

## STS DATA SUMMARIES

09/07/2001

### PLANNING OVERVIEW/FLIGHT HARDWARE/FACILITY REQUIREMENTS

(Near-Term Flights - Two flights per vehicle - except during an OMDP. Follow-on flight of an OMDP will appear mid-flow)

| <b>NEAR-TERM FLTS.</b>              | <b>STS-108/OV-105/17</b>                   | <b>STS-109/OV-102/27</b>                    | <b>STS-110/OV-104/25</b>                      | <b>STS-111/OV-105/18</b>                   |
|-------------------------------------|--|---|---|--|
| <b>PLANNING OVERVIEW</b>            | Launch date rebaseline at PRCB held 5/4/01 | Launch date rebaseline at PRCB held 5/10/01 | Mission extension approved on 7/26 @ SP JPRCB | Mission extension approved at 8/16/01 PRCB |
| LSFR/DELTA LSFR                     | 3/29/01 (A) – 5/24/01 (A)                  | 2/22/01(A) – 5/24/01 (A)                    | 7/5/01 (A) – 8/30/01 (A)                      | 11/1/01 – 1/10/02                          |
| CREW SIZE/MISSION DURATION          | 7/10 (Crew Rotation)                       | 7/11  | 7-3 / 11                                      | 7 / 11 (Crew Rotation)                     |
| LAUNCH DATE/TIME (HH:MM:SS)         | 11/29/01 Time: 20:05:30 EST                | 1/17/02 (U/R) Time: 14:40:00 EST            | 2/28/02 (U/R) Time: TBD EST                   | 4/18/02 Time: TBD EST                      |
| LANDING DATE/TIME - KSC             | 12/9/01 Time: 16:34:00 EST                 | 1/28/02 Time: TBD EST                       | 3/11/02 Time: TBD EST                         | 4/29/02 Time: TBD EST                      |
| LAUNCH WINDOW (HH:MM:SS)            | 00:10:00                                   | TBD   | 00:10:00                                      | 00:10:00                                   |
| INSERTION ALT. / INCLINATION        | 122 NM / 51.6                              | 308 NM / 28.45                              | 122 NM / 51.6                                 | 122 NM / 51.6                              |
| FLIGHT SOFTWARE                     | OI-28                                      | OI-28                                       | OI-29   | OI-29                                      |
| <b>FLIGHT HARDWARE</b>              |  |   |   |  |
| DOWN PAYLOAD PROCESSING             | ISS-09-6A / MPLM2(P)-01                    | N/A   | ISS-10-7A/AIRLOCK                             | ISS-12-UF1/MPLM1(P)-02                     |
| UP PAYLOAD PROCESSING               | ISS-12-UF1 / MPLM2(P)-02                   | HST SM 3B                                   | ISS-13-8A / ITS SO                            | ISS-14-UF2/MPLM2(P)-03                     |
| PAYLOAD INSTALLATION                | Vertical                                   | Vertical                                    | Vertical                                      | Vertical                                   |
| PRSD TANK SETS                      | Prev. 5 / Curr. 5                          | Prev. X / Curr. 5                           | Prev. 5 / Curr. 5                             | Prev. 5 / Curr. 5                          |
| GN2 TANKS                           | Prev. 7 / Curr. 6                          | Prev. X / Curr. 5                           | Prev. 7 / Cur. 6                              | Prev 6 / Curr. 6                           |
| RMS INSTALLED / #                   | Yes / #303                                 | Yes / #201                                  | Yes / #202                                    | Yes / #303                                 |
| INTERNAL/EXTERNAL AIRLOCK           | External                                   | Internal                                    | External                                      | External                                   |
| TUNNEL ADAPTER                      | No   | No  | No  | No   |
| SRB/ET                              | Bi110 / RSRM: 82 / ET: 111                 | Bi111 / RSRM: 83 / ET: 112                  | Bi112 / RSRM: 85 / ET-114                     | Bi113 / RSRM: 84 / ET-113                  |
| SSME 1/2/3                          | 2049-2A/2043-2A/2050-2                     | 2056-2A/2053-2A/2047-2A                     | 2048-2/2051-2/2054-2                          | 2052-2/2044-2/2045-2                       |
| OMS POD                             | RP01/31/F6 – LP04/24/F6                    | RP05/15/F1 – LP05/16/F1                     | RP04/25/F5 – LP03/29/F5                       | RP01/32/F7 – LP04/25/F7                    |
| FRCS / FLT. # / FLTS. SINCE OMDP    | FRC5/17/F6                                 | FRC2/27/F1                                  | FRC4/24/F4                                    | FRC5/18/F7                                 |
| <b>FACILITY REQUIREMENTS</b>        |  |   |   |  |
| TAL SITE (Post-Launch) (Prime/Alt.) | Zaragoza                                   | Banjul / Ben Guerir                         | Zaragoza / Ben Guerir                         | Zaragoza                                   |
| EOM LANDING SITE (Prime-Alt.)/CLS   | KSC - DFRC / WSSH                          | KSC - DFRC / WSSH                           | KSC – DFRC / WSSH                             | KSC – DFRC / WSSH                          |
| OPF BAY                             | OPF Bay-1                                  | OPF- Bay-1/3                                | OPF- Bay-2/2                                  | OPF Bay-3                                  |
| VAB HIGH BAY (MATE) / MLP           | VAB HB-1/MLP-1                             | VAB HB-3/MLP-2                              | VAB HB-1/MLP-3                                | VAB HB-3 / MLP-1                           |
| PAD                                 | PAD-B                                      | PAD-A                                       | PAD-B   | PAD-A                                      |
| LAUNCH CONTROL CENTER               | 2/1/3                                      | 2/1   | 1/2/3   | 2/1  |

