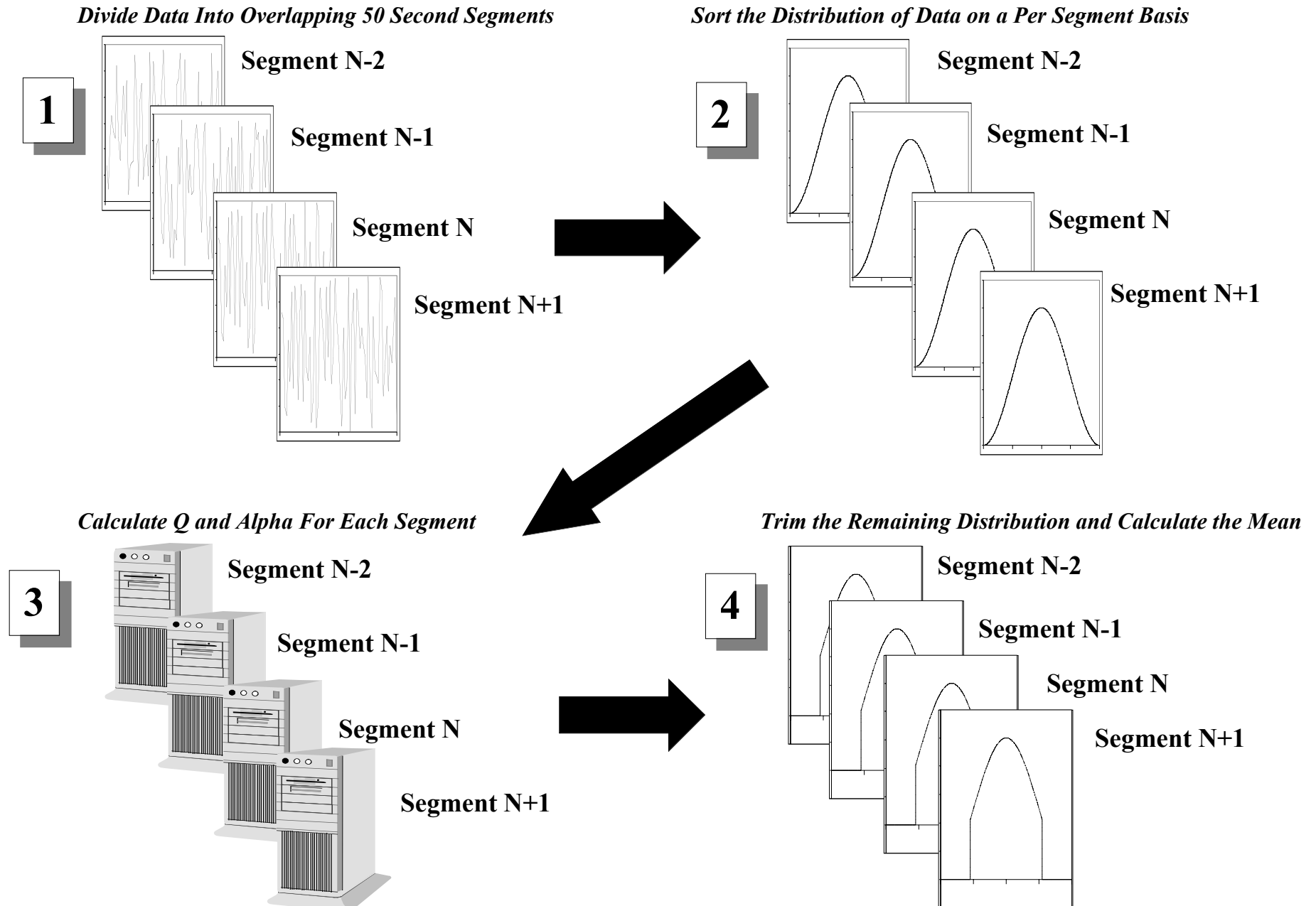
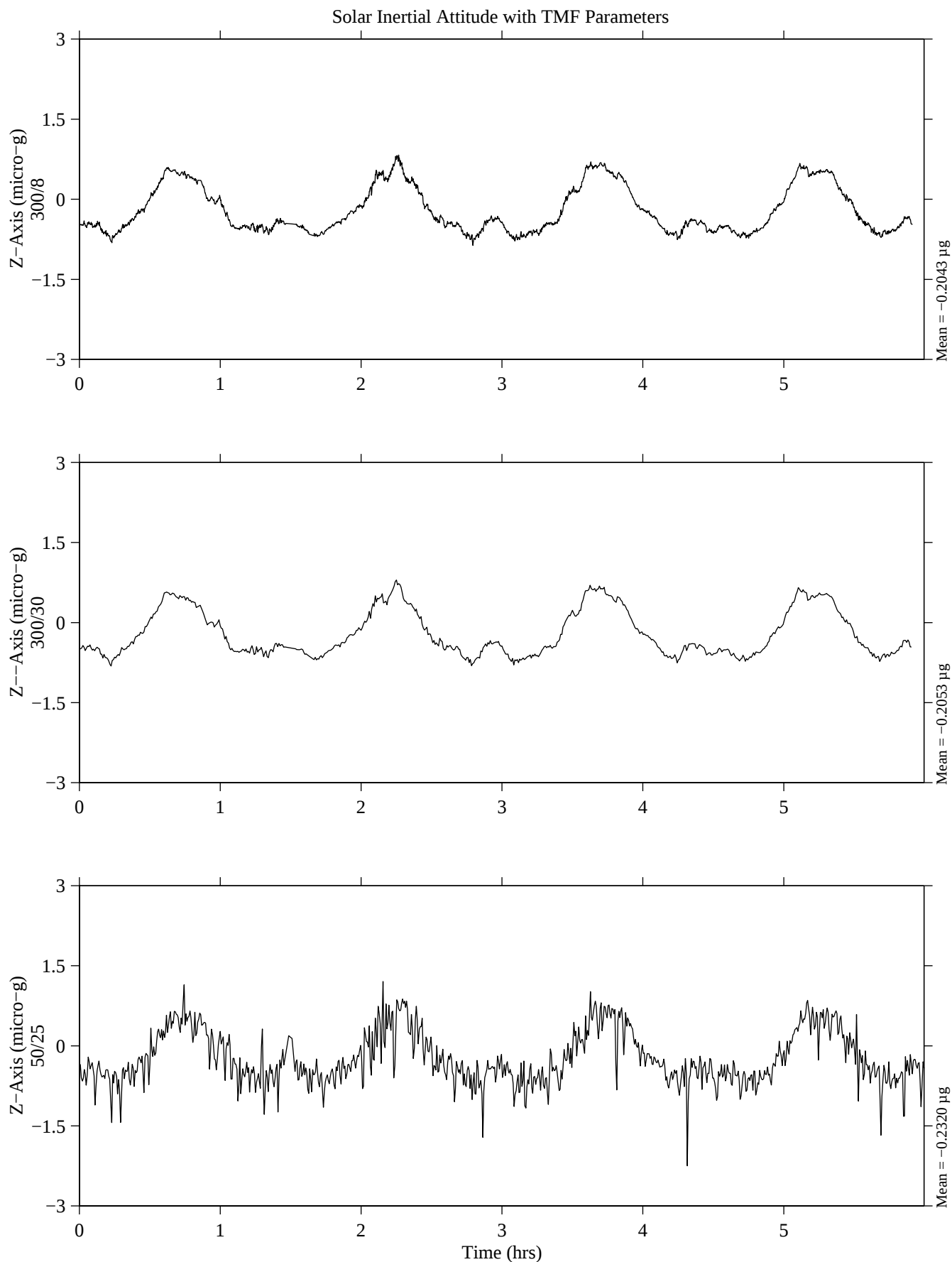
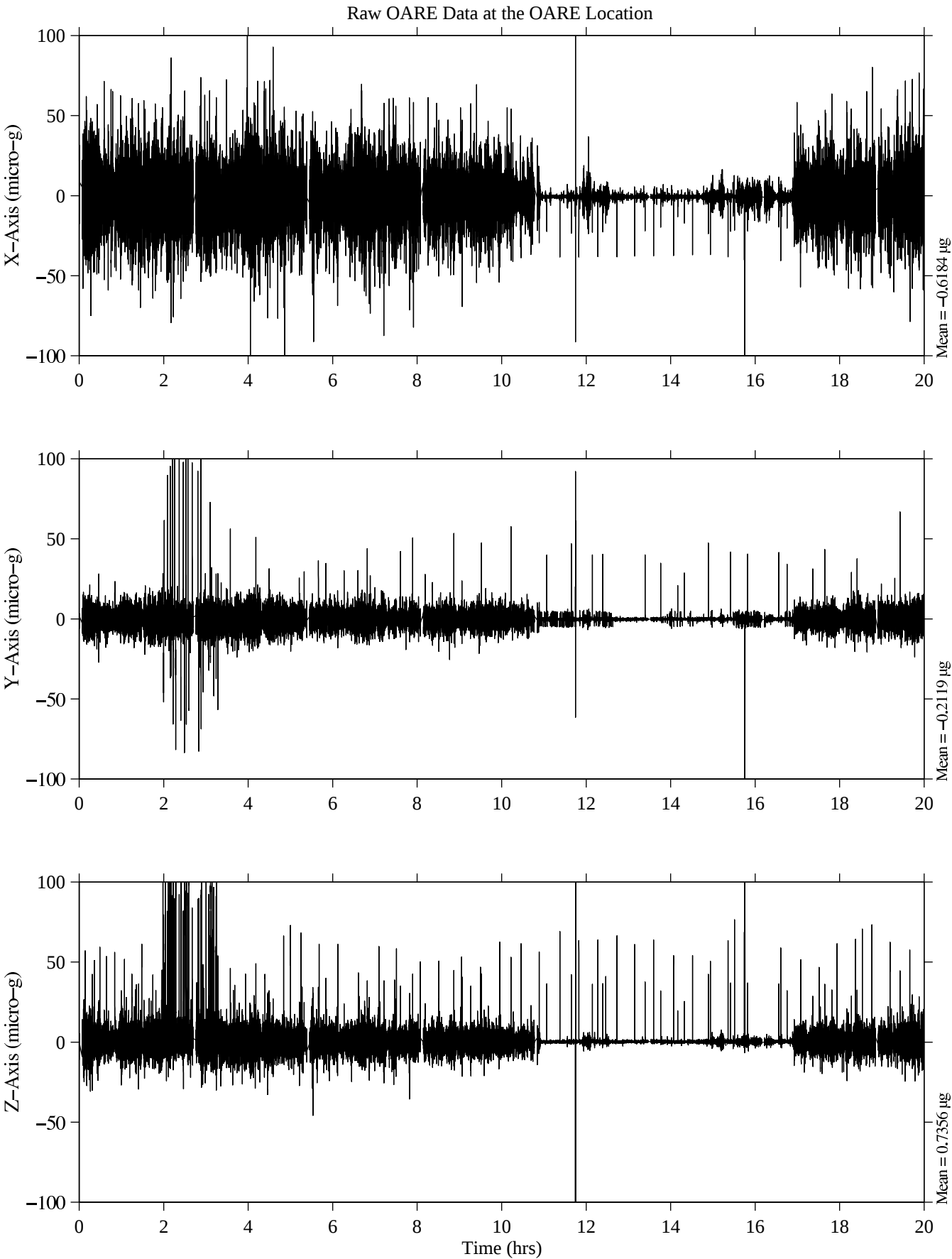


