

## SUG Minutes – 13 Jun 2017

### In attendance

Larry, Jim B, Tom, Dick, Francisco, Jim T, Jim S, Dave

### Station Reports – New Info in RED

**Tom** – Station running well. Now using Win7 machines. Tom got the RadioJove program a plug on <http://spaceweather.com/> with an annotated spectrogram and audio recording of an Io-C storm. Tom mentioned that some of his SPS files covering the times for which Chuck requested data are not contiguous and wondered if this would present a problem. Dave said that he wrote a Mathematica routine to stitch two SPS files together and that Chuck or Chuck's student could do the same thing with Python and advised Tom that his data are still valuable even if contained in multiple files per observing run.

**Dick** – Observatory still offline. The WCC IT dept may be getting a Win7 computer for WCCRO to use with the SDRPlay2 and the PDC portable hard drive. The XP computer will run the FS-200 spectro, but will not be used to record SPS data files.

**Jim B** – Doing some antenna work now with the warmer weather. Still working on the calibrator project with Dick. Writing a presentation about the DDDR analysis for the SARA Green Bank conference.

**Larry** – Now has two Win7 computers. The XP computers could not maintain a stable connection to an 8TB portable hard drive connected to the router's USB port (a Ready-Share Netgear device). Also experimented changing the height of the TFD elements, measuring the signal strength as the heights were changed. Maximum signal was achieved when the elements were in a horizontal plane despite the ground sloping downward from north to south. Ground is prox 4' lower under the southern element. Larry asked if there was a way to look at the data being taken in real time without stopping the recording process. Jim B suggested using a second computer to connect the spectro server and record data on the client machine, then stop and review after the desired time. Wes and Dave mentioned that they could never get this to work over a LAN, only seemed to work over the internet (WAN). Jim B, however, has been making this work on a LAN for a while. Dave wondered if the brand or model of the LAN router may have something to do with Jim B's ability to do this.

**Wes** – Tried changing some configuration parameters in order to get the Integrate button in SDRPlay2RSS to turn yellow. After poking and guessing, now the program throws an error. Wes suggested to the group that guessing and fiddling with it without knowing what you're doing is, therefore, probably not a good idea. Wes has uploaded the solar data Chuck requested to the Jove archive, less a small portion that was unavailable.

**Francisco** – Ran a test at RHO last week. A Jove dipole 18' from the small dome produced 70 kK at 1:00pm local. The same dipole and same feed line produced 45 kK when moved 35' from the dome. Wes offered that 45 kK was about right; Dick offered that this depends somewhat on the time of day. Francisco wondered if perhaps the desktop computer being used for the RJ receiver in the small dome was producing noise. Dick also offered that the proximity of the dome in the 18' distance trial may be changing the antenna SWR and beaming pattern.

**Dave** – Modified auto calibrator hardware complete. Now working on PC software to enable running a step cal x hours before and after Jupiter transit.

### **Discussion – New Info in RED**

#### **HEC**

There will be an eclipse practice session telecom at 7:00pm EDT (2300 UTC) on 17 Jun.

**Next SUG Telecon Tuesday, 27 Jun 2017 at 5:00 pm EST (2100 UTC)  
(844) 467-6272, 352297#**