

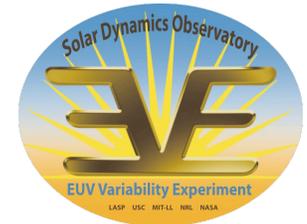
Friday Morning

9:00 am - Noon

Session 4: On-going EVE Planning and EVE Operations

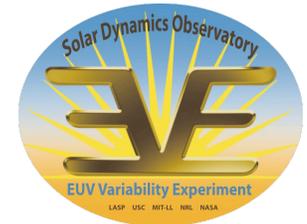
Goal: Make firm plans for EVE operations and data processing

- Continued discussion
 - Late Phase Peak Update (Rachel)
 - Are we “happy” with the MEGS-B Operation?
 - Data Formats...
- Action Items:
 - Review, Consolidate, Prioritize, Assign
- Future meetings and papers
- Summarize workshop results and action items



Action Items - Data Products

1. Generate Q_{EUV} (0-45 nm?) time series at full time resolution to help gauge how much impact flares and other sub-daily fluctuations may have on the atmosphere.
Tom-IDL save set
Routine: ESP, M-A 7-37 M-B
when available: Don L2 lines
2. Need a time averaged data product for science purposes, such as a L2 spectra product on 1-min resolution, so people don't have to download full data sets. L2 should have 360 spectra L2m 60.
Don/Chris: L2m full spectrum @ 1min
3. Want binning code to create bins (see data comp #1)
4. Determine how best to deal with the fact that EVE currently only has one bin from 0-7 nm, while the Stan bands have five bins in that range. Can do a model a la XPS. Can do one big band for now, then hope SAM inversion will pan out. May have a different solution for SWx product and science product.
see DC AI#1
5. For GAIM and JB2008, Kent needs from EVE LOC (at 1-min time granularity and 15-min cadence for GAIM and hourly lower for JB2008): S10 index, XRS-B proxy, Ly-alpha, E10 index, Torr et al 37+2 binned spectra.
Don: TEUV 0-105 or E10
6. Flare catalog like TIMED,
Don
7. Better visibility of EVE at HEK ---
Rachel, Don
 1. Request EVE data button
 2. EVE light curves



Action Items - Data Comparisons

1. Need a better way to compare spectra from EVE to other data and models (e.g. Torr et al 37+2 bins, 1-nm bins, 0.1 nm bins, 22 Stan bands). Discussed LASP providing an IDL routine to convert L2 spectra to different binning schemes.
2. Do EUVAC and EVE comparisons
3. Need to get bandpass functions for :
SEM 26-34 nm
GOES- EUV-A and EUV-B channels,
so we can produce a L0C product (and L2 Bands)
product that contains these bands. The L0C
product would be part of a backup for GOES
EUVS.

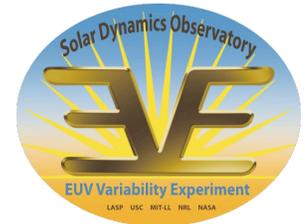
LASP provides idl code -
procedures to do binnings
Need a near real-time version for
L0C: **URGENT in 2wks to Tim!!!**
Tom: fill "best estimate" of out-of
range bands. normal and custom
table

Expand comparison and do paper

Leonid

Rodney

Don



Action Items - Forecast / Quick Look

1. Realtime forecasts of flare peak value and peak times from ESP data. Who should produce? LASP? SWPC? SET?
2. Use Kalman filtering on L0CS data. Reprocess old data to include filtering and call it V2.
3. L0C spectrum
4. MEGS-P L0CS data looks odd in that the 5 minutes of Ly-alpha data per each hour have a “caret” shape, possibly due to filtering? MEGS-P may need its own filter tuning.
5. Add to EVE data pages a time-series plot of ESP flare location with indicator of geoeffectivity (E vs W location and magnitude).
6. SWPC real-time access push/pull set an absolute time for efficient data access. 1min av available at specific time.

Rodney, SET, (ARJ, Chris)

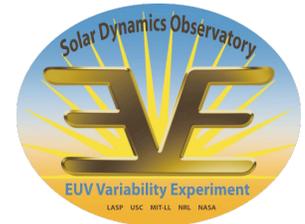
Chris:

Latest few samples as ASCII
Historic as FITS and NetCDF
converter

Chris: tune KF for MP

Andrew, Chris

Don, Rodney



Action Items - Admin

1. Determine how best to communicate data product changes to users. Options include: version # in header/metadata, notice in mission log file, post a data product change log file somewhere (automatically produced from subversion?), send out to an e-mail list.
2. Include the EVE Science Team on the mailing list for the EVE Monthly Status Reports
3. Put all talks from workshop onto laspftp and e-mail out address to team.
4. As flown Mission Log available external to LASP

Add flag to L0CS?
Web mission log

Vanessa / Tom

Tom

Karen