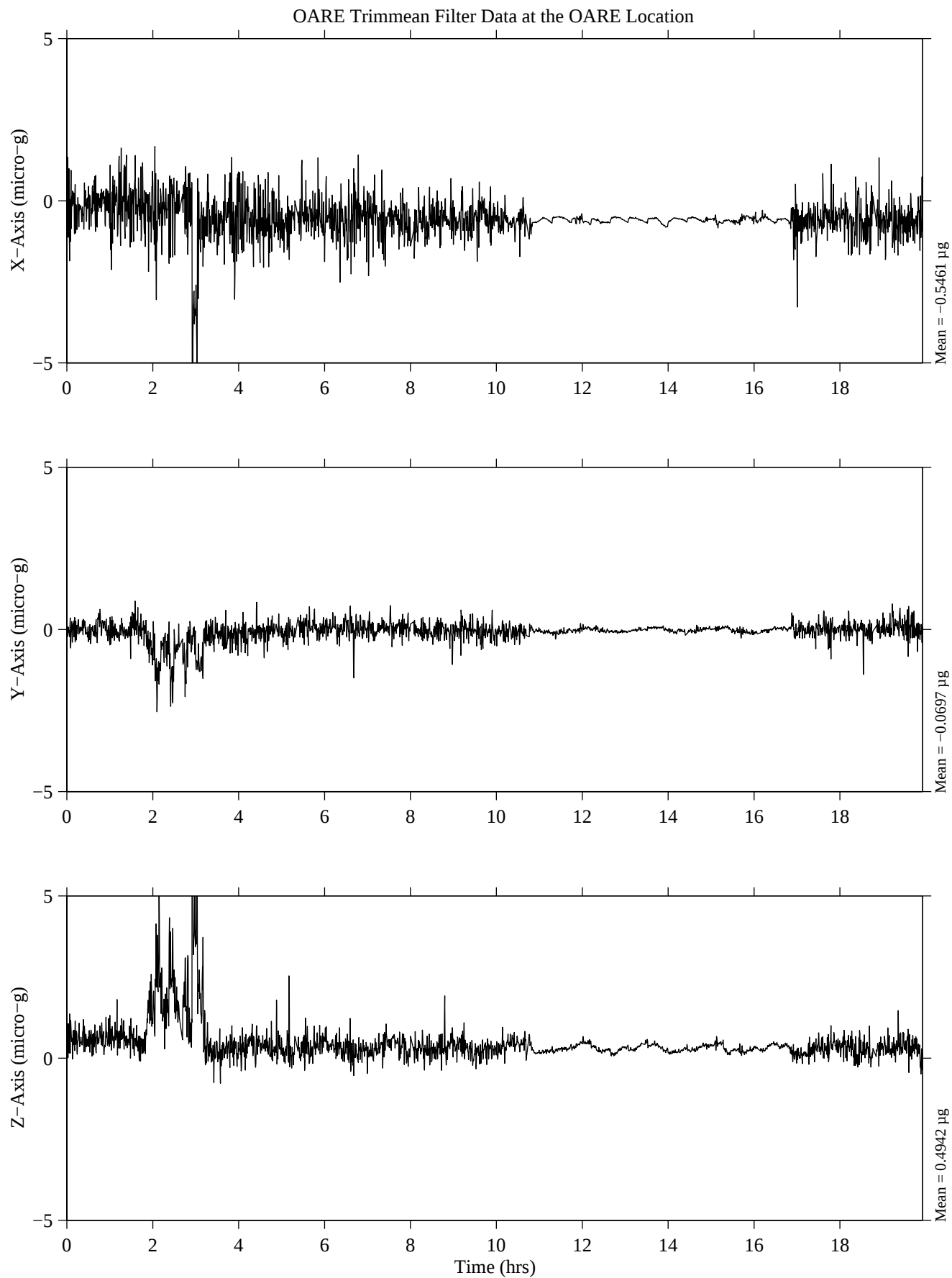
TMF Process



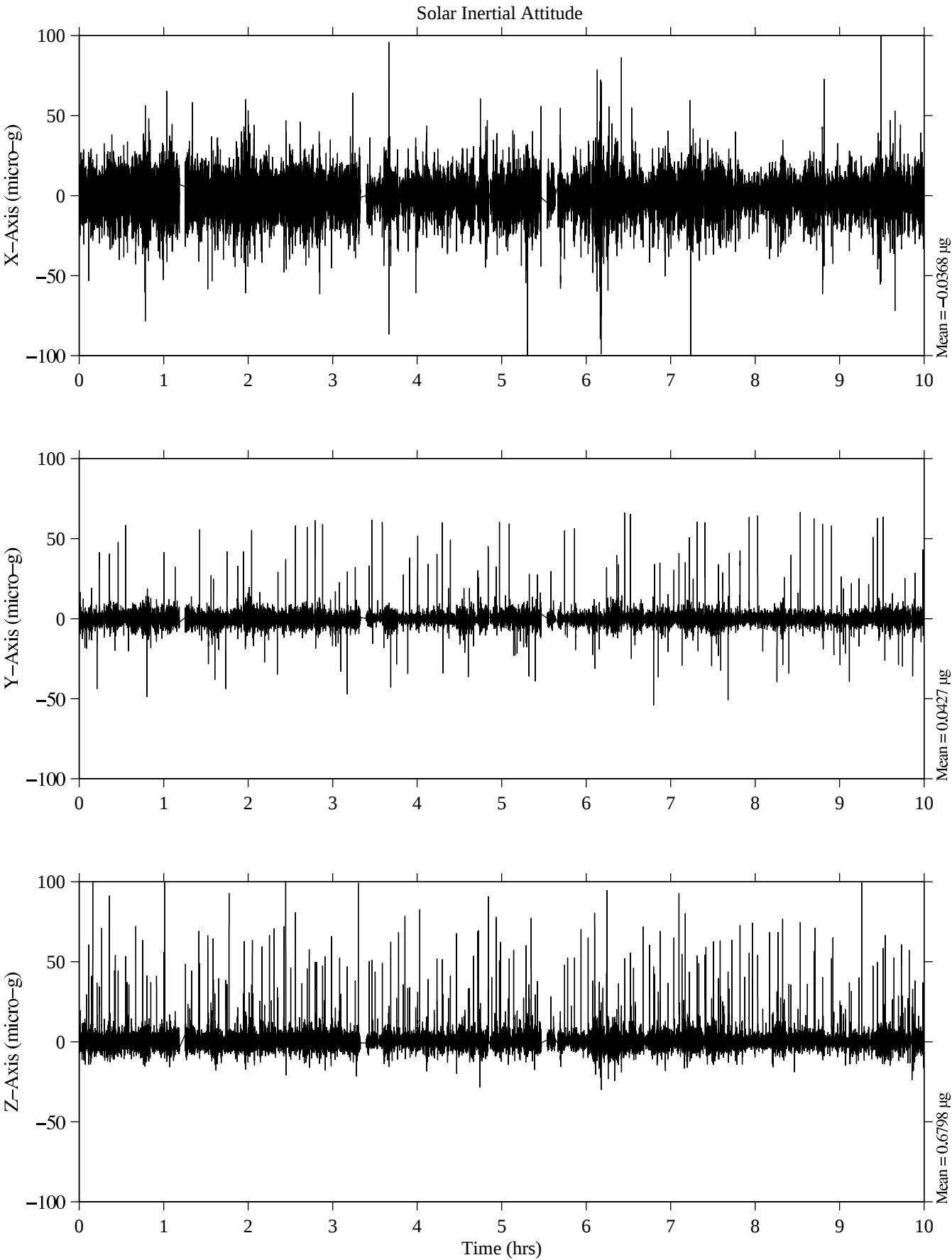


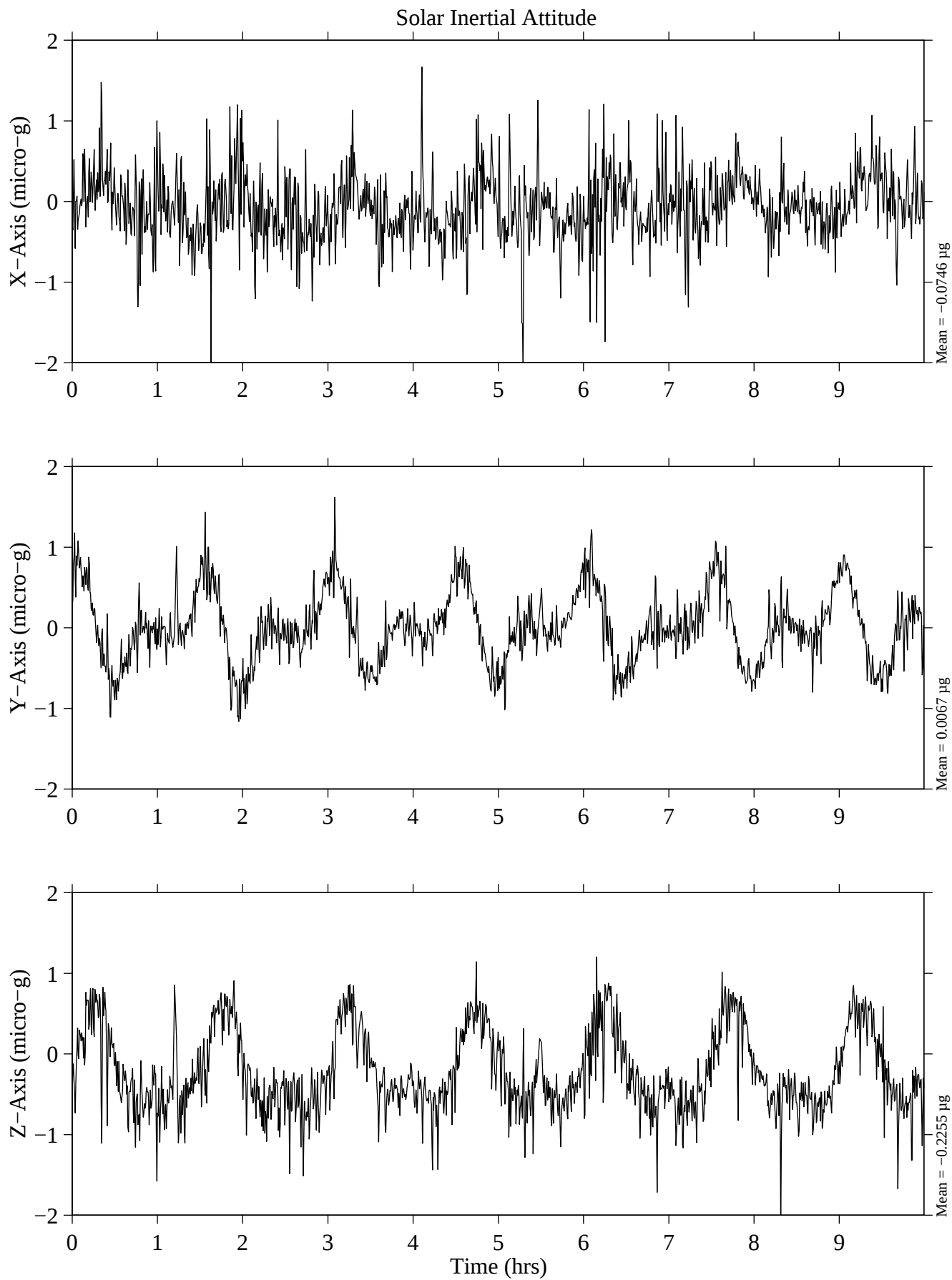
MEIT 1999 Figure 6-2: OARE TMF Data Showing TMF Parameter Comparison from STS-73 (USML-2)

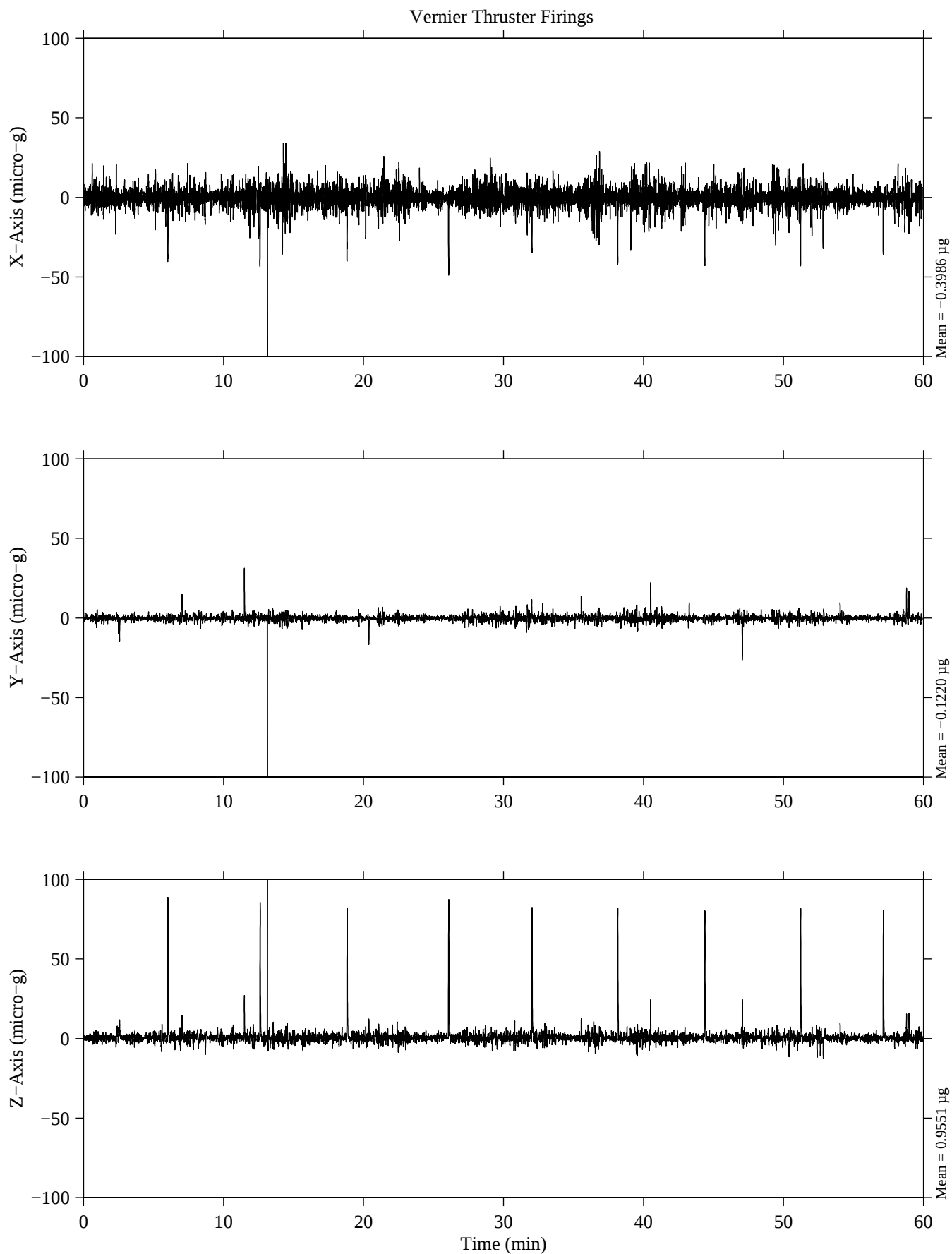




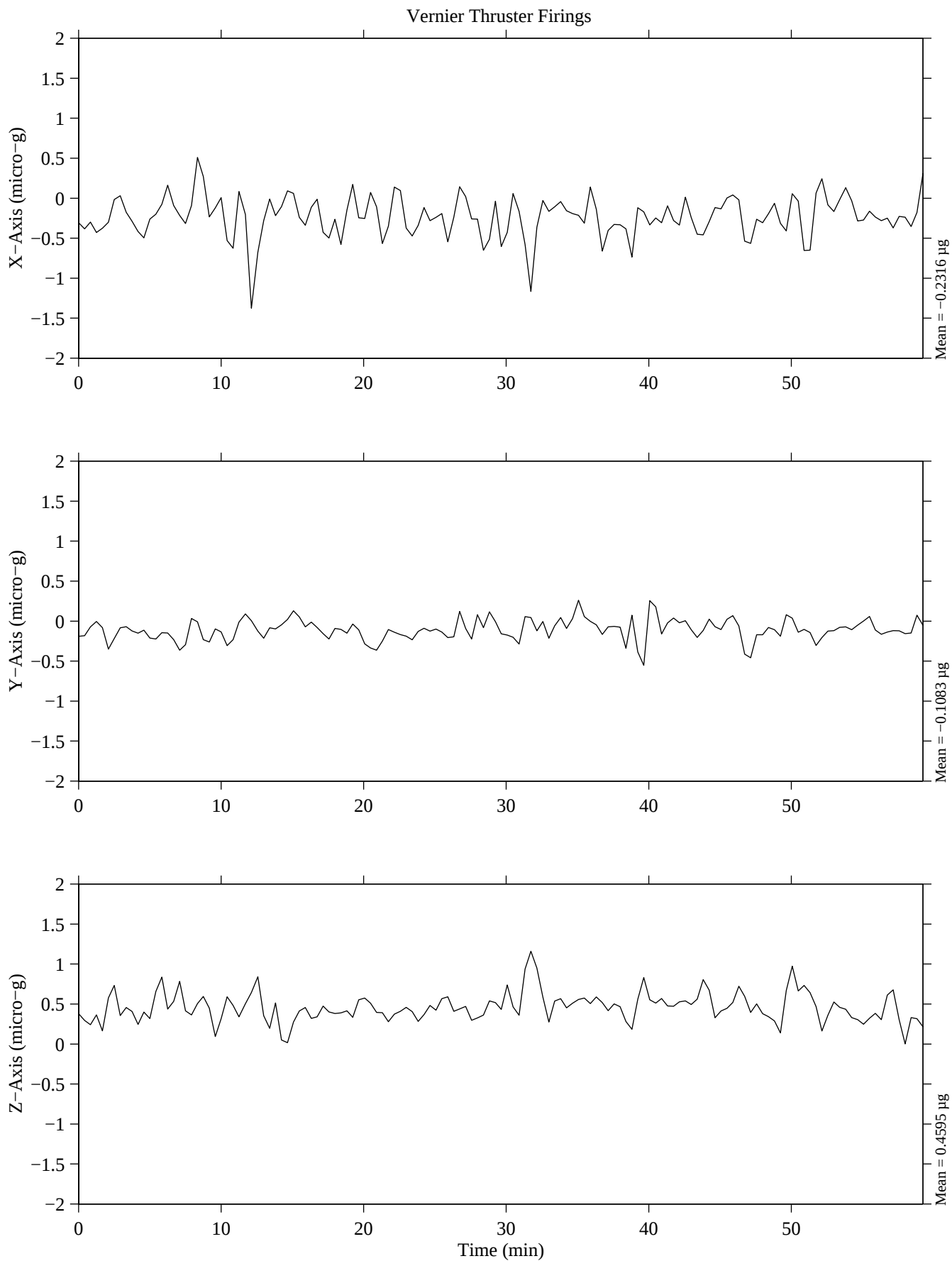
MEIT 1999 Figure 6-4: OARE TMF Data During Water Dump and Attitude Change from STS-78 (LMS)



