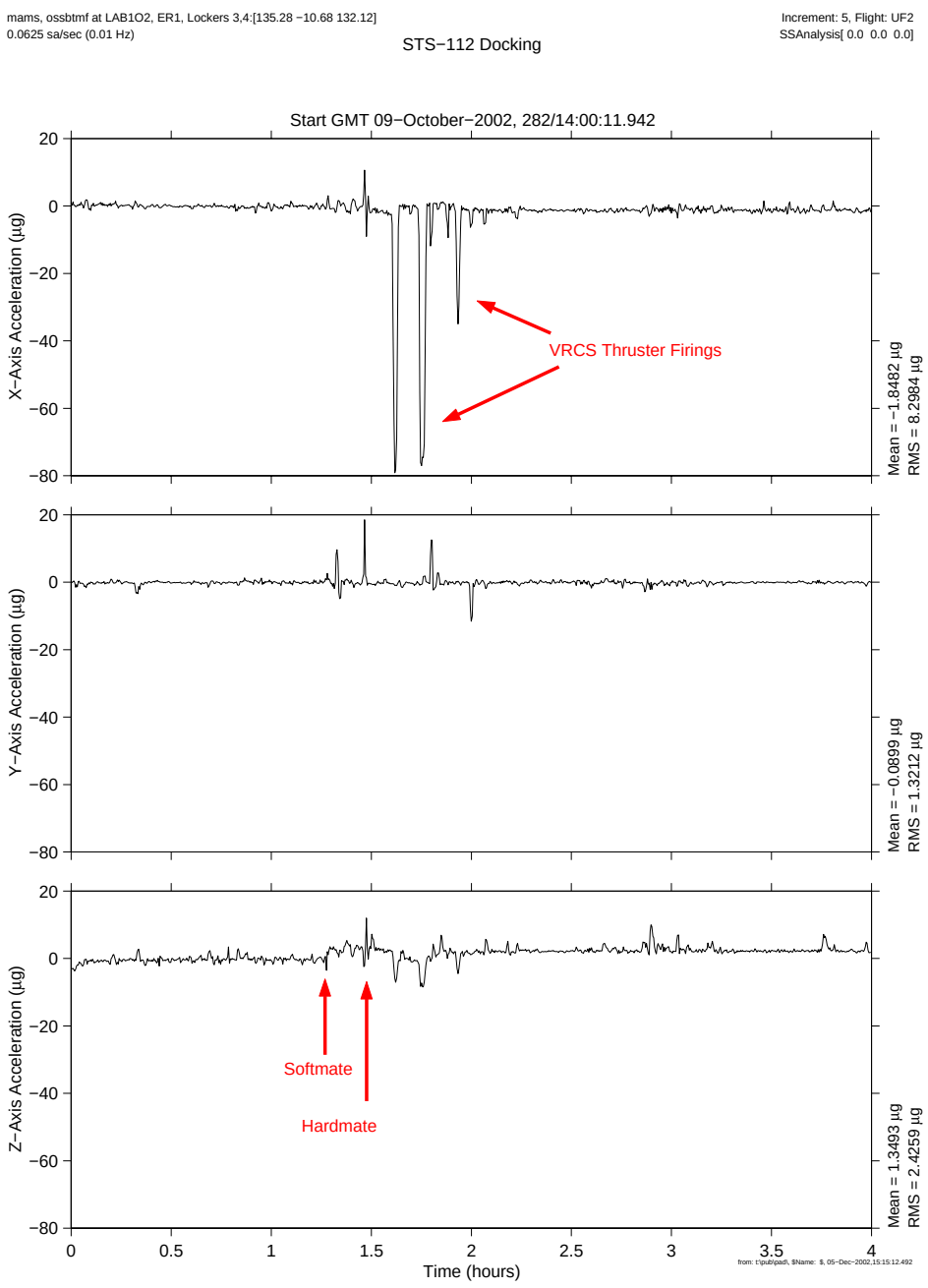
Docking Events, Shuttle



Description	
Sensor	ossbtmf 0.0625 sa/sec (0.01 Hz)
Location	LAB1O2, ER1, Lockers 3,4
Orientation	Space Station Analysis (SSA)
Inc/Flight	Increment: 5, Flight: UF2
Plot Type	Time Series

NOTES:

- The Space Shuttle Atlantis docked to the PMA-2 port during the STS-112 mission at GMT 09-Oct-02, 282/15:16.
- Effects of softmate and hardmate can be seen in all three axes. However, due to their transient nature, these effects are best measured with in the vibratory regime (SAMS).
- Three large spikes in X-axis (-77.1, -75.4, and -33.5 µg) are Vernier Reaction Control System (VRCS) thruster firings of Atlantis. Similar spikes are seen in other STS docking events.
- Other, shorter duration, thruster firings have been removed by the trimmed mean filter process.

