STOCHASTIC-DETCHAR UPDATES: MAY 28

Rich Ormiston

background image aLOG

LLO - RANGE DROPS FROM EX

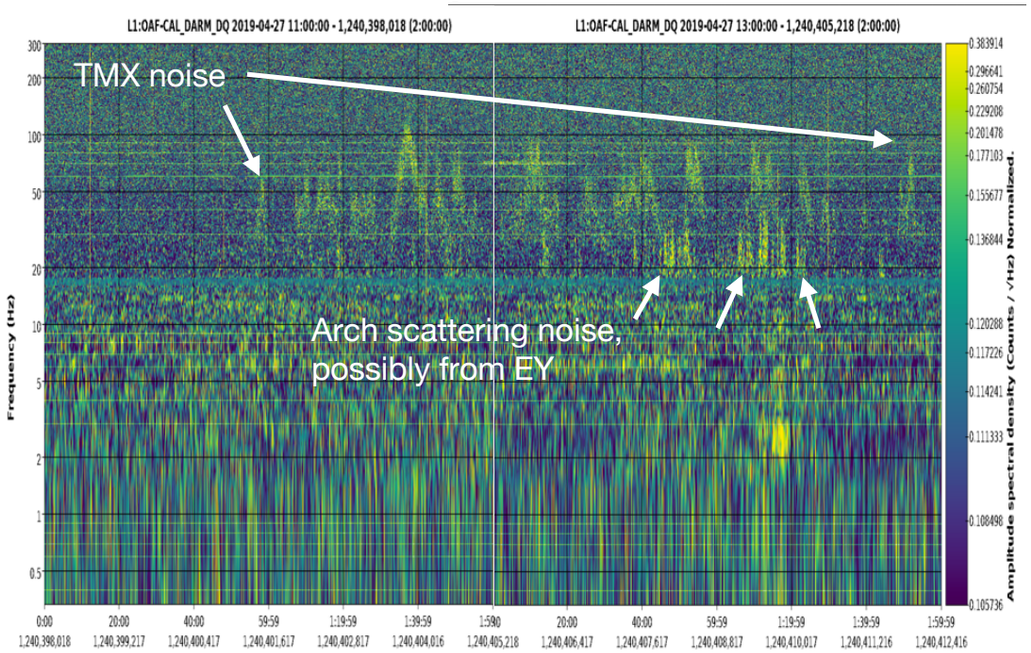
- The big drops in LLO range with anthropogenic vibrations are strongly correlated with what looks like scattered light on the TMX diodes.
- The range-correlated noise has higher SNR in the TMX diode signals than in DARM, indicating that the TMX diodes witness the noise before it is combined with other noise in DARM.
- aLOG 46184