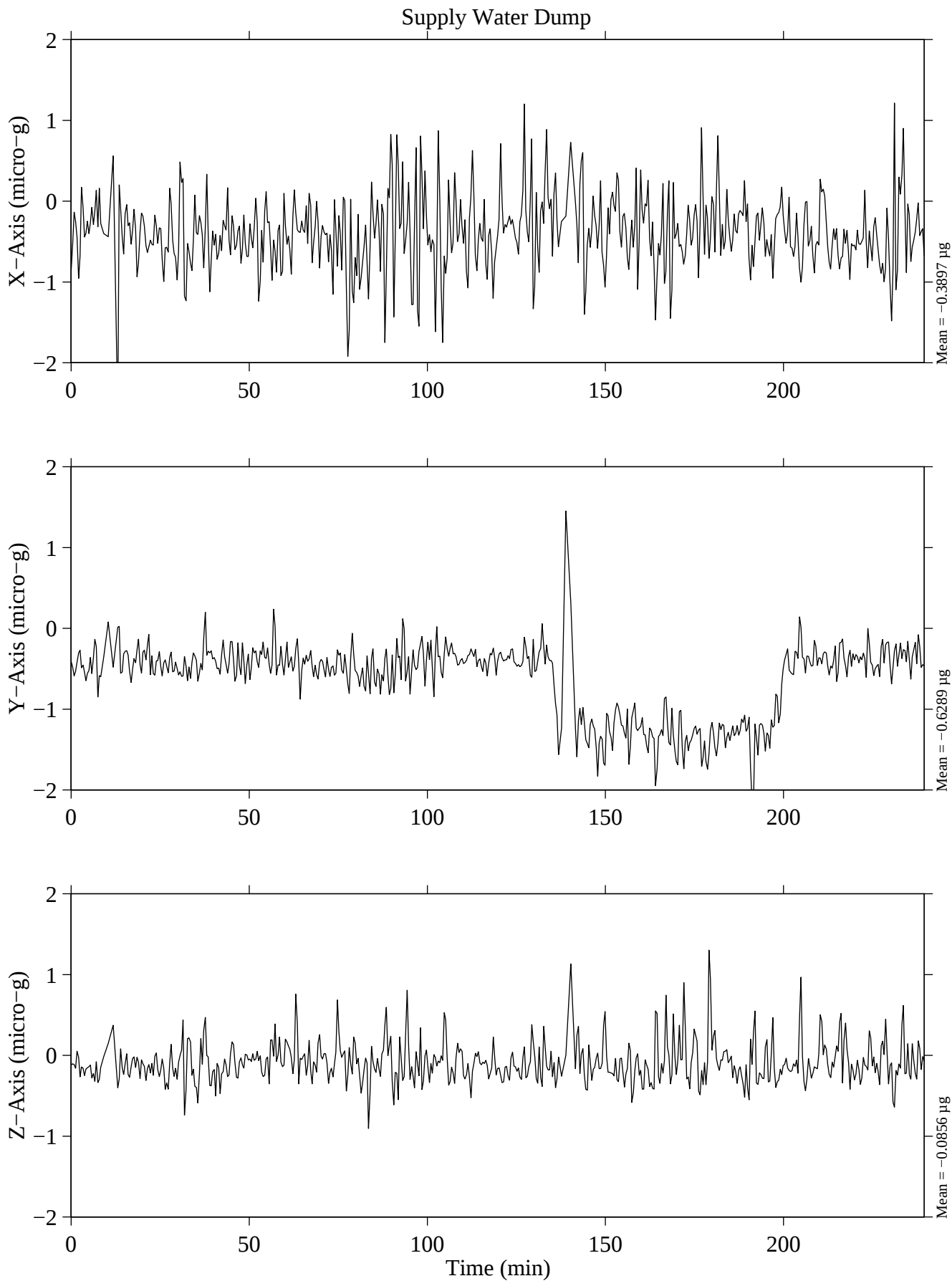




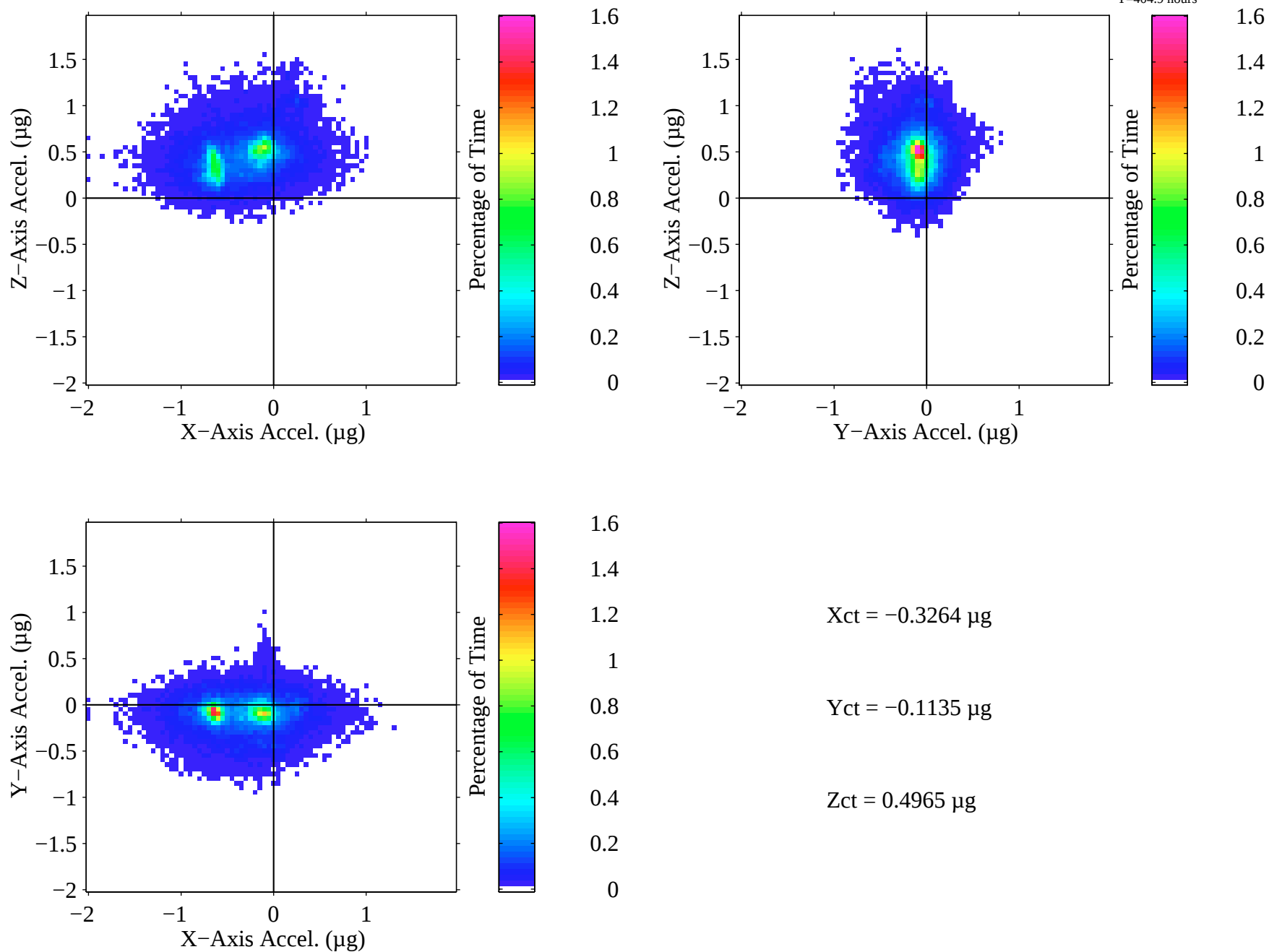
MEIT 1999 Figure 6-7: Raw OARE Data Showing Vernier Thruster Firings from STS-75 (USMP-3)



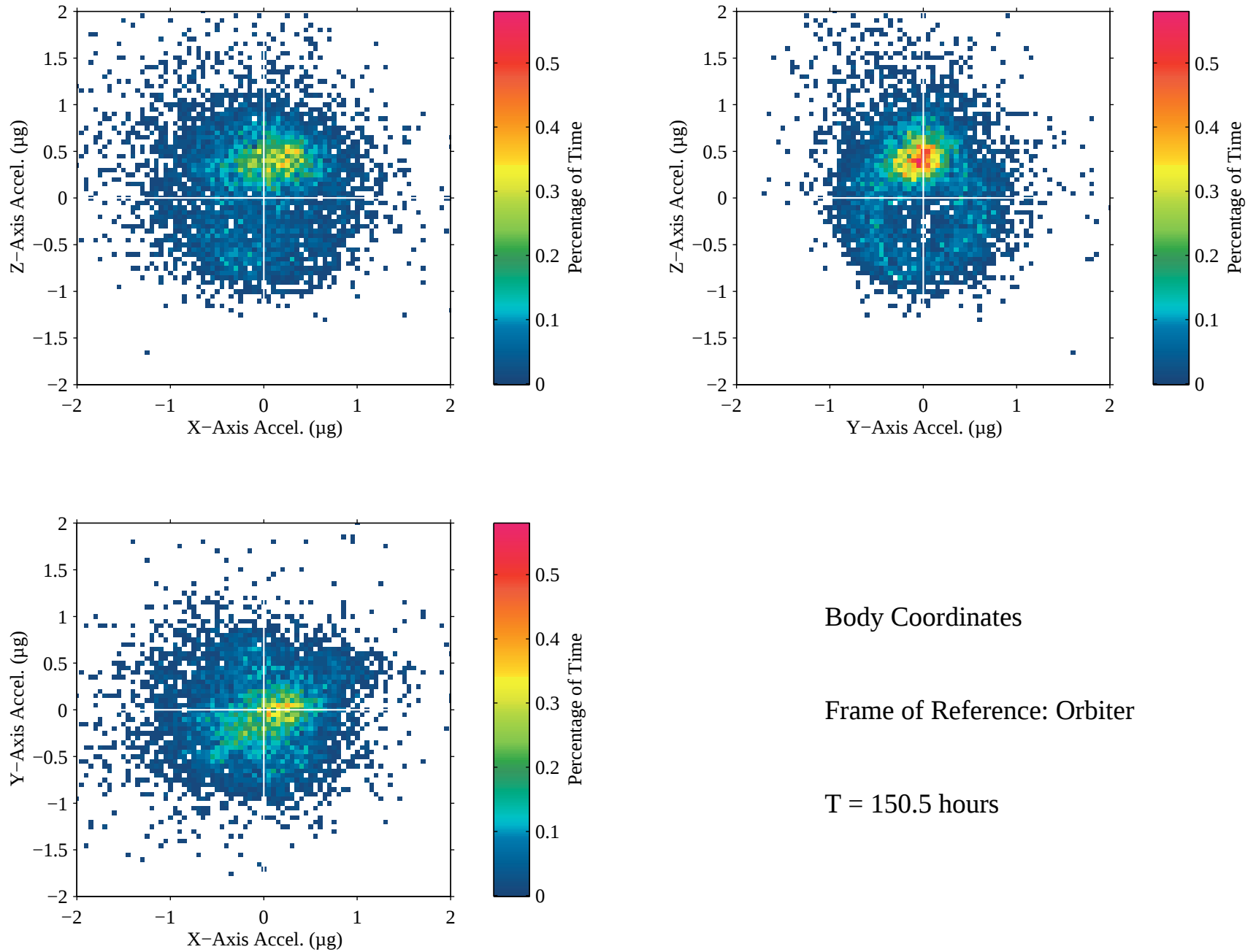
MEIT 1999 Figure 6-8: OARE TMF Data Showing Vernier Thruster Firings from STS-75 (USMP-3)



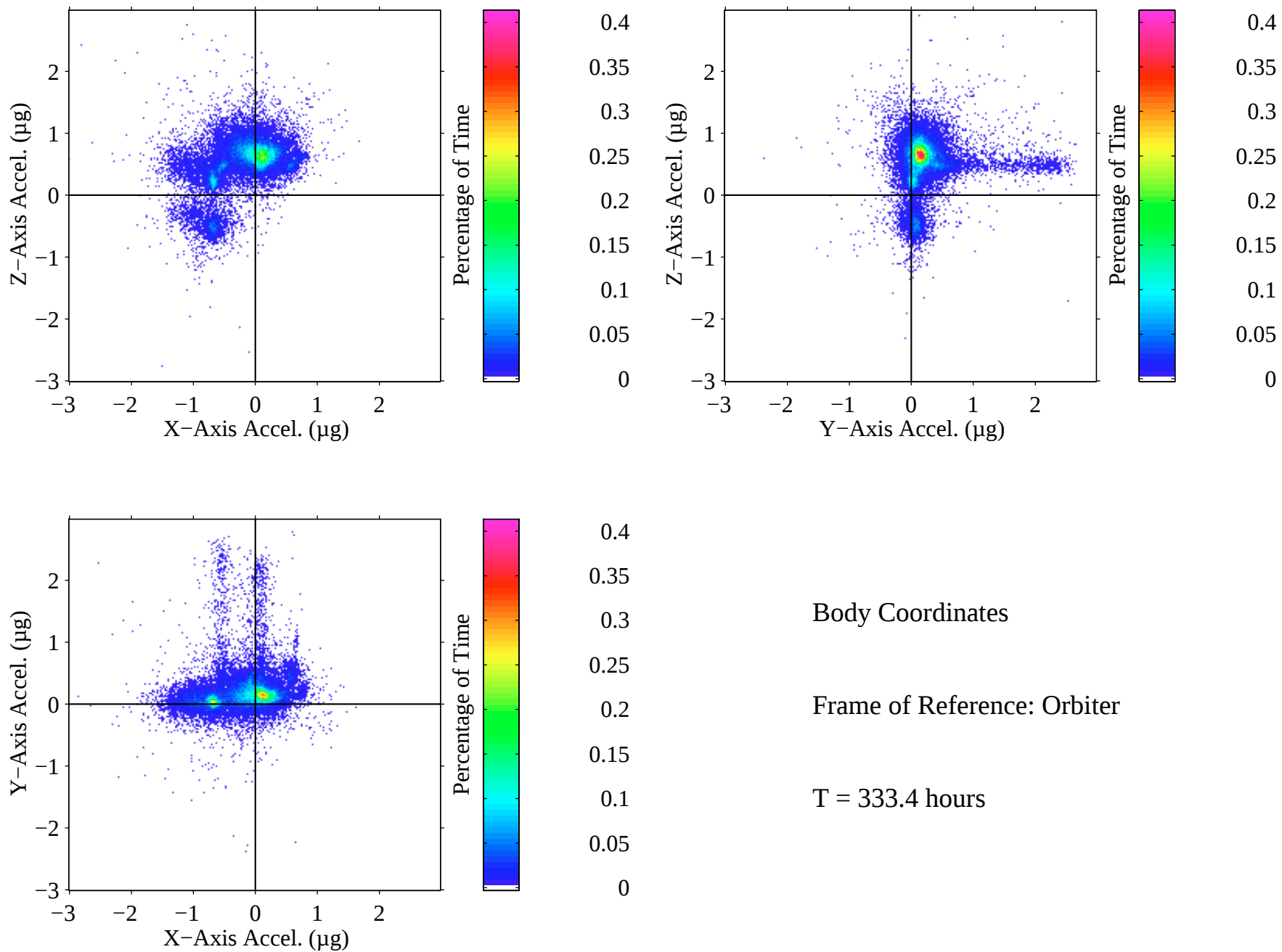
MEIT 1999 Figure 6-9: OARE TMF Data Showing Water Dump from STS-73 (USML-2)



