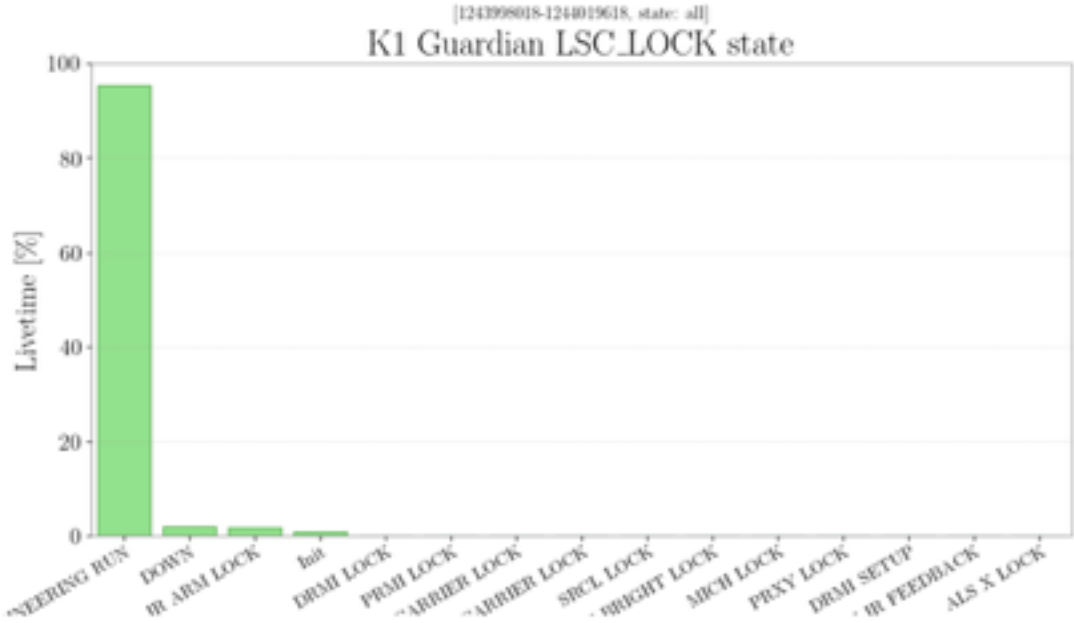
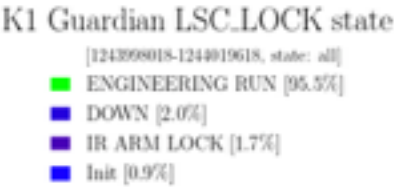
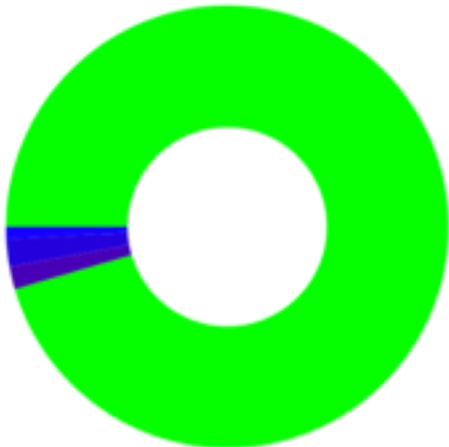
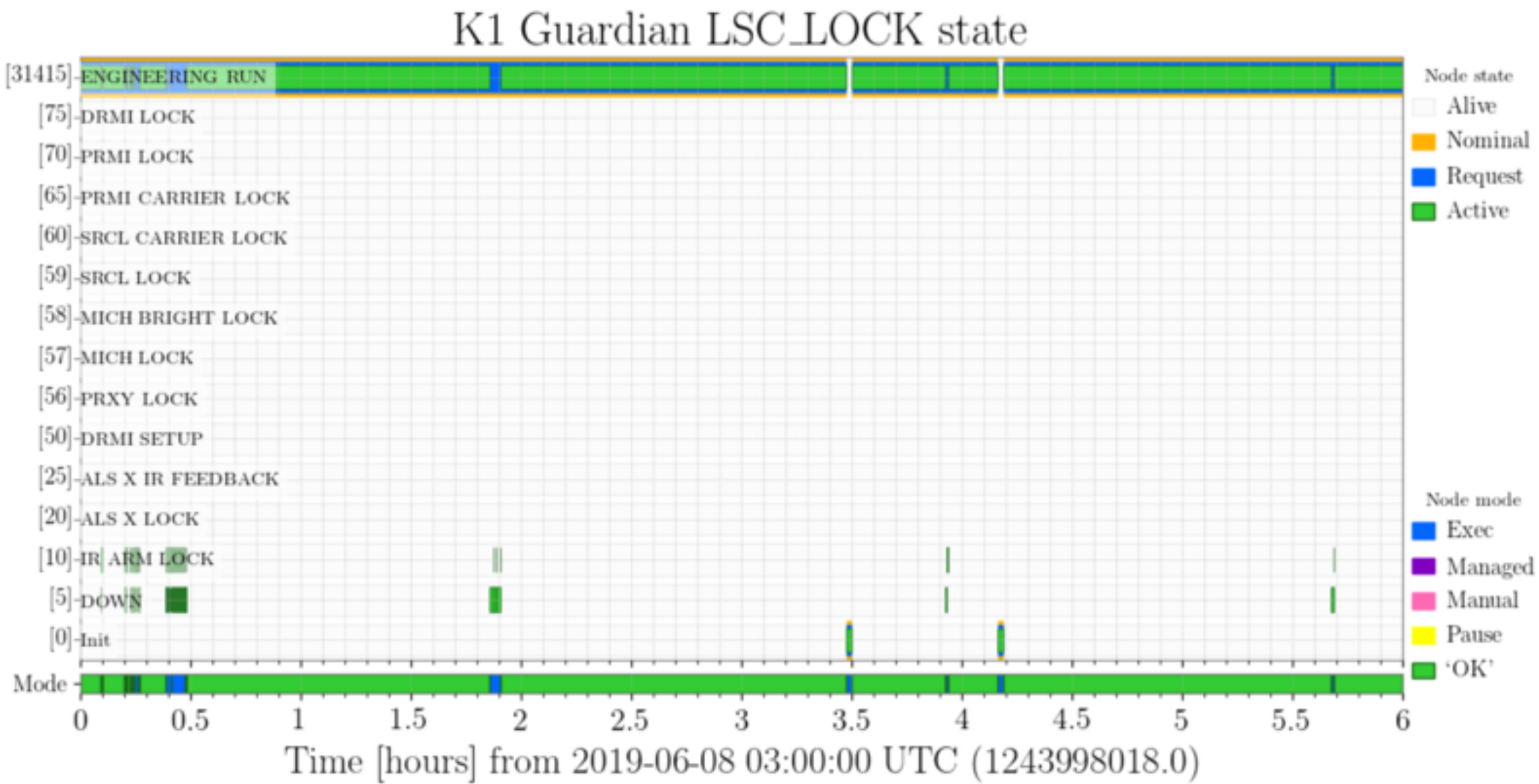


Time series figures at the 1st engineering run

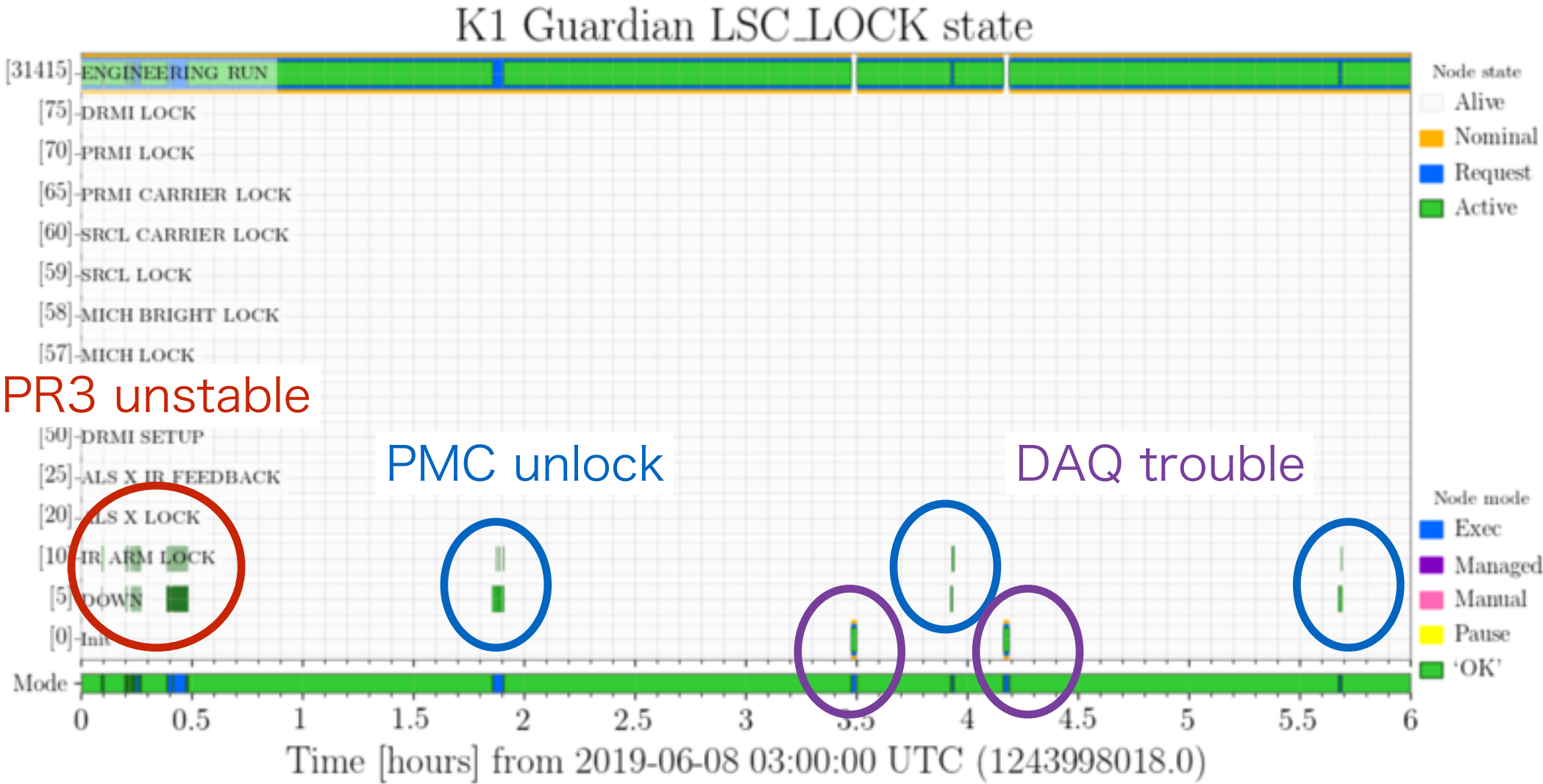
Just generated the time series figures...