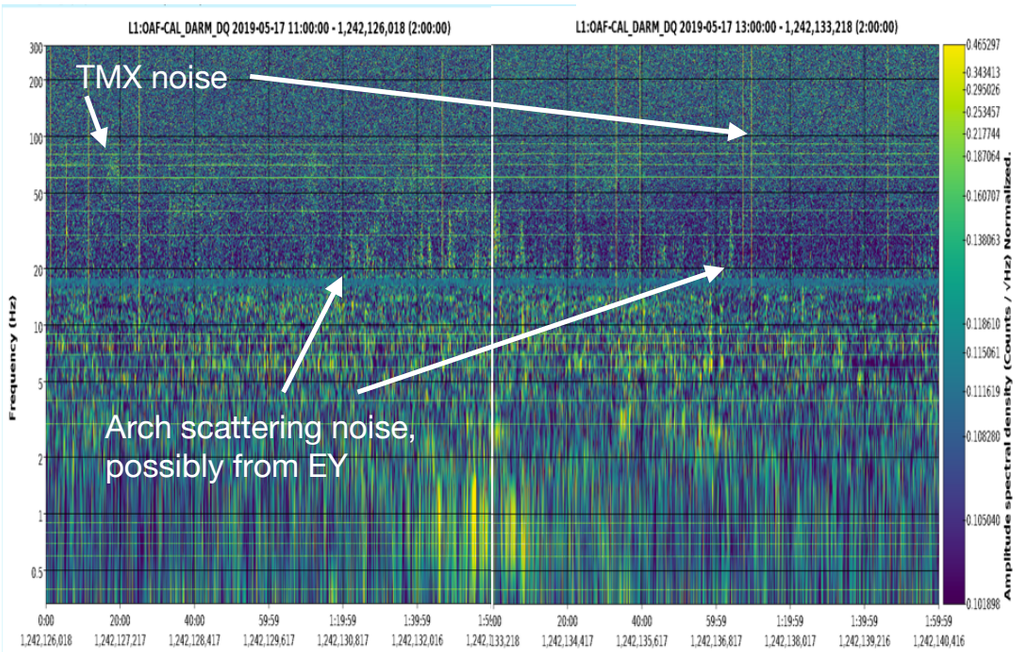
LLO - RANGE DROPS FROM EX

April 27

May 17

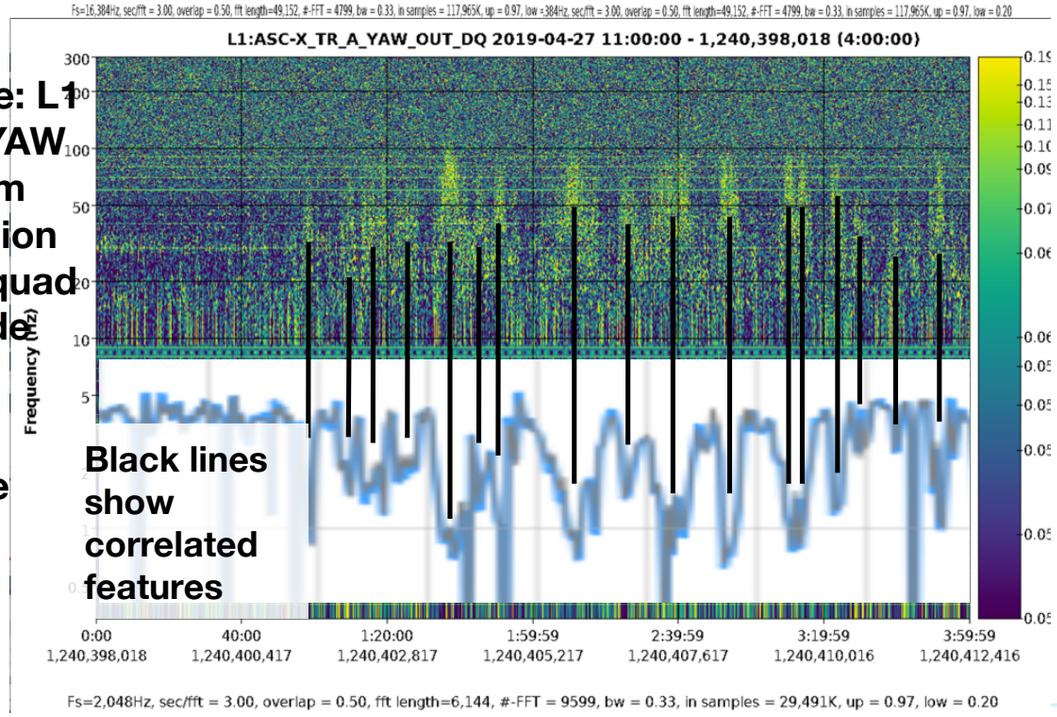
L1 DARM
4 hours

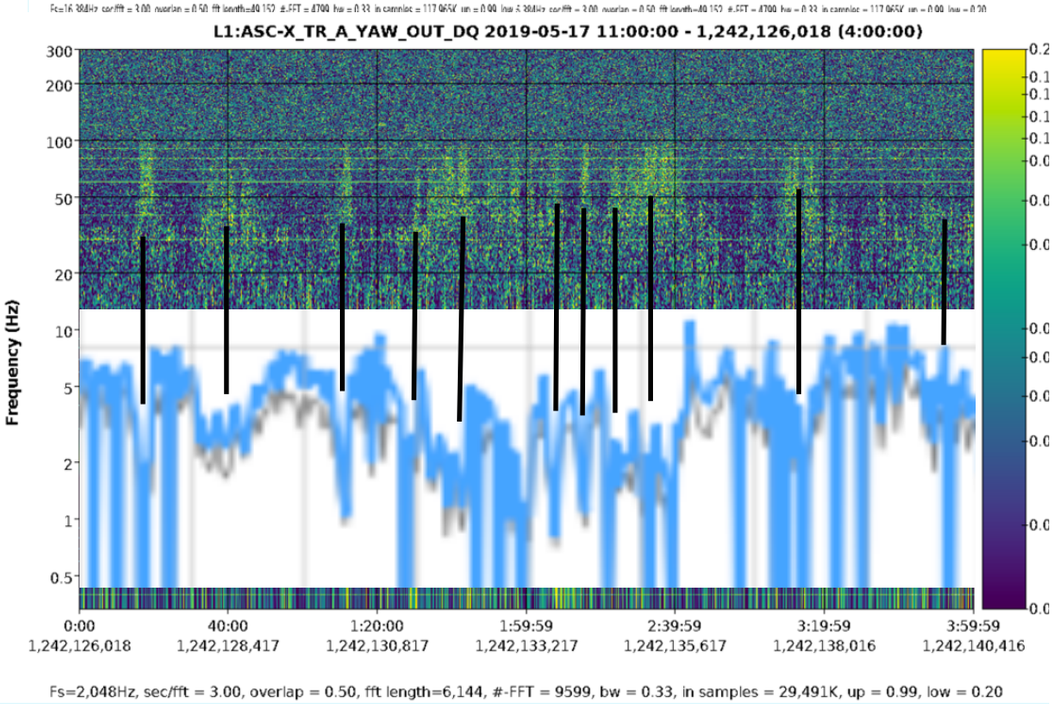