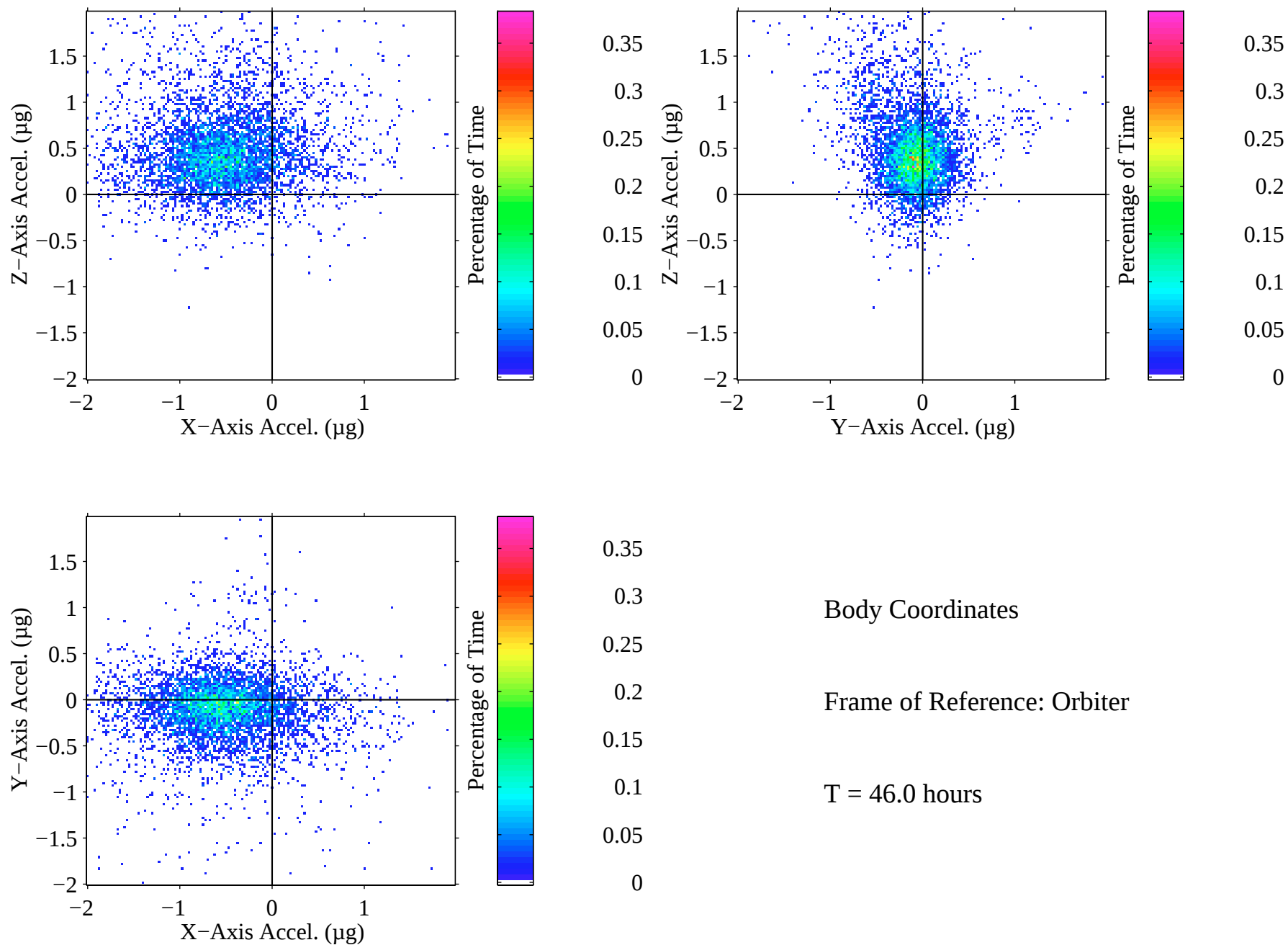
USML-2 (STS-73) Solar Inertial Attitude



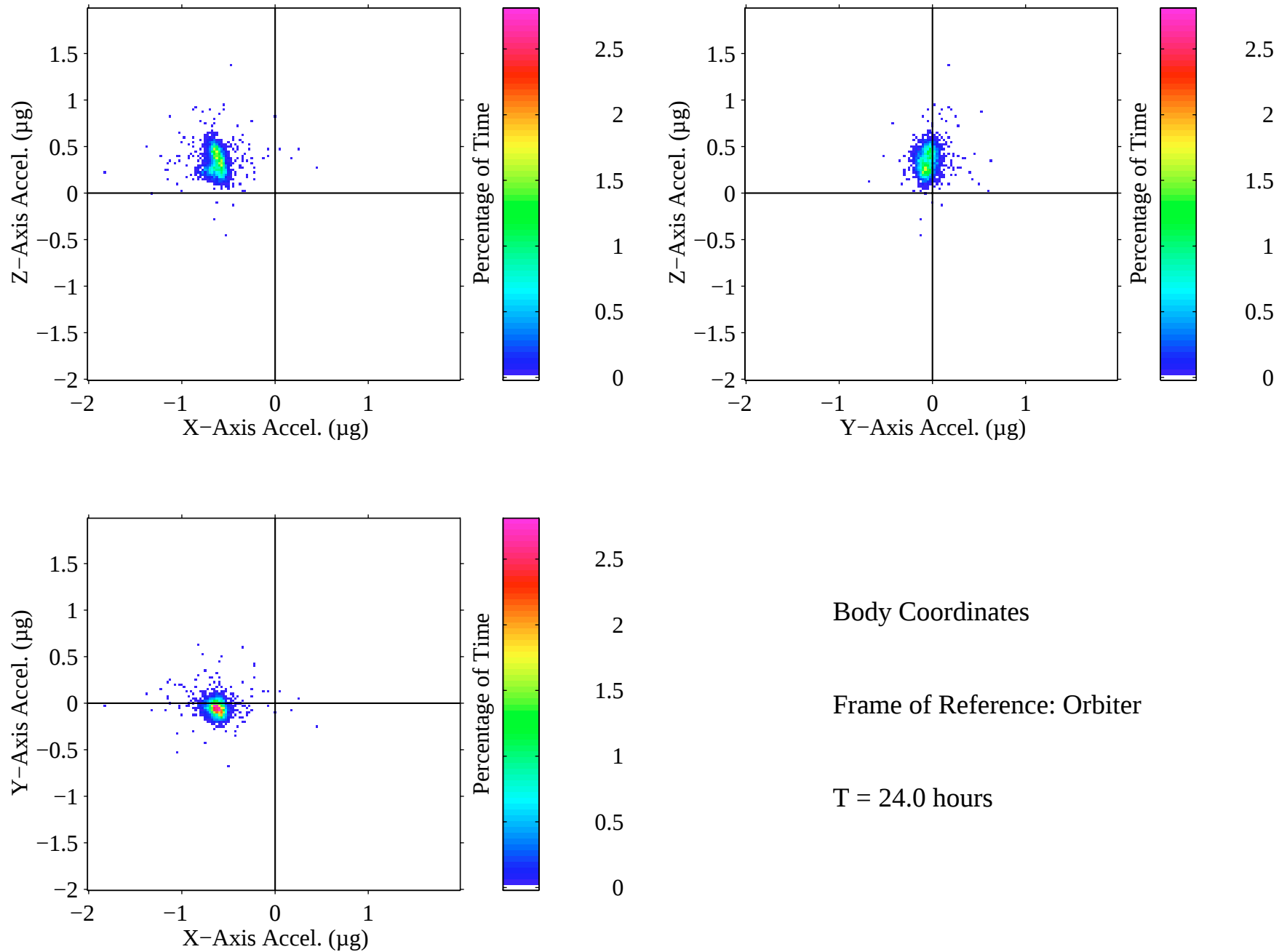
MET Start at 000/00:12:16.920
USMP-2 (STS-62) Mission Plot

