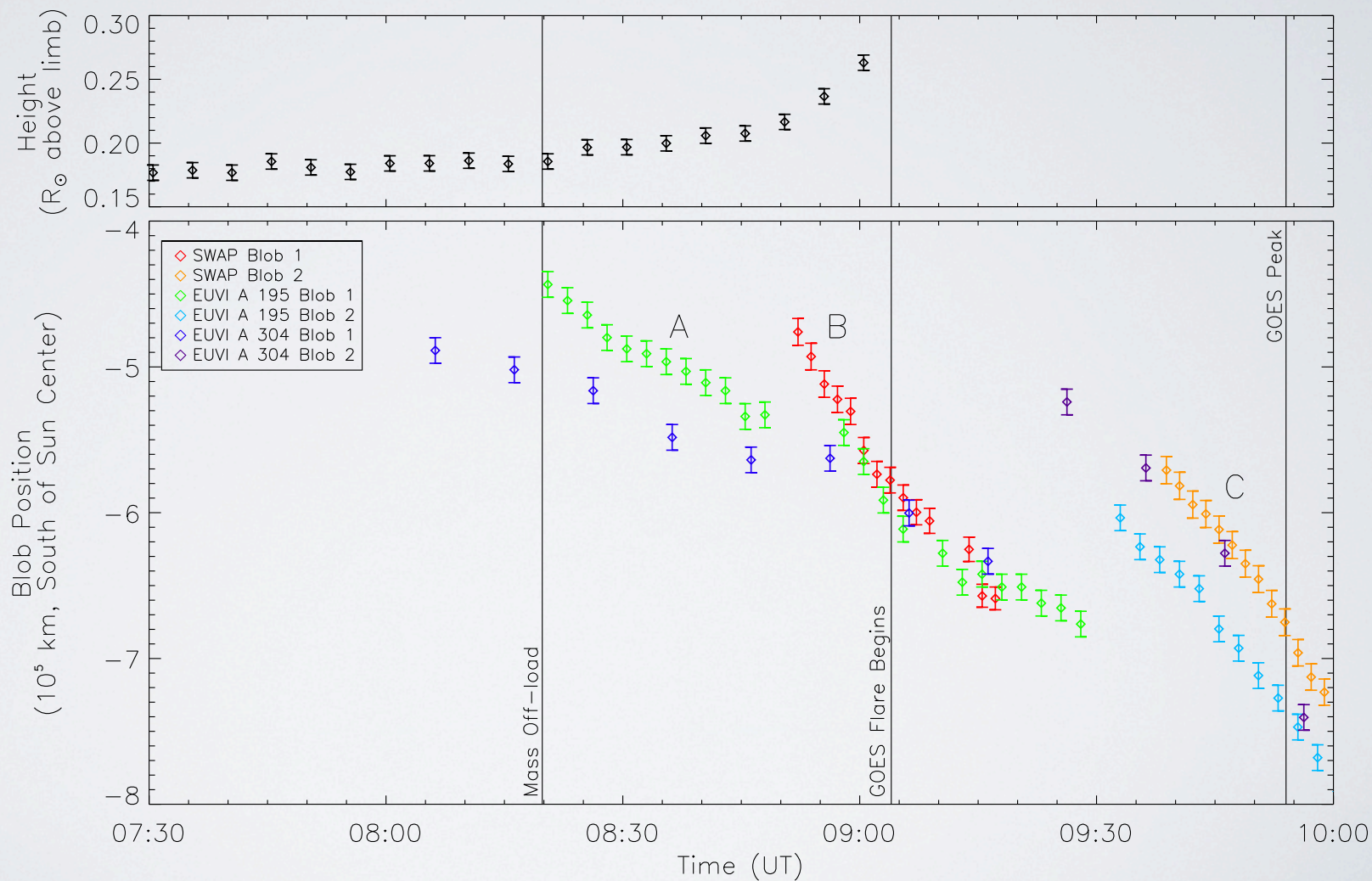


SWAP 175 Å 2010-04-03 08:02:11

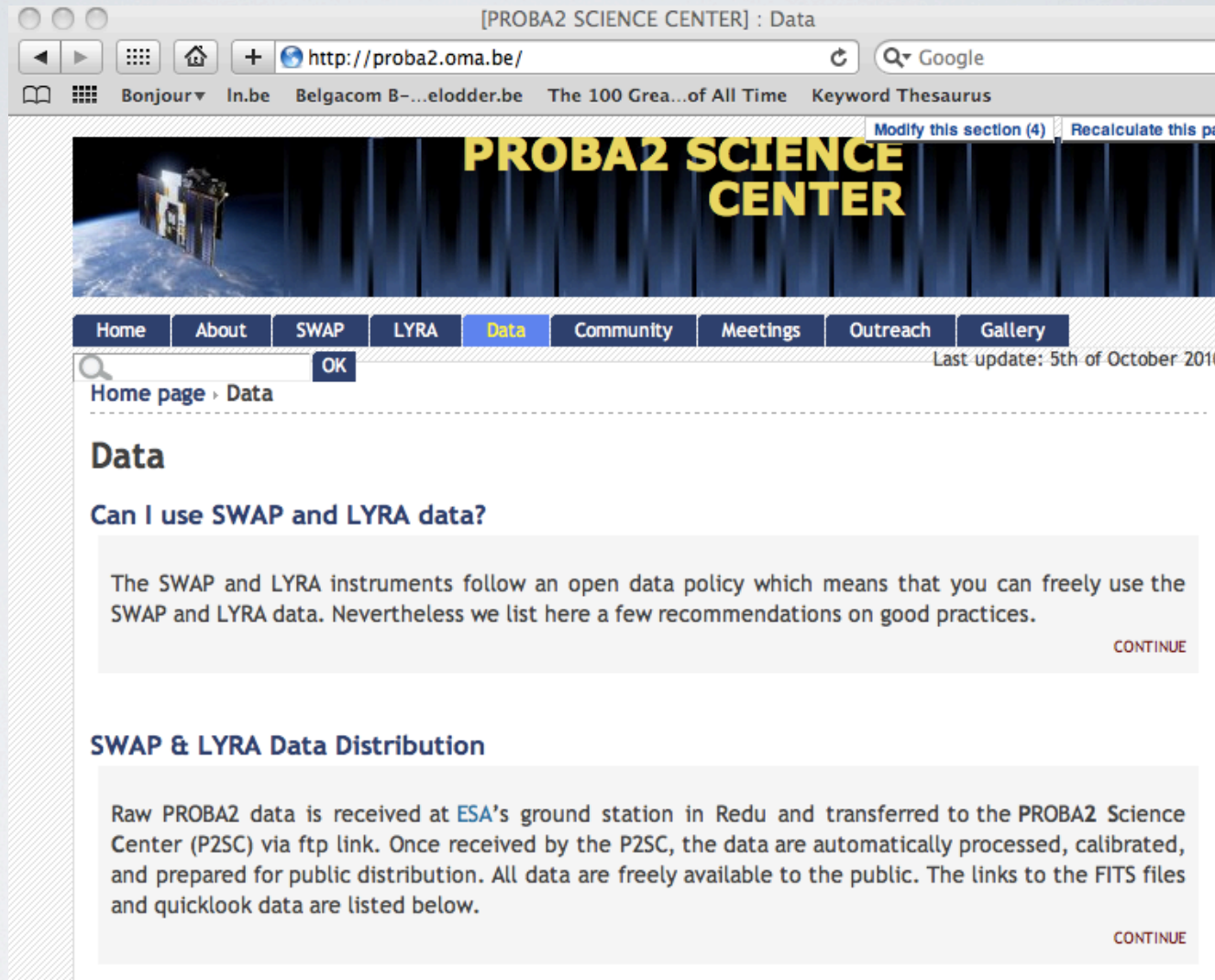


MASS OFF-LOADING

Seaton, Mierla, et al, 2010
Apj Lett (submitted)



<http://proba2.sidc.be>



The screenshot shows a web browser window with the address bar displaying <http://proba2.oma.be/>. The page title is "[PROBA2 SCIENCE CENTER] : Data". The browser's address bar also shows a Google search bar. The page features a header with the text "PROBA2 SCIENCE CENTER" and a navigation menu with links: Home, About, SWAP, LYRA, Data (highlighted), Community, Meetings, Outreach, and Gallery. Below the navigation menu, there is a search bar with the text "Home page > Data" and a button labeled "OK". The main content area is titled "Data" and contains a section titled "Can I use SWAP and LYRA data?". This section includes a paragraph: "The SWAP and LYRA instruments follow an open data policy which means that you can freely use the SWAP and LYRA data. Nevertheless we list here a few recommendations on good practices." and a "CONTINUE" link. Below this, there is another section titled "SWAP & LYRA Data Distribution" which includes a paragraph: "Raw PROBA2 data is received at ESA's ground station in Redu and transferred to the PROBA2 Science Center (P2SC) via ftp link. Once received by the P2SC, the data are automatically processed, calibrated, and prepared for public distribution. All data are freely available to the public. The links to the FITS files and quicklook data are listed below." and another "CONTINUE" link.

swap_lyra@oma.be

RECENT MOVIE