Contact: Catherine Downs, Integrated Project Management, (Manifest Planning) 1-7424

**Denotes changes since last publication**/U/R = Under Review

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(Near-Term Flights - Two flights per vehicle - except during an OMDP. Follow-on flight of an OMDP will appear mid-flow)

|                                     |   |                           |     |     |
|-------------------------------------|---|---------------------------|-----|-----|
| TCID LOAD                           | 5/23/01                                     | 4/28/01                   | TBD | TBD |
| <b>NEAR TERM FLIGHTS</b>            | <b>STS-107/OV-102/28</b>                    | <b>STS-112/OV-104/26</b>  |     |     |
| <b>PLANNING OVERVIEW</b>            | Launch date rebaseline at PRCB held 5/10/01 |                           |     |     |
| <b>LSFR/DELTA LSFR</b>              | 12/20/01 – 2/14/02                          | 2/7/02 – 3/28/02          |     |     |
| <b>CREW SIZE/MISSION DURATION</b>   | 7 / 16                                      | 6 / 10                    |     |     |
| <b>LAUNCH DATE/TIME (HH:MM:SS)</b>  | 5/23/02 Time: TBD                           | 7/11/02 Time: TBD         |     |     |
| LANDING DATE/TIME - KSC             | 6/8/02 Time: TBD                            | 7/21/02 Time: TBD         |     |     |
| LAUNCH WINDOW (HH:MM:SS)            | TBD   | 00:10:00                  |     |     |
| INSERTION ALT. / INCLINATION        | 150 NM / 39.0                               | 122 NM / 51.6             |     |     |
| FLIGHT SOFTWARE                     | OI-29                                       | OI-29                     |     |     |
| <b>FLIGHT HARDWARE</b>              |   |                           |     |     |
| DOWN PAYLOAD PROCESSING             | HST SM 3B                                   | ISS-13-BA-ITS SO          |     |     |
| UP PAYLOAD PROCESSING               | RESEARCH MSN / FREESTAR                     | ISS-15-9A/S1              |     |     |
| PAYLOAD INSTALLATION                | Horizontal                                  | Vertical                  |     |     |
| PRSD TANK SETS                      | Prev. 5 / Curr. 9                           | Prev. 5 / Curr. 5         |     |     |
| GN2 TANKS                           | Prev. 5 / Curr. 5                           | Prev. 6 / Curr. 6         |     |     |
| RMS INSTALLED / #                   | No  | Yes / #202                |     |     |
| INTERNAL/EXTERNAL AIRLOCK           | Internal                                    | External                  |     |     |
| TUNNEL ADAPTER                      | Yes   | No                        |     |     |
| SRB/ET                              | Bi114 / RSRM: 86 / ET 93 LWT                | Bi115 / RSRM: 87 / ET 115 |     |     |
| SSME 1/2/3                          | 2049-2/2055-2/2050-2                        | 2057-2/2043-2/2047-2      |     |     |
| OMS POD                             | RP05/16/F2 - LP05/17-F2                     | RP04/26/F6 – LP03/30/F6   |     |     |
| FRCS / FLT. # / FLTS. SINCE OMDP    | FRC2/28/F2                                  | FRC4/26/F6                |     |     |
| <b>FACILITY REQUIREMENTS</b>        |   |                           |     |     |
| TAL SITE (Post-Launch) (Prime/Alt.) | Ben Guerir                                  | Zaragoza                  |     |     |
| EOM LANDING SITE (Prime-Alt.)/CLS   | KSC - DFRC / WSSH                           | KSC-DFRC/WSSH             |     |     |
| OPF BAY                             | OPF Bay-2                                   | OPF Bay-3                 |     |     |
| VAB HIGH BAY (MATE) / MLP           | VAB HB-1 / MLP-2                            | VAB HB-3 / MLP-3          |     |     |
| PAD                                 | PAD-B                                       | PAD-A                     |     |     |