2019/06/11 T.Yokozawa

Lock status

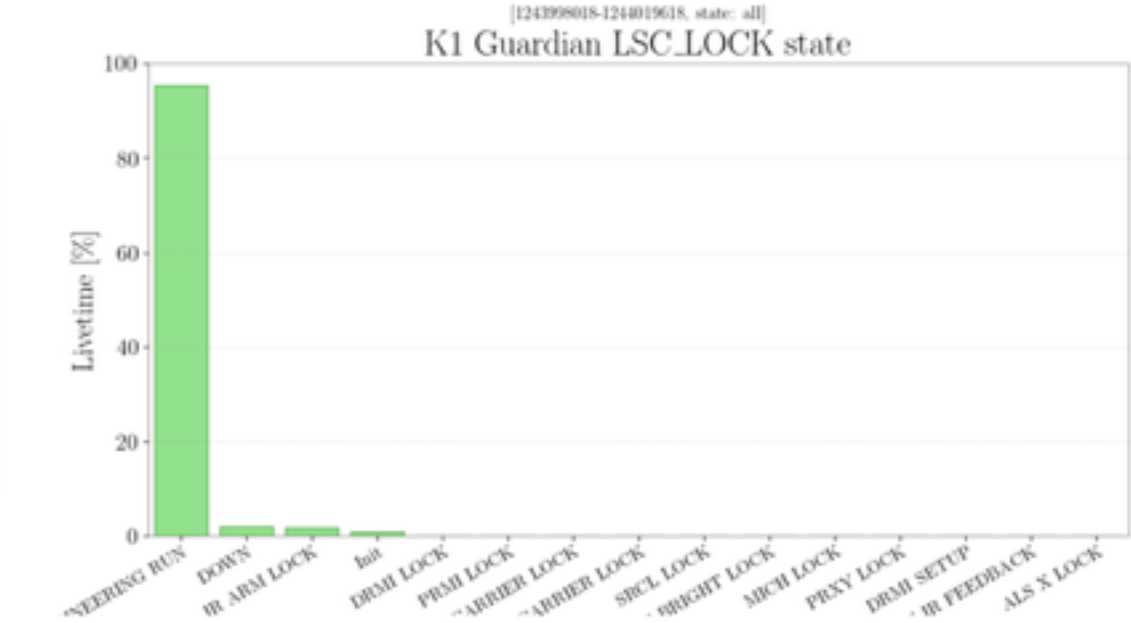


Lock status

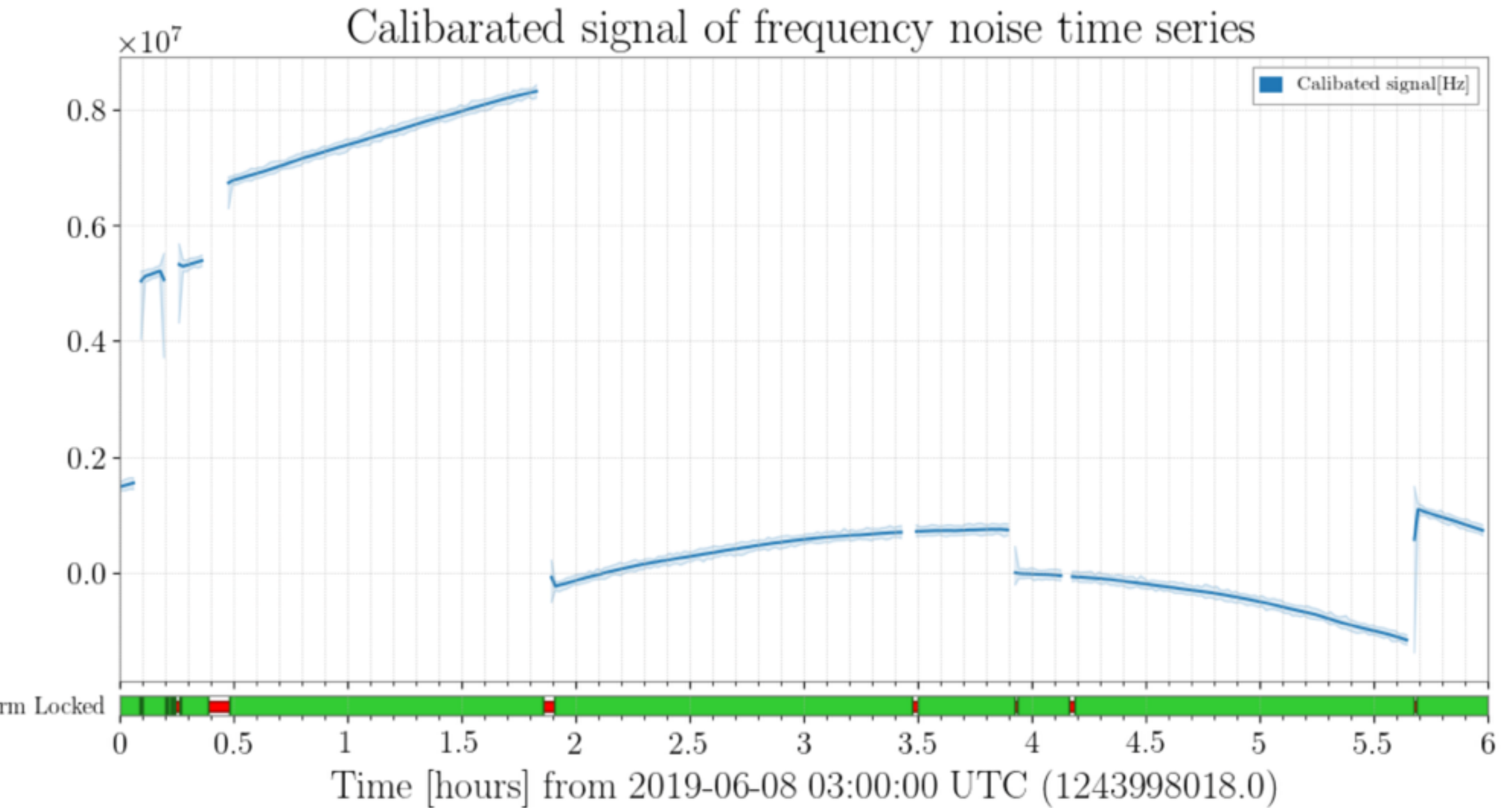


K1 Guardian LSC_LOCK state
[1243998018-1244019618, state: all]
ENGINEERING RUN [95.5%]
DOWN [2.0%]
IR ARM LOCK [1.7%]
Init [0.9%]

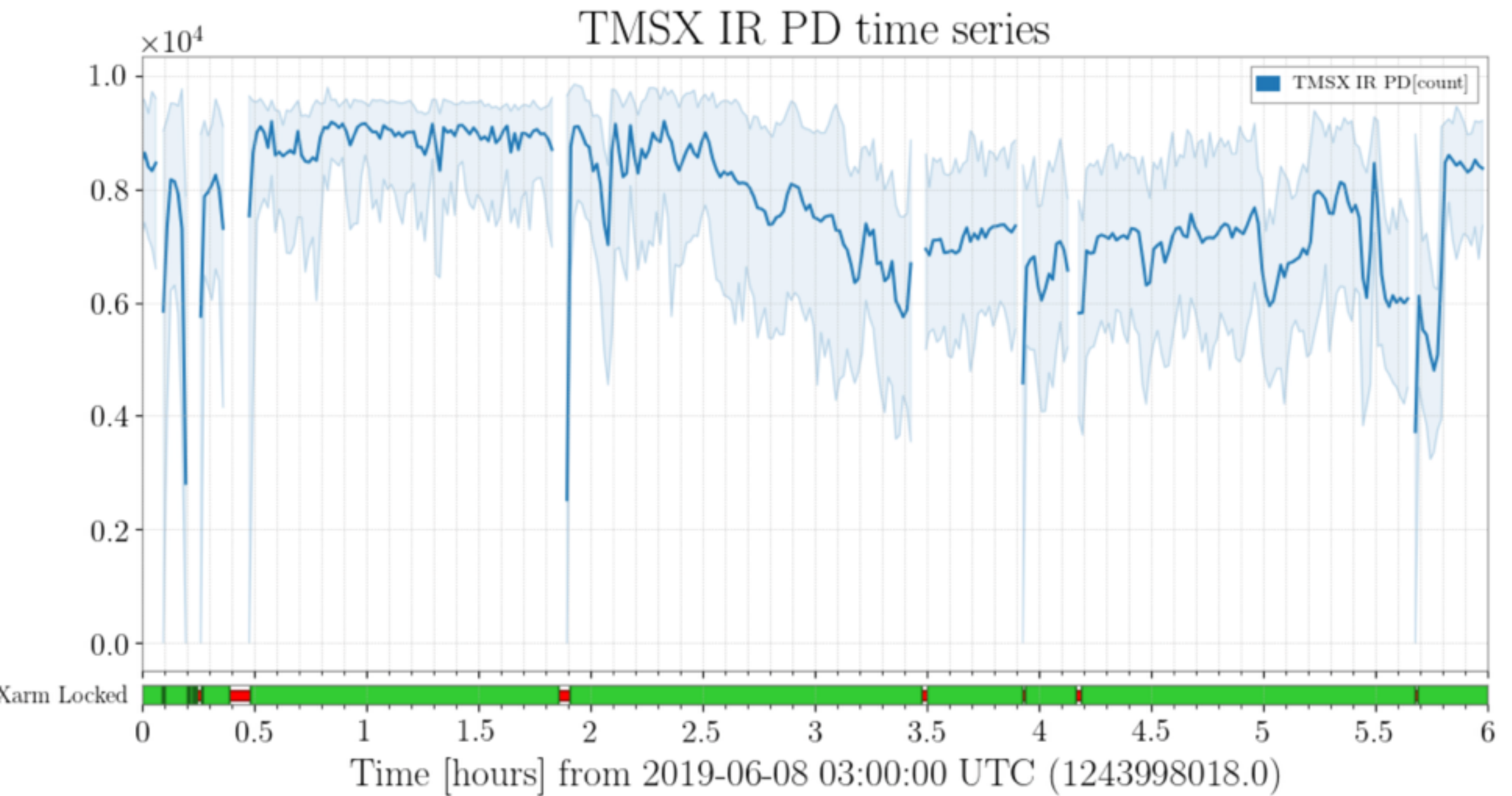
95.5%!



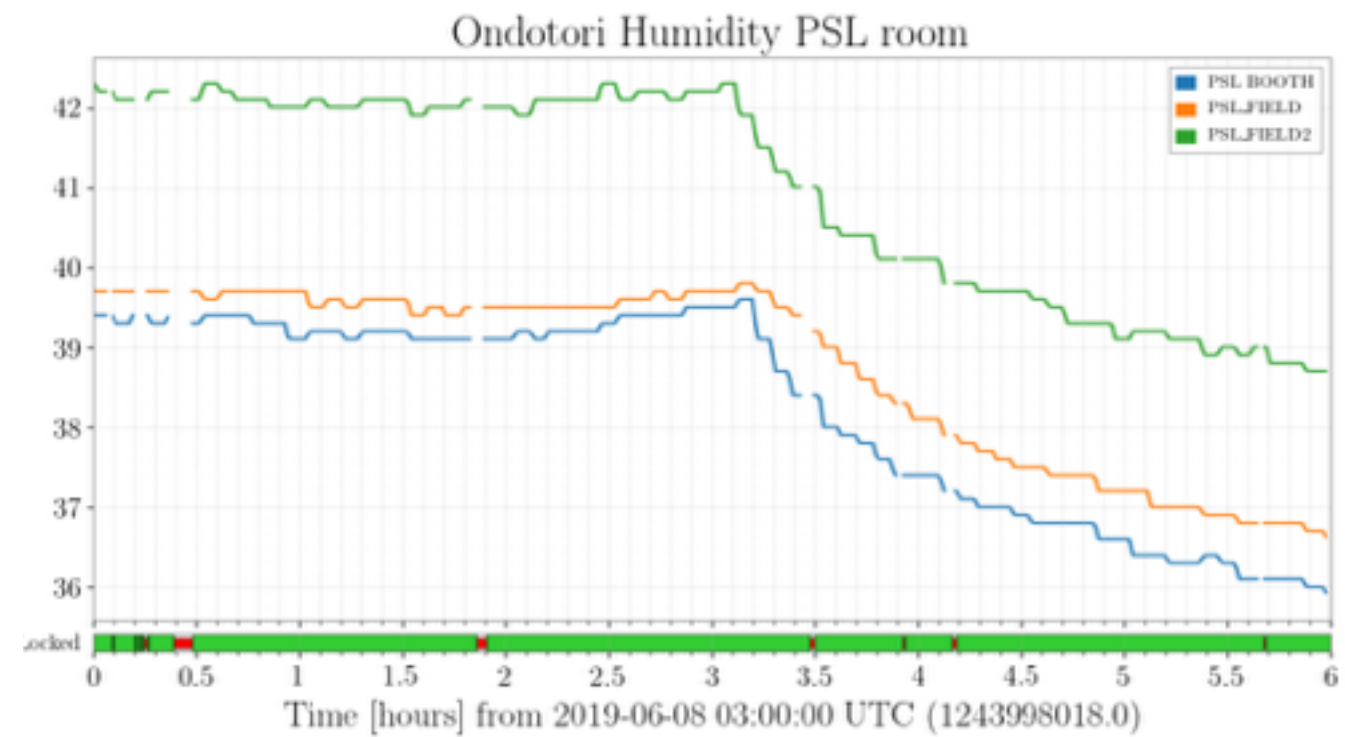
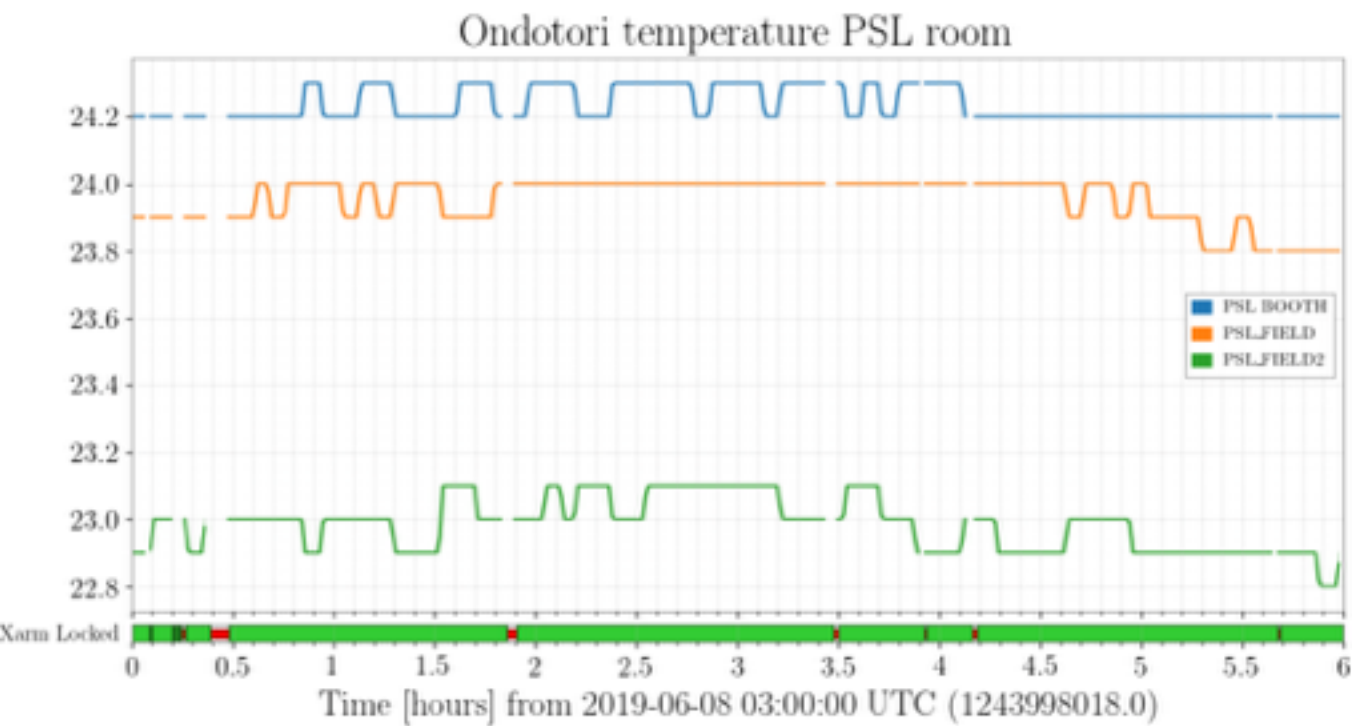
calibrated frequency noise



