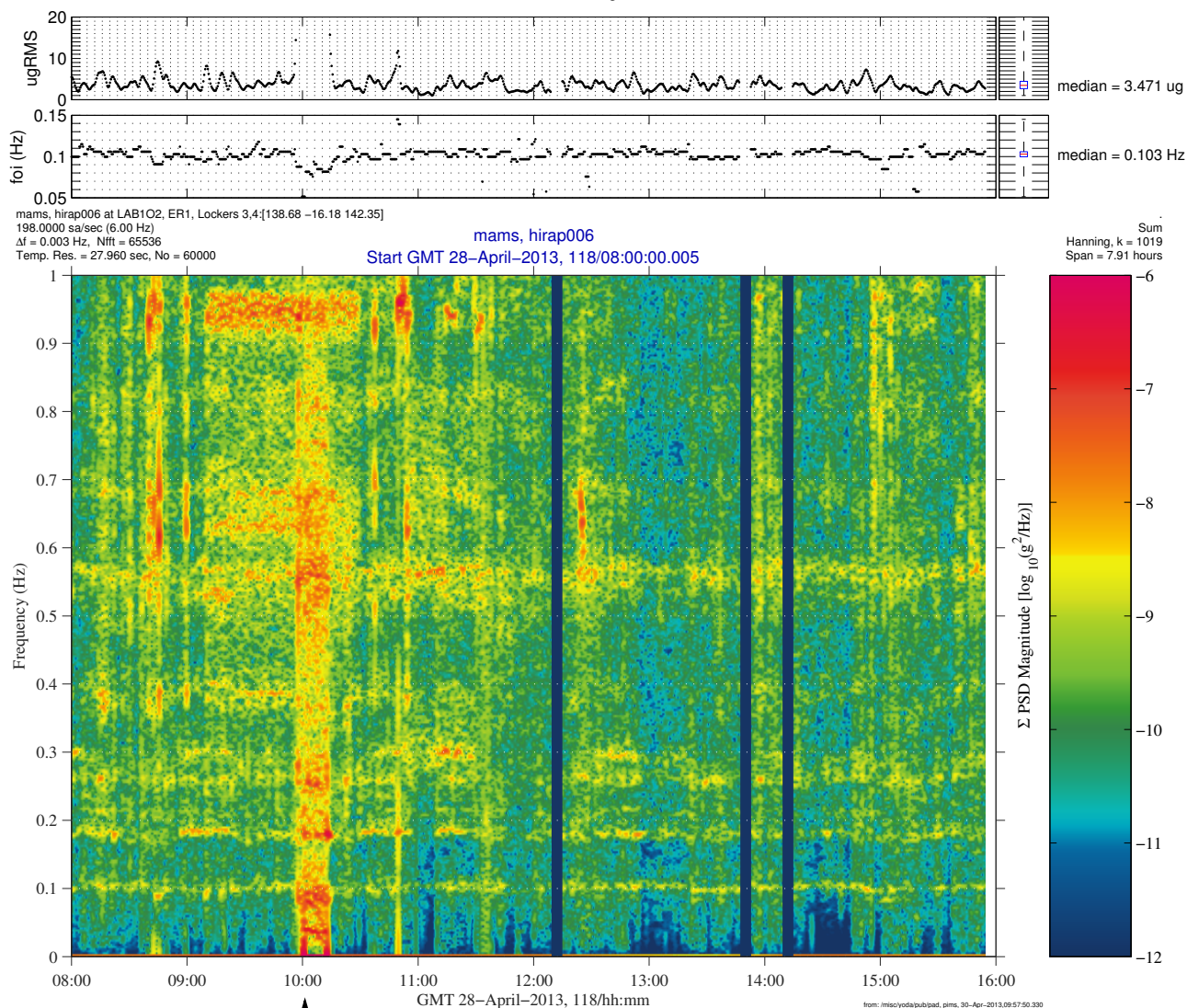


Progress 51P Reboost Qualify



Description	
Sensor	HiRAP (low-pass filtered) 198 sa/sec (6 Hz)
Location	LAB1O2, ER1, Lockers 3,4
Plot Type	spectrogram (Σ); $f < 1$ Hz

Notes:

- The Progress 51P vehicle was used to reboost the altitude of the the ISS on GMT 28-April-2013 from about 10:03 to about 10:15.
- This spectrogram shows the impact of the reboost event as a yellow/orange/red vertical broadband disturbance during reboost. Note the elevated structural mode excitation at multiple distinct frequencies primarily below about 0.9 Hz – these are the horizontal, red streaks at those distinct frequencies.

