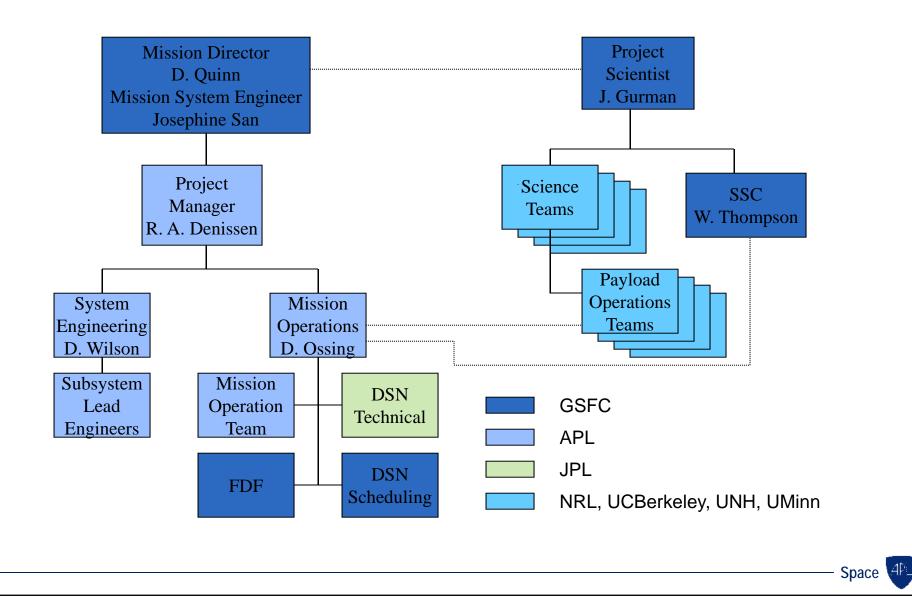
Spacecraft and Ground Segments Status

March 21, 2014

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STEREO Phase E Organization Chart



Program Status

Operations

- Began automated unattended tracks April 30,2007
- Operations team is 6 full time staff. Total manpower is approximately 11 MM/M
- Downlink rates: Varies, 720 to 120 Kbps depends on antenna size and track elevation
- Switched MOC to CCSDS SLE telemetry standard in July 2011
- Began using ESA stations (35 meter) in January 2012
 - Due to very high DSN loading
 - Awaiting new NASA/ESA agreement
- Mission operations center still collecting 3 5 Gbits per day in support of the science mission.

Special Observatory Events

- 36 instrument roll events to observe Comet ISON
- 37 High Gain Antenna Calibrations (every 6 months)
- 125 Momentum Dumps (~every 6 weeks on both spacecraft)
- >127 instrument calibration and roll events

Spacecraft Status

- Both observatories operating nominally using reduced gyro operations
- IMU status (gyros)
 - > AHEAD
 - IMU-A failed in April 2007
 - IMU-B limited remaining life
 - > BEHIND
 - IMU-A limited remaining life
 - IMU-B failed in January 2014
 - Reduced gyro operations uses IMU only when high rate data is required, i.e., momentum dumps, instrument rolls, etc.
- Reaction Wheel Stiction
 - > AHEAD Wheel 1
 - BEHIND Wheels 3 & 4

Ground Segment Status

- All MOC peripheral equipment, i.e., PCs, network equipment, UPS batteries, projectors, monitors, printers, and RAID arrays refreshed in 2012.
- Refresh of Solaris Unix systems in progress
 - > Switching to Intel based Sun Unix systems

Concerns

- Superior Solar Conjunction in 2015
 - > Untested configuration
- MOC Unix system refresh