Regime:	Quasi-steady
Category:	Vehicle
Source:	Docking Events

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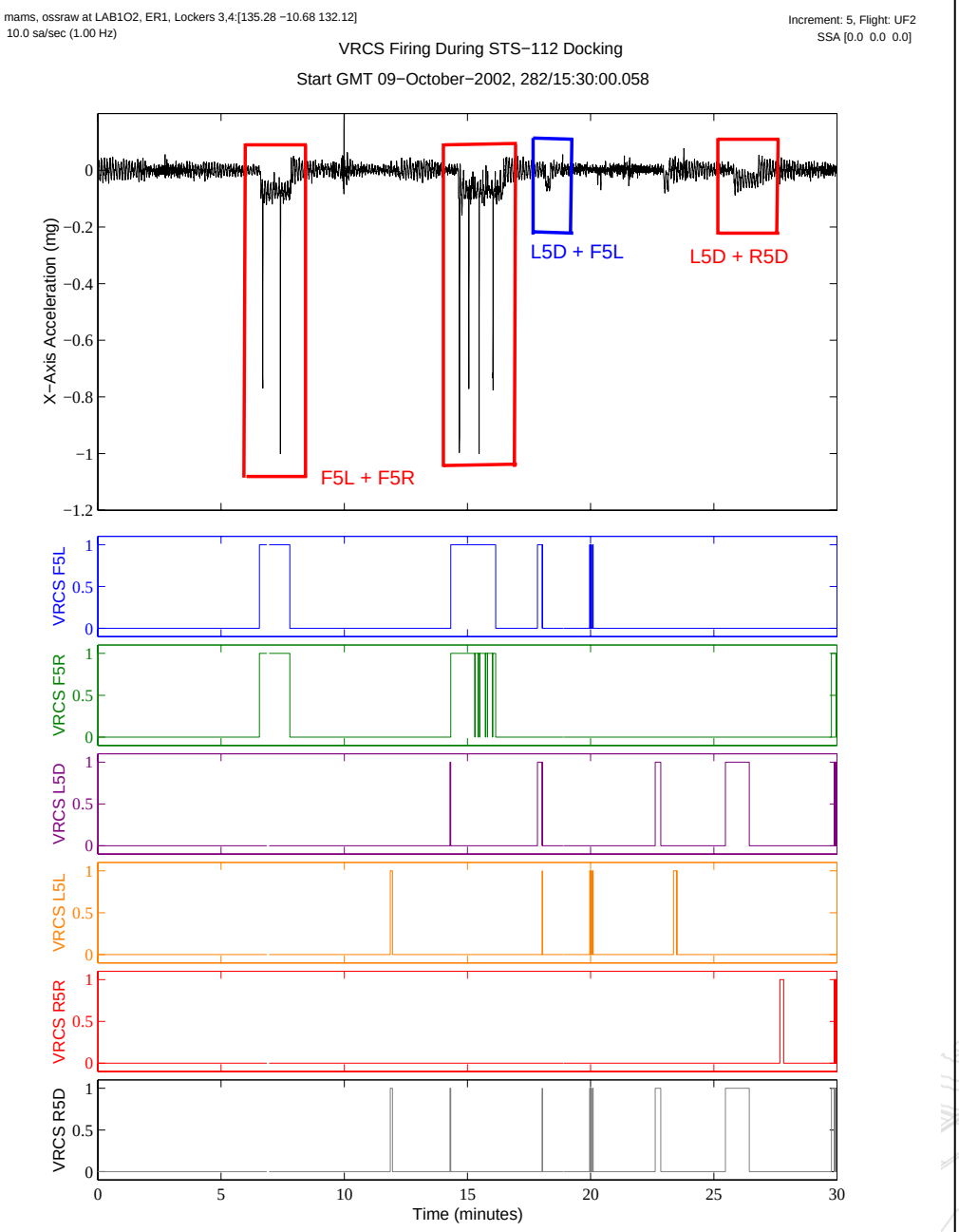

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Plot Type	Time Series

NOTES:

- Plot shows MAMS OSSRAW data correlated with Shuttle VRCS firings during docking operations.
- F5L and F5R are thrusters located in the nose of the orbiter. These provide acceleration in the orbiter +Z-axis, which corresponds to the ISS -X-axis during docked operations.
- This plot is for correlation purposes only. SAMS data is preferred for a quantitative look at the effect of thruster firings.

Microgravity Science Division

Glenn Research Center

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