Mars Global Surveyor
Radio Science Team Meeting
June 21-22
Toulouse, France

PLANS AND OPERATIONS

Aseel Anabtawi
Plans and Operations

- **Current**
  - Solar Conjunction
    - Last Measurement On DOY 174 / June 22 (Sequence MM051)
    - Resume Operations On DOY 195 / July 13 (Sequence MM053)
  - No Ranging

- **Near Future**
  - Egress Measurements
    - Next Opportunity ON DOY 252 and 253 (September 8-9)
  - Upgrade MMRS Operating System
Plans and Operations

- **Egress Measurements - "Pitchover"**
  - Fixed-HGA mode caused the MOLA temperature to drop too low
  - The new "pitchover" technique was approved
    - The spacecraft pitches such that the HGA is Earth-pointed for egress.
    - The pitchover is held until the NADIR deck is once again NADIR pointed.
    - At that time the spacecraft returns the HGA to autotracking for the remainder of the orbit.
  - This significantly decreases the data loss for the other instruments.
  - The MCR was approved for up to two sets of 12 egress measurements per month. The two sets would be within a week of one another.
  - The 12 measurements provide a good longitude sampling.
Plans and Operations

- **Gravity Statistics**
  - Hours Tracked To Date: 8930 Hrs
  - Does not account for
    - Occultation and/or HGA Rewind Time
    - DSN Lockup Time
    - Signal Outage For Mode Changes
Plans and Operations

- Questions
- Open Issues
  - Extended Mission
  - RSR
- Concerns
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