

SUG Minutes – 10 Jan 2017

In attendance

Jim B, Dick, Tom, Francisco, Jim T, Chuck, Jim S, Shing, Len Garcia, Dave

Station Reports – New Info in RED

Tom – Old WinXP box went kerplooeey. Tried new computer, but USB-to-serial adapter won't work more than 5 minutes at a time. Dave suggested using an internal serial card since many people have had the same issues with the USB adapters. Tom will send the loaner noise source to Chuck after getting the computer running again to do a calibration.

Dick – WCCRO spectro not on the list of servers, but via VNC shows that it is serving. Jim Sky will have a look at this.

Whit –

Jim B – RFI intermittent, still emailing RFI reports to the power company representative, return receipt requested. DDRR test still in process.

Wes –

Chuck – Will upload one channel from the spectral data (closest to 20.1 MHz) to the Jove Archive for the Jan 8th practice session of GB observing.

Francisco – Cannot see the GB hump in the 20P array anymore. Problem started after re-phasing the array to a new beam position. No news from RHO.

Andy –

Dave – Nothing new.

Discussion – New Info in RED

HEC grant

Dick asked if we should proceed with Phase II (calibrators, etc). Shing and Chuck agreed to go ahead with Phase II.

Shing asked what the status of Phase I is; Dick replied that phase I is complete.

Archiving

Jim S mentioned that there are 4 years left on the 5-year grant for the PDS to hold RJ data.

Tom asked if the Jove Archive's label of SPD was causing difficulties uploading SPS files. Len said no, the system doesn't care what kind of file it is.

Len mentioned that the size limit in the Jove archive has been fixed, but that Tom still cannot upload his 324 MB SPS file. Dave was successful uploading a 13.5 MB SPD file. Dave suggested that maybe it is a time-out issue, not a size issue (324 MB may take longer to upload than the system permits).

Jim B observed that while the RSP event submitter says an event gets uploaded, it does not show up in the archive calendar. One must upload manually through the archive web interface. Len and Jim S are investigating this.

The question arose as to where the best place is to host the relatively massive amount of SPS files (massive in terms of terabytes). Dave suggested asking the PDS. Chuck mentioned (and Shing verified) that web.com (the radiojopve.org web host) offers unlimited storage and unlimited bandwidth for \$10/month. Chuck will call and verify. If this bears true, then the SPS files may be able to be hosted at the radiojove.org site.

Dave suggested using thumb drives to send to one person with high upstream bandwidth to load the files on the archive. This concerns observing sessions pertaining to the eclipse project.

Dave will ping Mark and Todd to see if the raw data (SPS files) submitted by Jove observers to the PDS can be made publicly available.

Dave sent a list (Excel file) to the group on 12/29 listing the metadata elements presently being considered for inclusion in SPS files. Dave asked everyone to review it and provide comments.

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

Latest version of RSS is 2.8.27

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

Latest version of RSP is 2.7.15

http://radiosky.com/skypipe/RSPII_Update_2_7_15.exe

Phase Plane

A brief article about the phase plane and emission arcs has been published in the most recent issue of the Jove Bulletin.

<http://radiojove.gsfc.nasa.gov/library/newsletters/2016Dec/>

2017 Solar Eclipse

Dave asked what RJ antenna config should be used to observe the GB, since Chuck mentioned during the Eclipse practice telecon that all Jove arrays should be pointed south, toward the Sun. Dave proposed pointing to the D layer shadow; Francisco concurred. Shing and Chuck favored zenith steering. After considering all the advantages of different options (point to the south (to the Sun), to the D-layer shadow, or to zenith), consensus was reached to ask participants to point to zenith. This is the simplest setup (no phasing required) and everyone will have (nearly) the same telescope this way.

Jim Brown mentioned the fact that data at the time of day of the eclipse is very noisy. All agreed that we should start looking at ways to combine and analyze the data, noisy as it is. Chuck & Shing felt that finding the minimum values (between RFI spikes) might do some good.

Shing asked if we could all use the same horizontal and vertical scales for our SkyPipe strip chart plot images in the Jove Archive. Consensus was reached to use a 24 hour horizontal scale and a 0 to 250 kK vertical scale. Jim Sky will write a one-page list of RSP settings for the new people joining the program for the Eclipse project.

Chuck mentioned that it is important to have instruments not on the path of totality to provide control samples during the eclipse.

Jim T asked if spectrograph observers should also provide 20.1 MHz data extracted from the spectral data. Dave mentioned that the data would be much noisier due to the short integration time, but concluded that having such data would be a good thing, more data being better than less data.

**Next SUG Telecon Tuesday, 24 Jan 2017 at 5:00 pm EST (2200 UTC)
(844) 467-6272, 352297#**