*REX.CAT contains results from a limited set of Post-Launch Phase tests and calibrations. Other calibrations were conducted (see SEQ\_REX\_LAUNCH.{LBL,TAB} for the list). There is no CALIB directory in any of these archives, and there appears to be no calibration report in the DOCUMENT directories; where can these other results be found?*

I volunteered to provide a list of test results that might be desirable to include — not necessarily for these data sets, but at least in time for the Pluto/Charon encounter.

1. Gain and linearity of the receiving system
2. Stability of the uplink and USO
3. REX bandpass characteristics and out-of-passband image responses
4. Spurious signal responses from the spacecraft (if any)
5. Uplink intermodulation products
6. HGA beam pattern
7. Radiometry calibration (including cold sky and radio sources)

This does not have to be elaborate; a couple more paragraphs in REX.CAT or a one-page calibration report in the DOCUMENT directory would be enough. The test data are presumably included in the post-launch and subsequent data sets. These summaries would provide data users with a baseline — first for understanding the data themselves, and second by providing a target against which they might measure any of their own re-calibration efforts.

*Time tags seem to be reinitialized to 0 for each new data run. Sometimes there are multiple 0 time tags; sometimes the next time tag is 1, sometimes it is 10. I will provide a list of examples.*

Between rex\_0007754299\_0x7b0\_eng\_1.fit and rex\_0007759999\_0x7b0\_eng\_1.fit there are 3366 files. Time tags are as follows:

 0-360, incrementing by 1

 a single time tag 46848

 9 time tags = 0 followed by 10-1063, incrementing by 1

 7 time tags = 0 followed by 1-1063, incrementing by 1

 7 time tags = 0 followed by 1-6933, incrementing by 1

 6 time tags = 0 followed by 10-24229, incrementing by 1

Between rex\_0007753919\_0x7b0\_sci\_1.fit and rex\_0007759999\_0x7b0\_sci\_1.fit there are 3366 files. Calibrated time tags are as follows:

 0.0000 to 36.7616

 single time tag at 4797.2354

 9 at 0.0000, then 1.0240 to 108.8512

 7 at 0.0000, then 0.1024 to 108.8512

 7 at 0.0000, then 0.1024 to 709.9392

 6 at 0.0000, then 1.0240 to 2481.0496

I am puzzled by the strings of 0 time tags, then the jumps to either 10 or 1 (uncalibrated). The calibrated values seem to follow the uncalibrated correctly.