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(Near-Term Flights - Two flights per vehicle - except during an OMDP. Follow-on flight of an OMDP will appear mid-flow)

|                       |     |     |  |  |
|-----------------------|-----|-----|--|--|
| LAUNCH CONTROL CENTER | 2/3 | 2/1 |  |  |
| TCID LOAD             | TBD | TBD |  |  |

| <b>LONG RANGE FLT.</b>            | <b>STS-113/OV-105/19</b>                      | <b>STS-114/OV-104/27</b>  |  |  |
|-----------------------------------|---|---|--|--|
|                                   | FDRD baseline occurred at PRCB<br>Held 7/5/01 | Info. will be filled in as it becomes<br>avail. - Prel. FRD not available |  |  |
| LSFR/DELTA LSFR                   | 3/21/02 - 5/9/02 (Under<br>Review)            | TBD / TBD   |  |  |
| CREW SIZE / MISSION DURATION      | 6 / 10 (Crew Rotation)                        | X / 10 (Crew Rotation)  |  |  |
| LAUNCH DATE/TIME (HH:MM:SS)       | 8/22/01 Time: TBD                             | 11/21/02 Time: TBD  |  |  |
| LANDING DATE/TIME - KSC           | 9/1/01 Time: TBD                              | 12/1/01 Time: TBD   |  |  |
| LAUNCH WINDOW (HH:MM:SS)          | 00:10:00                                      | TBD   |  |  |
| INSERTION ALT. / INCLINATION      | 122 NM / 51.6                                 | TBD   |  |  |
| FLIGHT SOFTWARE                   | OI-29   | TBD   |  |  |
| <b>FLIGHT HARDWARE</b>            |   |   |  |  |
| DOWN PAYLOAD PROCESSING           | ISS-14-UF2/MPLM1(P)-03                        | ISS-15-9A/ITS S1  |  |  |
| UP PAYLOAD PROCESSING             | ISS-16-11A / ITS P1                           | ISS-17-ULF-1 / MPLM2(P)-03  |  |  |
| PAYLOAD INSTALLATION              | Vertical                                      | Vertical  |  |  |
| PRSD TANK SETS                    | Prev. 5 / 5                                   | Prev. 5 / Curr. 5   |  |  |
| GN2 TANKS                         | Prev. 6 / 6                                   | Prev. 6 / Curr. 6   |  |  |
| RMS INSTALLED / #                 | Yes   | Yes   |  |  |
| INTERNAL/EXTERNAL AIRLOCK         | External                                      | External  |  |  |
| TUNNEL ADAPTER                    | No  | No  |  |  |
| SRB/ET                            | Bi116 / RSRM: 88/ ET 116                      | Bi117 / RSRM: 89 / ET 117   |  |  |
| SSME 1/2/3                        | 2048-2 / 2051-2 / 2054-2                      | 2056-2 / 2053-2 / 2045-2  |  |  |
| OMS POD                           | RP01/33/F9 - LP04/26/F9                       | RP04/27/F7 - LP03/31/F7   |  |  |
| FRCS / FLT. # / FLTS. SINCE OMDP  | FRC5/19/F9                                    | FRC4/27/ F7   |  |  |
| <b>FACILITY REQUIREMENTS</b>      |   |   |  |  |
| TAL SITE (Post-Launch)            | Zaragoza                                      | TBD   |  |  |
| EOM LANDING SITE (Prime-Alt.)/CLS | KSC-DFRC/WSSH                                 | KSC-DFRC/WSSH   |  |  |
| OPF BAY                           | OPF Bay-1                                     | OPF Bay-1   |  |  |
| VAB HIGH BAY (MATE) / MLP         | VAB HB-1 / MLP-1                              | VAB HB-3  |  |  |
| PAD                               | PAD -B  | PAD-A   |  |  |

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|                       |     |     |  |  |
|-----------------------|-----|-----|--|--|
| LAUNCH CONTROL CENTER | 2/3 | 2/1 |  |  |
| TCID LOAD DATE        | TBD | TBD |  |  |

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