TMX noise: L1 X_TR_A_YAW signal from transmission monitor quad photodiode

L1 range



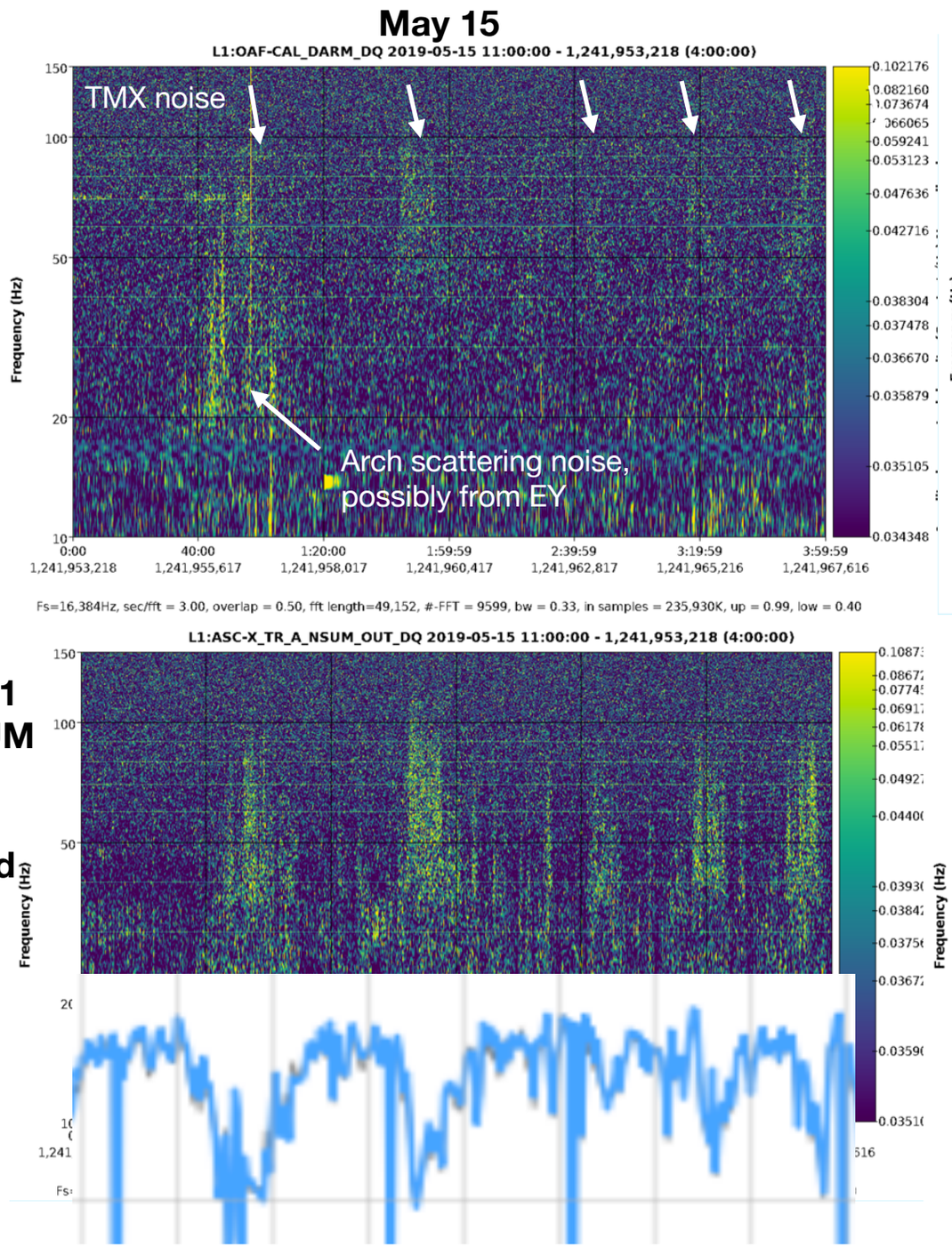


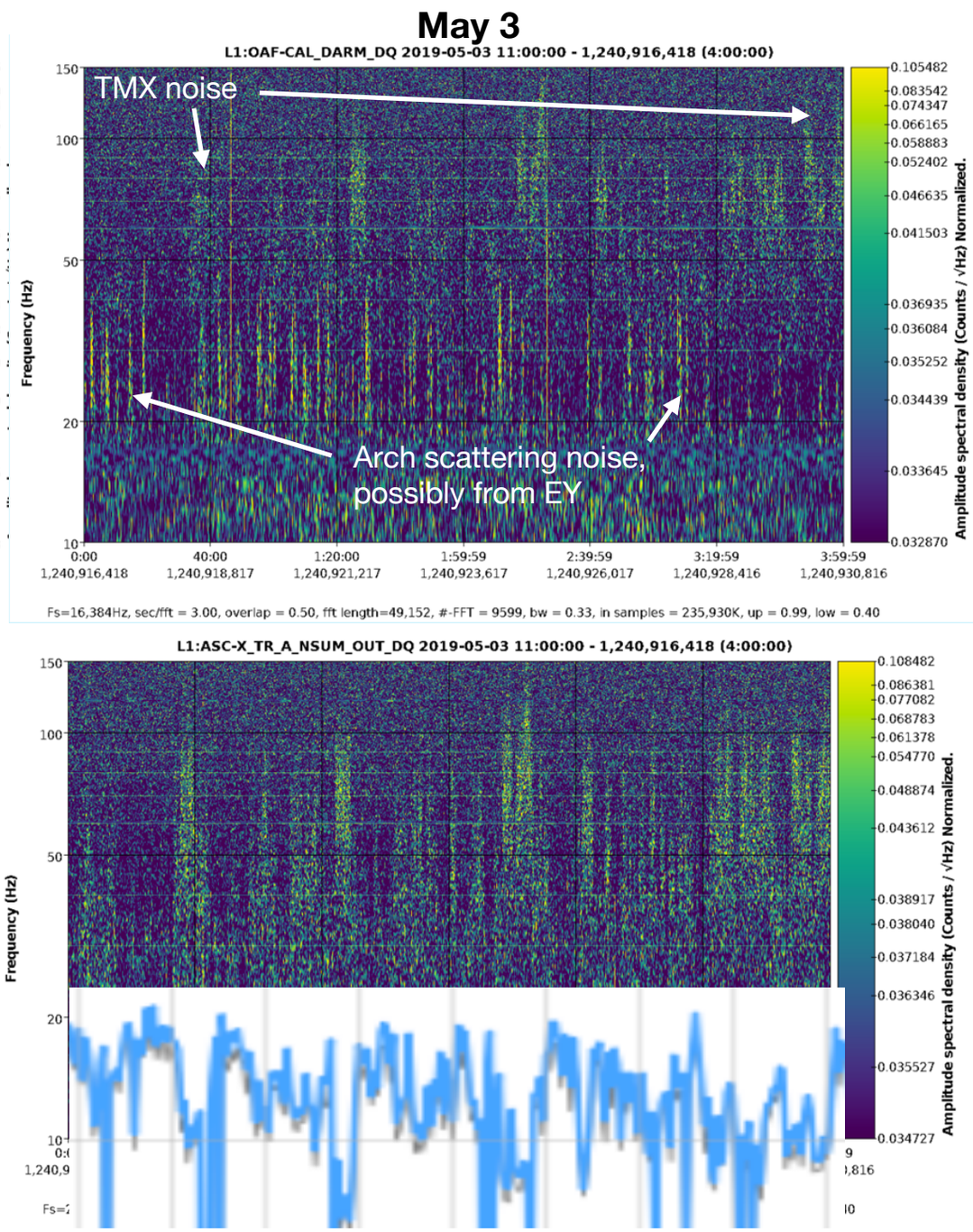