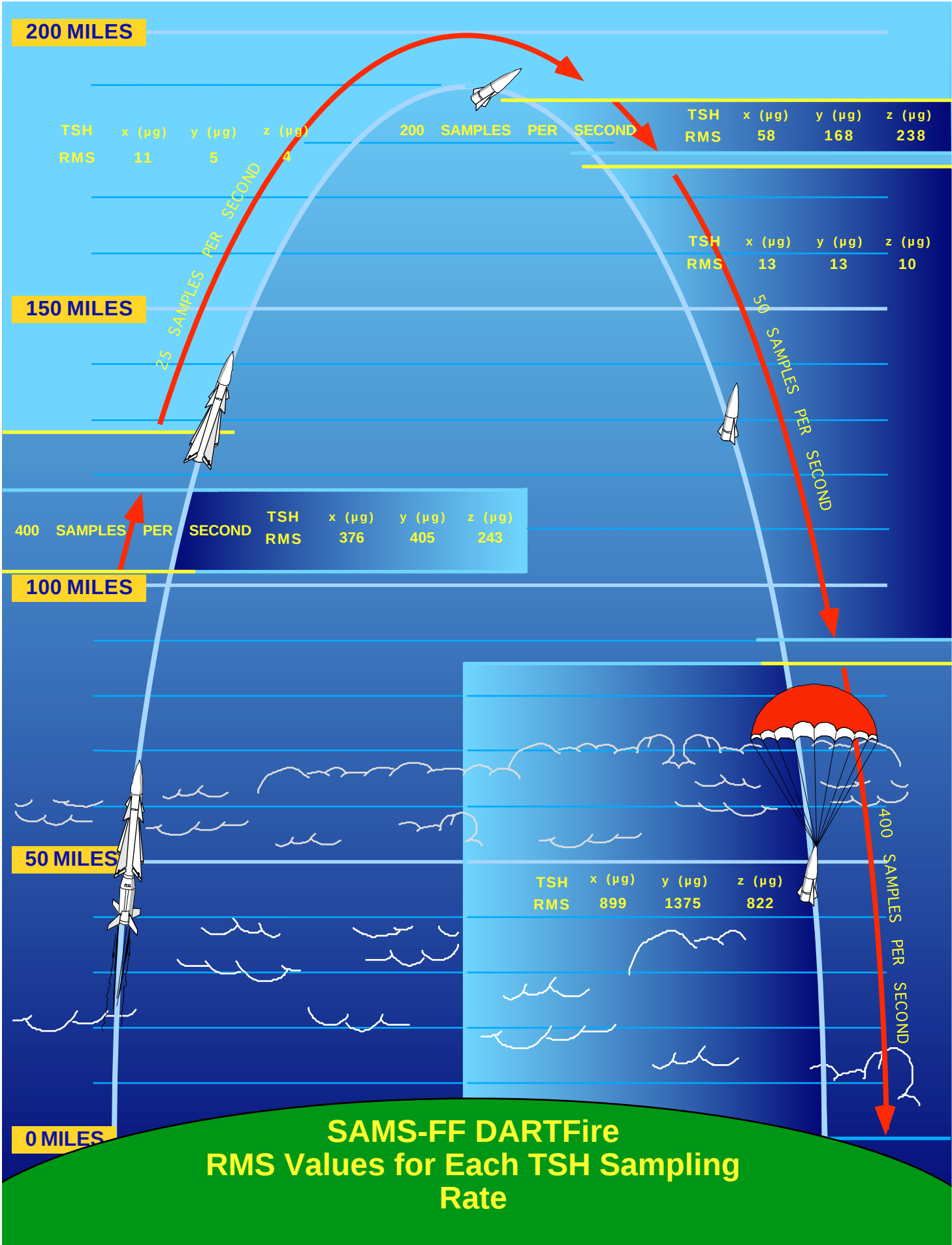


MET Start at 008/17:00:16.920
LMS Mission – Crew Active Periods



MET Start at 009/09:00:07.920
LMS Mission – Sleep Cycles

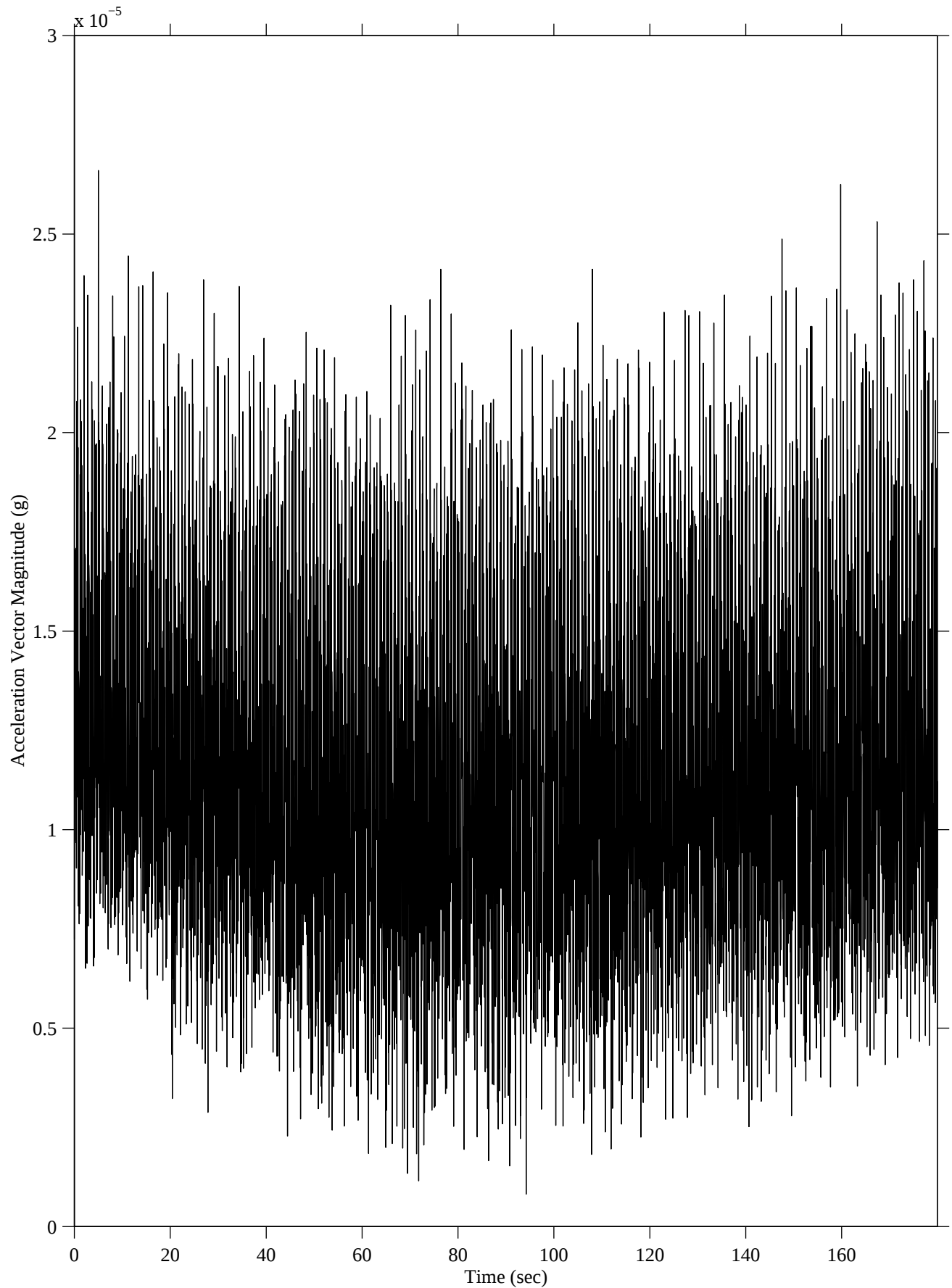




fs= 25 samples per second

Acceleration Vector Magnitude for Fs=25

SAMS-FF Coordinates



MET Start at 000/00:02:05.027, Hanning k=8

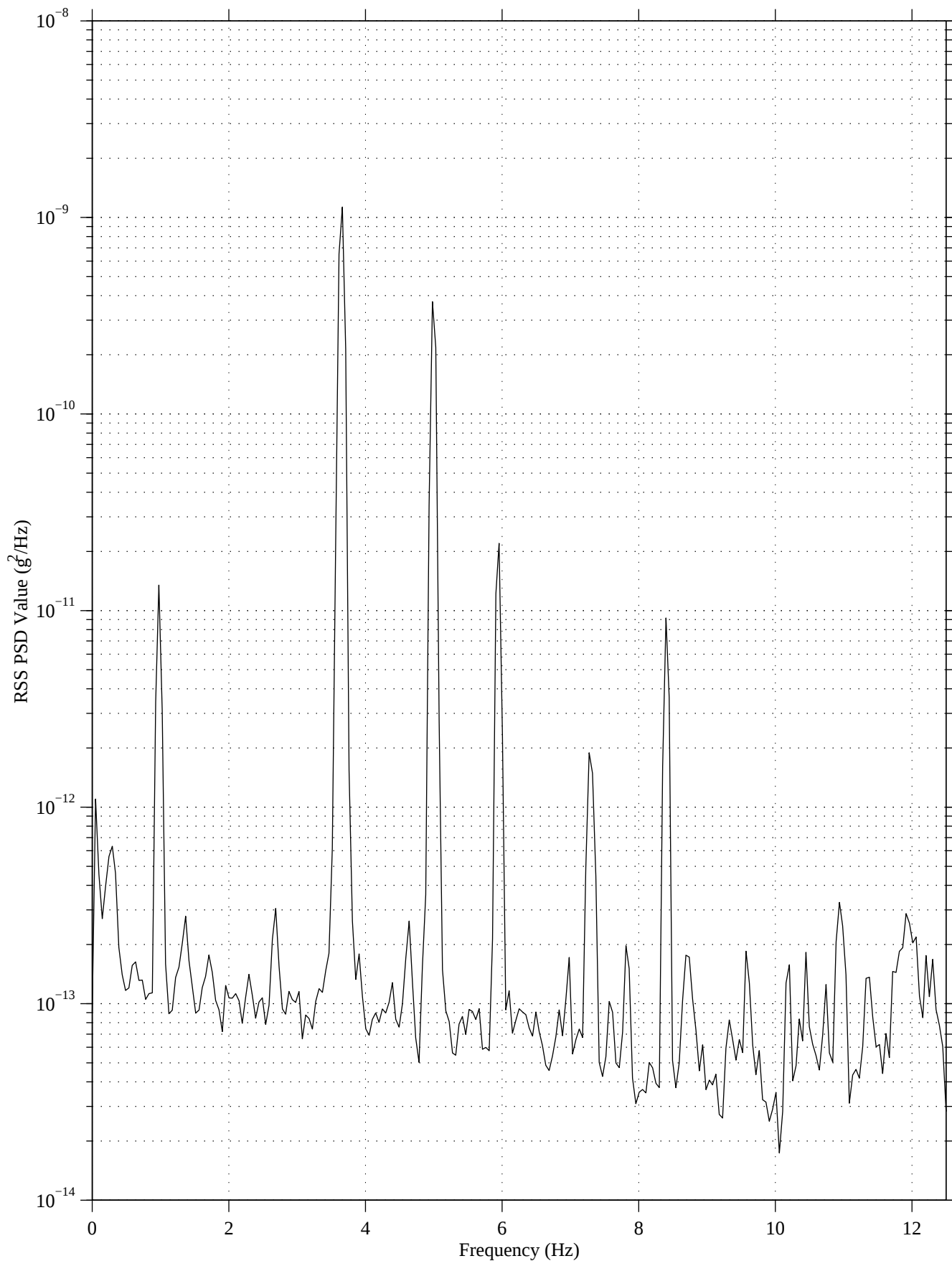
SAMS-FF Coordinates

fs= 25 samples per second

RSS Power Spectral Density for Fs=25

dF= 0.048828 Hz

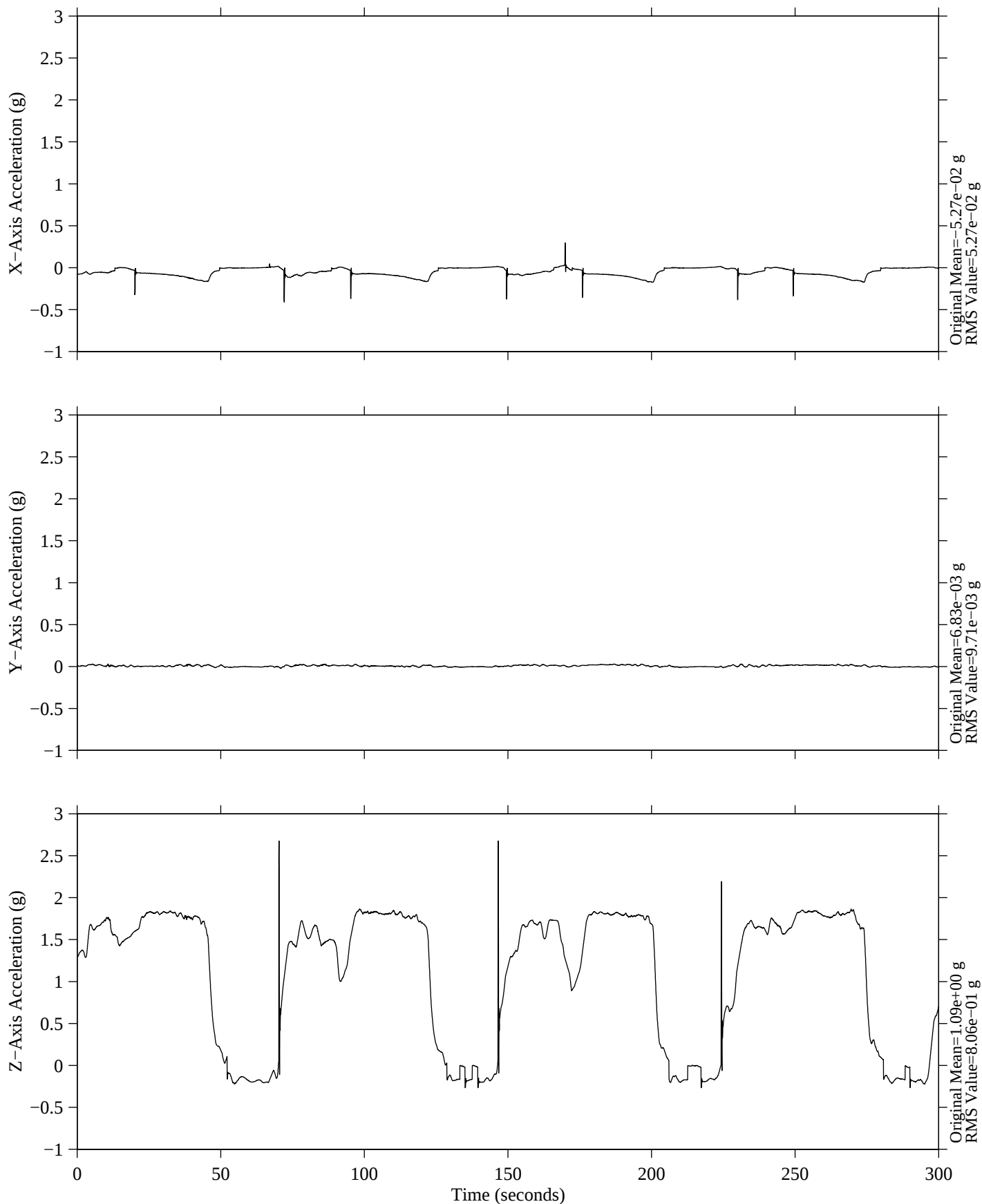
T= 179.988 sec

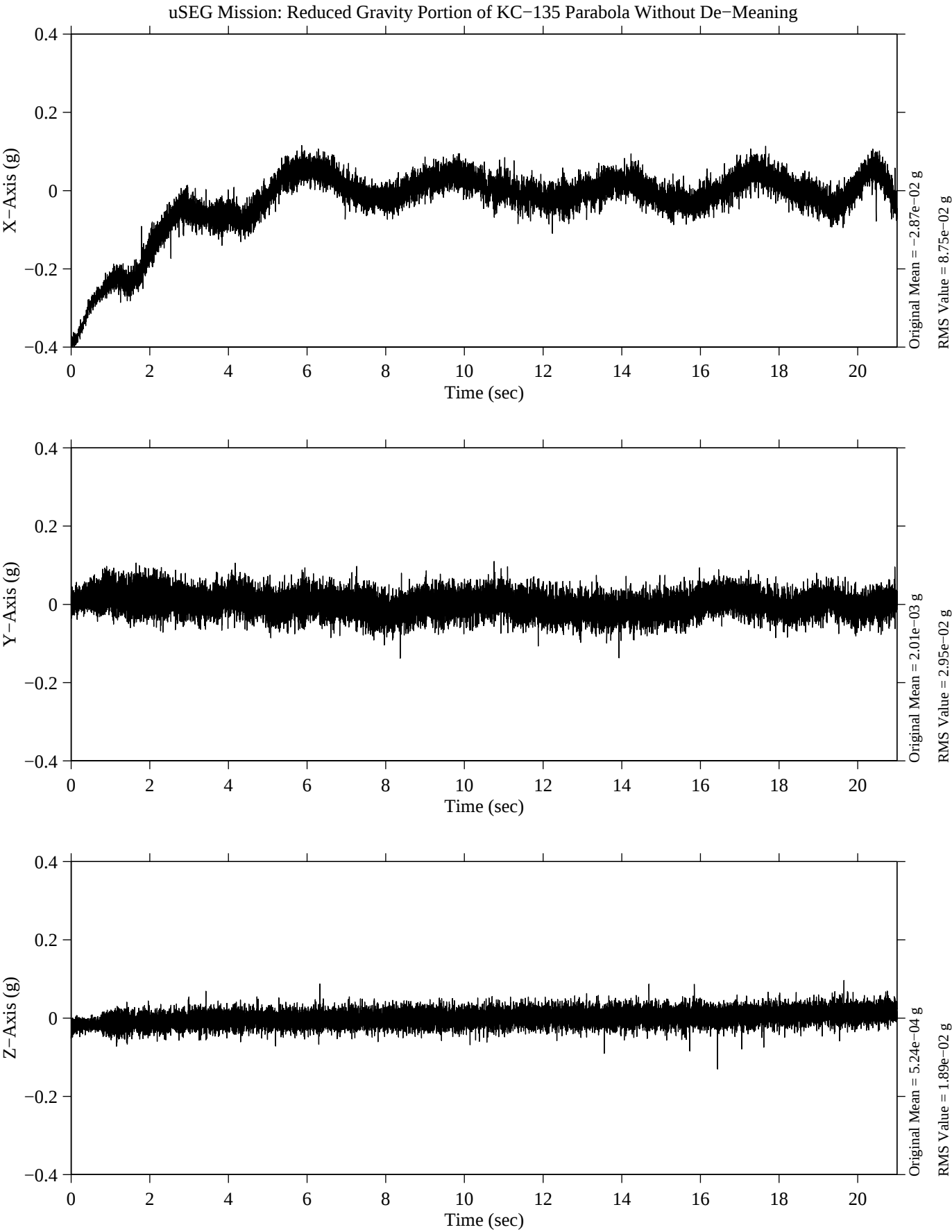


Head C, 5.0 Hz
fs=25.0 samples per second

Multiple KC-135 Parabolas Without De-Meaning MET Start at 055/15:09:59.992

KC-135
KC-135 Coordinates
T=300.0 seconds





Acceleration History Data Set #31

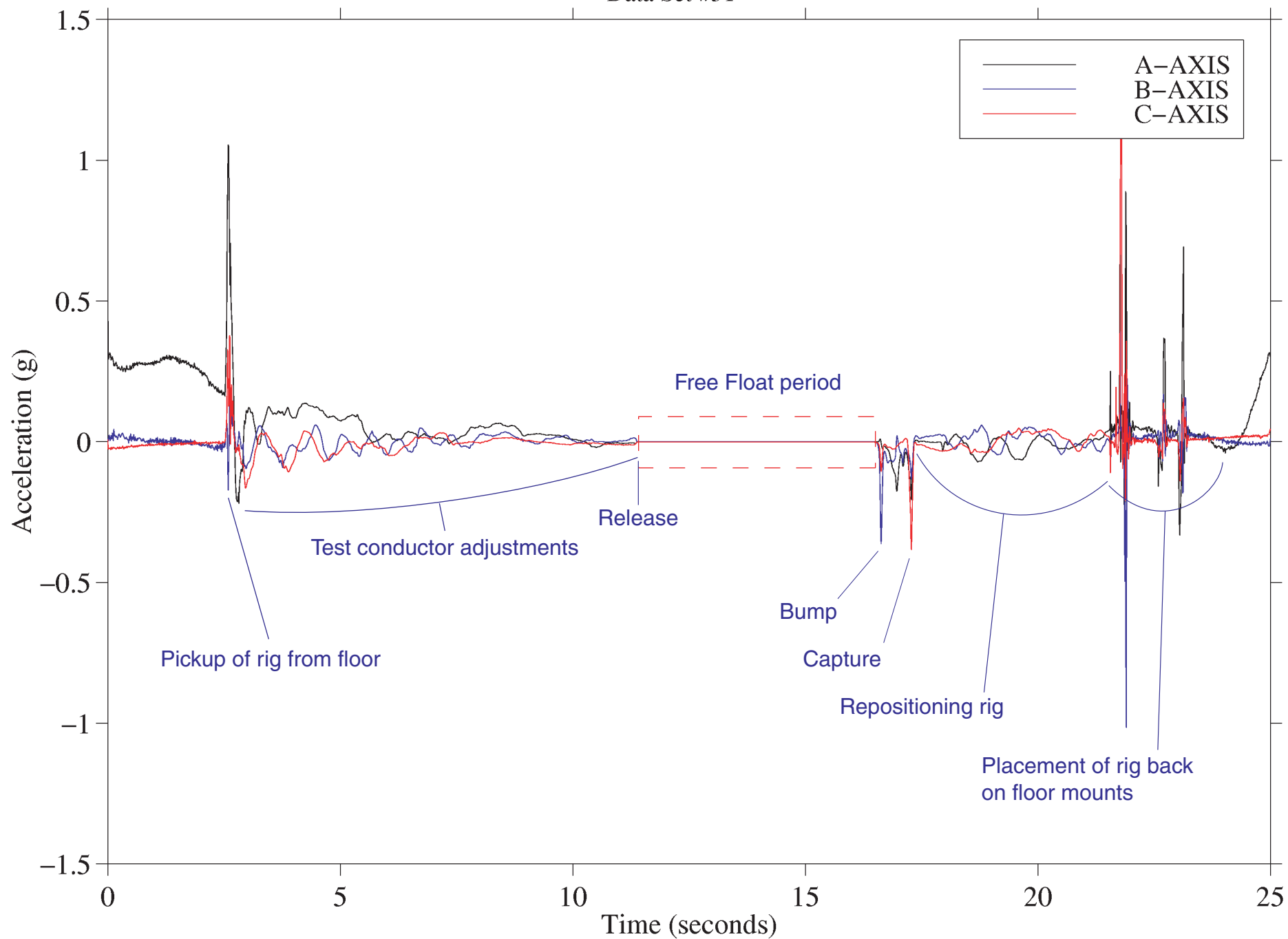


Figure 8-6: SAMS-FF Data Recorded in Support of SAL Experiment Showing Free-Float Interval