Transmitted light intensity

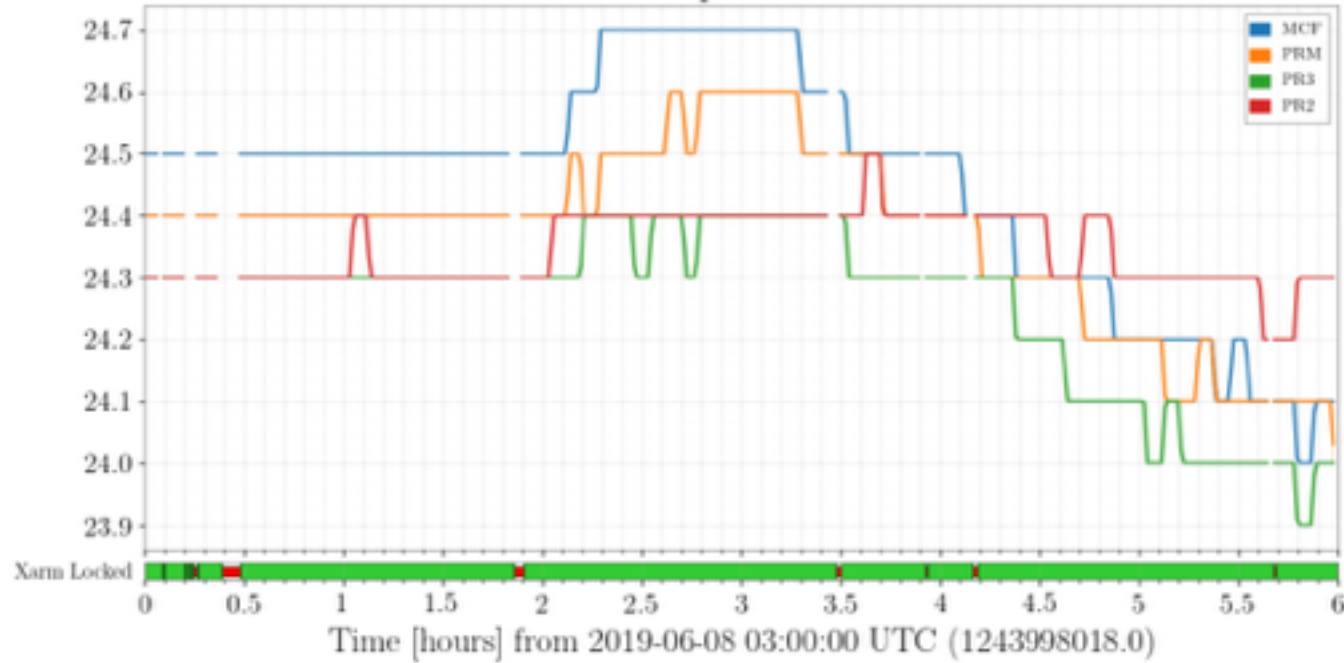


Temperature/Humidity

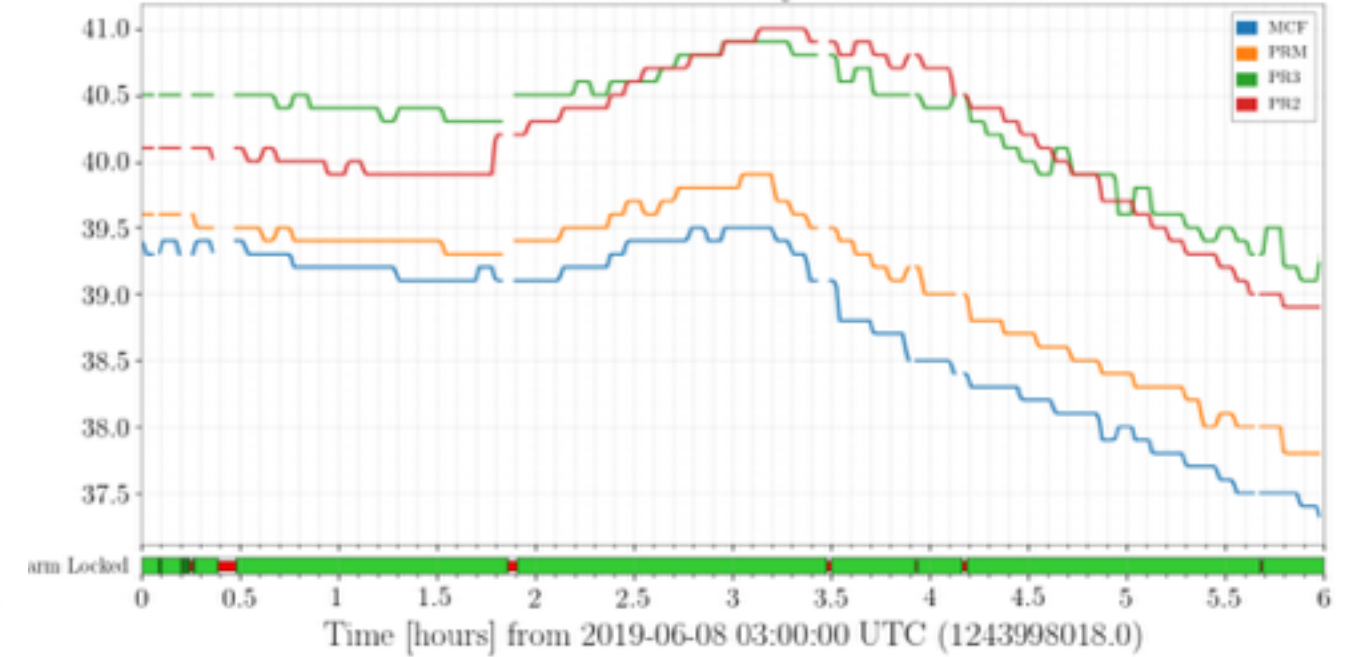


Temperature/Humidity

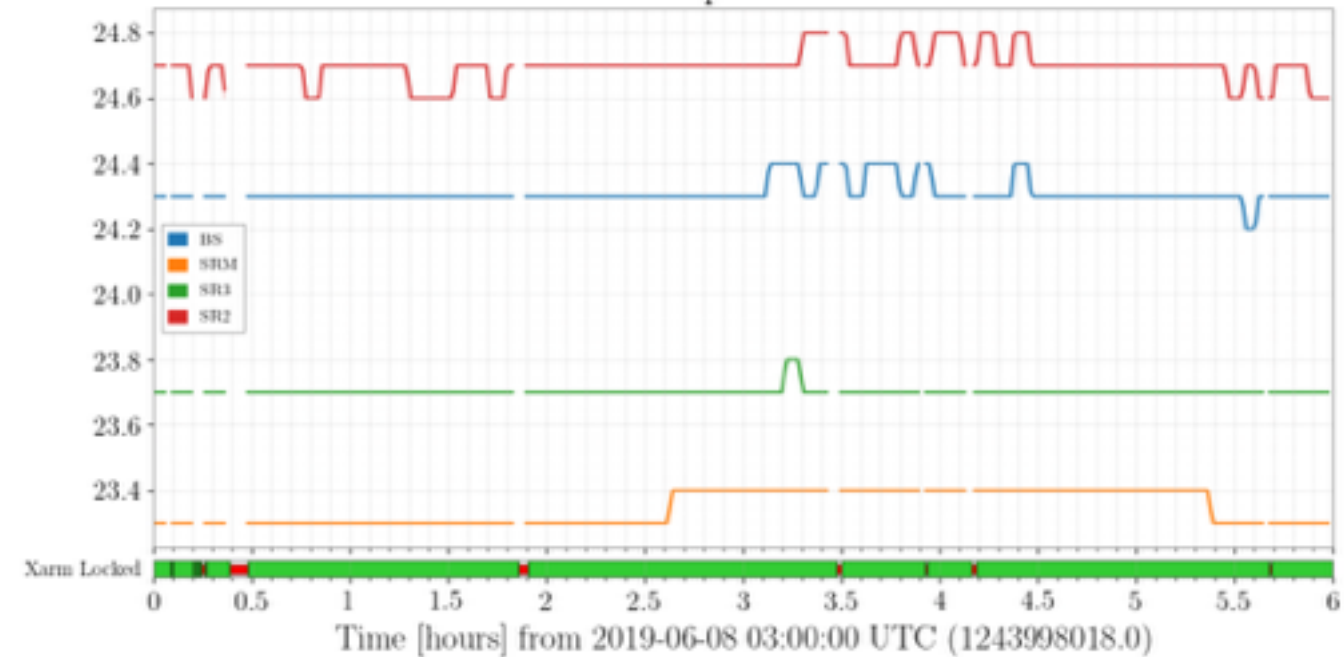
Ondotori Temperature PR booth



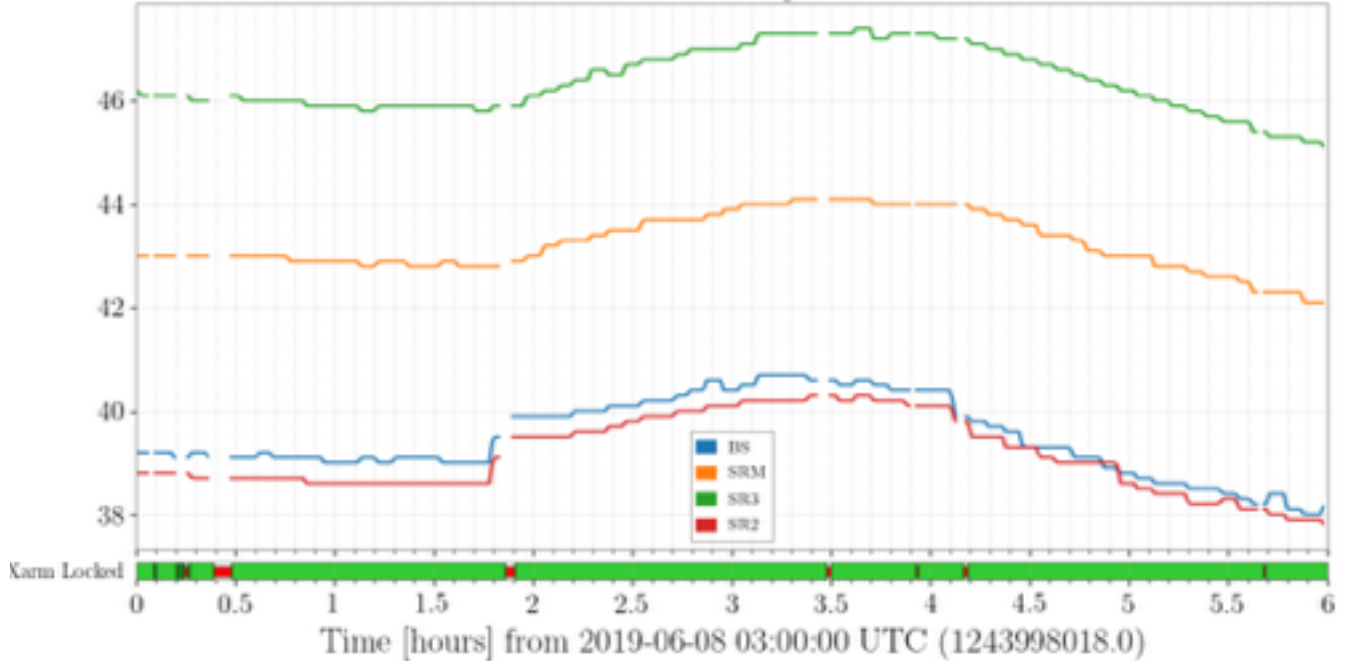