LLO - RANGE DROPS FROM EX

L1 DARM 4 hours

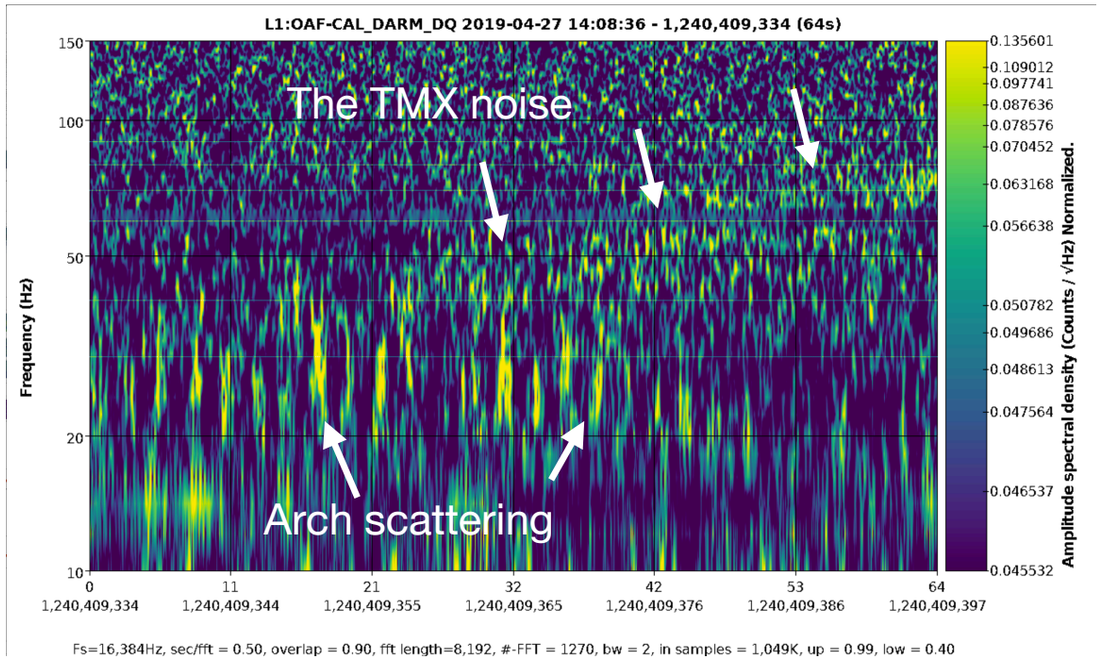
TMX noise: L1 X_TR_A_NSUM signal from transmission monitor quad photodiode

