

## Acknowledgement - Eighth European Space Weather Week 2359043

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### Abstract Title

Automated flare detection and localization with PROBA2

### Abstract Text

The SWAP EUV imager onboard PROBA2 provides a non-stop stream of coronal EUV images at a cadence of typically 100s. These images show the solar drivers of space weather, such as flares and erupting filaments. We developed a software processing pipeline that automatically processes the images and localizes and identifies flares. Together with the sister instrument LYRA (a UV radiometer) we can also estimate the magnitude of the flares in the well known ABCMX scale of NOAA. With the combination of SWAP and LYRA, as small ESA instruments, and our software, we can provide an independent service to monitor flare activity. The output of this software is meant as a service to/from the Space Weather Segment of ESA's Space Situational Awareness Program. In this paper we will present the concept of the software pipeline, statistics on its success and the online display in real-time of its results.

### Topic

05 Session 4a- Solar Image Processing for Space Weather

### Presentation Type

Oral

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### List of Authors

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