Regime:	Vibratory
Category:	Vehicle
Source:	Progress 51P Reboost

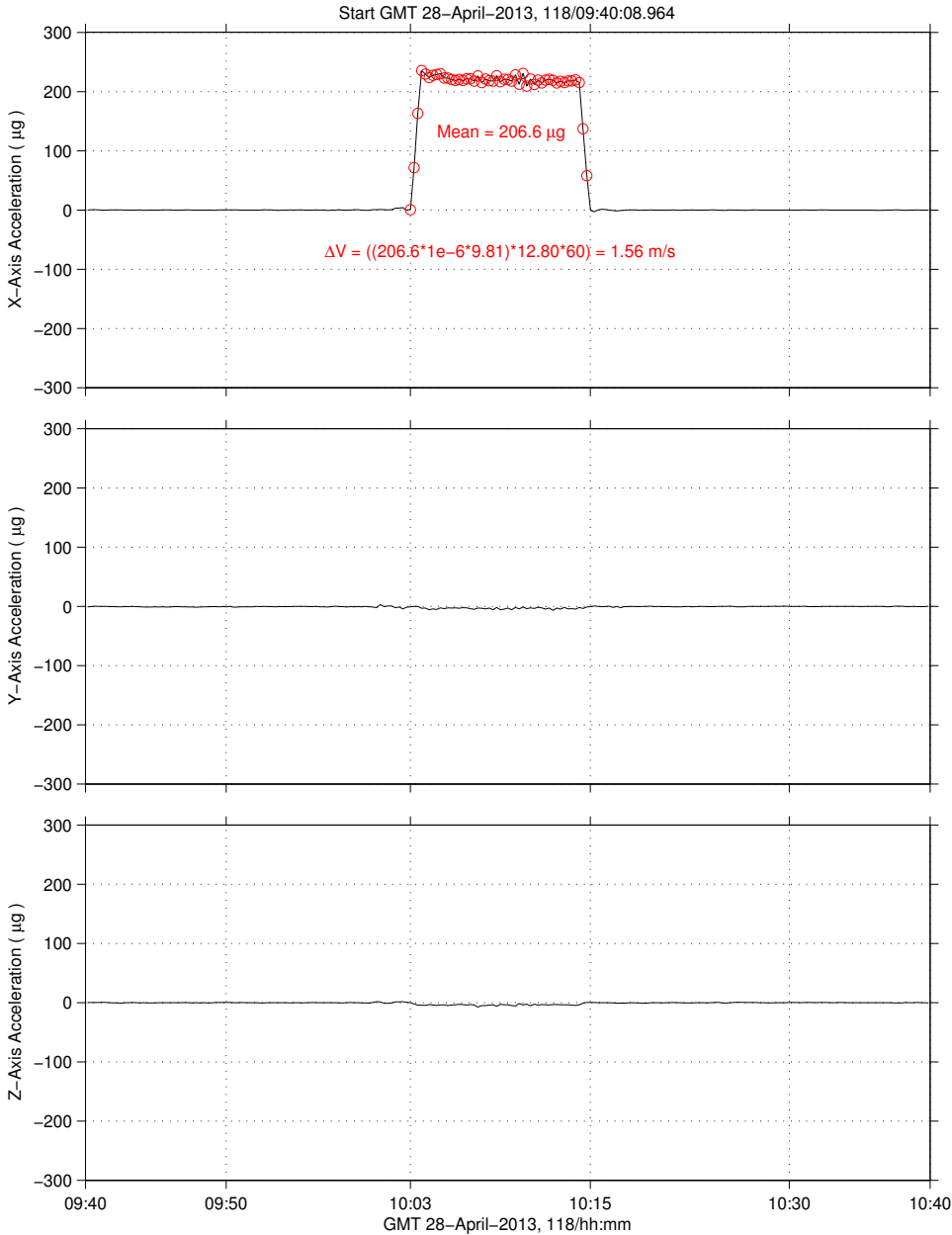


Progress 51P Reboost Quantify

mams, ossbmf at LAB1O2, ER1, Lockers 3,4:[135.28 -10.68 132.12]
0.0625 sa/sec (0.01 Hz)

Progress 51P Reboost

SSAnalysis[0.0 0.0 0.0]



Description	
Sensor	MAMS OSS 0.0625 sa/sec, (0.01 Hz)
Location	LAB1O2, ER1, Lockers 3,4
Plot Type	Per-axis ug vs. time

Notes:

The per-axis acceleration versus time plots shown to the left spans 1 hour centered on the reboost event, which lasts just under 12 minutes. This plot shows the quasi-steady impact of reboost:

The X-axis exhibits a large offset (about 207 μg) during reboost. This acceleration imparts a net X-axis velocity change of 1.56 m/s.

The Y-axis and Z-axis show very little impact on the scale compared to the X-axis.

Regime:	Quasi-steady
Category:	Vehicle
Source:	Progress 51P Reboost

