

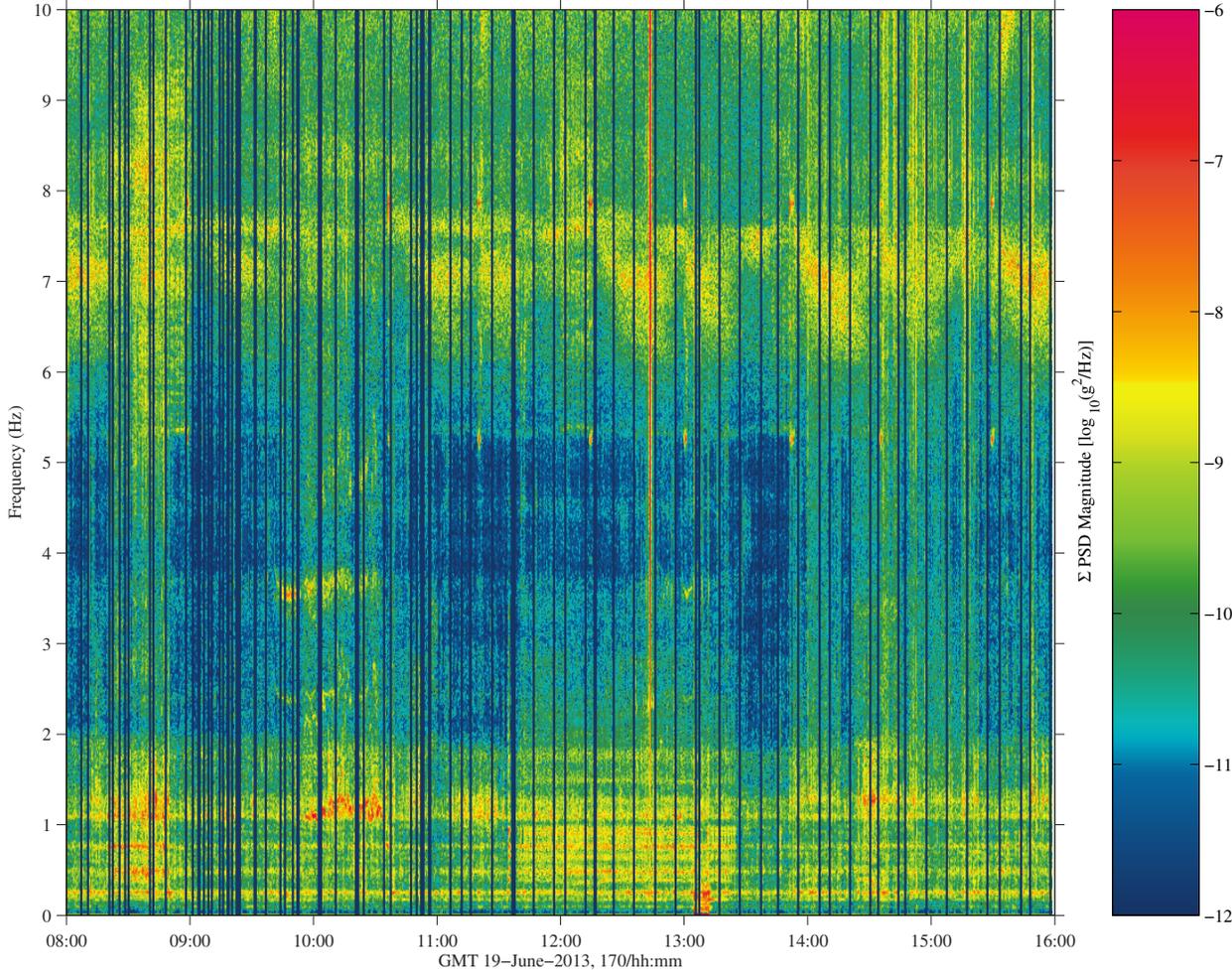
# ATV-4 Reboost Qualify

sams2, 121f05 at JPM1F5, ER4, Drawer 2:[466.80 -292.06 214.58]  
500.0000 sa/sec (200.00 Hz)  
 $\Delta f = 0.015$  Hz, Nfft = 32768  
Temp. Res. = 32.768 sec, No = 16384

sams2, 121f05

Start GMT 19-June-2013, 170/08:00:00.001

Sum  
Hanning, k = 877  
Span = 7.97 hours



from: misc/yoda/pubpad.pims.21-Jun-2013.11:22:17.637

Description	
Sensor	121f05 500 sa/sec (200 Hz)
Location	JPM1F5, ER4, Drawer 2
Plot Type	spectrogram ( $\Sigma$ ); $f < 10$ Hz

