

Discussion – New Info in RED

HEC Grant – Funds have started to trickle at the upper levels, but nothing down here so far. Chuck is still investigating ways to observe the 2017 solar eclipse with multiple Jove receivers. Francisco suggested that a useful experiment would be to see how much the galactic background decreases during the eclipse using a telescope on the path of totality. All SUG stations will try to operate as normal. MTSU and possibly Andy Mount spectrographs in path of totality.

Software news – Jim Sky has released RSS version 2.8.13 which enables some more server-to-client correction array functionality. There are still a few known issues and bug fixes are in the works.

Correction Array – Instructions for use will soon be distributed. Andy wondered if it is possible to use the new correction feature with old data. Dave explained that while possible, it is presently not as easy as using it with new data. Jim S said he will add a feature to RSS that will allow the generation of seed files from old data. When that is in place, the correction instruction manual will be updated to reflect this additional capability and then (finally) released.

JUNO Ground-Based Observing Campaign – Jim Brown has successfully uploaded data. Currently the PADC does not work with SPD strip chart files, but works fine to convert dual polarization SPS spectrograph files into CDF format. Baptiste suggested that observers can visit https://twitter.com/radiojove_arch to find the status of their submission validation. Upload status notification is also available through Slack at <https://maser.slack.com/>.

Also, Baptiste reminded us that there is a link labeled “Click here to access the archive with VESPA” on the PADC Radio Jove page at the <http://voparis-radiojove.obspm.fr> domain. This link to VESPA allows users to view the data so far submitted.

Baptiste previously requested that SUG members wanting to upload data do so to the <http://voparis-radiojove.obspm.fr> domain, while the <http://voparis-juno.obspm.fr> domain can be used for information pertaining to coordinated observing relating to the Juno ground base observing campaign.

SUG Science – At the Gainesville / Alachua meeting last week (Wes, Francisco, Chuck, Dave, Dick) discussions related to publication plans for topics related to Io-CML phase plane. During the next month a preliminary literature search will be conducted. Dick has sent around a good paper about the phase plane. Chuck will send (has already sent as of this writing) a couple papers about emission polarization.

Data Comparison – Data from the Jupiter storms of 12 Jan 2013 and 24 Jan 2014 was requested by Len Garcia for analysis and has been provided by Tom, Wes, Jim B, and Dave.

GRAPE Project – A project to observed terrestrial propagation changed during eclipses. There is a place-holder page up now; we will watch for updates as they become available. <http://www.sweoc.org/GRAPE.html> .

R-Pi / RTL-SDR Project – Mario Cannistrá in Turin, Italy has a very nice project in which an RTL-SDR dongle feed a Raspberry-Pi to do FFT processing. So far, the unit can observe up to around 2.8 MHz of the spectrum without decimation. <https://www.hackster.io/mariocannistra/radio-astronomy-with-rtl-sdr-raspberrypi-and-amazon-aws-iot-45b617>

Jupiter Fireball – Tom mentioned that Jim B had posted links to articles and videos about a Jupiter fireball recorded by two amateur observers at 0018 UTC on 17 Mar 2016. While improbable, observers are requested to check their records to see if anything odd was observed in the HF band near that time and date.

<https://youtu.be/qAJI4gqX3Zg>

<http://www.foxnews.com/science/2016/03/30/did-asteroid-slam-into-jupiter.html>

RFI Library – Dave has requested spectrograms of RFI and pictures of the offending devices (where possible) with the aim of making an online RFI reference library page within the SUG web site. Nathan, Tom, and Jim B have sent some nice examples and pictures.

Alphabet Soup – see <http://www.radiojove.org/SUG/>

Next SUG Telecon:

Tuesday, 12 April 2016 at 5:00 pm EDT, 2100 UTC

(844) 467-6272 352297#