Space Science Seminar
Friday, 2015 April 17
10:30 a.m.
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The SWAP EUV Imager on Board PROBA2

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Host: Dr. Amy Winebarger

SWAP is a miniaturized EUV solar telescope on board ESA's Project for On Board Autonomy 2 (PROBA2) spacecraft, which was launched in November 2009. Although limited in capabilities compared to other contemporary EUV imagers, SWAP serves as a test-platform for a number of new technologies and has produced some unique observations of the large-scale solar corona. In particular, SWAP features the first Active Pixel Sensor (APS) camera used in orbit for solar physics; APS detectors will be used in the upcoming ASPIICS coronagraph on PROBA3 and the Extreme Ultraviolet Imager on Solar Orbiter. SWAP also features the largest field-of-view for any active Earth-orbiting EUV imager, giving it a unique view of the extended EUV solar corona. In this talk I will provide a brief introduction to SWAP and discuss some of the lessons we have learned in using the instrument. I will also discuss several interesting research results from SWAP, including its observations of the long-term evolution of the solar corona, and observations of post-flare giant arches associated with Active Region 12192, which produced an impressive outburst of activity in October 2014.

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http://solarscience.msfc.nasa.gov/colloquia/