

SUG Minutes –26 Apr 2016

In attendance

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

Station Reports – New Info in RED

Tom – Decent reception of Jupiter, but now some oddball RFI that is not line noise.

Dick – RFI issues as always.

Whit – 200kK RFI at his home – will be working to get new obs online by end of the summer.

Nathan – running using both linear and CP antenna modes – some RFI issues.

Jim B – Massive line noise completely ruining any chance of observing much of anything. Currently prodding the local power company with a pitchfork so they do something about it.

Wes – Has reported RFI to power company – waiting for visit. Working on a new station diagram

Chuck – Observing 24x7 with students reviewing the data. Step cal and correction array seed file done; awaiting Dave's processing of both..

Francisco – Testing of polarimeter using Jove receiver – spectro probably on line soon. Found one bad PC with an inop serial port; working to fix the issue. Writing a new Florida Space Grant proposal to pay for a student to help set up the TFD square array at RHO this summer.

Dave – Having trouble keeping the UFRO spectro serving data (data recording works fine); may be a hardware (PC) issue or something to do with RSS 2.6.10. Dave will update to RSS 2.8.14 and see if the problem persists.

All observers are urged to keep an engineering log and update their system drawings for the SUG site.

Discussion – New Info in RED

Update on the progress of the correction array instruction manual.

Waiting on Dave to test the latest release of RSS 2.8.14.

RFI examples for the SUG web site.

Examples received, waiting on Dave to mount the examples on a page on the SUG web site.

CML-Io Phase Plane zone labels

Dave asked if it was truly important to label every bit of emission with a firm, definite label of Io-This or non-Io-That, suggesting that what really matters are the emission characteristics not the zone labels. Chuck put forth that it is in fact important and that better label definitions would come from analysis of our data. Shing and concurred, citing the lack of any good review paper, suggesting that this is a gap that could be filled by the SUG. Dick suggested that we shouldn't get too hung up on labels as the phase plane is just a map of probabilities and not much else. Francisco suggested two phase planes, one for RCP and one for LCP. Dave mentioned that efforts are underway to do precisely that.

HEC grant

A major HEC telecom was held this morning. No news yet about any funding. Apparently there is major emphasis on observations to be made during the upcoming eclipse. Comment from above (the OMB) was that this is a must-do, must-succeed project (but silence on funding for doing it or succeeding at it). Francisco suggested a portable spectrograph and portable TFD array to be placed in the path of totality. Shing mentioned the need to come up with concrete performance goals and suggested that everyone participate to the best of their ability.

Update on literature search progress

No progress

PRE 8

Chuck mentioned that another Planetary Radio Emissions conference, PRE 8, will be held in Graz, Austria in October. He and Francisco and possibly Dave will attend.

Jove Data email list issues

Jim T reported that up to 40 subscribers may have been removed from the list for excessive email bouncing. Jim T restored Jim B's email and one other email, but has not heard anything from anyone else. Unsure what triggered the audit / review.

Next SUG Telecon Tues, 10 May 2016 at 5:00 pm EDT (844) 467-6272, 352297#