Ondotori Humidity PR booth



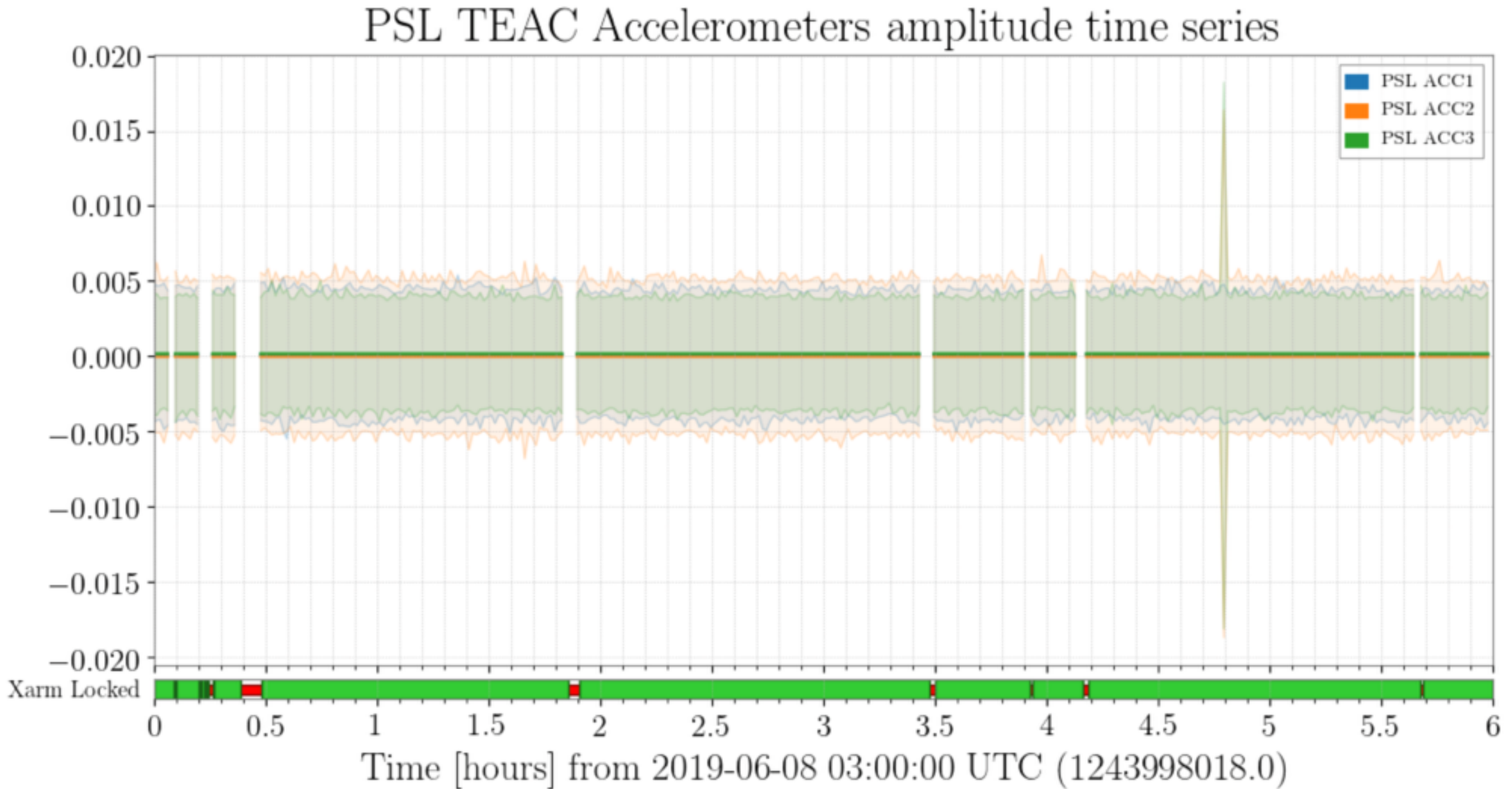
Ondotori Temperature SR booth



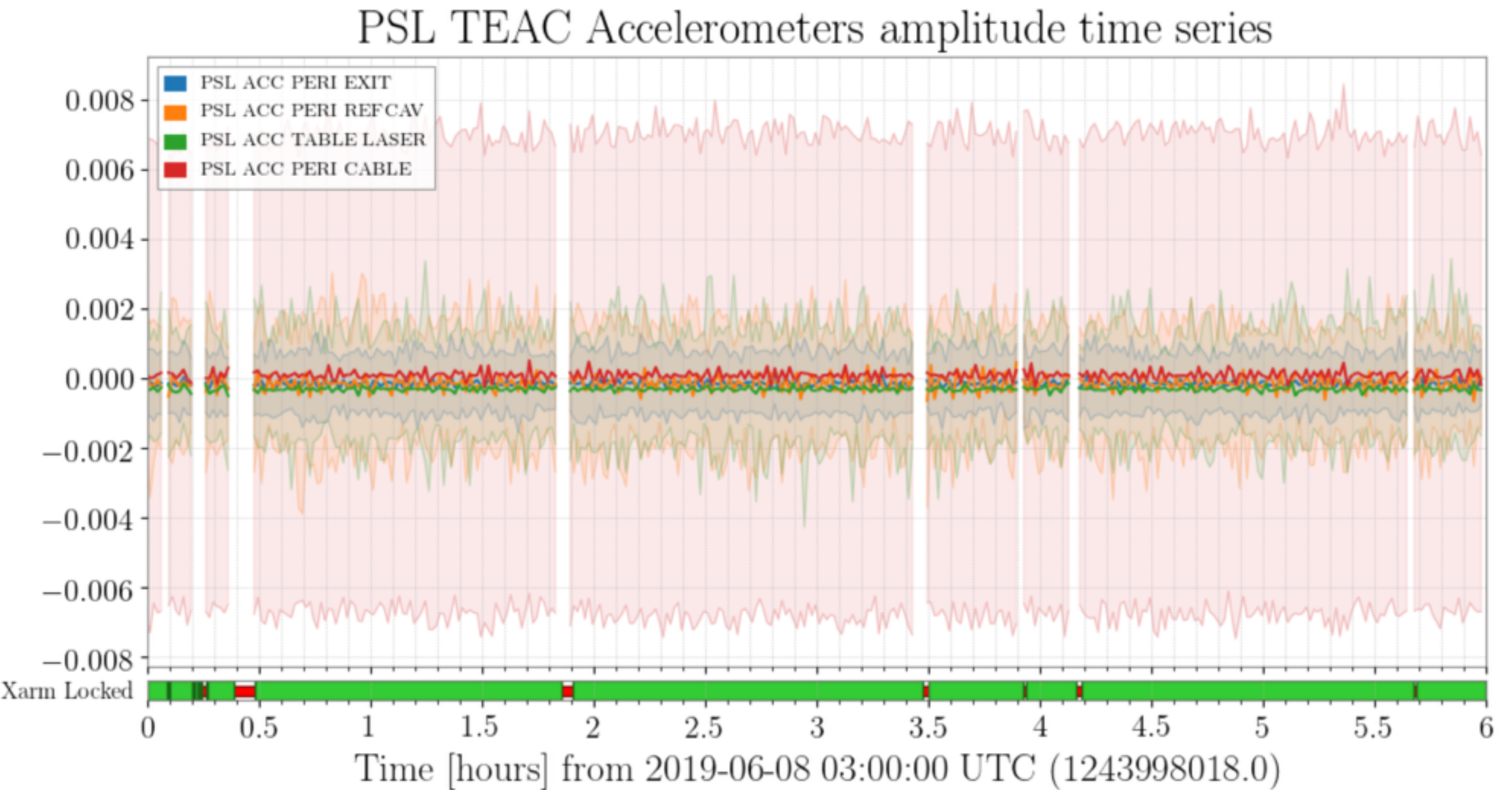
Ondotori Humidity SR booth



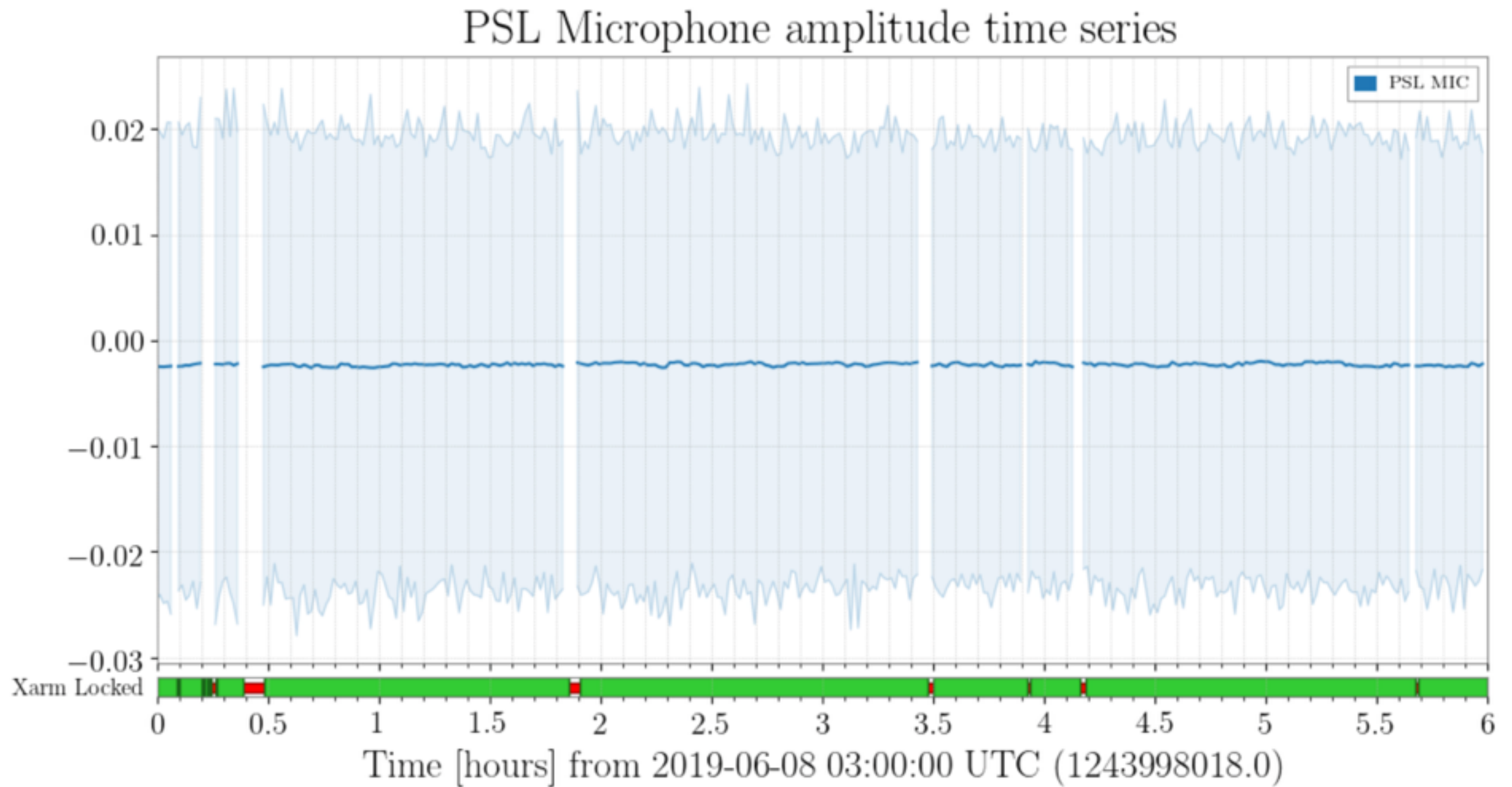
PSL PEMs



