

## STS DATA SUMMARIES

7/27/01

### 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-105/OV-103/30</b>	<b>STS-108/OV-105/17</b>	<b>STS-109/OV-102/27</b>	<b>STS-110/OV-104/25</b>
<b>PLANNING OVERVIEW</b>	OSB (outside normal bd. process) Launch dt. rebaseline occurred 7/10	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
LSFR/DELTA LSFR	3/1/01 (A) – 4/12/01(A)	3/29/01 (A) – 5/24/01 (A)	2/22/01(A) – 5/24/01 (A)	7/5/01 (A) – 8/16/01
CREW SIZE/MISSION DURATION	7/12 (Crew Rotation)	7/10 (Crew Rotation)	7/11	7-3 / 11
LAUNCH DATE/TIME (HH:MM:SS)	8/9/01 NET Time: 1738:12 EDT	11/29/01 Time: 19:23:00 EST	1/17/02 Time: 14:40:00 EST	2/28/02 (U/R) Time: TBD EST
LANDING DATE/TIME - KSC	8/21/01 Time: 1317:00 EDT	12/9/01 Time: TBD EST	1/28/02 Time: TBD EST	3/11/02 Time: TBD EST
LAUNCH WINDOW (HH:MM:SS)	00:10:00	00:10:00	TBD	00:10:00
INSERTION ALT. / INCLINATION	122 NM / 51.7 Degrees	122 NM / 51.6	308 NM / 28.45	122 NM / 51.6
FLIGHT SOFTWARE	OI-28	OI-28	OI-28	OI-29
<b>FLIGHT HARDWARE</b>				
DOWN PAYLOAD PROCESSING	ISS-08-5A.1	ISS-09-6A / MPLM2(P)-01	N/A	ISS-10-7A/AIRLOCK
UP PAYLOAD PROCESSING	ISS-11-7A.1	ISS-12-UF1 / MPLM2(P)-02	HST SM 3B	ISS-13-8A / ITS SO
PAYLOAD INSTALLATION	Vertical	Vertical	Vertical	Vertical
PRSD TANK SETS	Prev. 5 / Curr. 5	Prev. 5 / Curr. 5	Prev. X / Curr. 5	Prev. 5 / Curr. 5
GN2 TANKS	Prev. 6 / Curr. 6	Prev. 7 / Curr. 7	Prev. X / Curr. 5	Prev. 7 / Cur. 6
RMS INSTALLED / #	Yes / #301	Yes / #303	Yes / #201	Yes / #202
INTERNAL/EXTERNAL AIRLOCK	External	External	Internal	External
TUNNEL ADAPTER	No	No	No	No
SRB/ET	Bi109 / RSRM: 81 / ET-110	Bi110 / RSRM: 82 / ET: 111	Bi111 / RSRM: 83 / ET: 112	Bi112 / RSRM: 85 / ET-114
SSME 1/2/3	2052-2A / 2044-2A / 2045-2A	2048-2/2051-2/2050-2	2043-2A/2053-2A/2049-2A	2054-2/2044-2/2047-2
OMS POD	RP03/31/F9 - LP01/33/F9	RP01/31/F6 – LP04/24/F6	RP05/15/F1 – LP05/16/F1	RP04/25/F5 – LP03/29/F5
FRCS / FLT. # / FLTS. SINCE OMDP	FRC3/30/F7	FRC5/17/F6	FRC2/27/F1	FRC4/24/F4
<b>FACILITY REQUIREMENTS</b>				
TAL SITE (Post-Launch) (Prime/Alt.)	Zaragoza	Zaragoza	Banjul / Ben Guerir	Zaragoza / Ben Guerir
EOM LANDING SITE (Prime-Alt.)/CLS	KSC - DFRC / WSSH	KSC - DFRC / WSSH	KSC - DFRC / WSSH	KSC – DFRC / WSSH
OPF BAY	OPF Bay-2	OPF Bay-1	OPF- Bay-1/3	OPF- Bay-2/2
VAB HIGH BAY (MATE) / MLP	VAB HB-3 / MLP-3	VAB HB-1/MLP-1	VAB HB-3/MLP-2	VAB HB-1/MLP-3
PAD	PAD-A	PAD-B	PAD-A	PAD-B
LAUNCH CONTROL CENTER	2/3	2/3	2/1	2/3

