

10-30 Hz BLRMS snow plow analysis

For UTC Interval 2017-02-03 16:20:00 - 2017-02-12 15:30:00

Summary of suggested DQ flag times:

H1:DCH-SNOW_PLOW (v3):

Feb 09 2017 13:05-16:30 UTC

Bonus DQ flag:

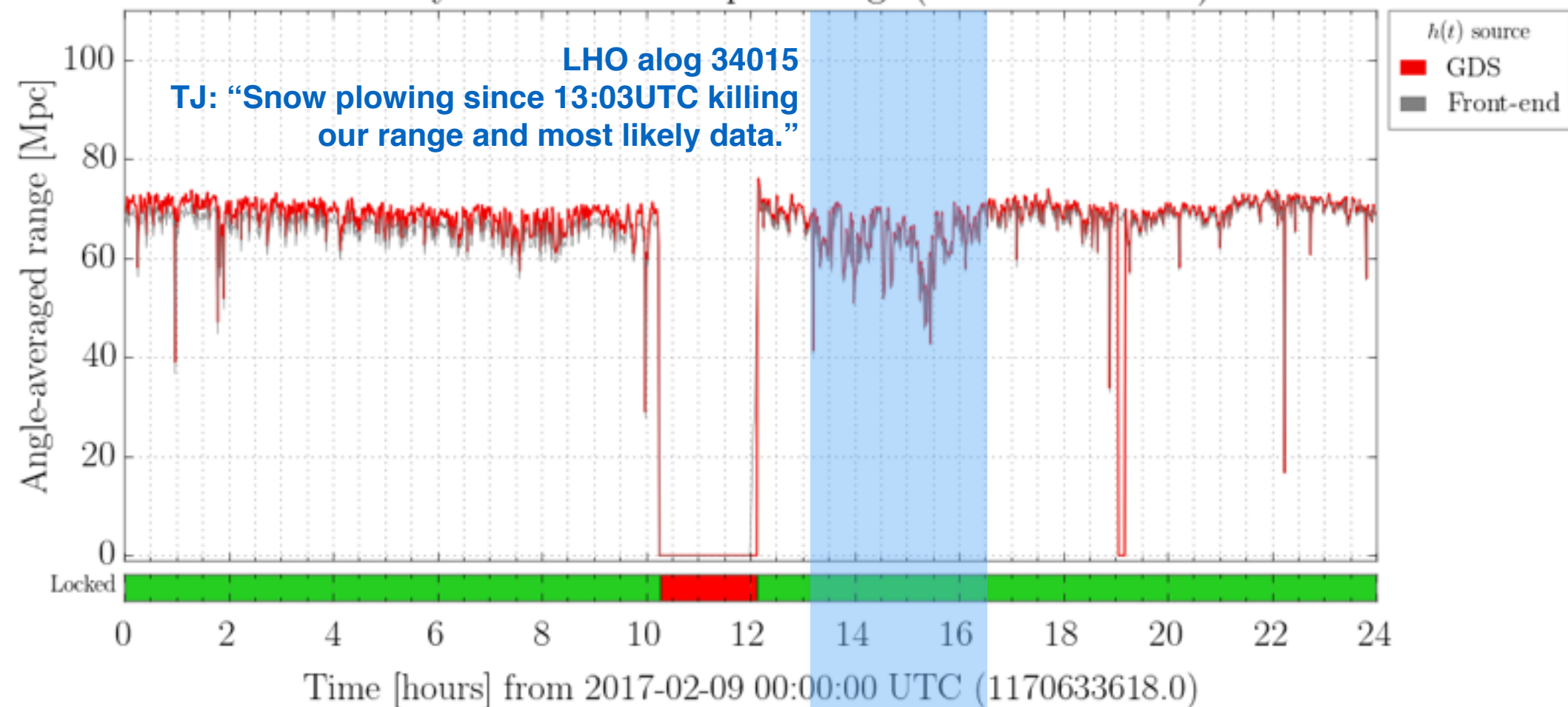
H1:DCH-HIGH_WIND_EY

Feb 10 2017 06:30-09:30 UTC (lock loss at 07:43 UTC: alog 34035)