L1 range

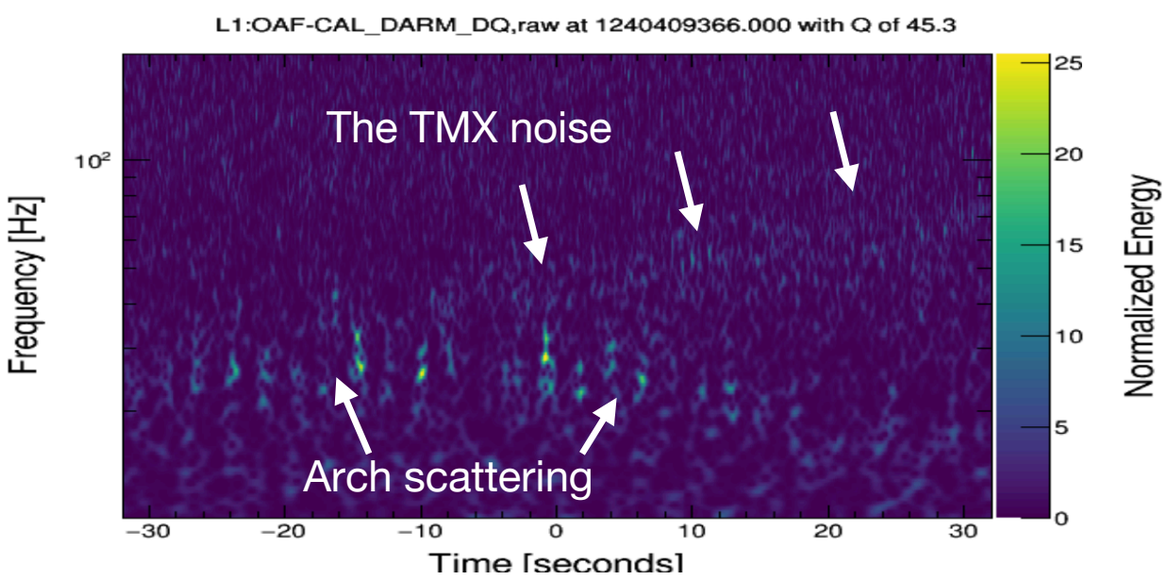




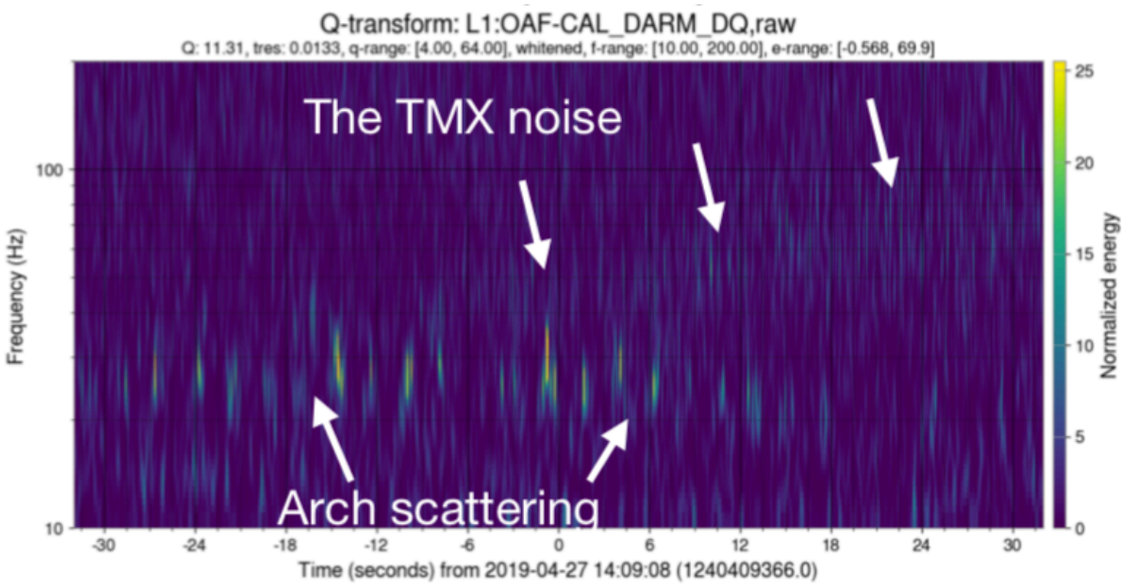
LLO - RANGE DROPS FROM EX



Arch Scattering != TMX Noise



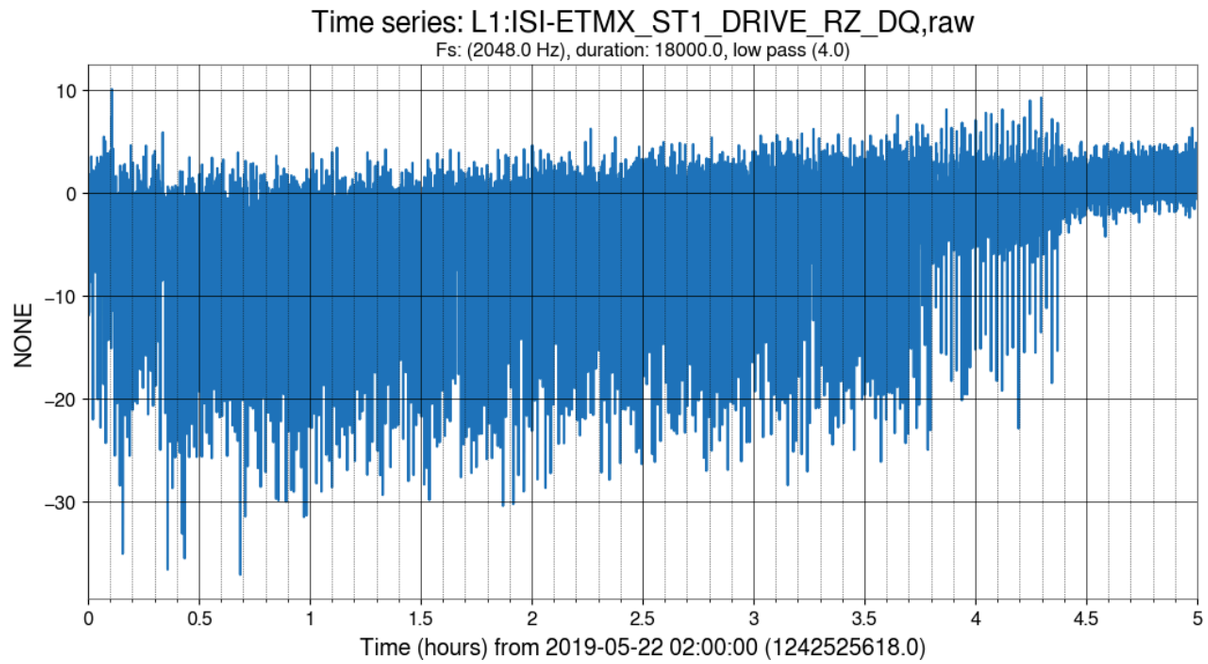
Omega Scan

