



Section 15:
International Space Station Acceleration Data Flow
Demonstration

Kevin M. McPherson
PIMS Data Analyst
NASA Glenn Research Center



International Space Station Acceleration Data Flow Demonstration



Data Flow Overview

- **Brief walk through of PIMS ISS WWW site**
- **Break for Lunch**
- **Resume demonstration at GRC Telescience Support Center**

Principal Investigator Microgravity Services International Space Station

Current Instrument Locations

Status Data Plots

View Interesting Data Plots

ISS μ g Monitoring System

Request Data Plots

Current Real-Time Plots

PIMS Home Page

Acceleration Measurements Home Page

Access ISS Acceleration Data Archives

Click this button to view the current SAMS-II, MAMS HIRAP, and MAMS OSS sensor head locations

Principal Investigator Microgravity Services International Space Station

Request Data Plots

Current Instrument Locations

Status Data Plots

View Interesting Data Plots

ISS μ g Monitoring System

PIMS Home Page

Acceleration Measurements Home Page

**Acc
Acce
Data**

SAMS-I	HEAD 1	Acceleration vs. Time
MAMS HiRAP	HEAD 2	Interval Min/Max vs. Time
MAMS OSS	HEAD 3	Interval Average
	HEAD 4	Acceleration vs. Time
	HEAD 5	PSD vs. Frequency
		Color Spectrogram
		Cumulative RMS vs. Frequency
		RMS Acceleration vs Time for Selected Frequency Bands
		One Third Octave

Welcome to the Principal Investigator Microgravity Services (PIMS) International Space Station Website

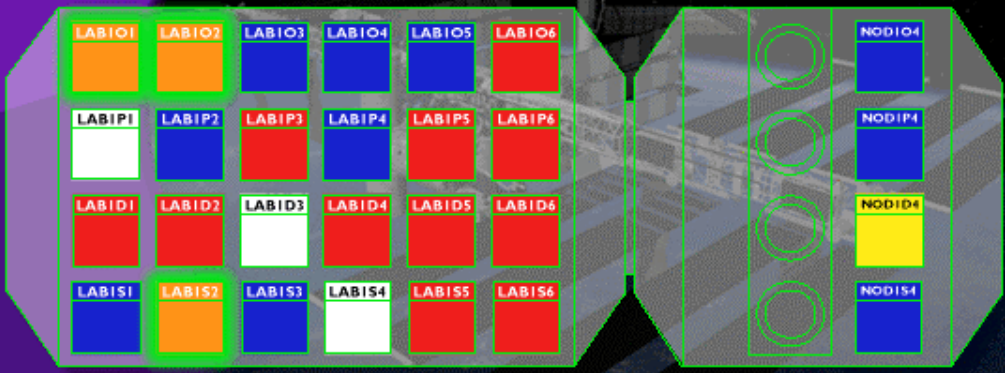
Click on the appropriate button to access the page you would like to view



Current Instrument Locations



NASA PAYLOAD RACK	ACCELEROMETER LOCATIONS	SYSTEM RACK	ZERO-G STOWAGE RACK	RESUPPLY STOWAGE RACK	INTERNATIONAL RACK



6A Assembly Sequence

Status Data Plots

ISS Acceleration Archives

Current Real-Time Plots

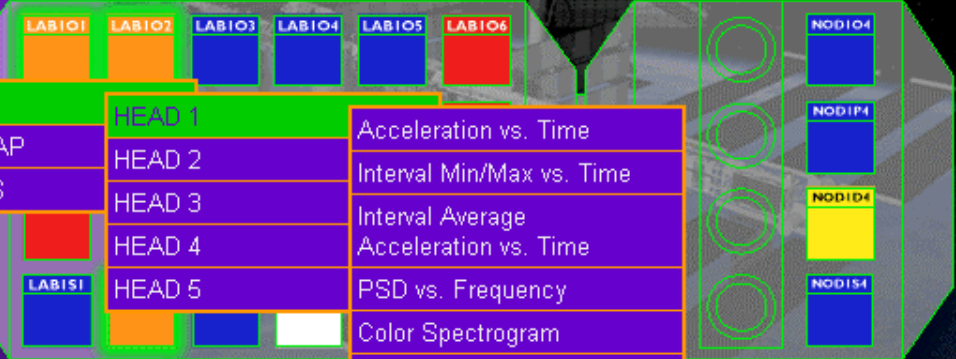
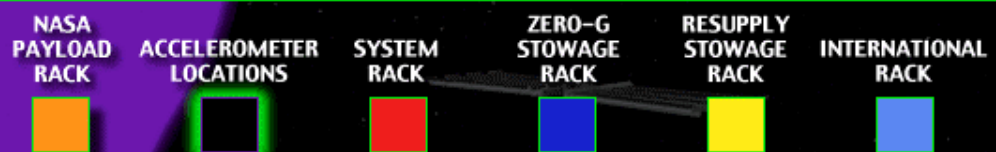
Interesting Plots

Acceleration Homepage

Request Data Plots



Current Instrument Locations



SAMS I	HEAD 1	Acceleration vs. Time
MAMS HIRAP	HEAD 2	Interval Min/Max vs. Time
MAMS OSS	HEAD 3	Interval Average
	HEAD 4	Acceleration vs. Time
	HEAD 5	PSD vs. Frequency
		Color Spectrogram
		Cumulative RMS vs. Frequency
		RMS Acceleration vs Time for Selected Frequency Bands
		One Third Octave

Status Data Plots

Interesting Plots

ISS

Acc

Current Real-Time Plots

Request Data Plots