

Description MAMS,ossbtmf 0.0625 sa/sec Sensor (0.01 Hz)LAB102, ER1, Location Lockers 3,4 **Space Station** Orientation Analysis (SSA) Increment: 7, Inc/Flight Flight: 6S Time Series Plot Type

- On GMT 30-Aug-2003, 242/02:45 a Loss of Attitude Control (LOAC) recovery procedure was inadvertently invoked causing the Russian system to unconditionally take control of the ISS. This included ignoring the US Guidance, Navigation and Control (GNC) control status. This resulted in a 106 second "force fight" between the Russian thrusters and US **Control Moment Gyroscopes** (CMG). The CMGs torqued against an RS thruster pitch adjustment until the force fight ended with CMGs saturated and their gimbals' rates zeroed
- The peak values the quasisteady environment during the force fight event are tabulated below.

Peak
(µg)
-2.68
0.37
9.59

Regime:	Quasi-steady
Category:	Vehicle
Source:	Thrusters, CMG



Russian / US GNC Force Fight