Enhancement of Free Float Interval for Z-Axis Data Set #31

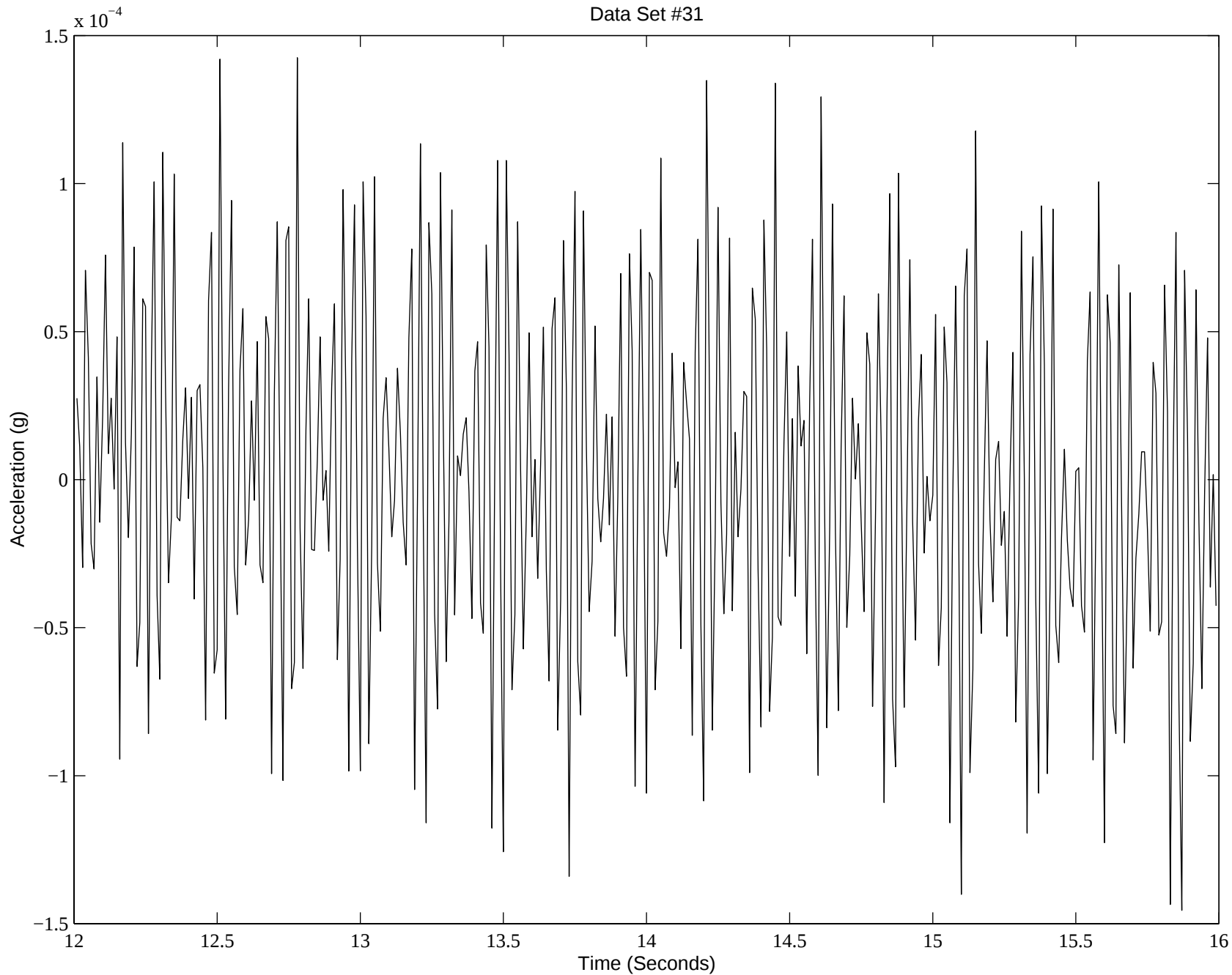


Figure 8-7: Enhancement of the Free Float Period for the Z-Axis

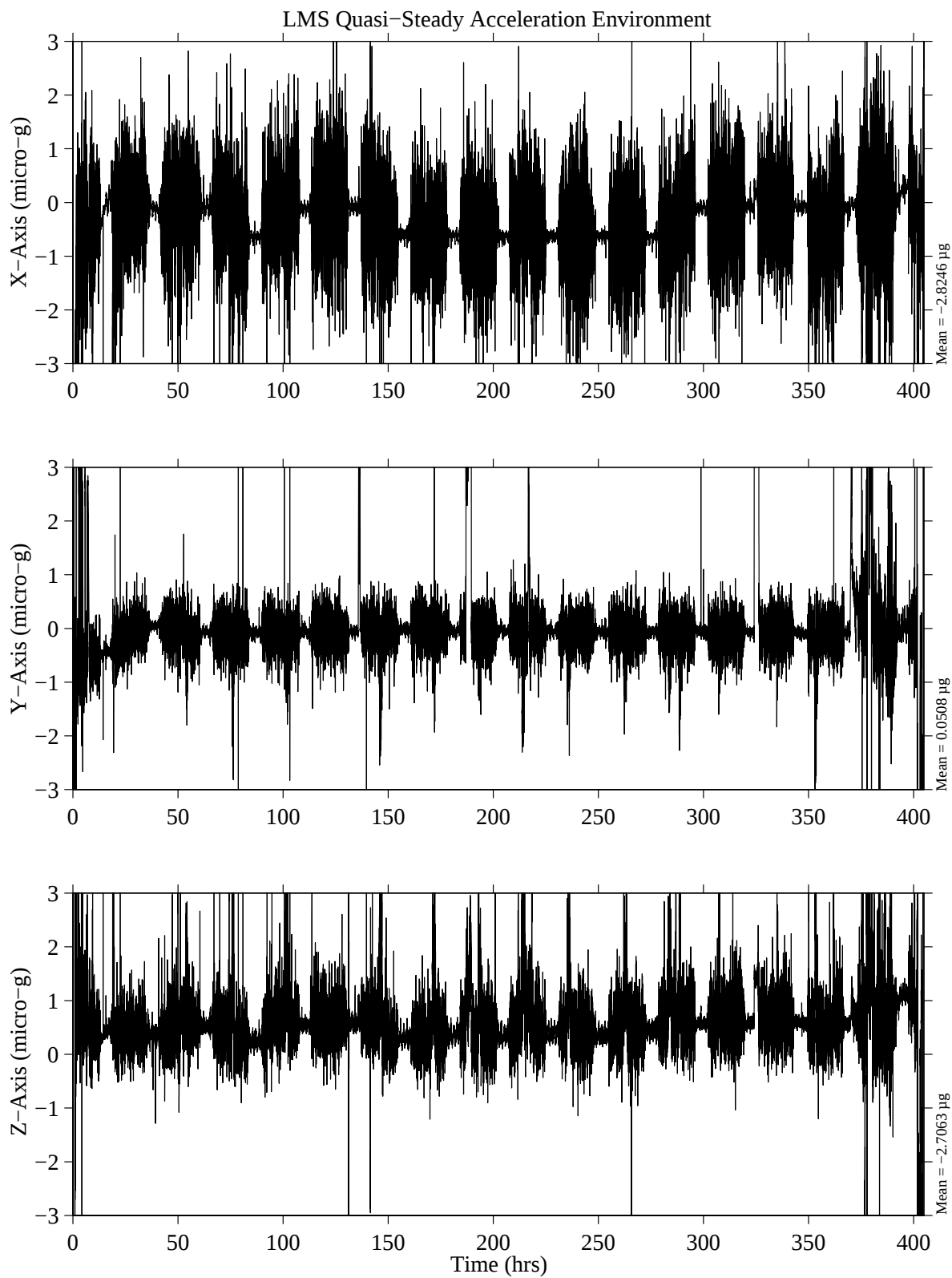


Figure 9-1

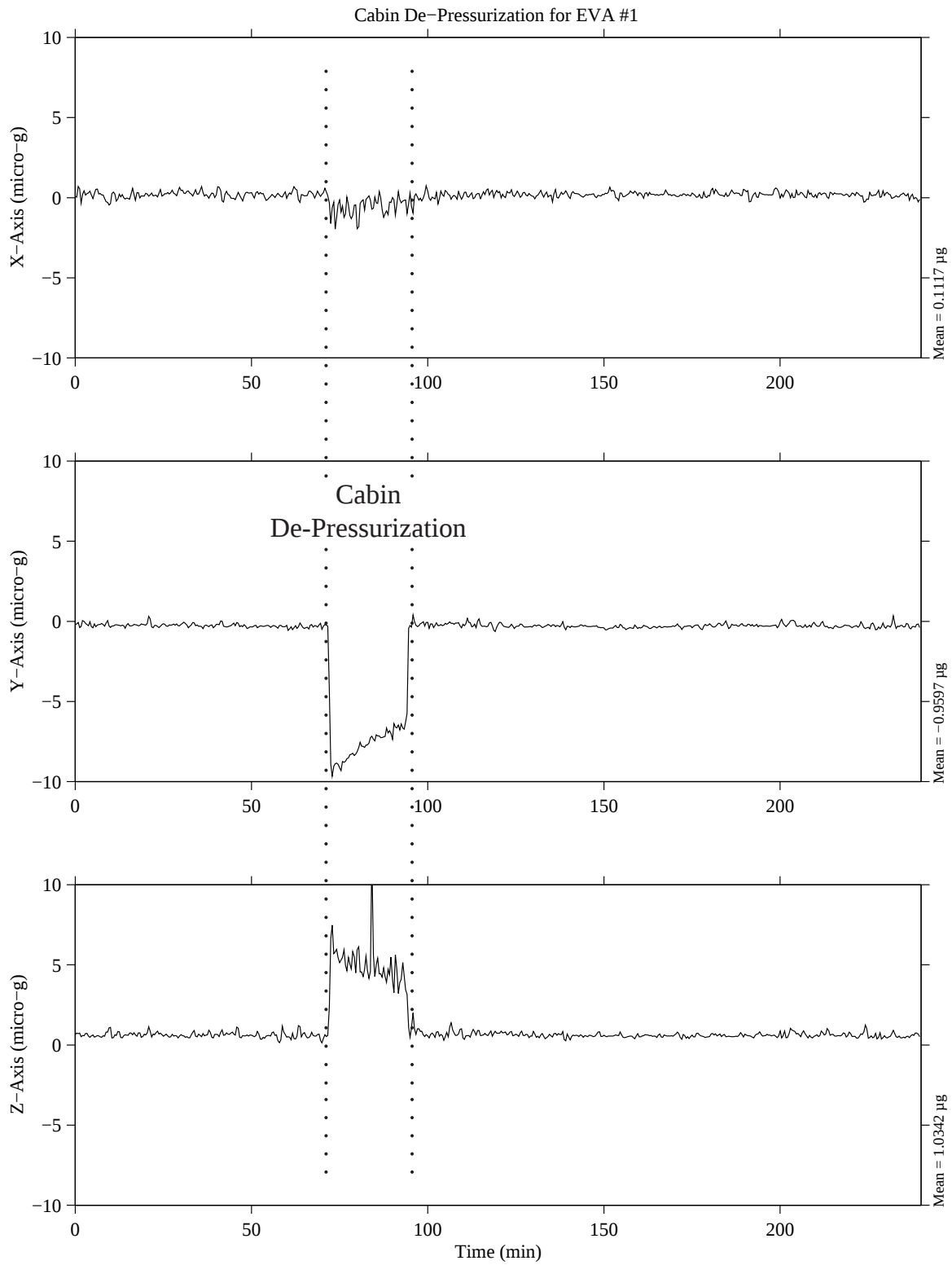


Figure 9-2

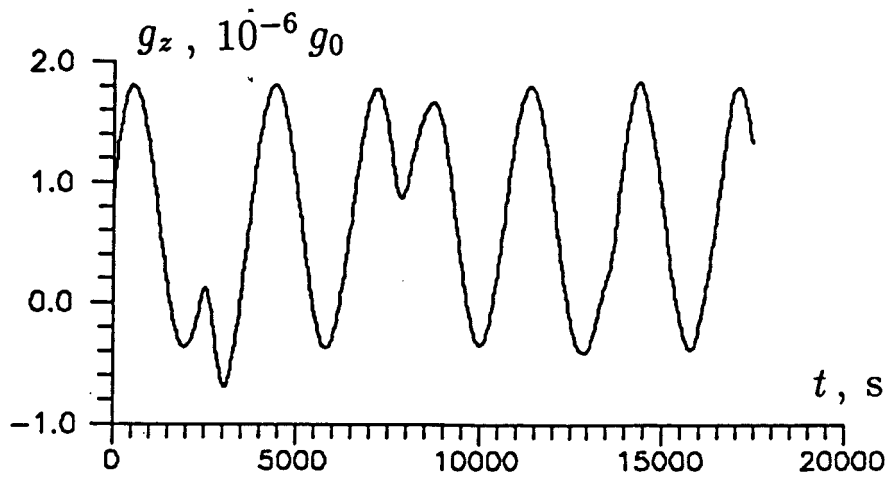
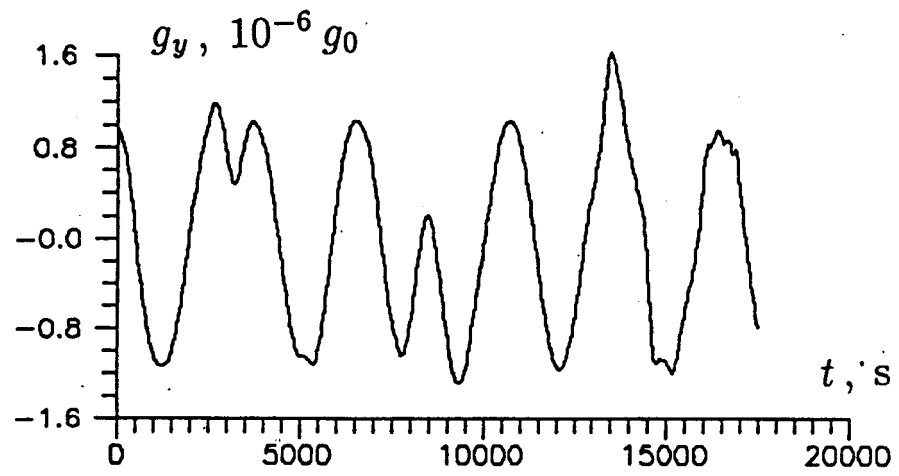
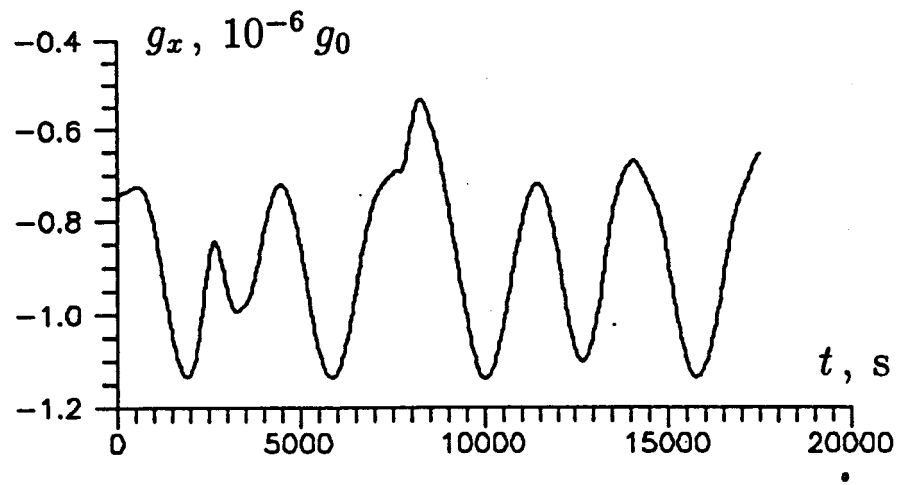