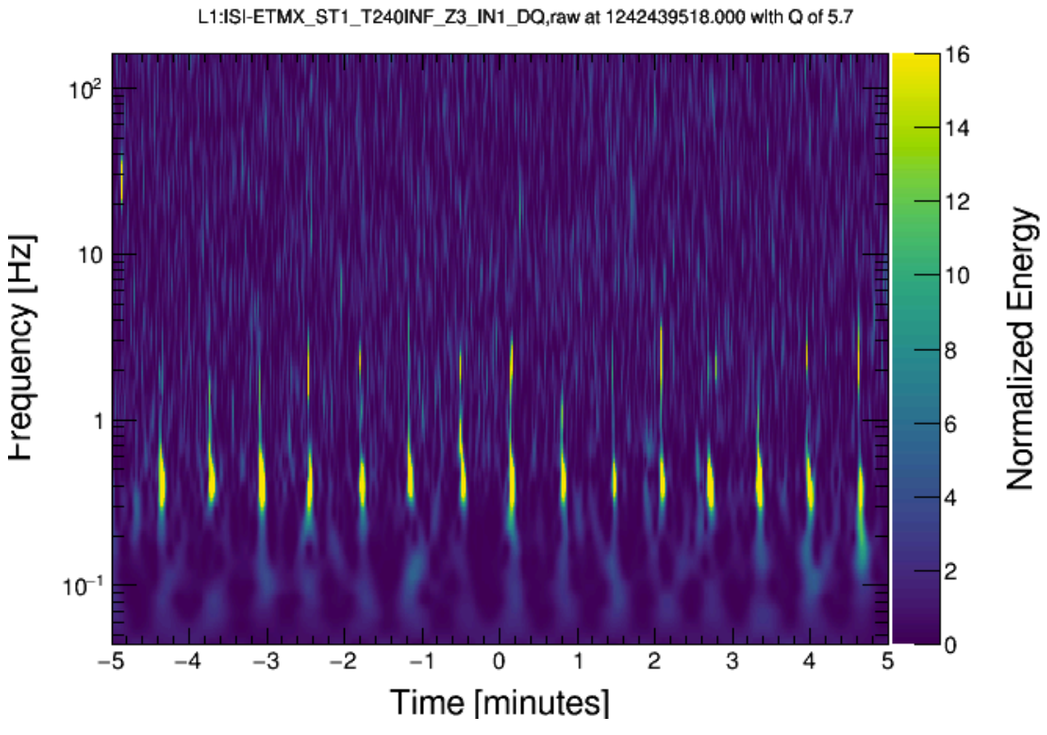


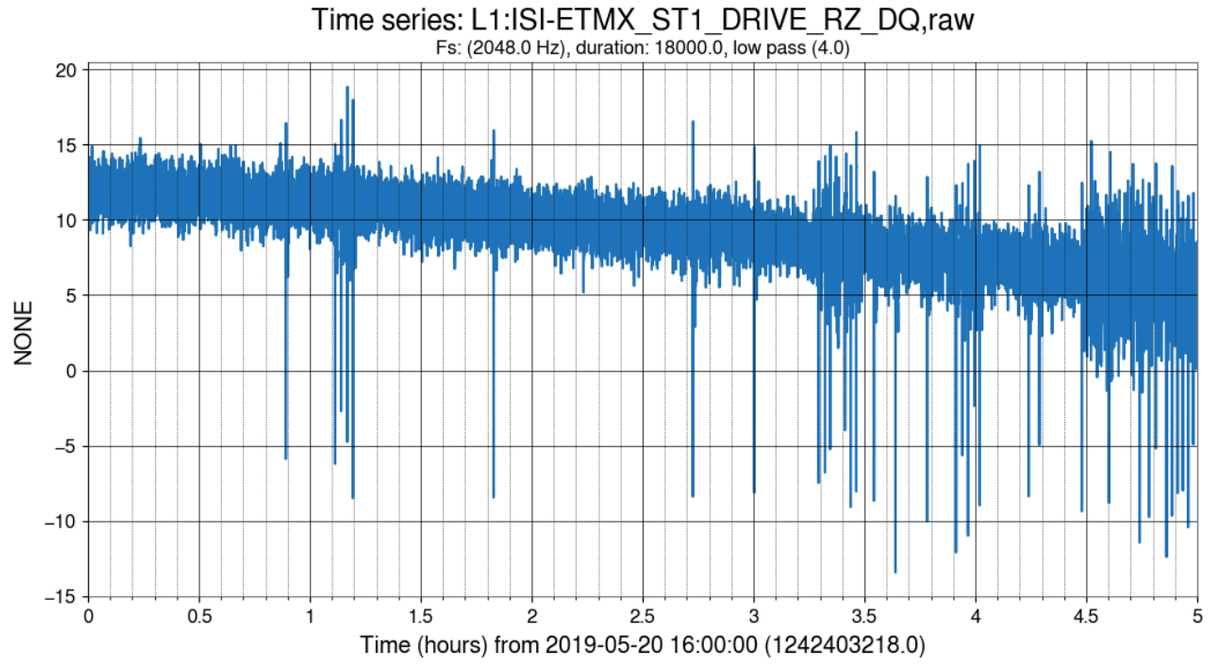
Q-Transform

LLO - ETMX ISI GLITCHING

- Starts May 20th
- Occurs every ~40 seconds
- *Not* coupled into DARM
- aLOG 46182