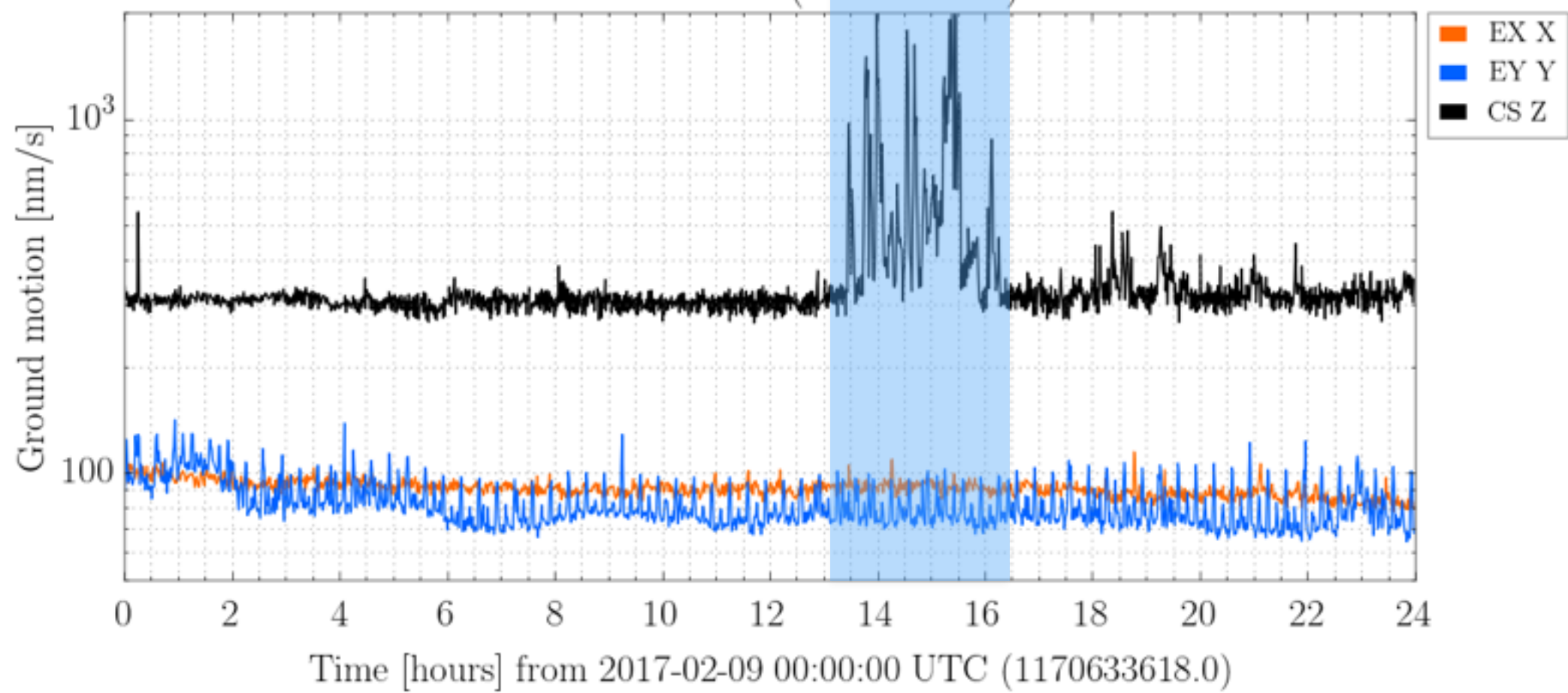
Suggestion: Test the effect of thresholding