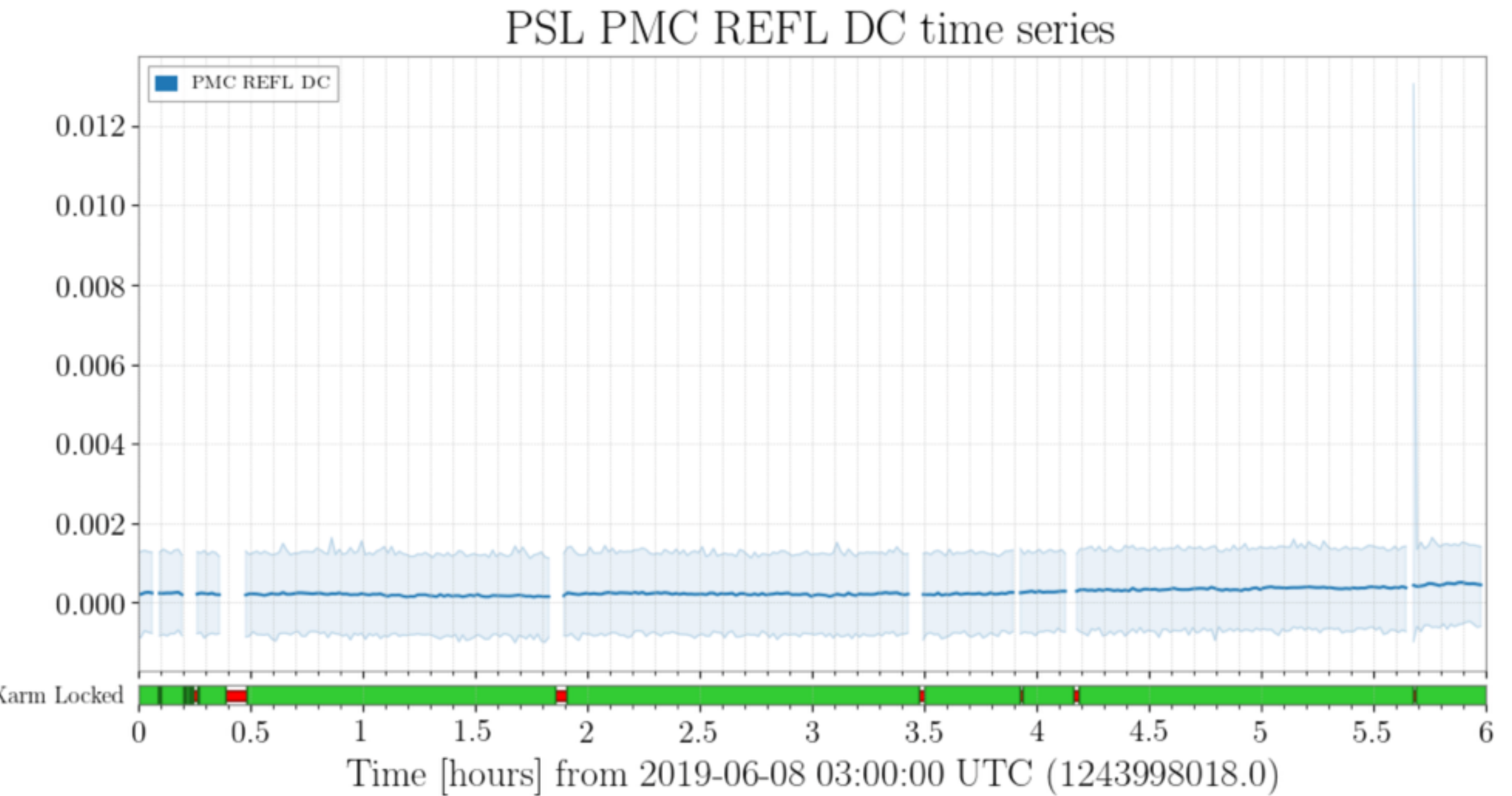
PSL PEMs



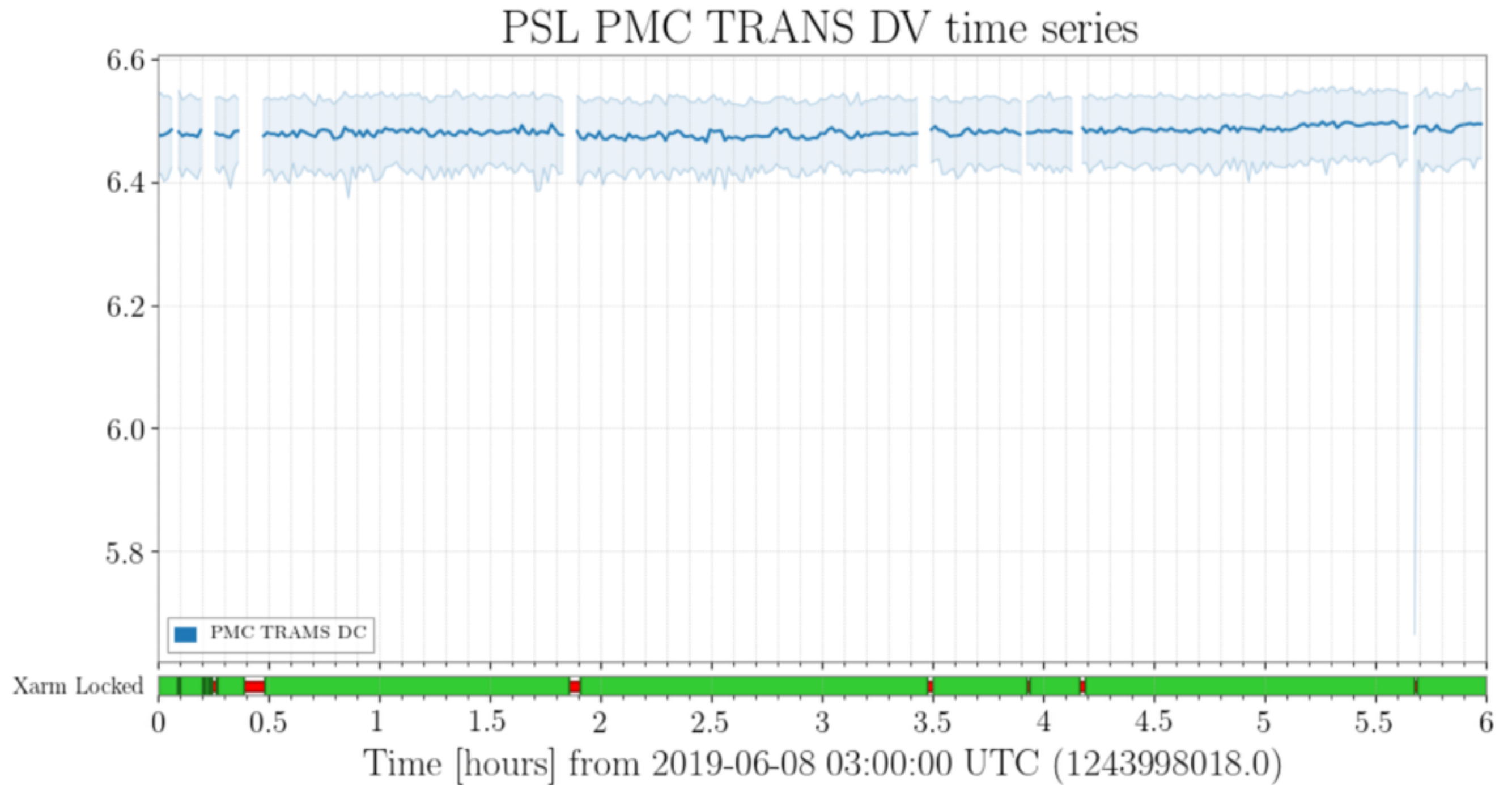
PSL PEMs



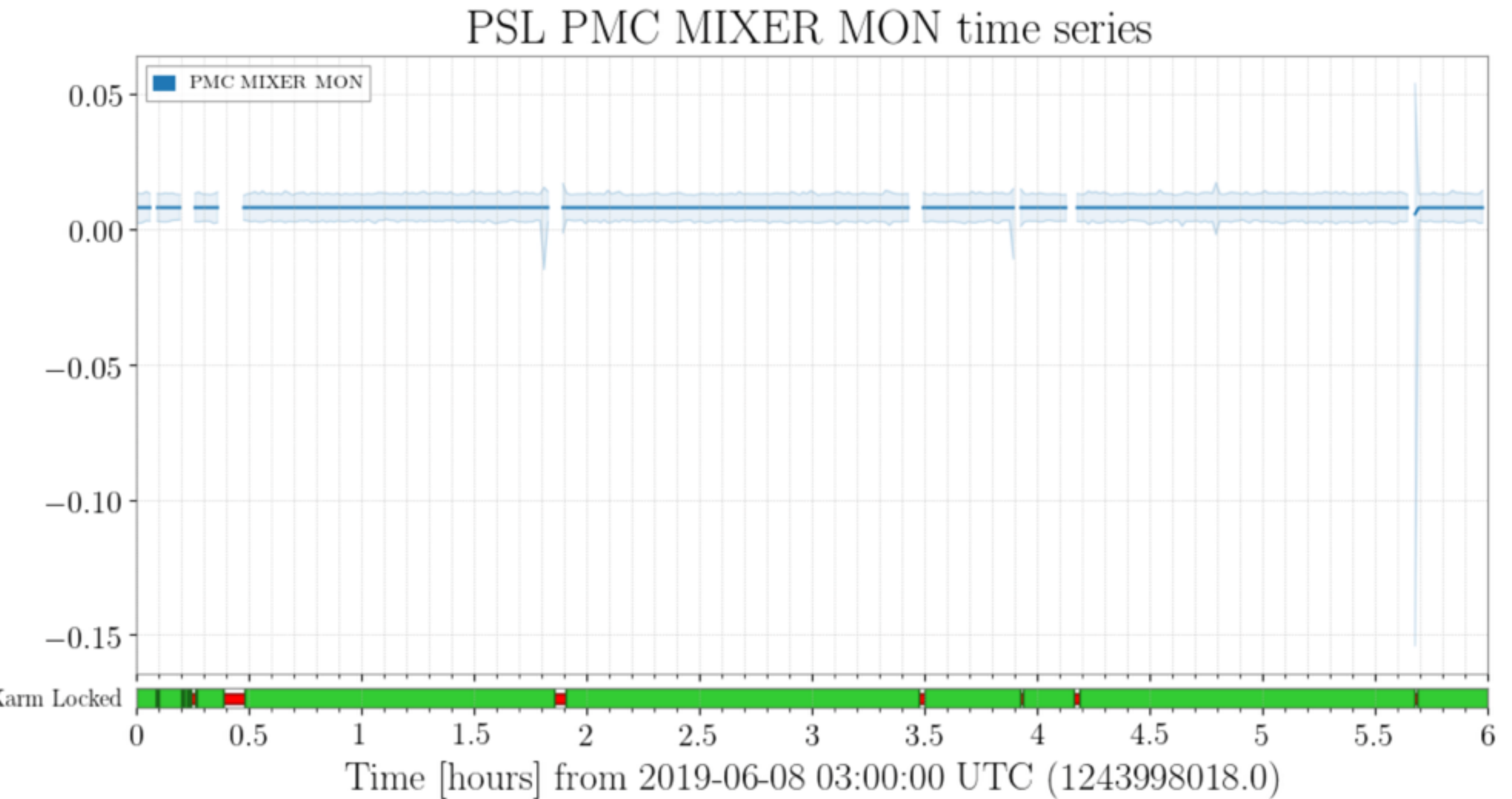
PSL PMC signals



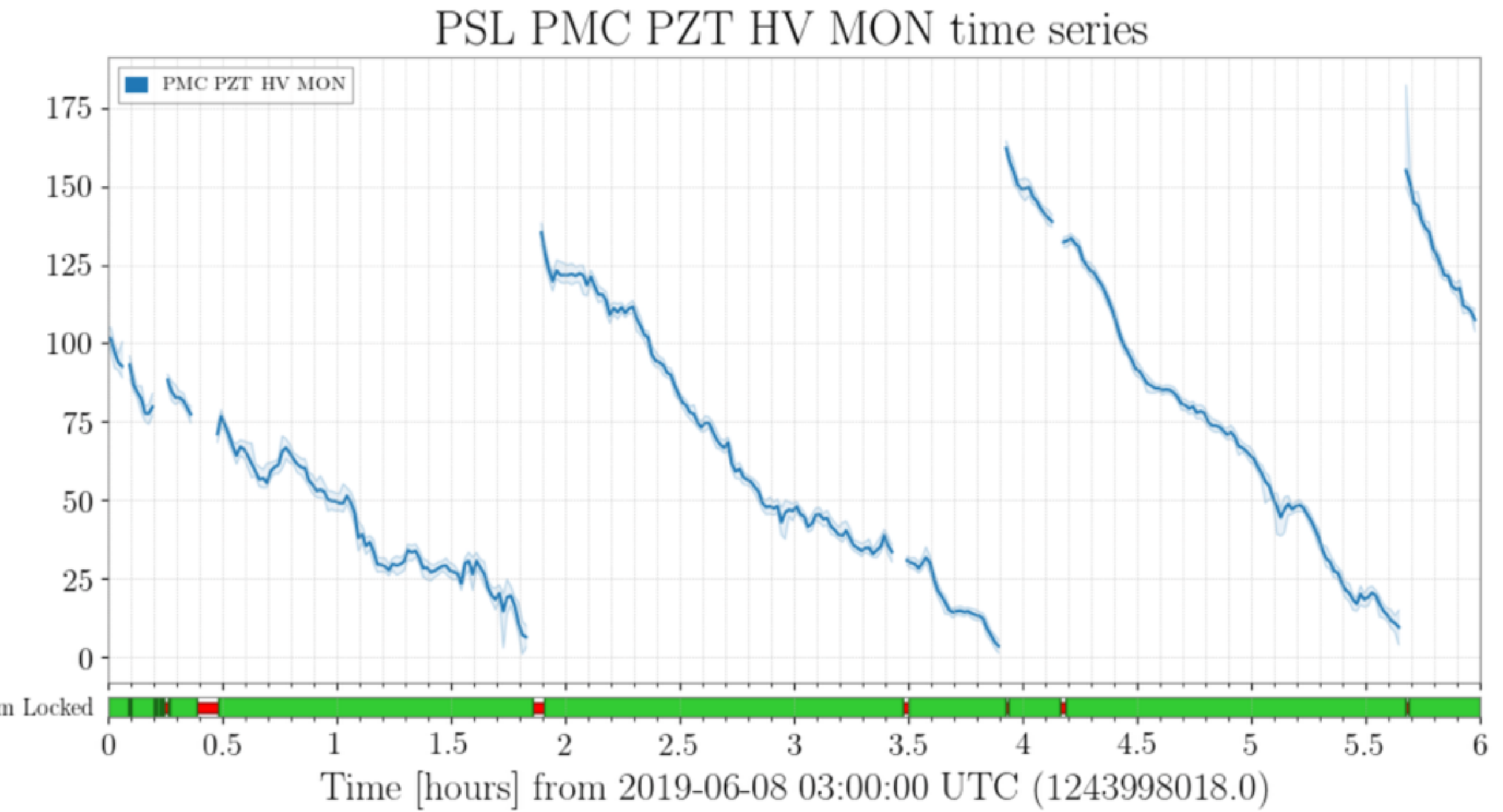
PSL PMC signals



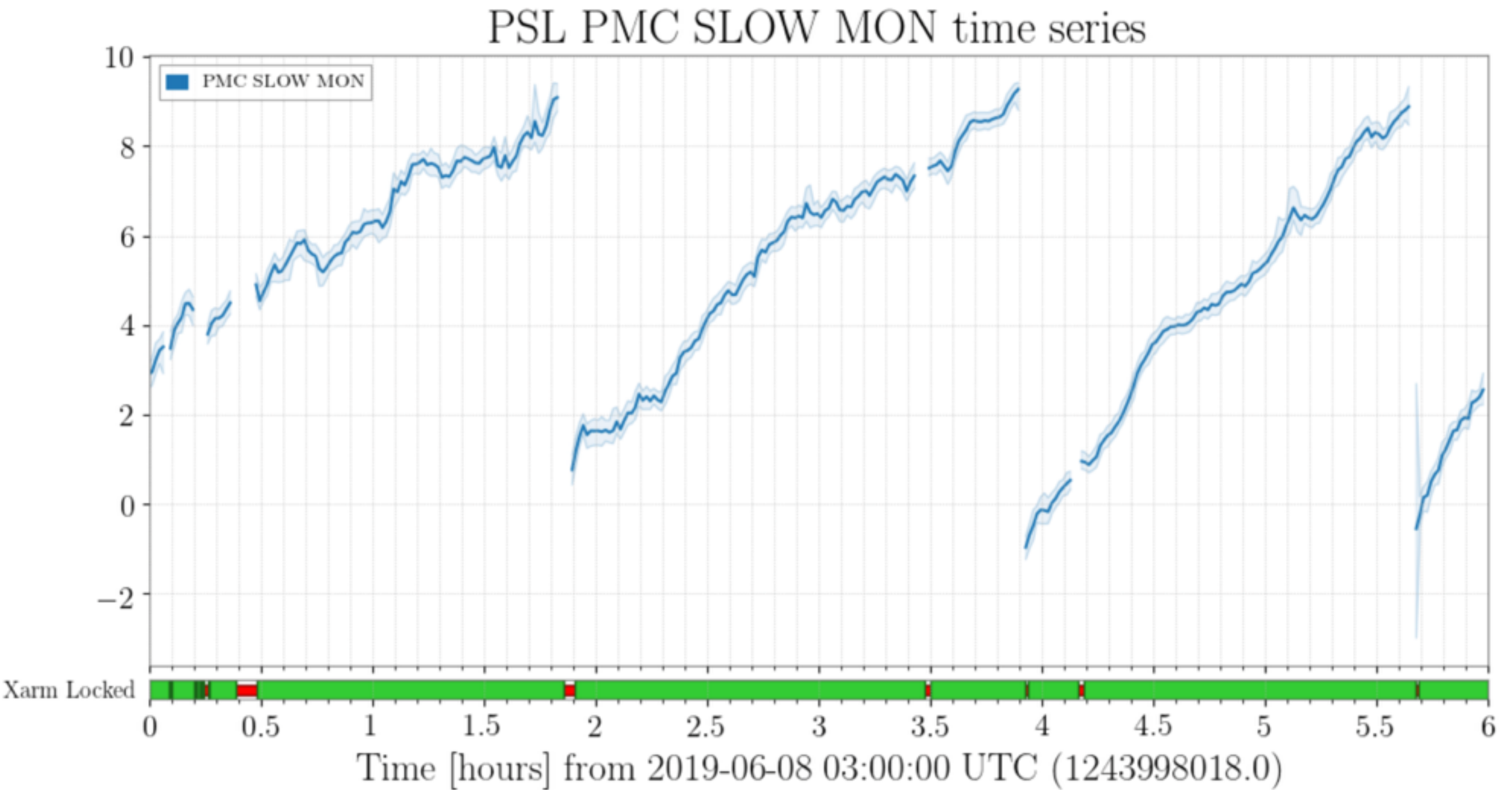
