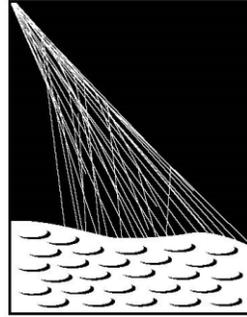


FD Operations & Maintenance



PIERRE
AUGER
OBSERVATORY

Anton Moroz

Malargue, Jan 30, 2024

Operations (shift 4.01.24 – 18.01.24)



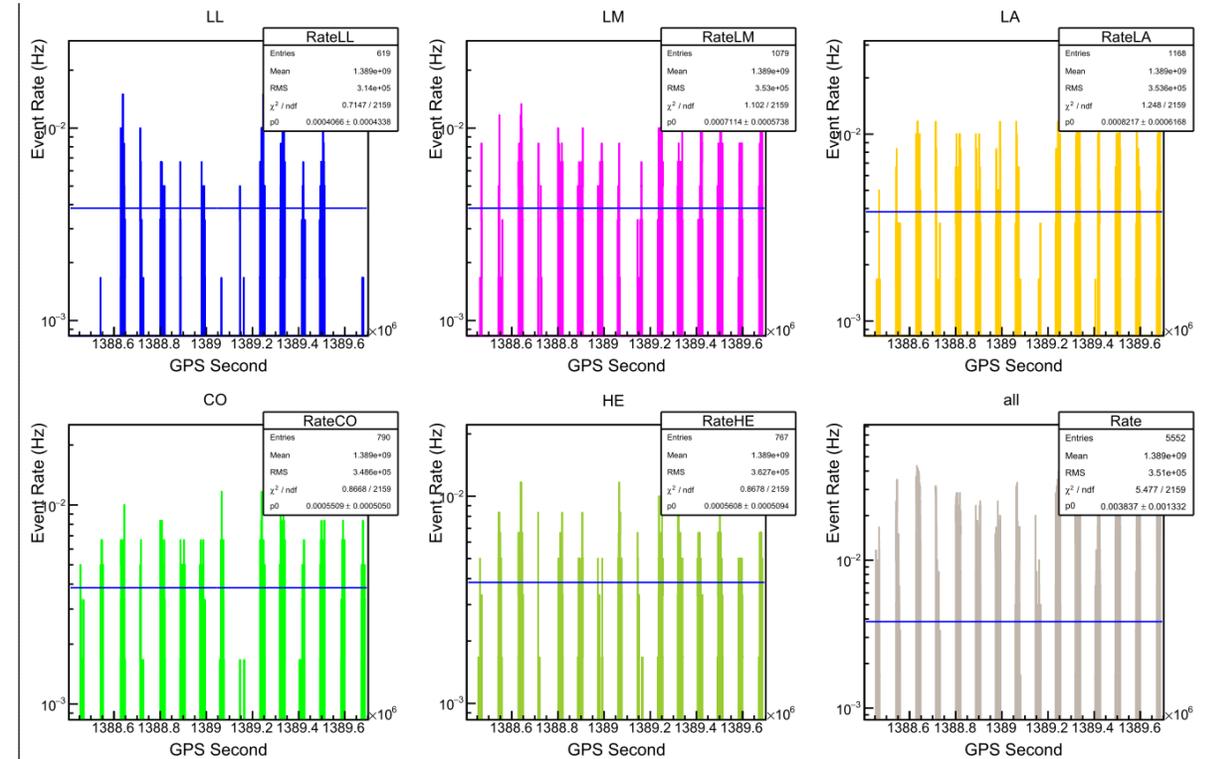
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Weather

- Lightning storms led to shutters closing all throughout the shift. On some nights almost no data taken.
- T2 ratios often above 50-80 Hz in all FDs although no clouds. Many runs were stopped automatically or manually almost every night of the shift
- T3 ratios often spiked – many of the recorded events are invalid (manually checked)

Power outages

- 5.01 LL and LM
- 6.01 all except LA
- 7.01 all except LA
- 17.01 LL



Total event counts (T3 rate higher than real):

LL – 619, LM – 1079, LA – 1168, CO – 790, HE – 767

Counts from good shifts: around 2500 per FD

Operations (shift 4.01.24 – 18.01.24)



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LL:

- HV/LV issues throughout all shift in different bays, mostly bay 1. Sometimes resetting circuit boards helped, on other nights some bays were not run. Boards were swapped between bays 1 and 6 – no noticeable effect.
- 5.01 Calibration after the night: in LL bays 1-5 and HE bay 3 were not recording events
- 17.01 electronic background for calibration could not be recorded (no output) – calibration not performed

CO:

- Air conditioning motor problem – no replacement can be obtained locally. Temperatures in bays consistently higher than normal due to hot weather. Maintenance team thinking about the solution