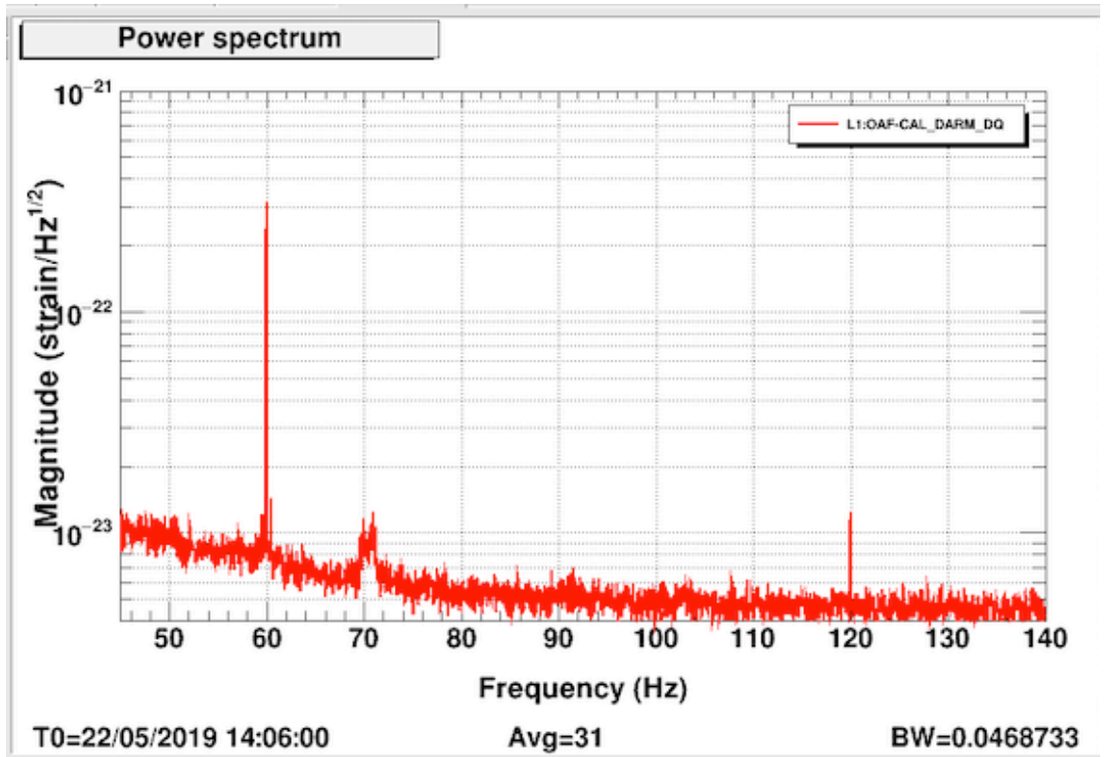


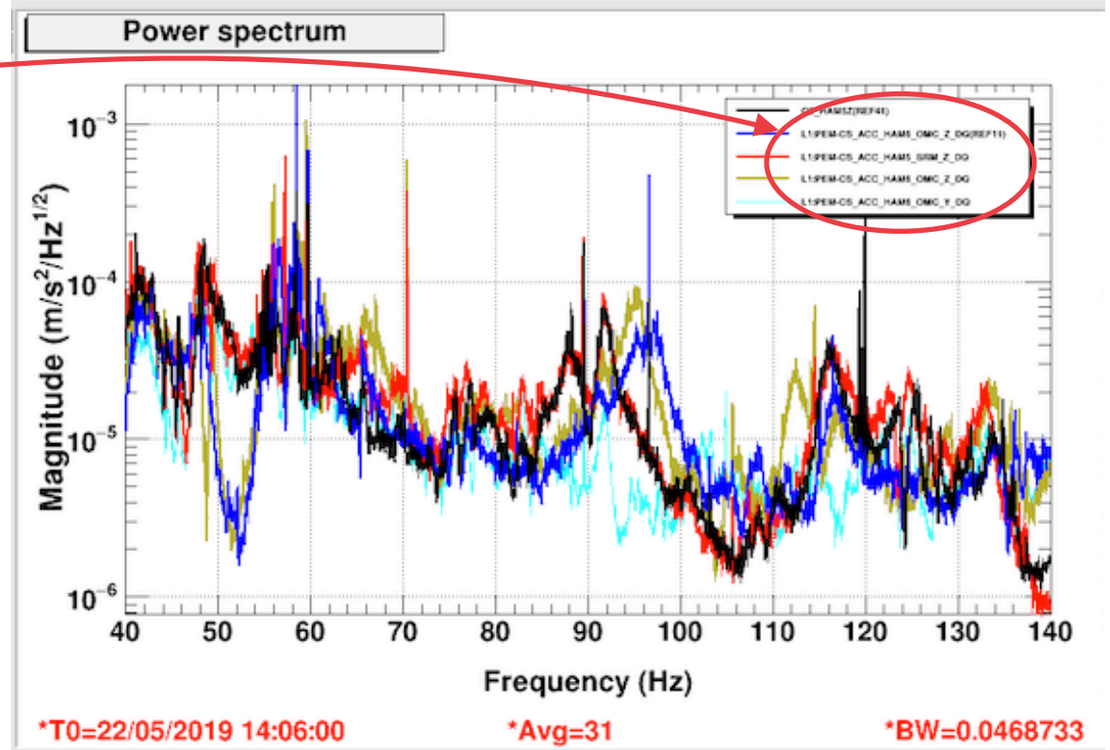


LLO - 70HZ NOISE (AGAIN)

- 70Hz Noise in Ham5/6 Area
- Intermittent
- Seen by accelerometers