PSL PMC signals



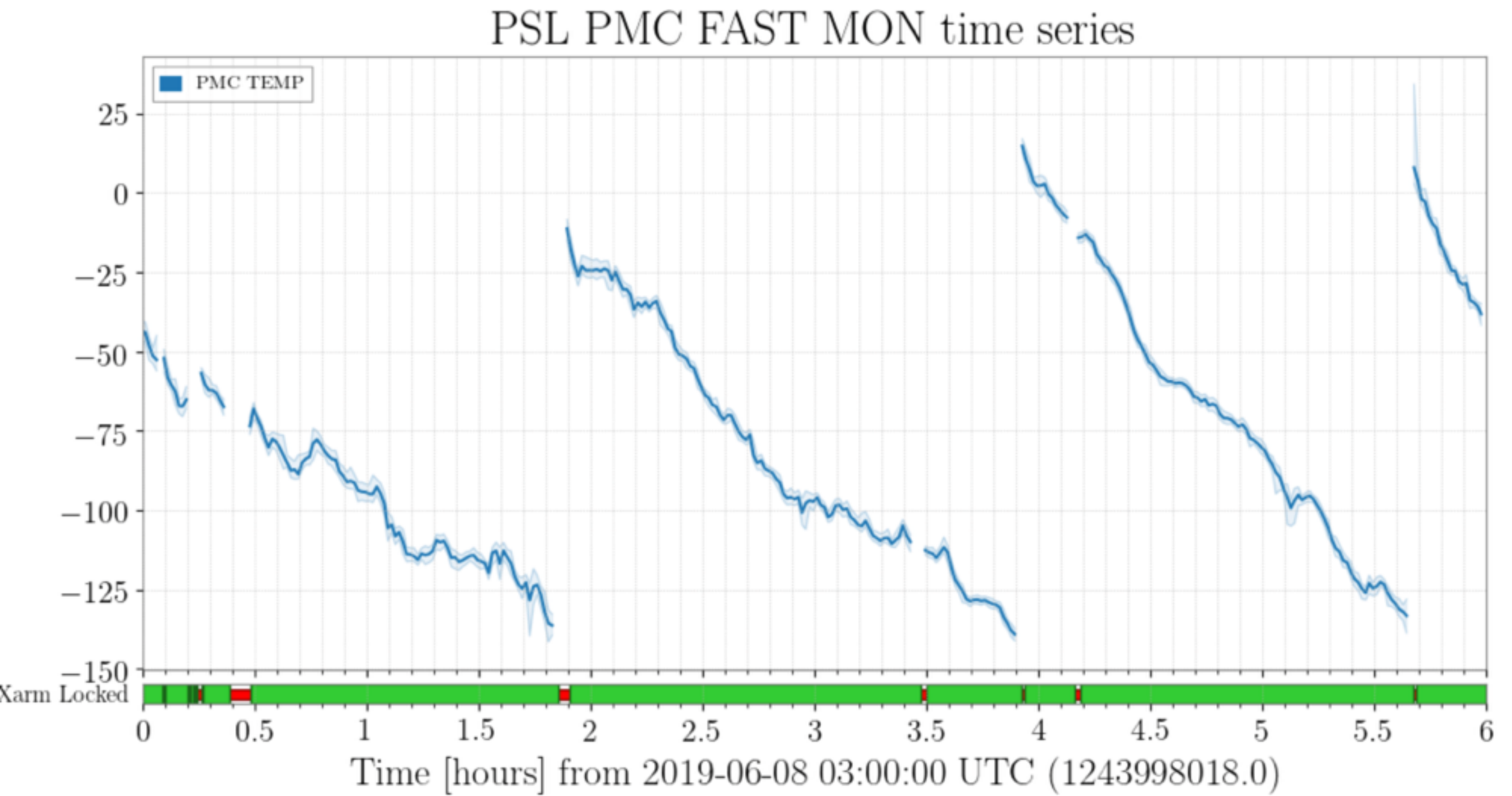
PSL PMC signals



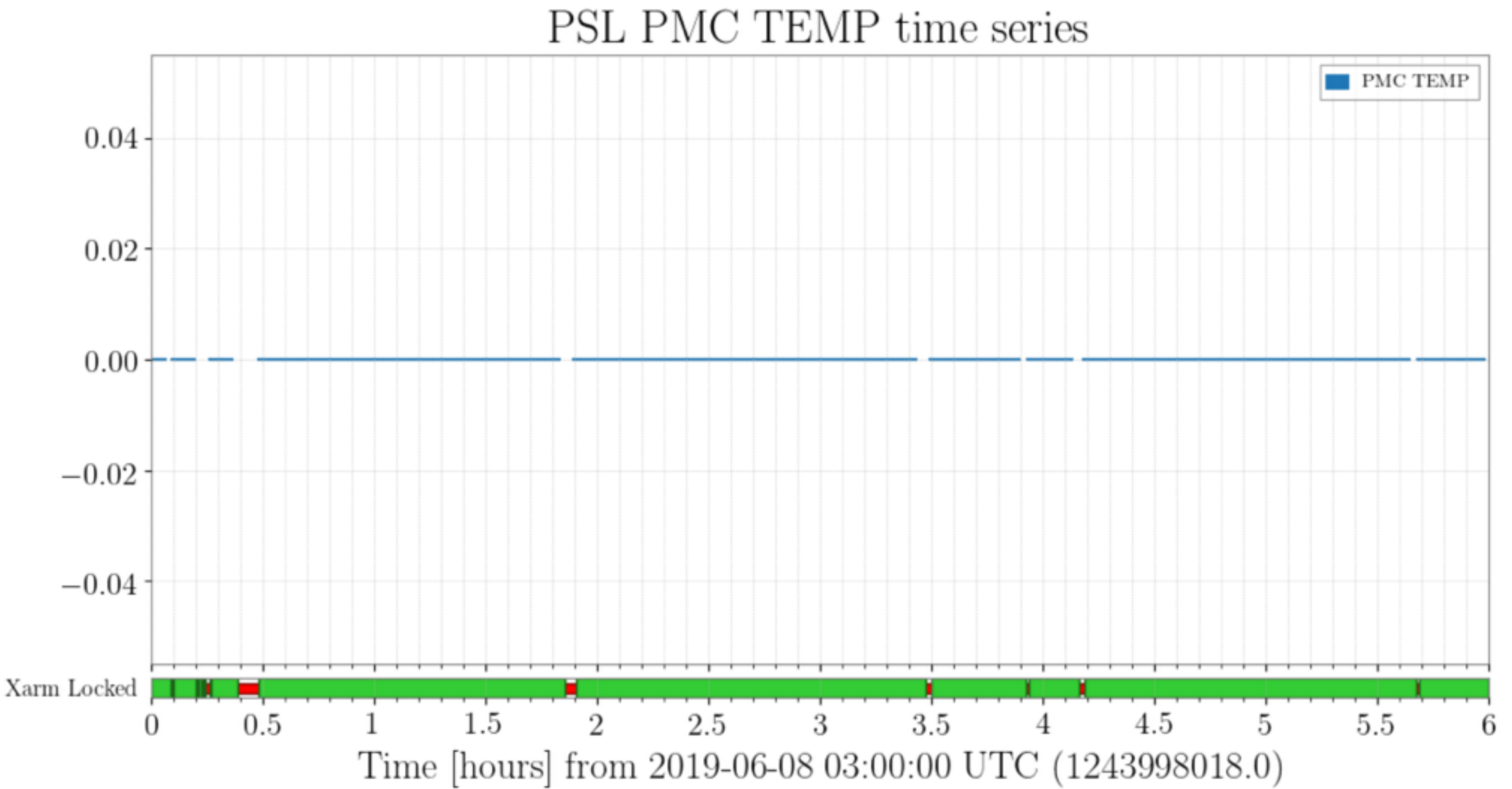
PSL PMC signals



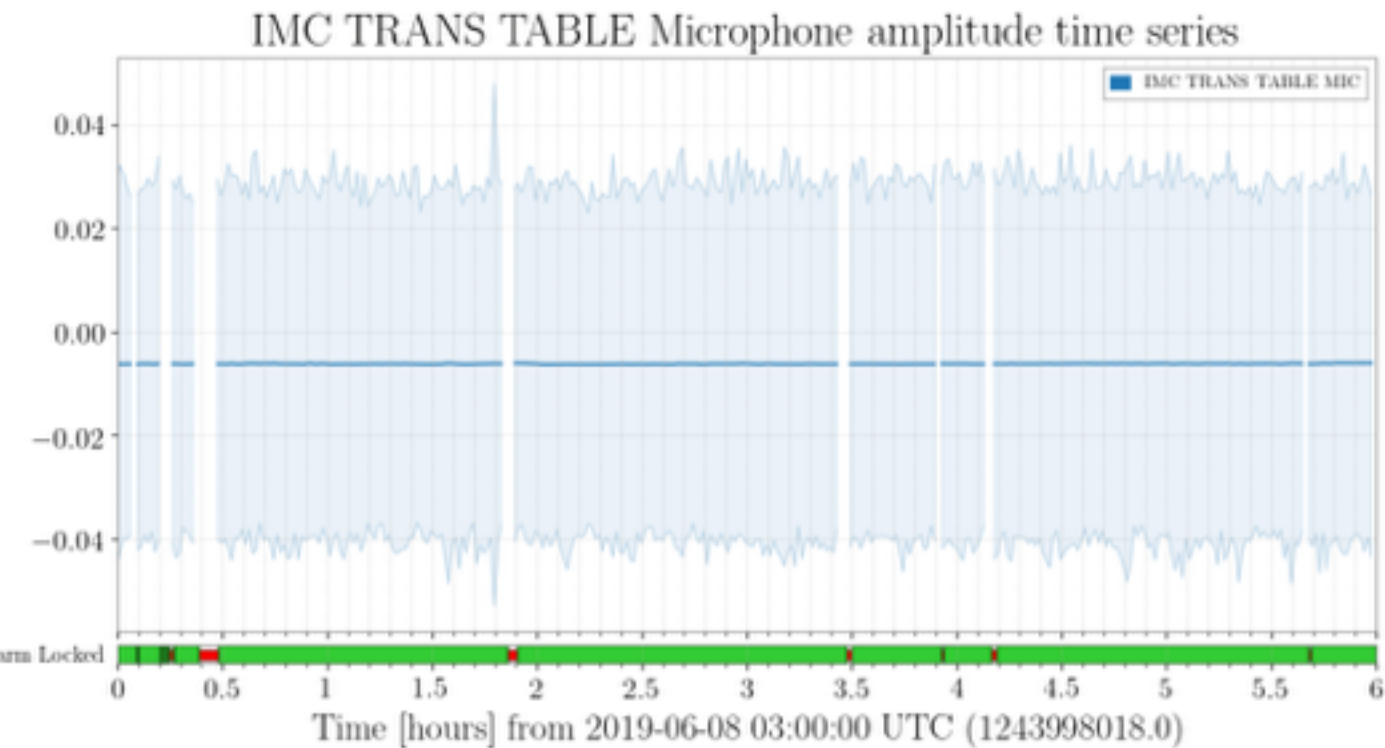
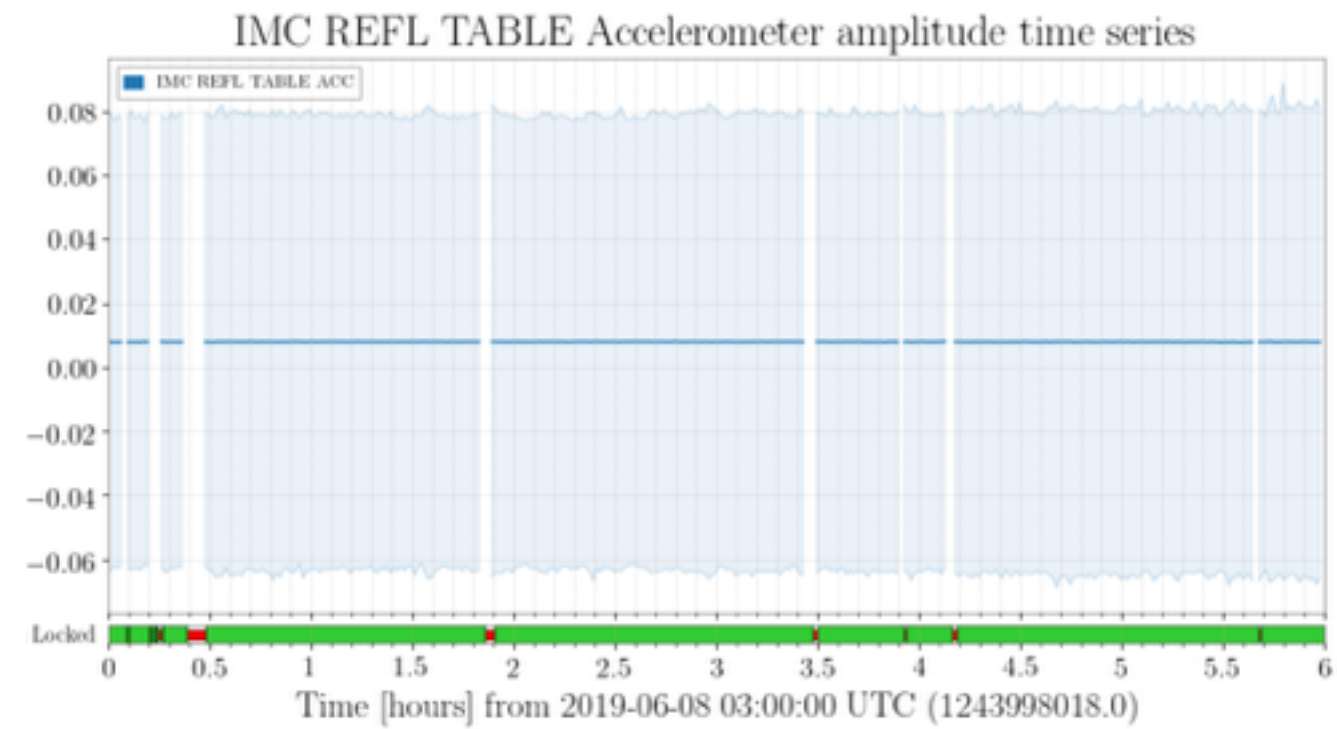
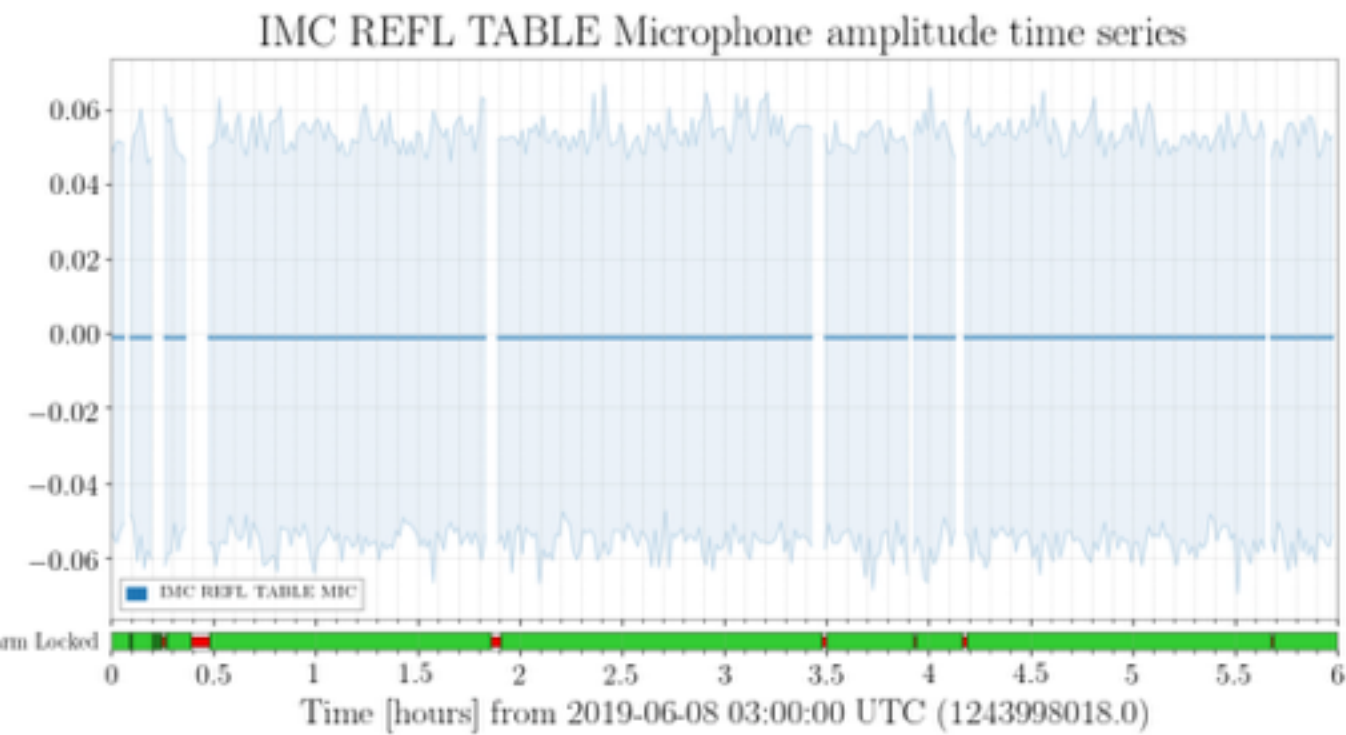
