

ISS Research Planning

Briefing to the SSUAS

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Office of
Biological
& Physical
Research

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ISS Research Planning Shuttle Return To Flight

- Columbia Accident Investigation Board (CAIB) report expected late August 2003
- Space Shuttle Program is targeting ULF1 launch no earlier than (NET) December 18, 2003
 - Currently under evaluation for a NET launch date of March 11, 2004
- ISS Program is evaluating options for ULF1 based on potential impacts to Shuttle mass capability as a result of Columbia accident
 - Addition of Shuttle Remote Manipulator System (SRMS), tile repair kits, etc
 - Accommodation for logistics backlog
 - Potential shortfall in Ascent Performance Margin (APM), depending on month of projected launch
- Although many resource trades (crew rotation, ISS altitude, etc.) are under evaluation, it is likely that there will be an impact to Utilization on ULF1 that will result in a shift or re-phase of the facility outfitting and/or utilization resupply deployments
- ISS Program is looking at ways to increase upmass capability for utilization
- ULF1 manifest decision not expected until mid-August at the earliest





NASA Increment 7 & 8 Research Planning

- Soyuz and Progress launch dates for the remainder of Increment 7 and Increment 8 were agreed upon in the mid June time frame.
 - Near term Increment 7/8 planning:
 - 12Progress Aug 30, 2003
 - 7Soyuz Oct 18, 2003
 - 13Progress Nov 20, 2003
 - 14Progress Jan 30, 2004
- It was also agreed that the Increment 8 crew would rotate home on 7S in May 2004, unless the Shuttle is flying again before that time
- NASA has 26 investigations in progress or planned for Increments 7 and 8 (not including latest 13Progress proposals)
- To date, NASA research objectives on Expedition 7 are being met
- Although our formal allocations for Russian vehicle upmass and downmass are 0, we have achieved some successes
 - 3 Education items were launched on 6Soyuz (<1 kg)
 - 6 payloads are planned for launch on 12Progress (15.3 kg)
 - 7 payloads were recently selected for 13Progress (25.7 kg)
 - Several items were returned on 5Soyuz (6.3 kg)
 - We are requesting return of several items on 6Soyuz (7.5 kg)
 - Call for 14P payloads is expected early to mid August



International Coordination

- ISS Program Manager is highly supportive of the coordination of research among international partners during this interim period
- Discussed among the partners during the May 2003 User Operations Panel (UOP) meeting in Washington
- NASA and ESA exchanged information regarding each partner's hardware available to support research on orbit
- Agreement is in place between NASA and ESA to conduct MSG/Promiss experiment runs during Increment 8
- Discussions are under way for possible use by NASDA of NASA's CGBA hardware for temperature conditioned stowage of protein crystallization samples in the Granada Crystallization Facility (GCF) in the 12P-7S time period



ISS Research Planning Summary

- Shuttle return to flight ISS utilization planning continues in coordination with evolving ISS and Shuttle Program plans
- ISS utilization interim planning has been implemented on Expedition 7 and plans are in place for Expedition 8 based on limited Progress resupply opportunities

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