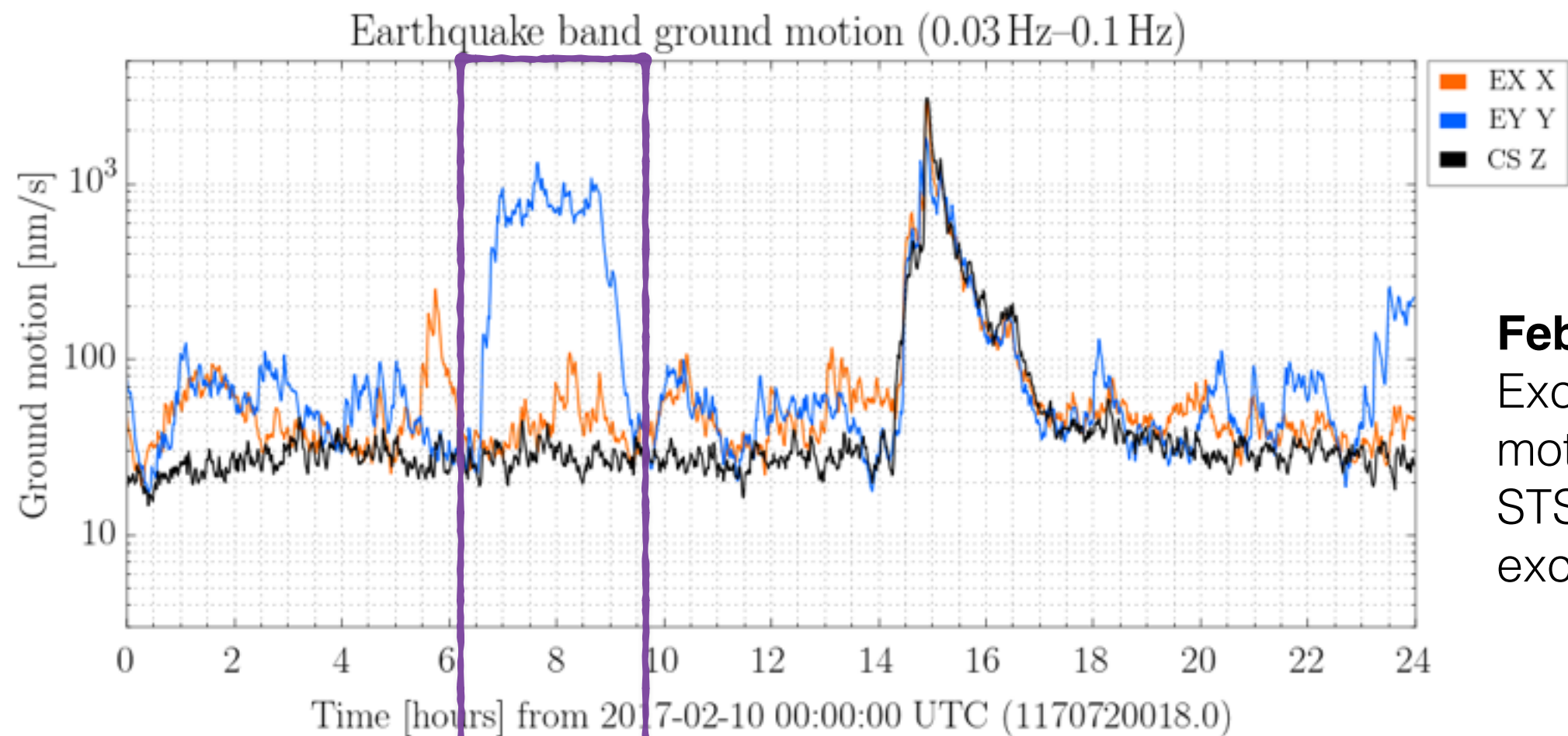
H1:PEM-EY_WIND_ROOF_WEATHER_MPH on 30 MPH on Omicron triggers; consider adding an automated DMT DQ flag

H1 binary neutron star inspiral range (DMT SenseMon)