PSL PMC signals



PSL PMC signals

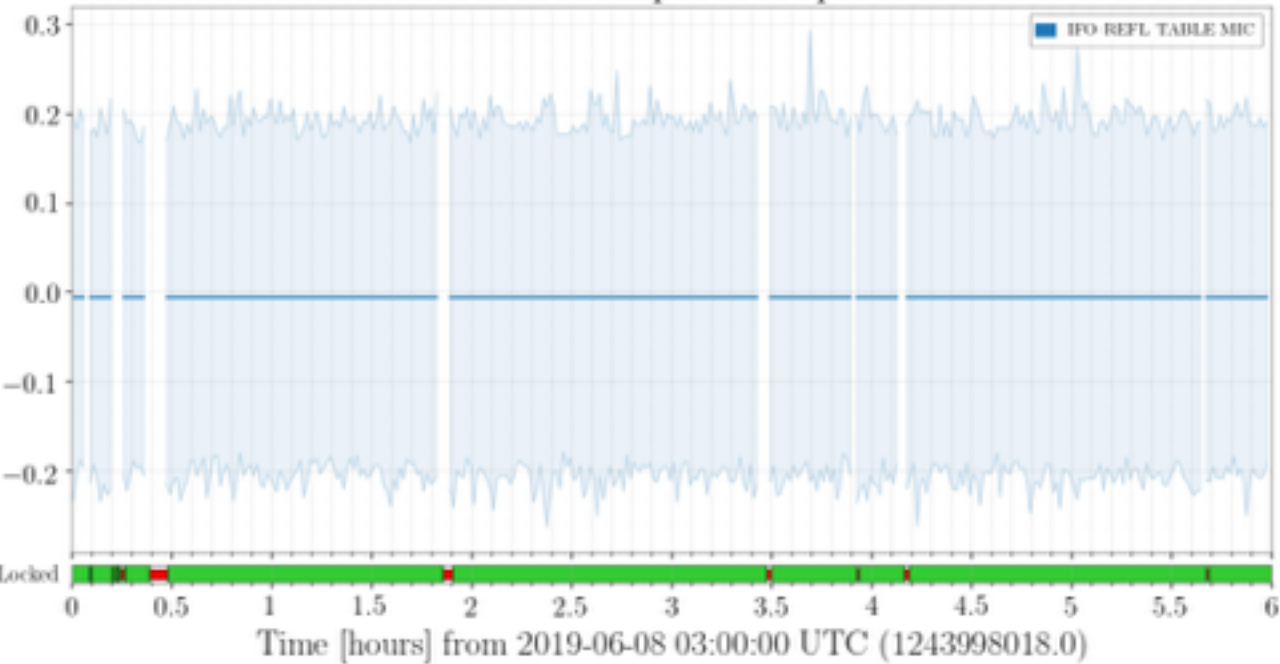


IMC PEMs

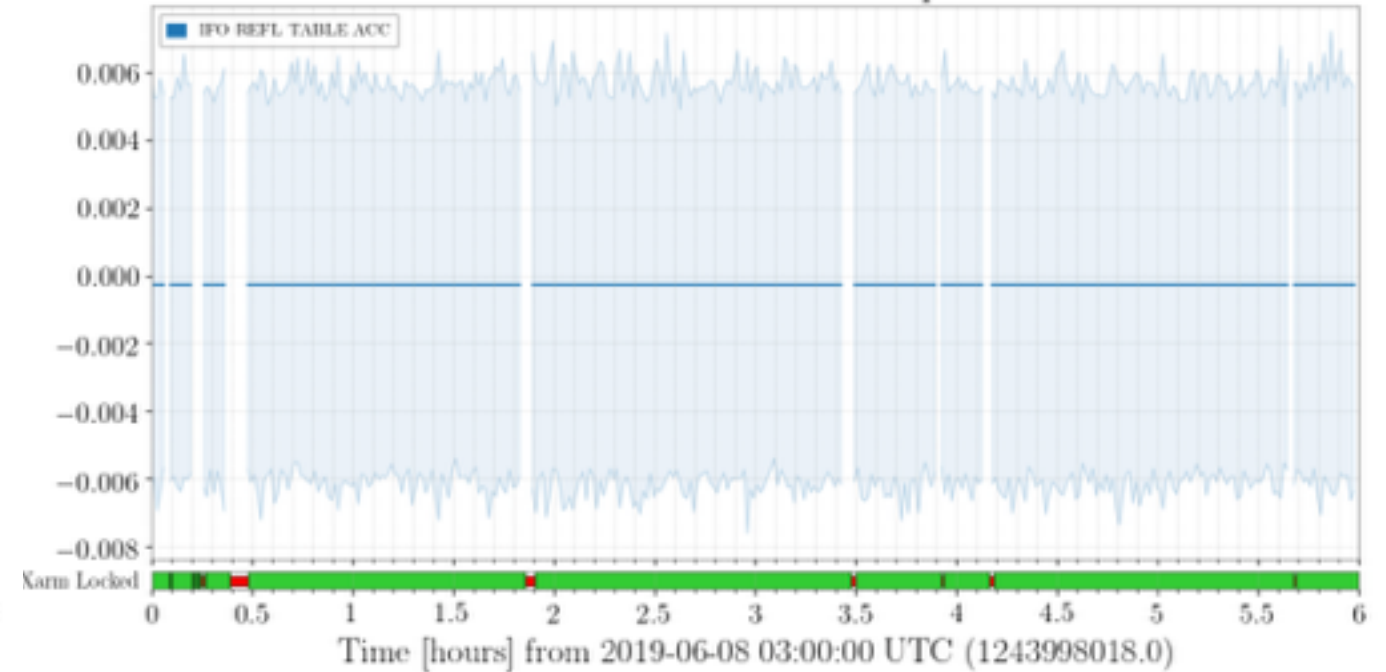


IFO refl / TMSX PEMs

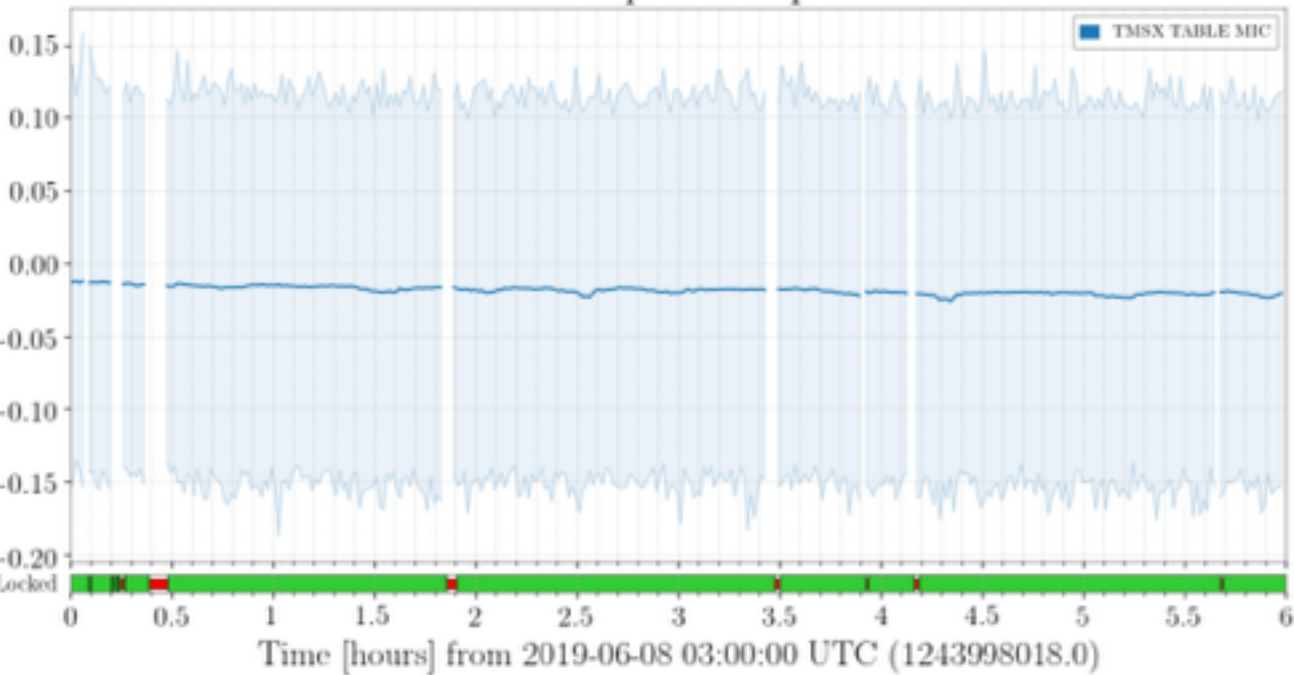
IFO REFL TABLE Microphone amplitude time series



