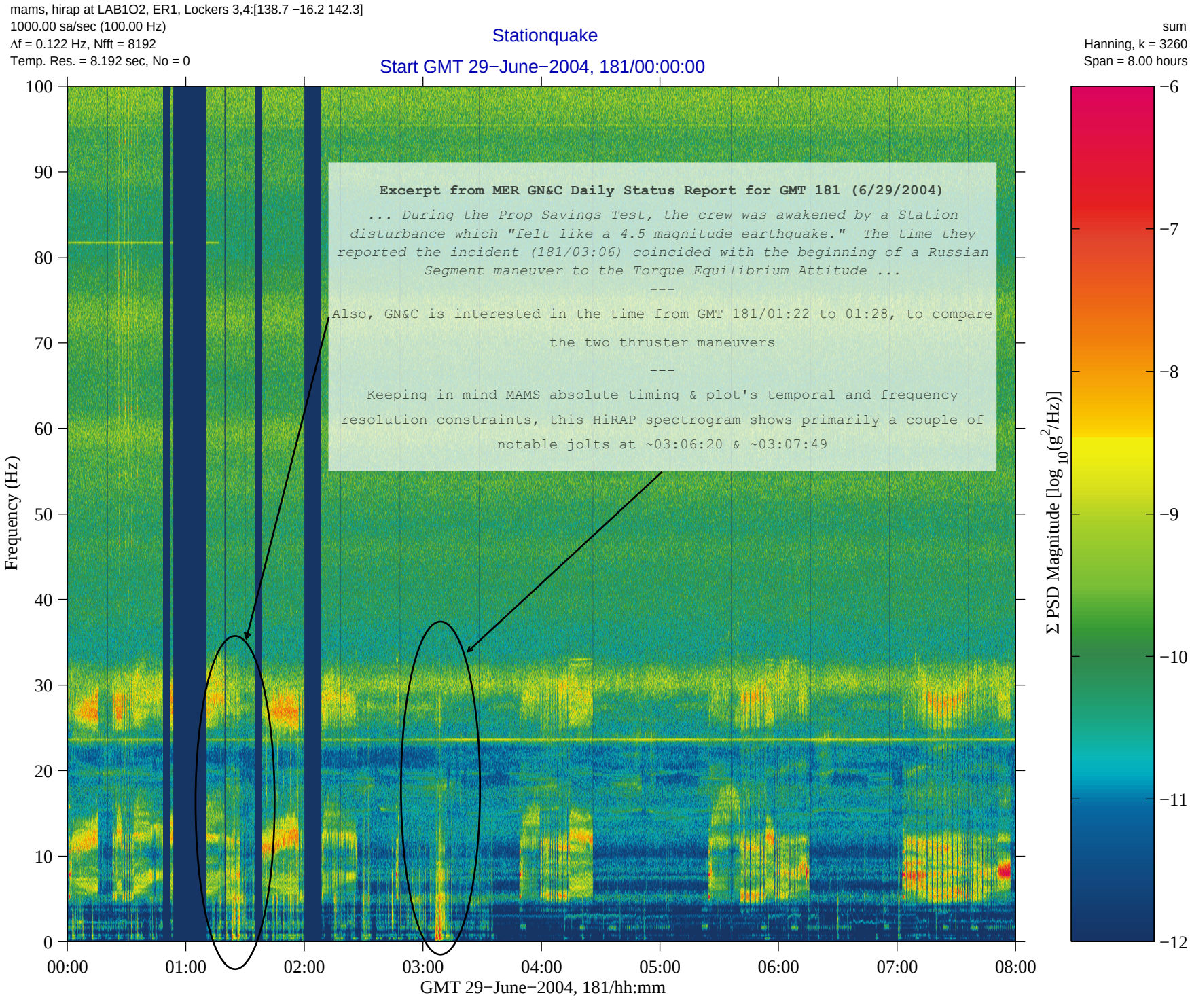
mams, hirap at LAB1O2, ER1, Lockers 3,4:[138.7 −16.2 142.3]
1000.00 sa/sec (100.00 Hz)
Δf = 0.122 Hz, Nfft = 8192
Temp. Res. = 8.192 sec, No = 0
Stationquake
Start GMT 29−June−2004, 181/00:00:00
sum
Hanning, k = 3260
Span = 8.00 hours
Excerpt from MER GN&C Daily Status Report for GMT 181 (6/29/2004)
... During the Prop Savings Test, the crew was awakened by a Station disturbance which "felt like a 4.5 magnitude earthquake." The time they reported the incident (181/03:06) coincided with the beginning of a Russian Segment maneuver to the Torque Equilibrium Attitude ...

Also, GN&C is interested in the time from GMT 181/01:22 to 01:28, to compare the two thruster maneuvers
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Keeping in mind MAMS absolute timing & plot's temporal and frequency resolution constraints, this HiRAP spectrogram shows primarily a couple of notable jolts at ~03:06:20 & ~03:07:49
Frequency (Hz)
100
90
80
70
60
50
40
30
20
10
0
00:00
01:00
02:00
03:00
04:00
05:00
06:00
07:00
08:00
GMT 29−June−2004, 181/hh:mm
Σ PSD Magnitude [log 10(g2/Hz)]
−6
−7
−8
−9
−10
−11
−12