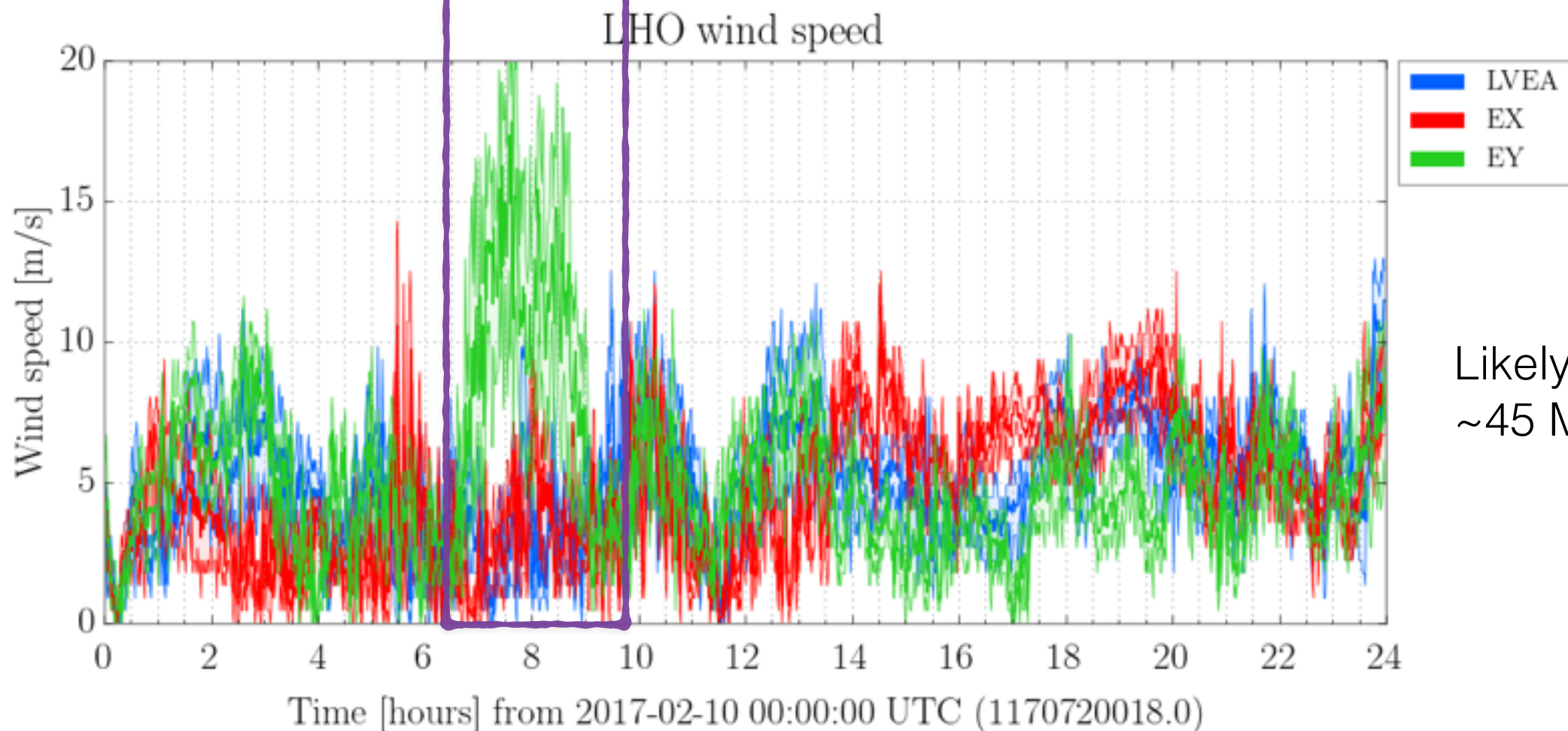
Ground motion (10 Hz–30 Hz)