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

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TCID LOAD	4/7/01	5/23/01	4/28/01	TBD
<b>NEAR TERM FLIGHTS</b>	<b>STS-111/OV-105/18</b>	<b>STS-107/OV-102/28</b>	<b>STS-112/OV-104/26</b>	
<b>PLANNING OVERVIEW</b>	GN2 change and crew addition / rotation approved at PRCB held 7/20/01	Launch date rebaseline at PRCB held 5/10/01	FDRD baseline held at PRCB 5/4/01	
<b>LSFR/DELTA LSFR</b>	11/1/01 – 1/10/02	12/20/01 – 2/14/02	2/7/02 – 3/28/02	
<b>CREW SIZE/MISSION DURATION</b>	7 / 10 (Crew Rotation)	7 / 16	6 / 10	
<b>LAUNCH DATE/TIME (HH:MM:SS)</b>	4/18/02 Time: TBD EST	5/23/02 Time: TBD	7/11/02 Time: TBD	
LANDING DATE/TIME - KSC	4/28/02 Time: TBD EST	6/8/02 Time: TBD	7/21/02 Time: TBD	
LAUNCH WINDOW (HH:MM:SS)	00:10:00	TBD	00:10:00	
INSERTION ALT. / INCLINATION	122 NM / 51.6	150 NM / 39.0	122 NM / 51.6	
FLIGHT SOFTWARE	OI-29	OI-29	OI-29	
<b>FLIGHT HARDWARE</b>				
DOWN PAYLOAD PROCESSING	ISS-12-UF1/MPLM1(P)-02	HST SM 3B	ISS-13-BA-ITS SO	
UP PAYLOAD PROCESSING	ISS-14-UF2/MPLM2(P)-03	RESEARCH MSN / FREESTAR	ISS-15-9A/S1	
PAYLOAD INSTALLATION	Vertical	Horizontal	Vertical	
PRSD TANK SETS	Prev. 5 / Curr. 5	Prev. 5 / Curr. 9	Prev. 5 / Curr. 5	
GN2 TANKS	Prev 7 / Curr. 6	Prev. 5 / Curr. 5	Prev. 6 / Curr. 6	
RMS INSTALLED / #	Yes / #303	No	Yes / #202	
INTERNAL/EXTERNAL AIRLOCK	External	Internal	External	
TUNNEL ADAPTER	No	Yes	No	
SRB/ET	Bi113 / RSRM: 84 / ET-113	Bi114 / RSRM: 86 / ET 93 LWT	Bi115 / RSRM: 87 / ET 115	
SSME 1/2/3	2056-2/2055-2/2045-2	2048-2/2051-2/2050-2	2052-2/2057-2/2049-2	
OMS POD	RP01/32/F7 – LP04/25/F7	RP05/16/F2 - LP05/17-F2	RP04/26/F6 – LP03/30/F6	
FRCS / FLT. # / FLTS. SINCE OMDP	FRC5/18/F7	FRC2/28/F2	FRC4/26/F6	
<b>FACILITY REQUIREMENTS</b>				
TAL SITE (Post-Launch) (Prime/Alt.)	Zaragoza	Ben Guerir	Zaragoza	
EOM LANDING SITE (Prime-Alt.)/CLS	KSC – DFRC / WSSH	KSC - DFRC / WSSH	KSC-DFRC/WSSH	
OPF BAY	OPF Bay-1	OPF Bay-3	OPF Bay-2	
VAB HIGH BAY (MATE) / MLP	VAB HB-3 / MLP-1	VAB HB-1 / MLP-2	VAB HB-3 / MLP-3	

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PAD	PAD-A	PAD-B	PAD-A	
LAUNCH CONTROL CENTER	2/1	2/3	2/1	
TCID LOAD	TBD	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 Held 7/5/01	Info. will be filled in as it becomes avail. – Prel. FRD not available		
LSFR/DELTA LSFR	3/21/02 – 5/9/02 (Under 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	2054-2 / 2044-2 / 2047-2	2043-2 / 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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