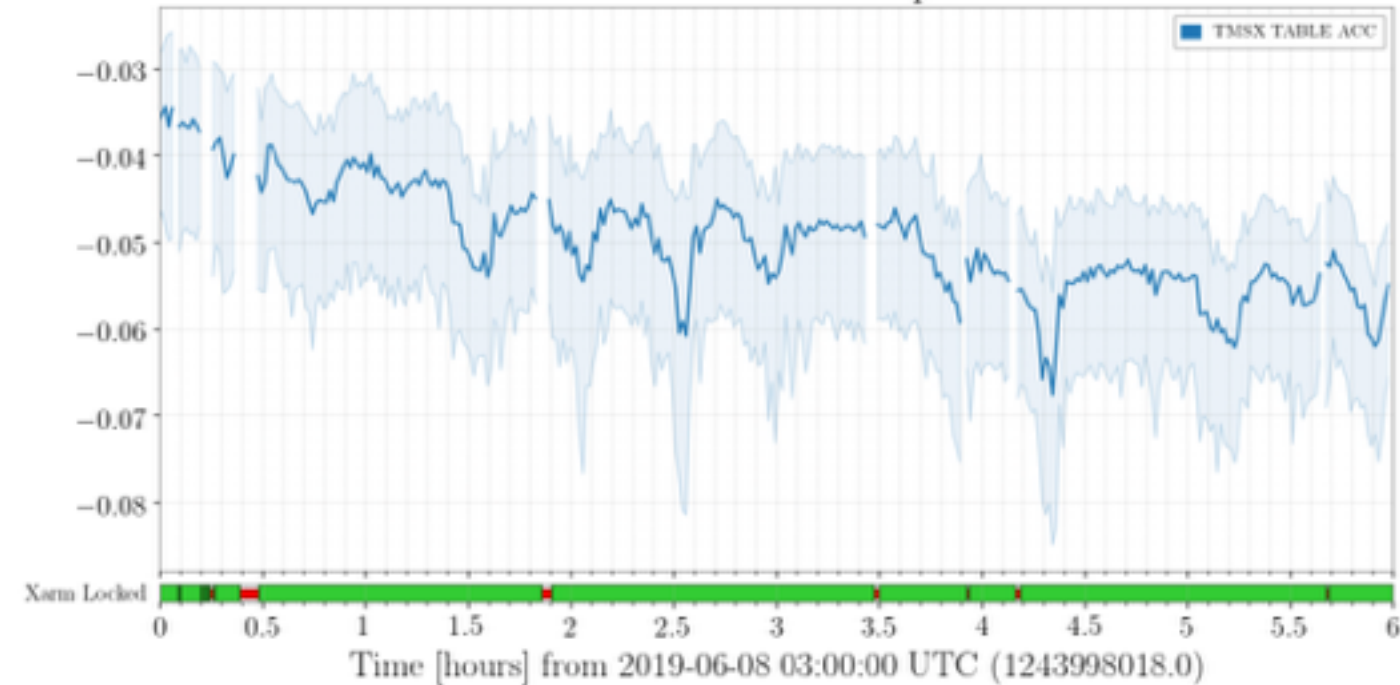
IFO REFL TABLE Accelerometer amplitude time series



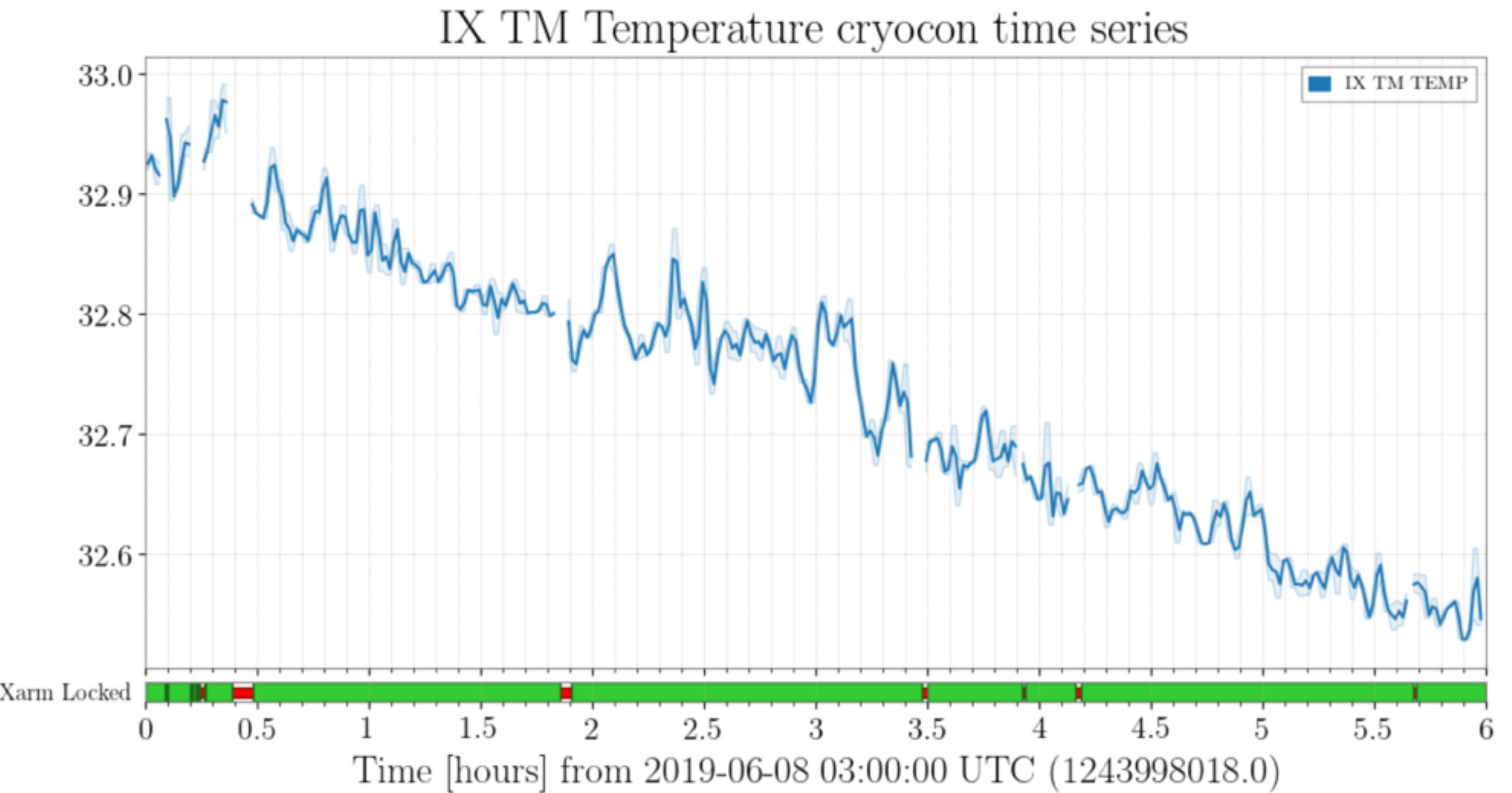
TMSX TABLE Microphone amplitude time series



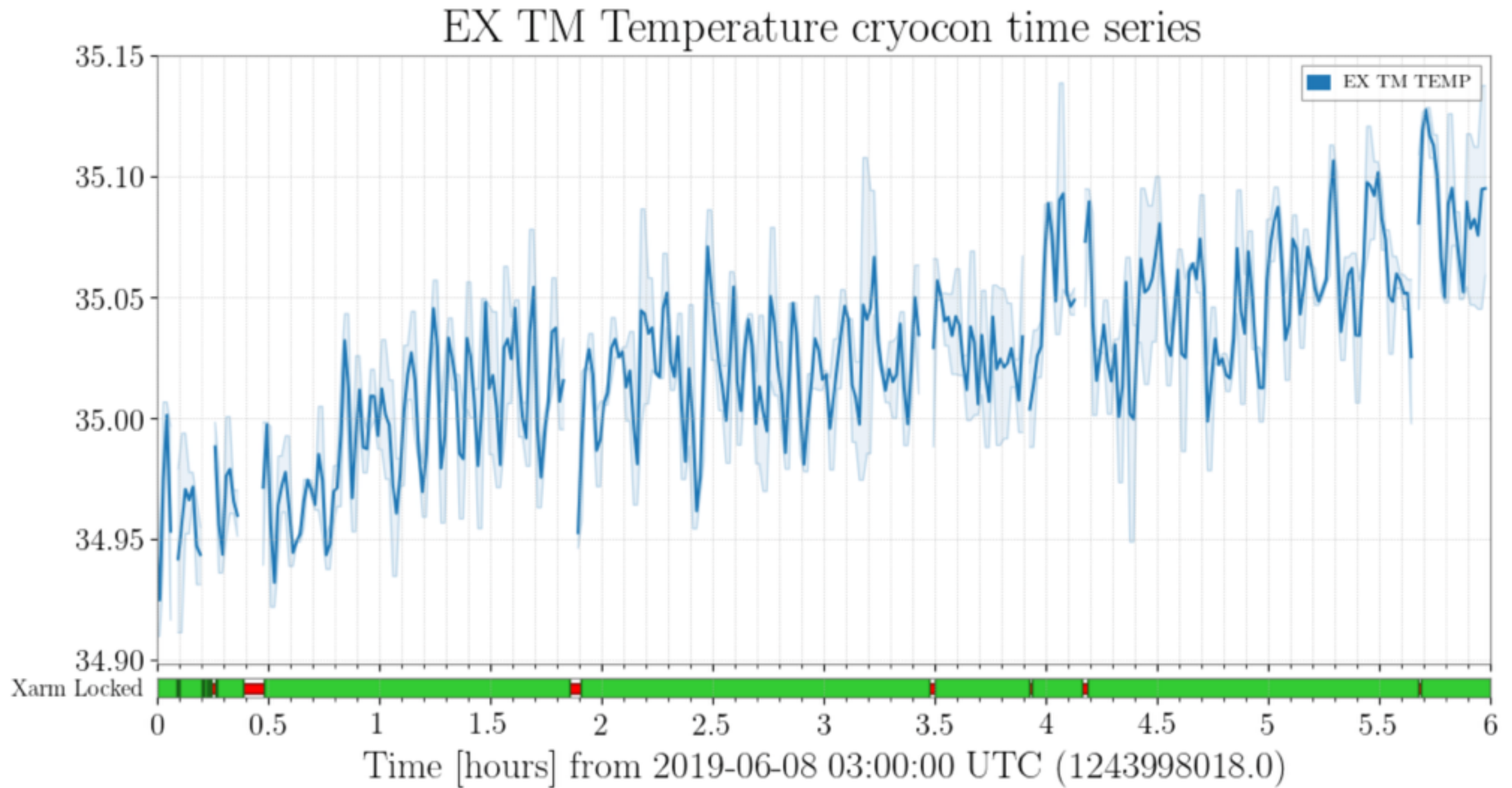
TMSX TABLE Accelerometer amplitude time series



IX TM temp



EX TM temp



Summary and future work

- (Very) basic plots for the important channels
 - Only time series
 - Duty cycle from the guardian
- Next step (before chief meeting next week)
 - Add the plots for the control and suspension
 - Spectrogram
 - (If possible) glitch and line

Backups

PSL room

Control Diagram

Important channels (DQ)

	Channel Name	Physical meaning
1	K1:PSL-PMC_CAV_REFL_DC_OUT_DQ	Power at the reflection port
2	K1:PSL-PMC_CAV_TRANS_DV_OUT_DQ	Power at the transmitting port
3	K1:PSL-PMC_MIXER_MON_OUT_DQ	Error signal of the PMC cavity
4	K1:PSL-PMC_PZT_HV_MON_OUT_DQ	Control signal
5	K1:PSL-PMC_SLOW_MON_OUT_DQ K1:PSL-PMC_PZT_SLOW_MON_OUT_DQ	Slow feedback signal
6	K1:PSL-PMC_PZT_FAST_MON_OUT_DQ K1:PSL-PMC_FAST_MON_OUT_DQ	Fast feedback signal
7	K1:PSL-PMC_TEMP_OUT_DQ	Feedback signal for the temperature loop (slowest control)

* They are all "unsafe" each other

