

SUG Minutes – 29 Aug 2017

In attendance

Jim T, Francisco, Larry, Tom, Dick, Andy, Mark, Jim S, Chuck, Wes, Shing, Dave

Station Reports

Tom – Good observing conditions lately, minimal lightning.

Dick – Nothing new.

Jim B –

Andy – GB nice and low; no RFI.

Chuck – Dairy farm station running well. Asked if there were a good way to mark coax cables that lasts in the field. The Sharpie marker writing on the tags Dave supplied doesn't seem to last in the UV. Dick suggested metal tags or colored cheap electrical tape. Jim S suggested the tape with numbers printed on them; but unknown how that will hold up against solar UV. Dave will look into the metal tags.

Larry – Running well. Had incident where two computers connected to the same NAS USB drive could not access the same folder at the same time for RSP files. Solution is to use a different folder on the local machine (e.g., on the C: drive) for one of the computers.

Wes – Good conditions.

Francisco – RHO RSP computer stops saving randomly and restarts saving randomly. Cause unknown.

Dave – Good conditions.

21 Aug 2017 Eclipse Observation Reports

Tom – Good observing conditions and good data. Wanted to make some H-alpha pictures, but was clouded over during the eclipse. Saw a solar U-burst at 1741 UTC.

Dick – Interested in getting everyone to load their spectro data for the eclipse to the Jove Archive. There was some splotchy LCP-dominant solar bursting seen by Tom, Wes, Jim B, and Chuck, but not by Dave. Interested in comparing records to see what can be learned about these odd events.

Jim B –

Jim T – Operated a Radio Jove station in the Cedars of Lebanon state park about 30 mi NE of MTSU. RFI levels very high (undisclosed by site survey earlier); data unusable.

Andy – Will upload eclipse data to the Jove Archive by end of the week. Were 30 attendees at the observing site in neighbor's yard. Recorded temperature (-10°F ΔT 30 mins after totality). Had a refractor with rear projection in operation; some people used cameras with 400 mm telephoto lenses to picture the solar corona. Spectro saw much solar bursting. Strip chart saw GB at about 32 kK; not much change seen during eclipse.

Chuck – Had about 8 to 9 thousand people at MTSU for the eclipse. Dairy farm data looks good. Students will make quick-look data presentation for data uploaded on the archive and proceeding on performing a QDC-style analysis of the data.

Larry – Remote ops in Blairsville, GA saw good strip chart data but not much change in GB level. Fixed station ops in Jasper, GA produced data that looks useful. Uploaded strip chart data to archive, but kept timing out when uploading larger SPS data files.

Wes – Good conditions except for a lightning storm that appeared from 1300 to 1900, covering the eclipse period. Good agreement with John Cox's 20P strip chart.

Francisco – Arrived in Summerville, SC (prox 20 mi NW of Charleston) on Friday before the eclipse. Great weather all 3 days leading up to eclipse. Day of the eclipse got cloudy after noon then a thunderstorm and rain centered on the time of the eclipse. Had GB of 85 to 90 kK. Used TFD array with RCP and LCP outputs; FSX-7S on R&LCP, Jove receiver on RCP. Did see the solar U-burst at 1741 UTC. RSS computer stopped taking data randomly a couple times before the eclipse (cause unknown), but ran okay during the eclipse. This in contrast to RHO which saw the RSP computer have similar problems.

Dave – Good radio conditions and no clouds during the eclipse; good data. Uploaded to the Jove Archive.

Eclipse Data Analysis

For now, Chuck and his students are focusing on the QDC-style analysis with single freq data that has been uploaded to the Jove archive.

Spectro data analysis may come later. Dick is looking at LCP blobby bursts. Other than that no plan developed for spectro analysis

Discussion of how much and what kind of data to upload to the archive. All interested agreed that we should ask for **one week of strip chart data prior and after the eclipse, plus the 21 Aug spectro data file** to be uploaded.

**Next SUG Telecon Tuesday, 12 Sep 2017 at 5:00 pm EDT (2100 UTC)
(844) 467-6272, 352297#**