Figure 9-3

Head B, 25.0 Hz
fs=125.0 samples per second
dF=0.015 Hz
dT=65.5360 seconds

USMP-3F
Structural Coordinates

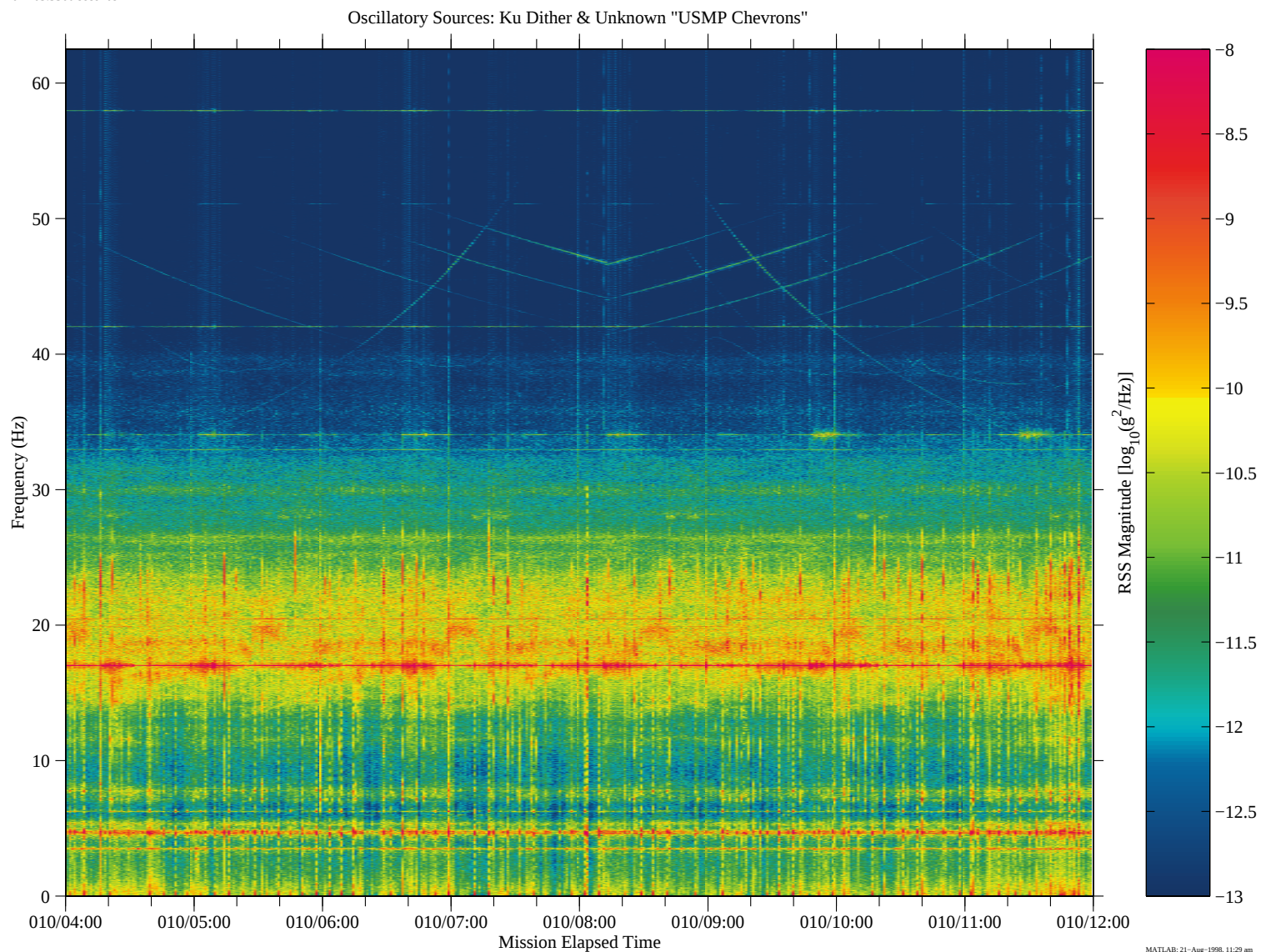


Figure 9-4

Head A, 100.0 Hz
fs=500.0 samples per second
dF=0.061 Hz
dT=16.3840 seconds

MIR-1996
SAMS Coordinates

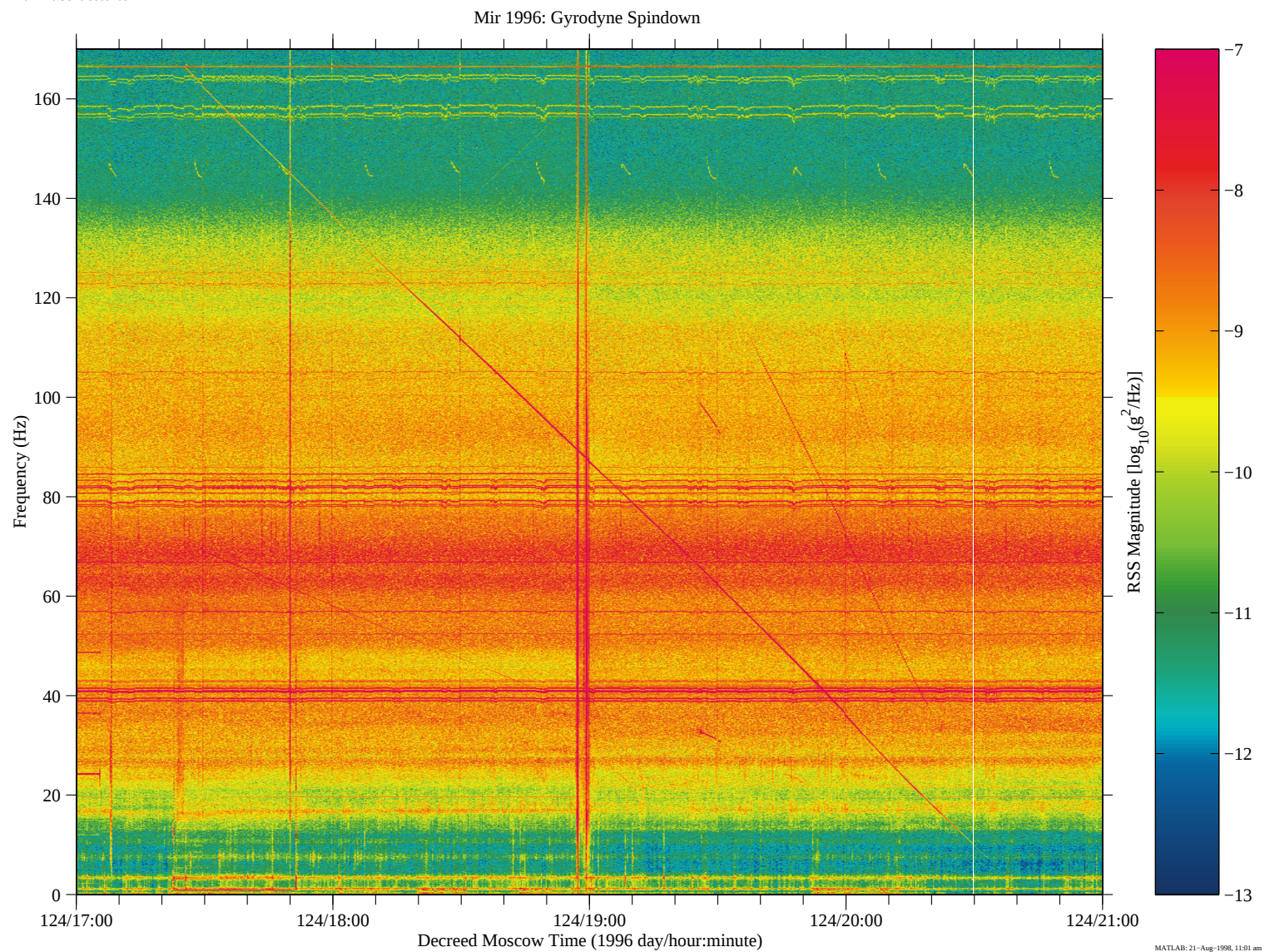


Figure 9-5

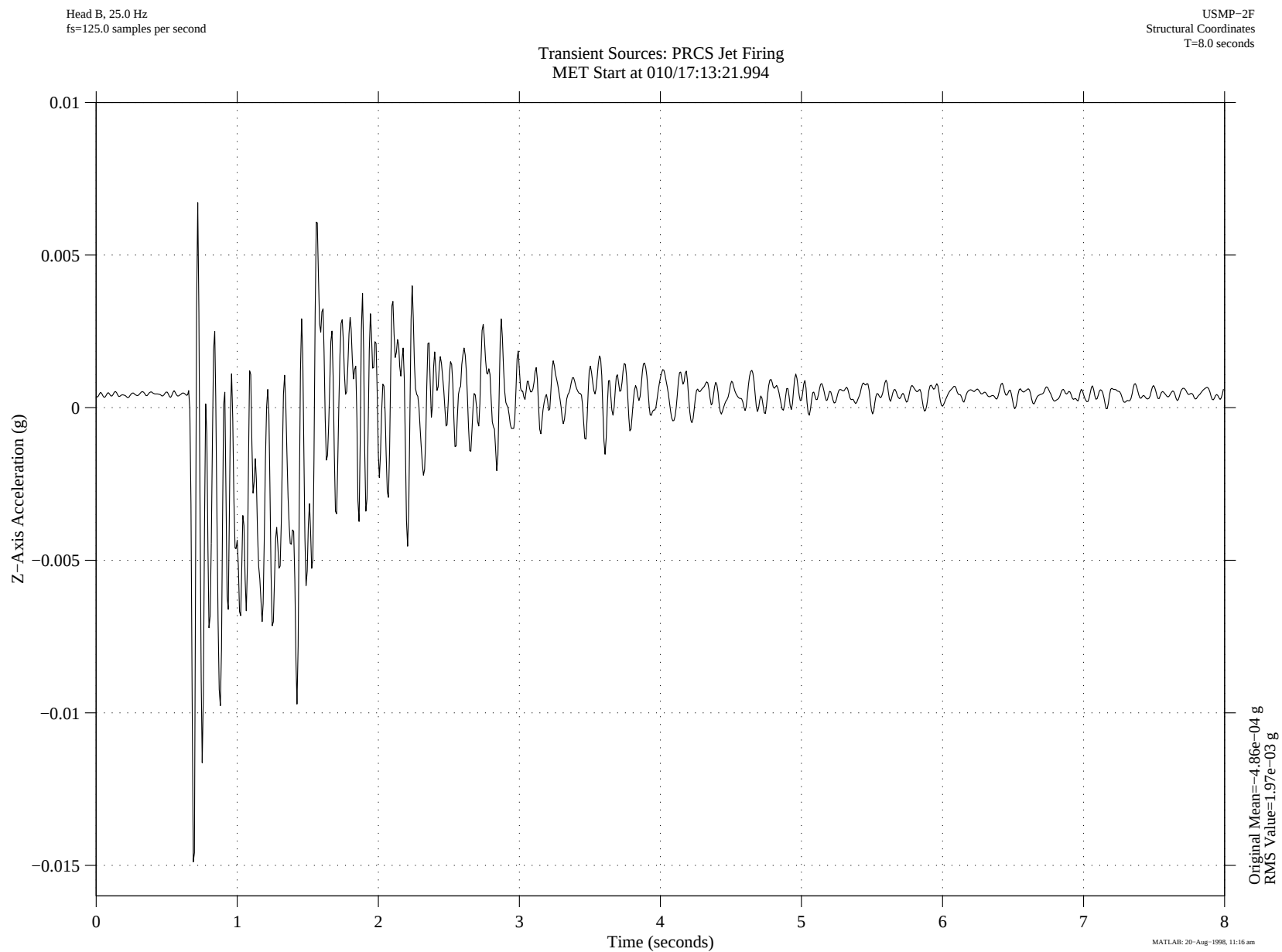
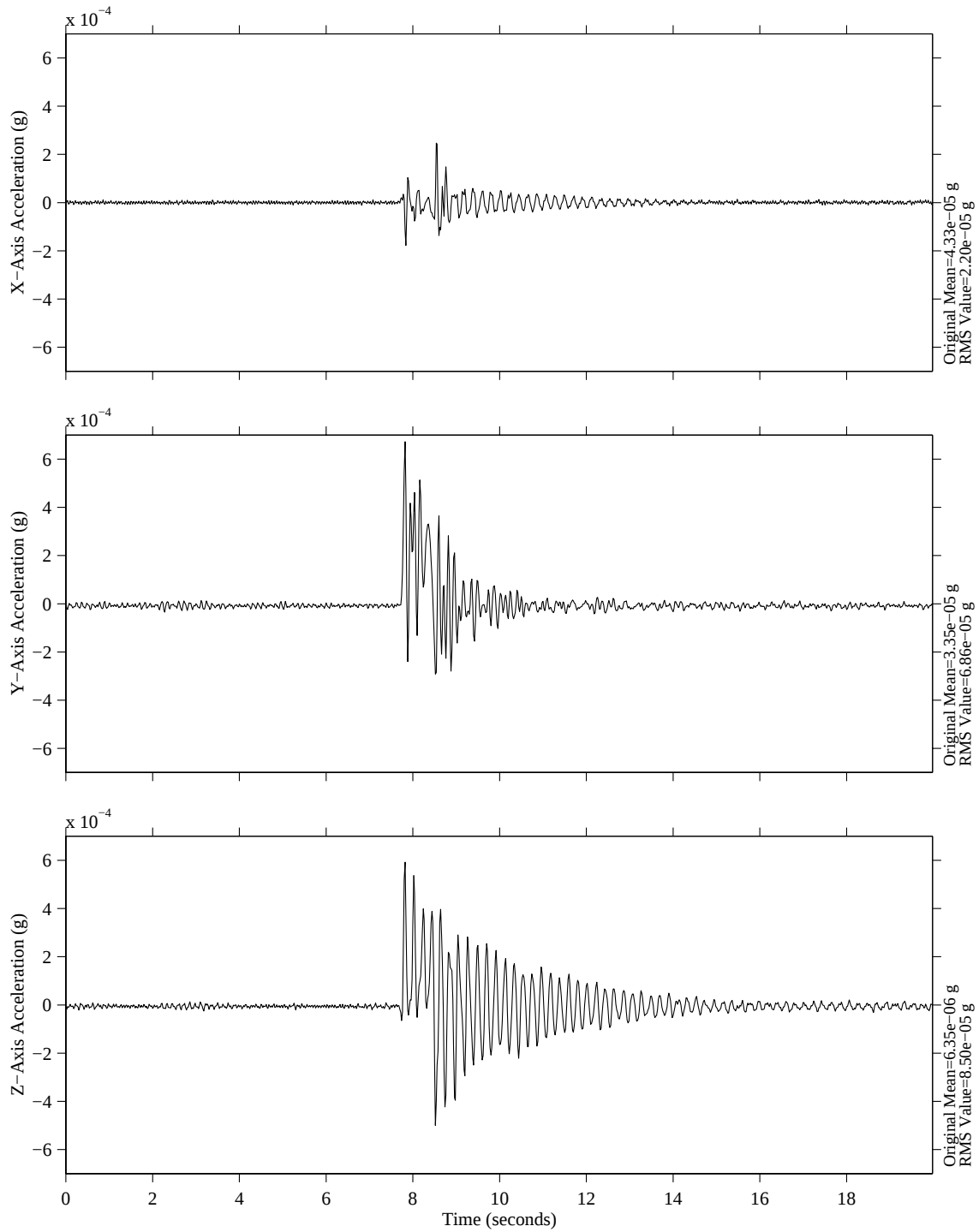


Figure 9-6

Head A, 10.0 Hz
fs=50.0 samples per second

Transient Disturbance: MEPHISTO Latch Release
MET Start at 011/10:14:44.998

USMP-2F
Structural Coordinates
T=20.0 seconds



MATLAB: 20-Aug-1998, 11:25 am

Figure 9-7

Head A, 100.0 Hz
fs=500.0 samples per second
dF=0.0610 Hz
dT=16.3840 seconds

MIR-1997
SAMS Coordinates
48.2 minutes

Atlantis (STS-81) Docking: SAMS located in Priroda Module
DMT Start at 015/06:35:30.414 (Hanning, k=176), Corrected for MiPS time synchronization error

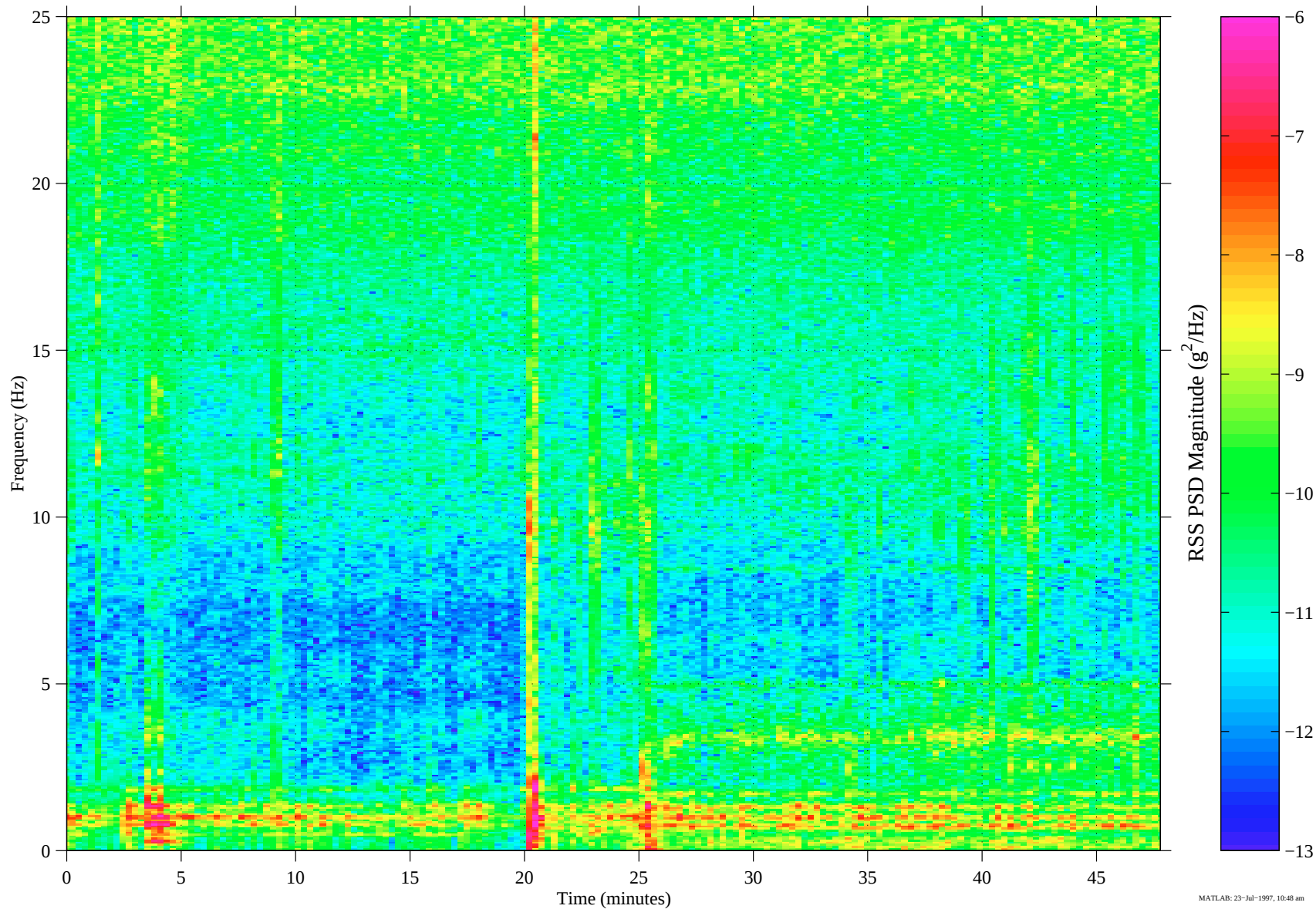


Figure 9-8

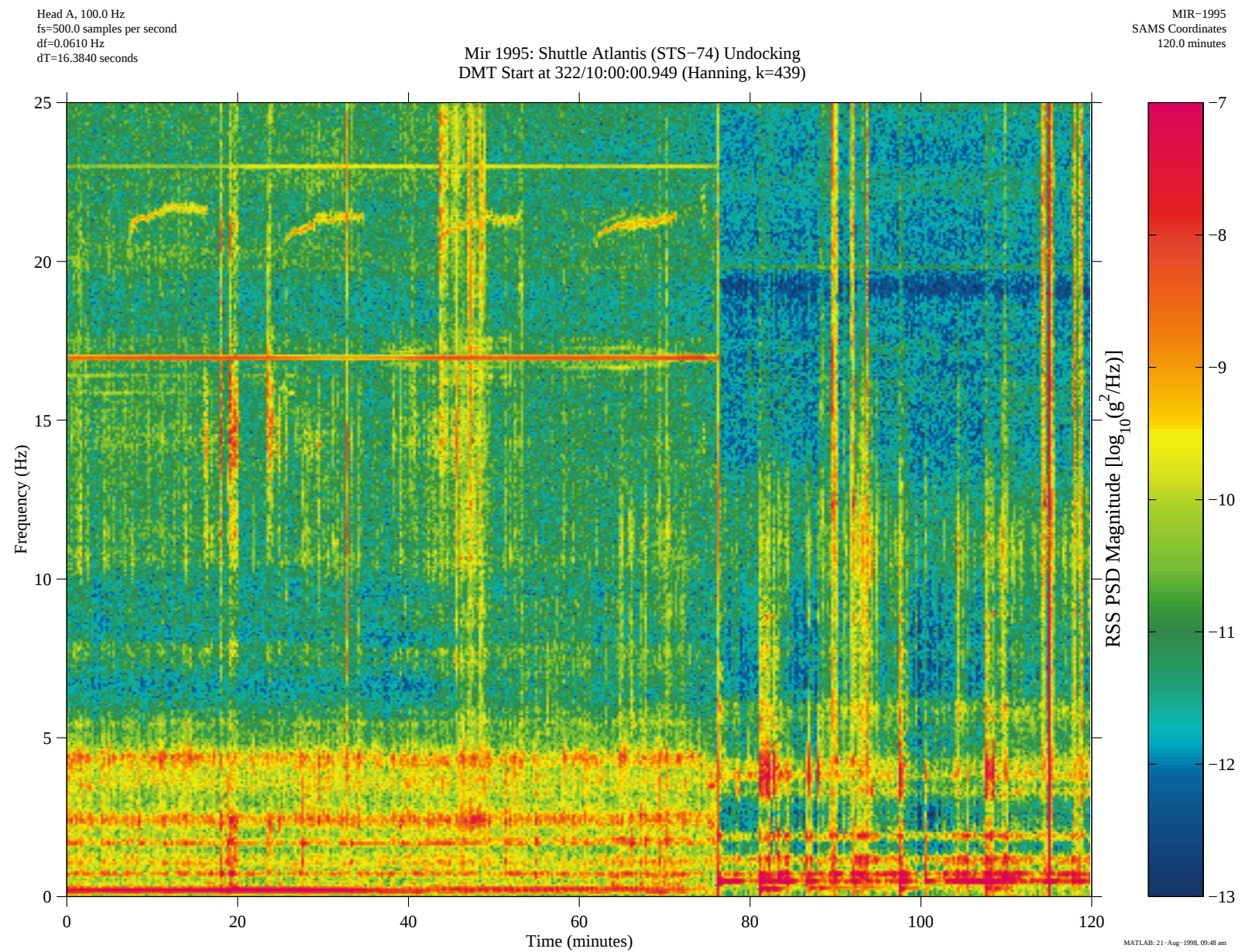
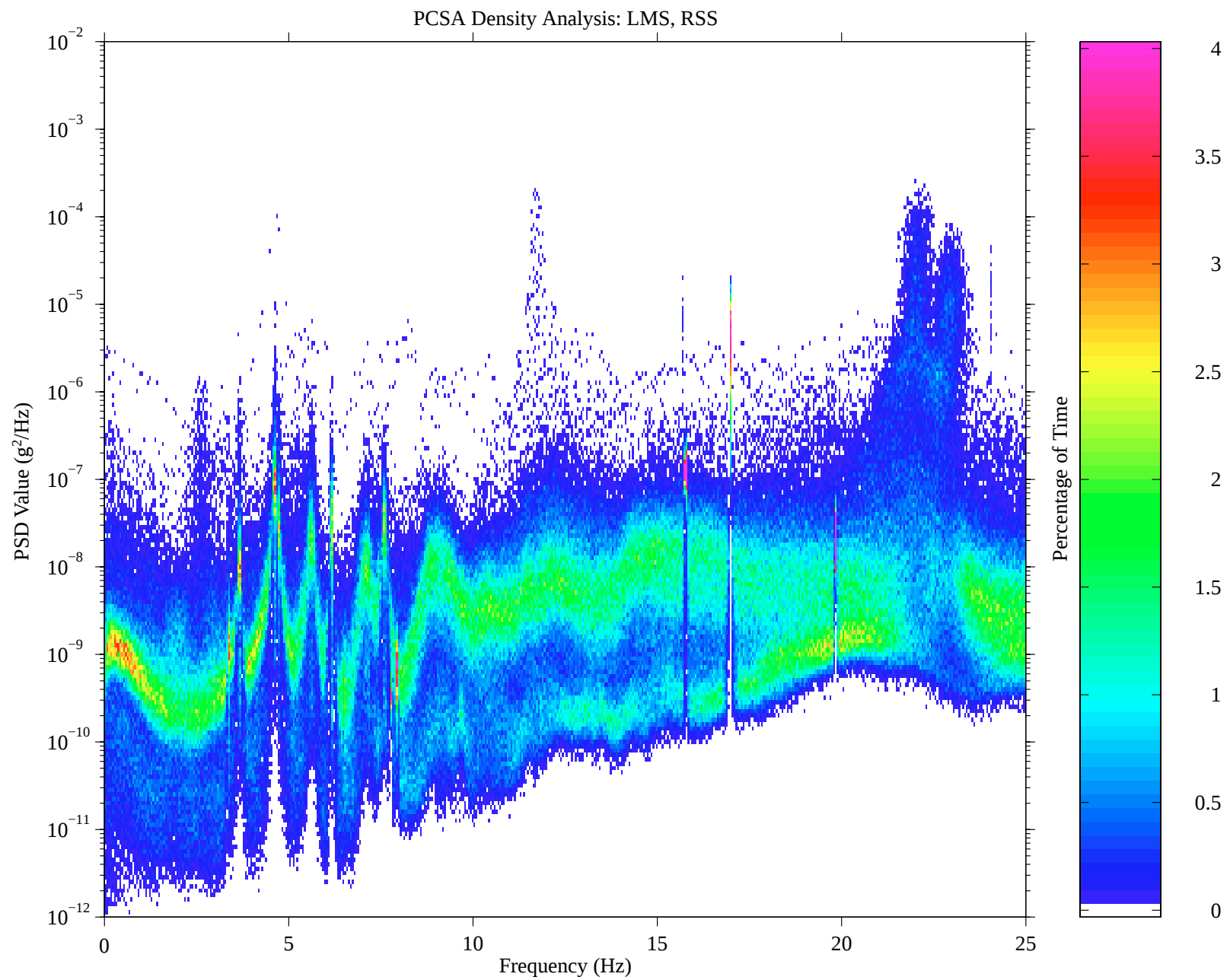
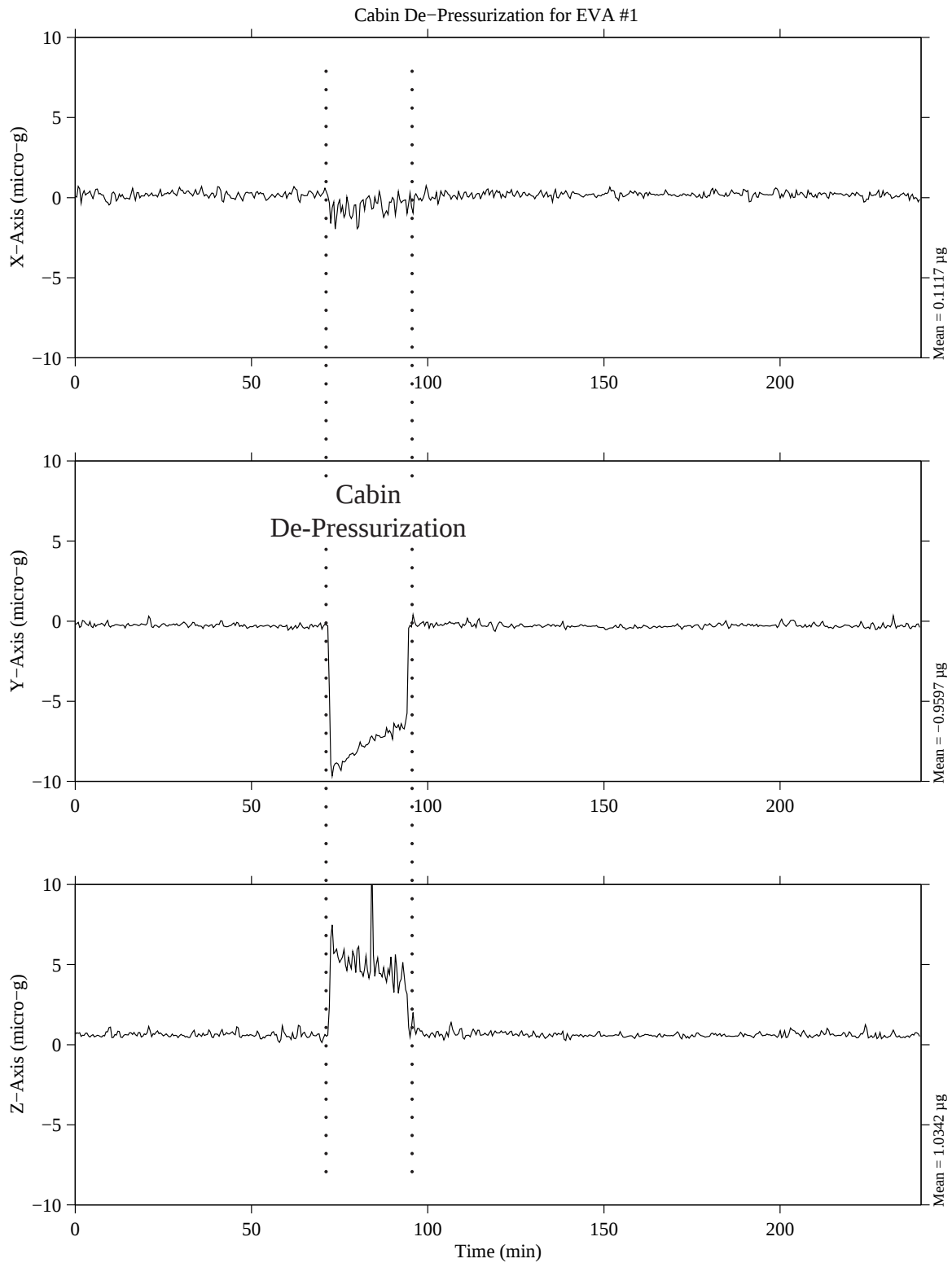