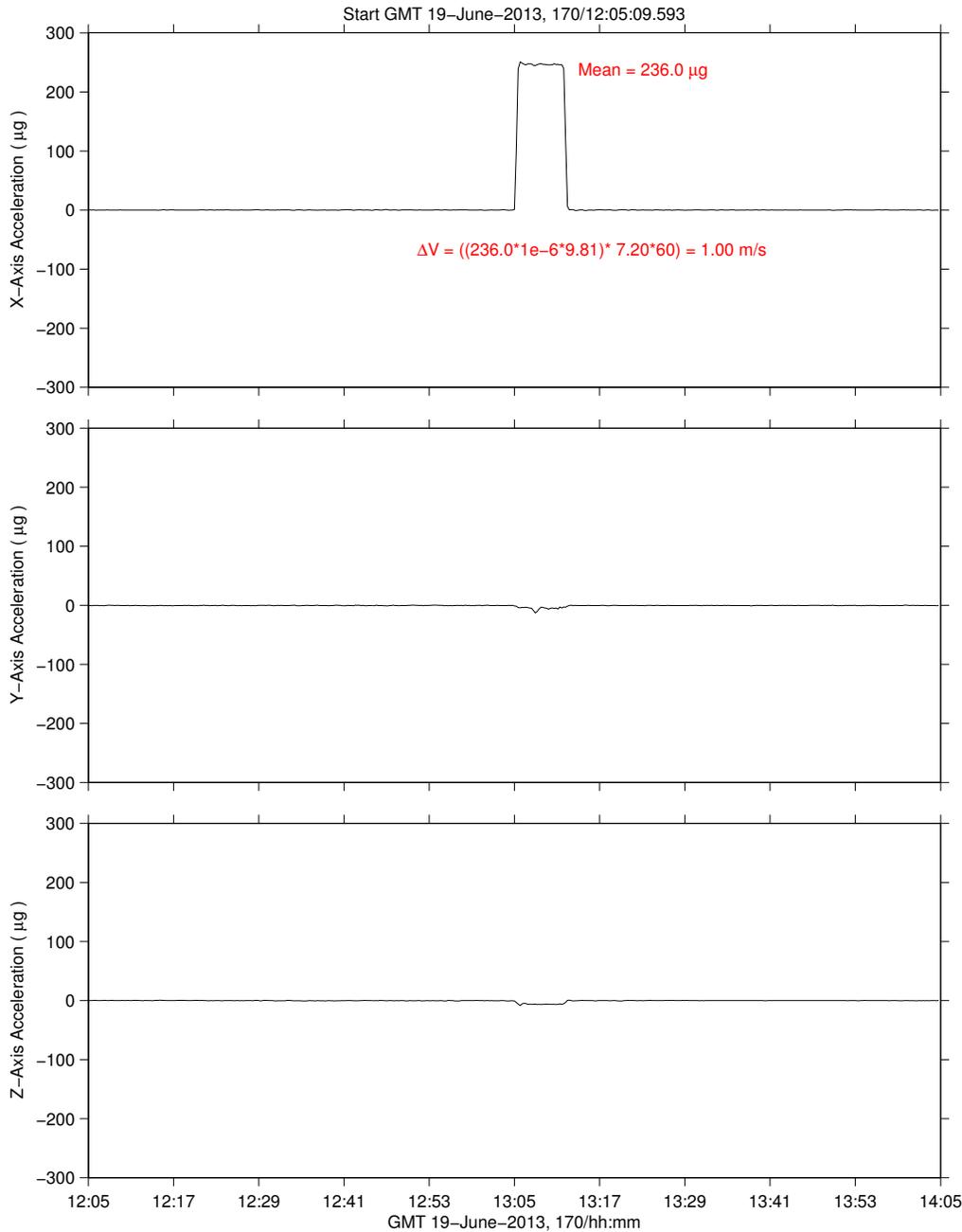
### Notes:

- The ATV-4 cargo vehicle used its thrusters to reboost the ISS starting at about GMT 19-June-2013,13:05. SAMS measurements made in the JEM closely match this time with excitation of station structural modes starting at that time as seen by the vertical orange-to-red-ish streak concentrated below about 0.3 Hz and lasting several minutes.

Regime:	Vibratory
Category:	Vehicle
Source:	ATV-4 Reboost



# ATV-4 Reboost Quantify



Description	
Sensor	MAMS, OSSBTMF 0.0625 sa/sec (0.01 Hz)
Location	LAB1O2, ER1, Lockers 3,4
Plot Type	Acceleration versus time

### Notes:

- The as-flown time line shows that the ATV-4 vehicle fired its thrusters to reboost the station with time of ignition at GMT 19-Jun-2013,13:05 and a duration of 6 minutes, 47 seconds.
- The average X-axis acceleration measured by MAMS during the reboost was 236  $\mu\text{g}$ .
- Note no significant offset on either of the Y-axis or Z-axis during reboost.

Regime:	Vibratory
Category:	Vehicle
Source:	ATV-4 Reboost