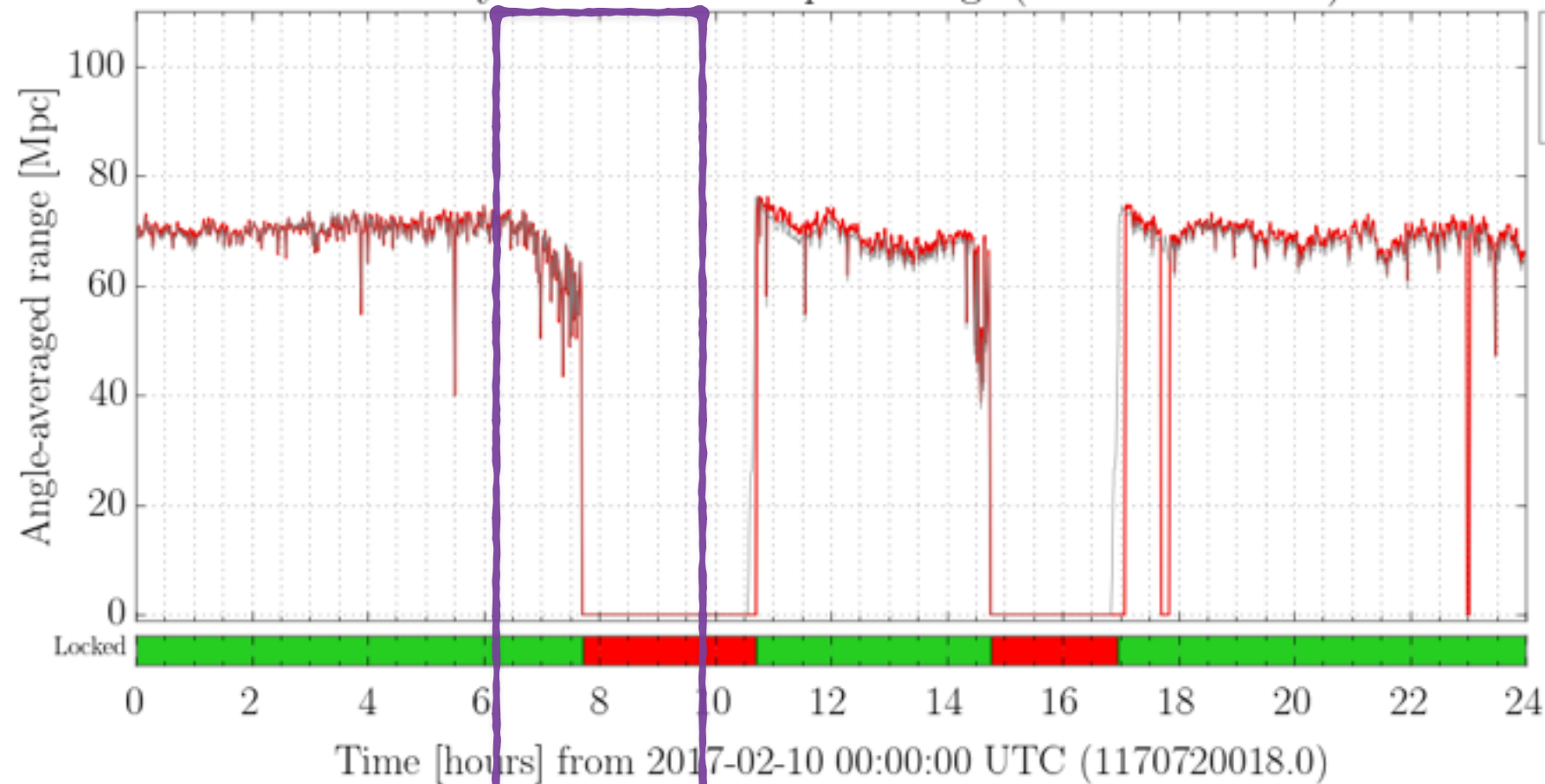
Feb 10:

Excess ground motion seen in EY STS in all bands except microseism.



Likely due to up to ~45 MPH winds at EY.

H1 binary neutron star inspiral range (DMT SenseMon)



Feb 10:

Impact of high winds at EY on the range and PyCBC triggers.

H1 PyCBC Live events

Loudest event: End Time= 1170772732.060546875, Template Duration= 0.928, New SNR= 15.3

