Soyuz-26/Expedition-27/Increment-27

Soyuz-27/Expedition-28/Increment-28

Soyuz-28/Expedition-29/Increment-29

03/30/11

K. Riley/NENS/HSF

Near Earth Networks Services

Agenda

- Soyuz-26/Expedition-27/Increment-27
- Soyuz-27/Expedition-28/Increment-28
- Soyuz-28/Expedition-29/Increment-29
- Spaceflight Mission Manager (SMM)/Network Operations Manager (NOM) support
- Expedition/Increment Definition

Soyuz-26/Expedition-27

- **Soyuz-26 Launch (TMA-21)**
  - **April 04, 2011 DOY 094/2218z**
- **Docking**
  - **April 06, 2011 DOY 096/~2318z**
- **Expedition-27**
  - **March 16, 2011 thru May 16, 2011**
  - **Soyuz-25 (TMA-20) undock/landing (End of Expedition-27/Increment 27)**

Soyuz-27/Expedition-28

- **Soyuz-27 Launch (TMA-02M)**
  - **May 30, 2011**
- **Docking**
  - **June 01, 2011**
- **Expedition-28**
  - **May 16, 2011 thru September 16, 2011**
  - **Soyuz-26 (TMA-21) undock/landing (End of Expedition-28/Increment 28)**

Soyuz-28/Expedition-29

- **Soyuz-28 Launch (TMA-03M)**
  - **September 30, 2011**
- **Docking**
  - **October 02, 2011**
- **Expedition-29**
  - **September 16, 2011 thru November 16, 2011**
  - **Soyuz-27 (TMA-02M) undock/landing (End of Expedition-29/Increment 29)**

SMM/NOM Support

- GSFC SMMs and NOMs support of Soyuz
  - MORRs and mission support documentation
  - SMMs/NOMs schedule the Eastern Range (ER) and Wallops Radars
  - Verify the VHF Network is ready to support Soyuz early orbit
    - Distribution of Two-Line-Elements
- Critical Period (Orbits 6-8)
  - Coordinate ER Radar interfaces (Orbit 6)
  - Coordination of VHF-2 Station interfaces
- Support all CONUS view periods from orbit 8 thru docking
- Critical docking period

Expedition/Increment Definition

- **6 Crew Expedition Crew**
  - **A complement of Expedition crewmembers which maintain the same ISS Commander (CDR) and Flight Engineers (FEs) for a period of time**
- **6 Crew Increment**
  - **An Increment is a specific time period on the ISS which combines different operations such as assembly, scientific research, maintenance and other ISS system and utilization operations**
  - **The duration of an Increment is the time period from the undocking of a Soyuz to the undocking of the next Soyuz**