

SUG Minutes – 08 Nov 2016

In attendance

Wes, Dick, Jim B, Whit, Mark, Jim T, Andy, Tom, Francisco, Jim S, Chuck, Dave

Station Reports – **New Info in RED**

Tom – Saw some nice Io-A/C on Monday. Getting up at 4am to look at Jupiter with the optical telescope.

Dick – Nothing new.

Whit – Nothing new.

Jim B – LWA style array is online with adjustable dangle angles. LMR-400 for TFD array has been laid and PolyPhasers mounted. Jove array rebuilt, including new phasing cable.

Wes – Line noise slightly lower these days. Heat pump RFI now a concern with the colder weather. Waiting on good Jovian emission and the start of the Jupiter season.

Chuck – Will be installing new coax and PolyPhaser and ground rod this weekend with students.

Francisco – Nothing new.

Andy – Nothing new.

Dave – Nothing new.

Discussion – New Info in RED

HEC grant

Hardware delivery has started.

Archiving

Jim S asked if there was a deadline for the availability of the SUG data on the PDS for researchers to be able to use it to compare with other data. Jim T and Chuck suggested contacting Shing and Hillary to see what the goals are.

Jim S asked if there were problems with the SPS copy script. Wes indicated it is a slow copy process. Tom is using a Mac, and the script won't work for him.

Dave, Chuck, and Jim B have sent HDD's to Mark at the PDS. Tom will send his Mac-flavored HDD to Jim S for copying. Wes will slog through the copy process himself. Andy did not receive a HDD; Mark will send one to him.

Dick mentioned that there is currently no written plan for archiving and that it would help if we had a document showing what the archive's intentions are, what needs done, how we're going to do it, and when. Dick also suggested it would be better to start archiving current data instead of worrying about 3-year-old data that likely nobody will look at soon since it does not apply to the Juno project.

Dick also mentioned the problem of old data not including metadata and asked if it was up to the researcher to look through the observer's engineering log to find details. Jim S indicated that yes, this is the idea. Dick suggested coming up with a uniform format for an engineering log that all observers could use.

Mark has sent around a link to the Juno information:

https://pds.jpl.nasa.gov/ds-view/pds/viewMissionProfile.jsp?MISSION_NAME=JUNO

Todd King sent around a link to the SUG data presently received, configured, and shared by the PDS. Note: contributed data will not appear here until it has been configured by the PDS; it takes time between receipt of an observer's hard drive and the data being shared publicly.

<http://ppi.pds.nasa.gov/radiojove/>

Anyone who has not submitted data on a PDS hard drive is asked do so and to contact Jim Sky for any needed help.

Jim S is working on modifications to the data copying program to make it able to handle SPD files as well as SPS files. This will facilitate data transfer of SPD files to the PDS.

Software

Jim S has made available a link to a plugin to make SDR# act as a data-feeder for RSS, which means one can now use RSS to record data and spectra from the Airspy and FunCubeDongleProPlus receivers.

<http://cygnusa.blogspot.com/2016/10/use-sdr-with-radio-sky-spectrograph.html>

Latest version of RSS is 2.8.27

http://radiosky.com/spec/Spectrograph_Update_2_8_27.exe

JUNO

Dick asked if there was anything specific SUG observers needed to do for the Juno ground-based observing campaign. Chuck indicated that it is business as usual for SUG; that is, making observation and recording data much as we always do.

2017 Solar Eclipse

There will be a solar observing practice session Friday Nov 10 at 2:00pm EST. All are encouraged to submit their data to the Jove Arhive.

Jim T informed us that the new proposal has passed Phase 1 and now Shing will proceed to the much more involved Phase 2. Shing has sent around an email to those who must supply him with more information (applies to Co-I's and Consultants).

Francisco has written and passed around a draft of a proposal for the Interdisciplinary Science for Eclipse 2017 grant program. Jim T mentioned that this is a 1-year citizen science program related to heliophysics and it is hoped that Jove can leverage off the HEC grant already in-hand. The deadline for Phase I submission is 11/3/16. Dave asked about spectral data; Jim T and Shing replied that the focus is on single freq Jove stations and analyzing data from as many sources as possible, including SUG spectrograph stations (which provides a tie-in to the SUG).

Currently the hardware aspect of the proposal is to get as many Radio Jove stations online in the path of totality as possible before the eclipse. Also, there is a probable necessity to modify the Jove receiver for greater long-term gain stability so it may serve as a simple riometer. For data analysis, development of software to merge and analyze single-frequency and spectral data must be undertaken.

Currently the participant list looks like this:

PI – Shing

Consultant – Dick

Co-I's – Chuck, Francisco, Jim S

Collaborators – Jim T, Jim B, Whit, Wes, Dave

**Next SUG Telecon Tuesday, 22 Nov 2016 at 5:00 pm EST (2200 UTC)
(844) 467-6272, 352297#**