- aLOG 46149

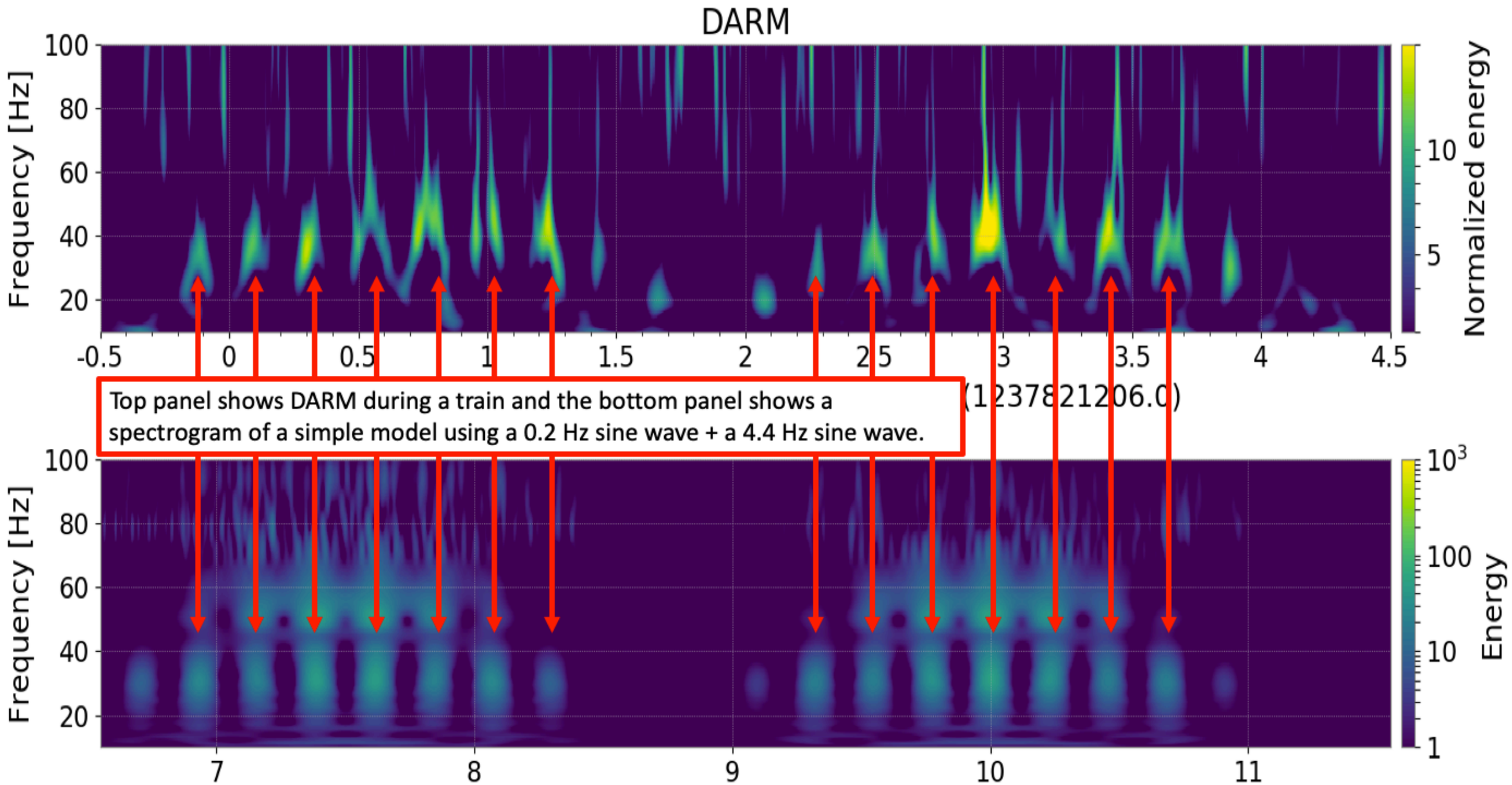
ACC_HAM{5..6}





LLO - ANTHROPOGENIC NOISE

EY Shaker Injections look like 'daytime noise (aLOG 46089)



LLO - ANTHROPOGENIC NOISE