FIRST TNR results from the EMD2 MEB

Run TNR in EM2 in order to re-produce time-stamp anomaly.

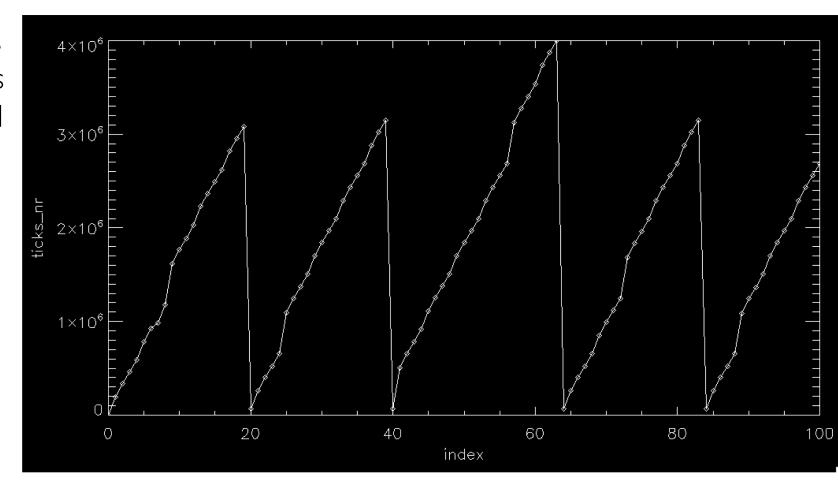
The same TNR-HFR configuration used in space has been settled on the EM2 model at the LESIA



6 tests:

Total duration about 20 h n. of integration 128 Time I TNR sample about 12s Time I HFR sample about 12s Ticks_nr: Delta time: offset in ticks (15.258 μ s) between start analysis time and time analysis of the band

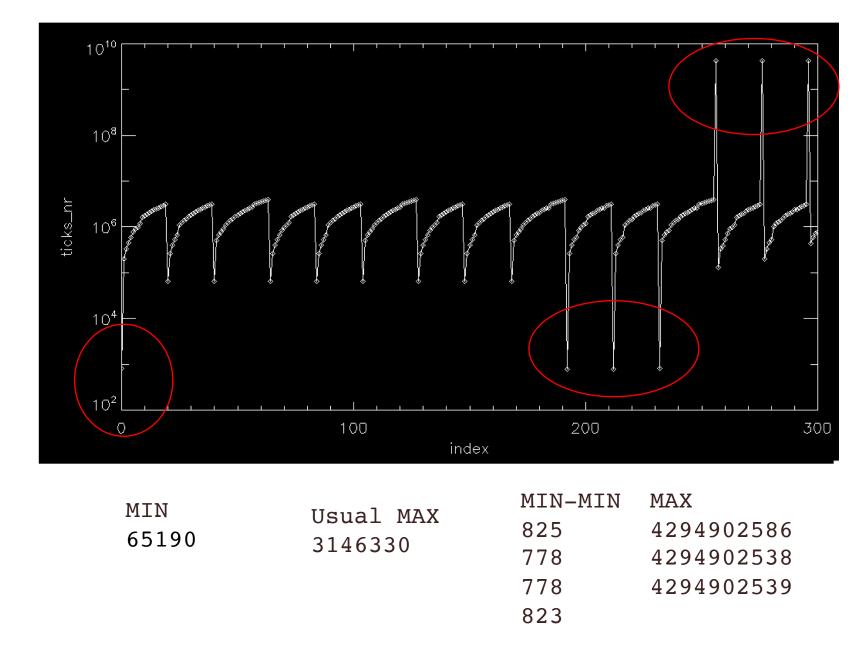
Delta time is encoded on 32 bit (unsigned)



Looking at the ticks_nr behavior we can see the different raw TNR packets

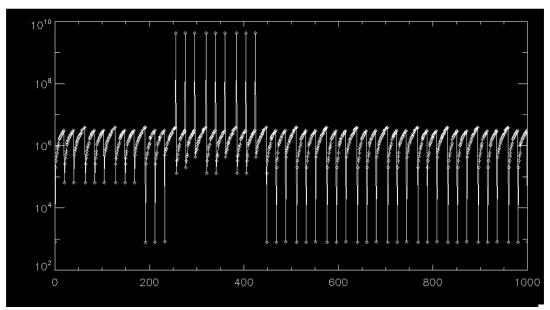
Sometimes the value of Delta time is very close to the maximum encoding value $(2^32 = 4294967296)$

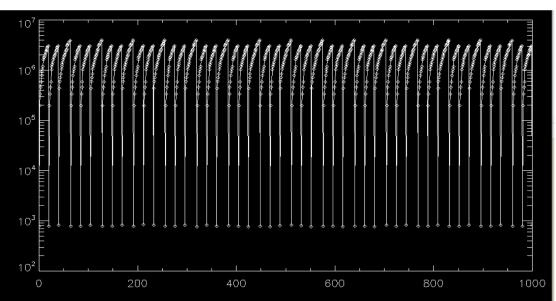
3 files over 6 show issue in the Delta time value



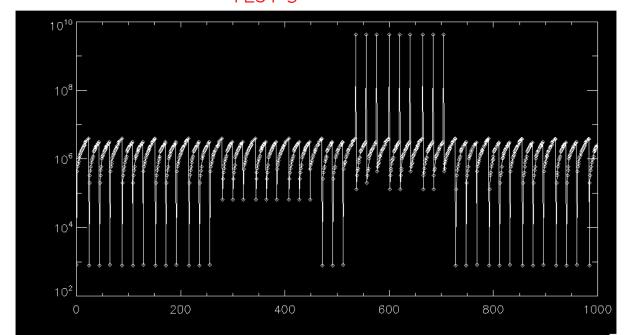
ALL these points correspond to the TNR BAND A







TEST 5



Next steps:

- These data will be shared with Kamel, who accepted to help in updating the THR FSW
- In case, need to perform new test on the EM2 at Meudon by varying some parameters in the TNR configuratio (e.g. integration time).