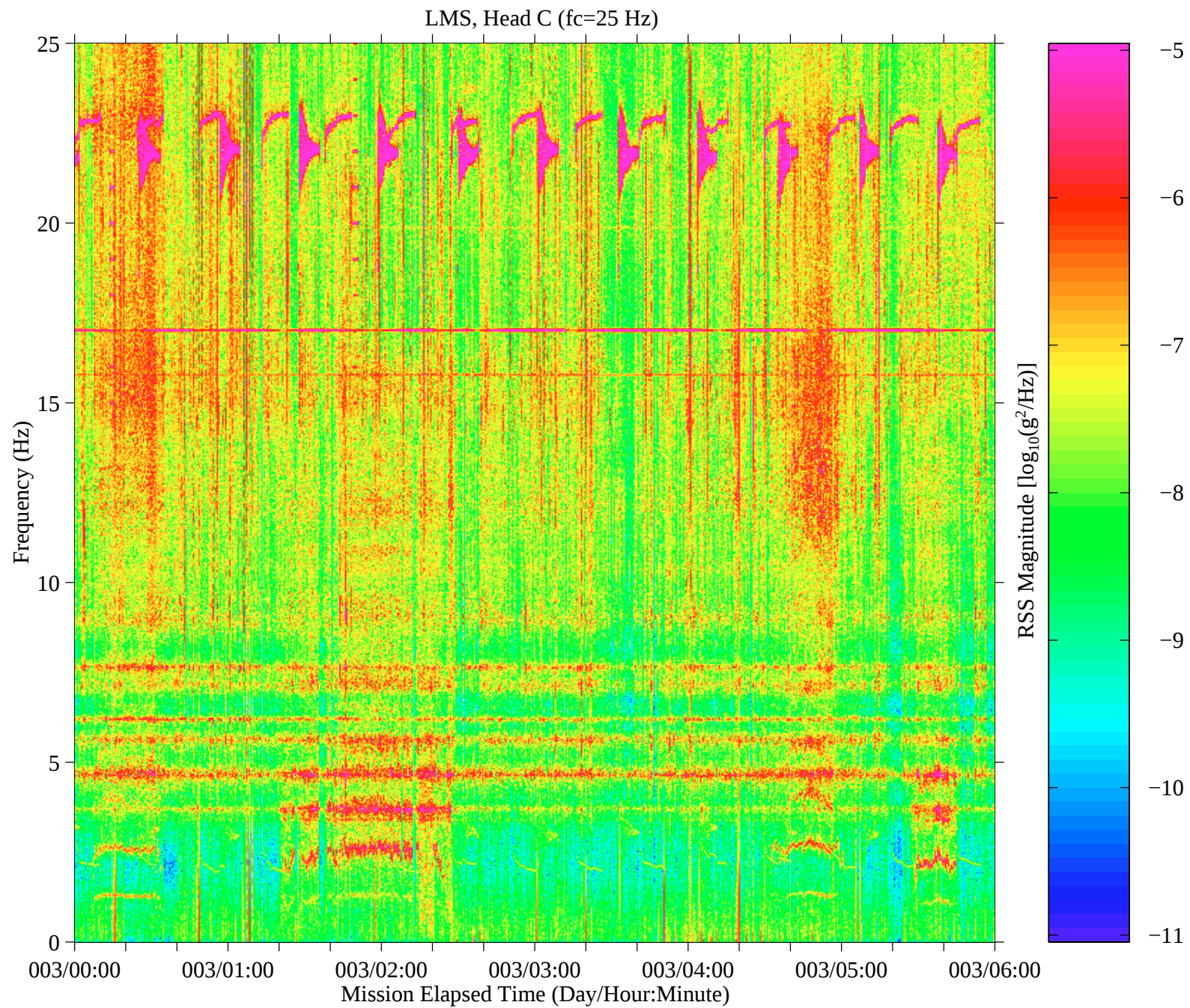
Figure 9-9



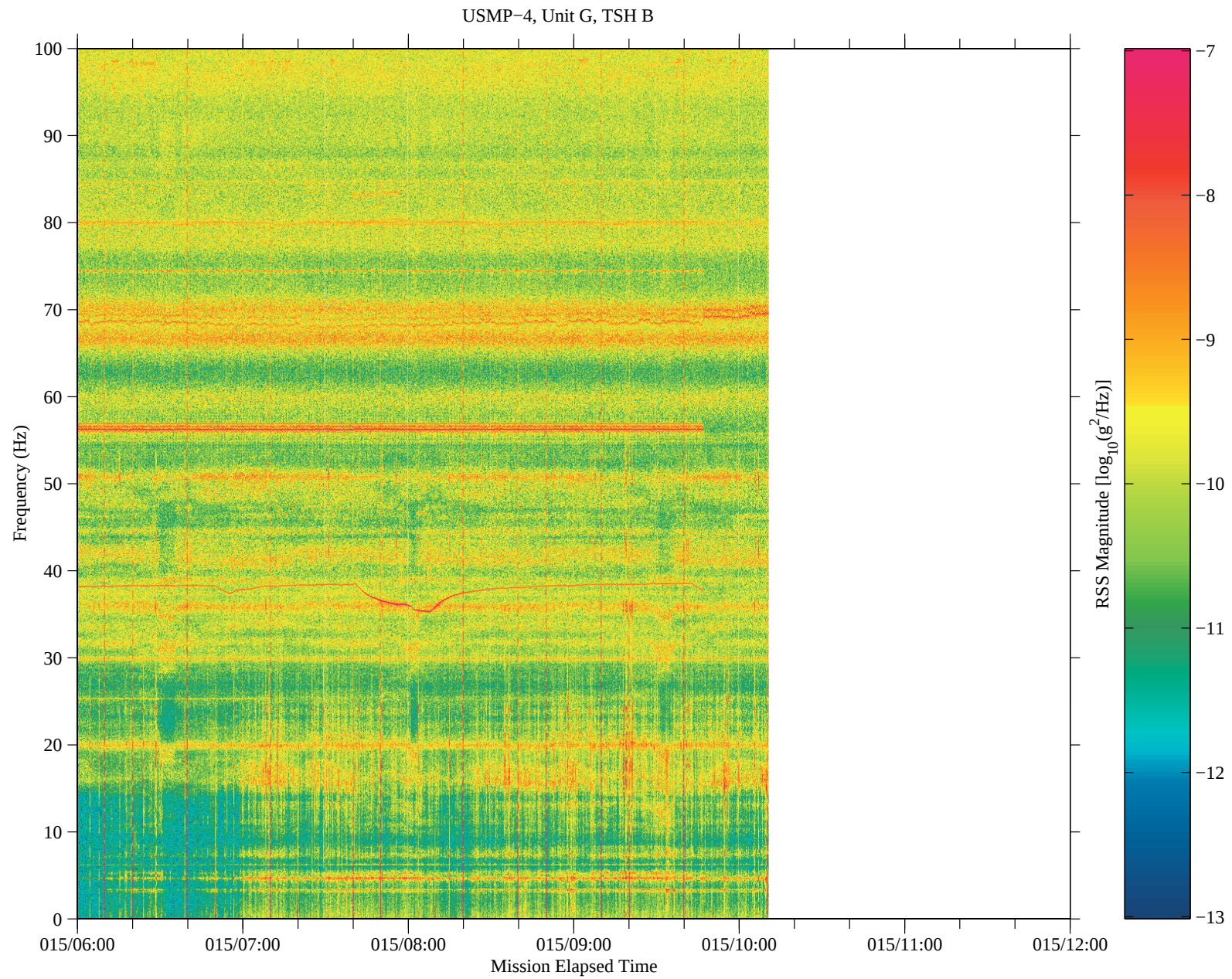
MEIT 1999 Figure 12-1: IDGE Experiment Turn Off from STS-87 Mission (USMP-4)



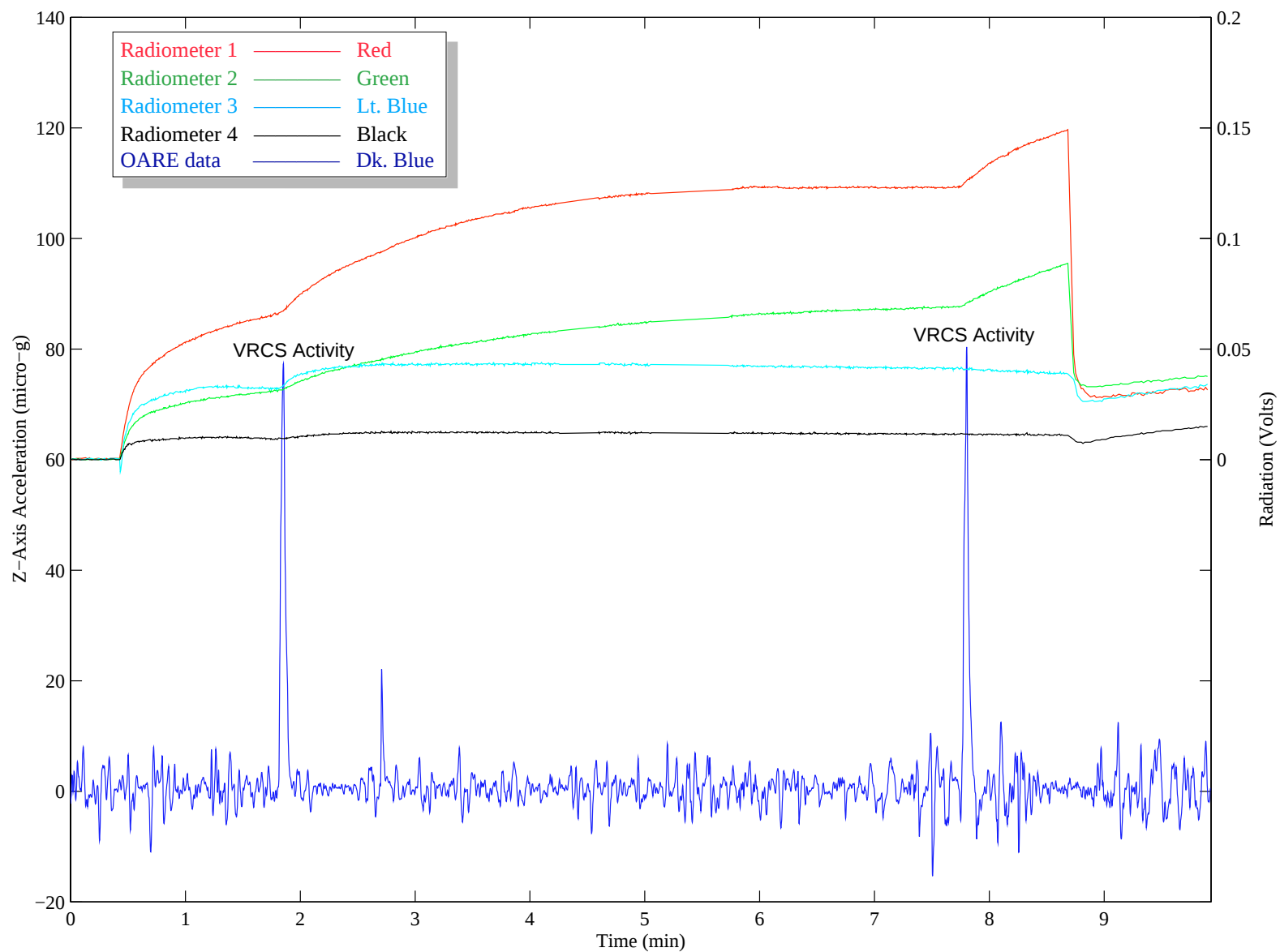
MEIT 1999 Figure 12-2: Cabin De-Pressurization from STS-87 Mission (USMP-4)



MEIT 1999 Figure 12-3: Nominal Microgravity Environment from STS-78 (LMS)



MEIT 1999 Figure 12-4: Raw OARE Data and SOFBALL Radiometry Data from STS-94 Mission (MSL-1R)



MEIT 1999 Figure 12-5: Principal Component Spectral Analysis for the Entire STS-78 Mission (LMS)