

SDO EVE Science Workshop Action Items
Nov. 9-11, 2005

<u>Action Item Number</u>	<u>Responsible Person</u>	<u>Action Item Description</u>	<u>Status</u>
1	Woodraska, Eparvier	Better define the MEGS Quick-Look data for SURF and I&T (e.g. consider display procedures for MEGS Level 0B).	open
2	Tate	Can EVE observations be timed to be consistent with TAI time on intervals of 0.0 (like HMI and AIA)?	open
3	Eparvier, Kohnert	Add spacecraft roll calibration to EVE calibration plan (CMAD). Should use HMI/AIA roll calibration plan that has discrete roll angles (+/- 26°).	open
4	Eparvier, Jones	Include wavelength shift effects more completely in irradiance algorithms and error analysis	open
5	Pesnell and SDO data teams	SDO project needs to define standard (common) meta-data specifications	open
6	Woodraska, Woods	Define the SAM higher level data products (beyond the photon events defined for SAM Level 1A). For example, it might include SAM Level 2 that contains solar irradiance in constant energy bins. Also consider SAM images as virtual product that user specifies wavelength range and spatial resolution. Also define how the 0.1-7 nm range will be binned for the EVE Level 3 data product.	open
7	Woodraska, Warren	Define the critical emissions to extract for MEGS Level 2 data products (and also used in EVE Level 3). At least include the 7 EUV emissions measured by AIA.	open
8	Woodraska, Viereck, Tobiska	Develop concept for irradiance server (common interface / platform / format). For example, resolve FTP process (push vs pull) for distributing EVE space weather data products.	open
9	Pesnell, Eparvier, Bush, Schrijver, Viereck	Define solar event log for SDO mission (e.g., flare intensity and peak time, flare location on solar disk). Consider creating log as near real-time file using SDO's space weather data products.	open
10	Eparvier	Plan to have Solar EUV Irradiance Validation Workshop for spring 2007 to discuss EUV measurements from rocket, TIMED-SEE, SOHO-SEM, GOES-EUVS, STEREO. Also include solar EUV irradiance models in this comparison / validation effort (either part of same workshop or as separate workshop concerning modeling)	open
11	Jones, McMullin, Woodraska	Develop more completely the ESP algorithms that depend on solar EUV irradiance spectra (from MEGS)	open
12	Woodraska, Crotser	Develop algorithms to compress MEGS images into spectra. Will need example (predicted) images at different FOV angles.	open
13	Bryant, Eparvier	Optimize filter in-flight operations to reduce data gaps and using only single channel in calibration mode at a time	open
14	McCaffrey, Eparvier	Select some focussed topics in space weather research for EPO activities	open
15	Warren	Develop algorithm to determine differential emission measure (DEM) from EVE spectra. Consider routine production of the disk-averaged DEM and for comparison to AIA image DEM results.	open