

SOST

Rev 00 Phoebe

2004-163T04:02 - 2004-164T22:32

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07/17/03

SOST Rev 00 Phoebe

- This segment covers the targeted flyby of Phoebe.
- The plan includes double playback of the Phoebe data: once at the end of the SOST segment and once in the following MAG TWT segment.

SOST Rev 00 Phoebe Attitude Strategy

7/18/03

Request	Riders	Start(SCET)	Start(Epoch)	Duration	End(SCET)	Primary Pointing	Secondary Pointing	Comments
NAV_000SK_OPNAV631_PRIME		2004-163T04:02:00		000T00:37:00	2004-163T04:39:00	ISS_NAC to Satellites	POS_Z to NEP	Starts at Earth point, ends at NEW waypoint
NAV_000PH_WAYPTTURN631_PRIME		2004-163T04:39:00		000T00:01:00	2004-163T04:40:00	ISS_NAC to Phoebe	POS_Z to NEP	
NEW WAYPOINT		2004-163T04:40:00		000T09:03:00	2004-163T13:43:00	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP13LTCRV004_PRIME	U	2004-163T04:40:00		000T00:43:00	2004-163T05:23:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRES0001_PRIME	C, U	2004-163T05:23:00		000T00:16:00	2004-163T05:39:00	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP13LTCRV005_PRIME	U	2004-163T05:39:00		000T02:52:00	2004-163T08:31:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRES1A001_PRIME	C, U	2004-163T08:31:00		000T00:16:00	2004-163T08:47:00	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP13LTCRV006_PRIME	U, V	2004-163T08:47:00		000T00:31:00	2004-163T09:18:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRES1B001_PRIME	C, U, V	2004-163T09:18:00		000T00:16:00	2004-163T09:34:00	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP13LTCRV007_PRIME	U, V	2004-163T09:34:00		000T00:31:00	2004-163T10:05:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRES1C001_PRIME	C, U, V	2004-163T10:05:00		000T00:16:00	2004-163T10:21:00	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP13LTCRV008_PRIME	U, V	2004-163T10:21:00		000T00:31:00	2004-163T10:52:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRES1D001_PRIME	C, R, U, V	2004-163T10:52:00		000T00:16:00	2004-163T11:08:00	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP13LTCRV009_PRIME	R, U, V	2004-163T11:08:00		000T00:31:00	2004-163T11:39:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRES1E001_PRIME	C, R, U, V	2004-163T11:39:00		000T00:16:00	2004-163T11:55:00	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP13LTCRV010_PRIME	R, U, V	2004-163T11:55:00		000T00:31:00	2004-163T12:26:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRES1F001_PRIME	C, R, U, V	2004-163T12:26:00		000T00:16:00	2004-163T12:42:00	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP13LTCRV011_PRIME	R, U, V	2004-163T12:42:00		000T00:31:00	2004-163T13:13:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRES1G001_PRIME	C, R, U, V	2004-163T13:13:00		000T00:05:00	2004-163T13:18:00	ISS_NAC to Phoebe	POS_Z to NEP	
SP_000RD_WAYPTTURN163_PRIME	R	2004-163T13:18:00		000T00:25:00	2004-163T13:43:00	NEG_Z to Sun	POS_Y to NSP	22.3 min turn; safe WP? - YES
NEW WAYPOINT		2004-163T13:43:00		000T12:50:00	2004-164T02:33:00	NEG_Z to Sun	POS_Y to NSP	
SP_000NA_DEADTIME163_PRIME	R	2004-163T13:43:00		000T00:20:00	2004-163T14:03:00	NEG_Z to Sun	POS_Y to NSP	
Begin Custom			LMB_E000_Phoebe-000T05:30:00					
RADAR_000PH_SCATTRAD001_PRIME		2004-163T14:03:37	LMB_E000_Phoebe-000T05:30:00	000T01:31:00	2004-163T15:34:37	NEG_Z to Phoebe	PIC	Pick up at NEG_Z to Sun, POS_Y to NSP, RADAR must control primary and secondary axes to
ISS_000PH_LOWRES1J001_PRIME	R, U, V	2004-163T15:34:37	LMB_E000_Phoebe-000T03:59:00	000T00:36:00	2004-163T16:10:37	ISS_NAC to Phoebe	POS_Z to NEP	pick up at RADAR attitude
CIRS_000PH_FP3REGION100_PRIME	R, U, V	2004-163T16:10:37	LMB_E000_Phoebe-000T03:23:00	000T00:31:00	2004-163T16:41:37	ISS_NAC to Phoebe	POS_Z to NEP	SNER-3
ISS_000PH_LOWRES1K001_PRIME	C, R, U, V	2004-163T16:41:37	LMB_E000_Phoebe-000T02:52:00	000T00:16:00	2004-163T16:57:37	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP3REGION001_PRIME	R, U, V	2004-163T16:57:37	LMB_E000_Phoebe-000T02:36:00	000T00:31:00	2004-163T17:28:37	ISS_NAC to Phoebe	POS_Z to NEP	SNER-3
ISS_000PH_LOWRES1L001_PRIME	C, U, V	2004-163T17:28:37	LMB_E000_Phoebe-000T02:05:00	000T00:15:00	2004-163T17:43:37	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP3REGION003_PRIME	U, V	2004-163T17:43:37	LMB_E000_Phoebe-000T01:50:00	000T00:20:00	2004-163T18:03:37	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_MEDRESA001_PRIME	C, U, V	2004-163T18:03:37	LMB_E000_Phoebe-000T01:30:00	000T00:08:00	2004-163T18:11:37	ISS_NAC to Phoebe	POS_Z to NEP	
CIRS_000PH_FP3VWMAP001_PRIME	U, V	2004-163T18:11:37	LMB_E000_Phoebe-000T01:22:00	000T00:13:00	2004-163T18:24:37	ISS_NAC to Phoebe	POS_Z to NEP	SNER-3
ISS_000PH_MEDRESB001_PRIME	C, M, R, U, V	2004-163T18:24:37	LMB_E000_Phoebe-000T01:09:00	000T00:14:00	2004-163T18:38:37	ISS_NAC to Phoebe	POS_Z to North_Pole_Dir	pick up at ISS_NAC to Phoebe, POS_Z to NEP; hand off at ISS_NAC to Phoebe, POS_Z to
CIRS_000PH_FP3NITMAP001_PRIME	M, R, U, V	2004-163T18:38:37	LMB_E000_Phoebe-000T00:55:00	000T00:12:00	2004-163T18:50:37	ISS_NAC to Phoebe	POS_Z to North_Pole_Dir	SNER-3
ISS_000PH_HIRESA001_PRIME	C, M, R, U, V	2004-163T18:50:37	LMB_E000_Phoebe-000T00:43:00	000T00:21:00	2004-163T19:11:37	ISS_NAC to Phoebe	POS_Z to North_Pole_Dir	S_N_ER_-3
CIRS_000PH_FP1NITMAP001_PRIME	M, R, U, V	2004-163T19:11:37	LMB_E000_Phoebe-000T00:22:00	000T00:10:00	2004-163T19:21:37	ISS_NAC to Phoebe	POS_Z to North_Pole_Dir	SNER-3
ISS_000PH_HIRES0001_PRIME	C, M, R, U, V	2004-163T19:21:37	LMB_E000_Phoebe-000T00:12:00	000T01:07:00	2004-163T20:28:37	ISS_NAC to Phoebe	POS_Z to North_Pole_Dir	pick up at ISS_NAC to Phoebe, POS_Z to North_Pole_Dir, hand off at ISS_NAC to Phoebe,
CIRS_000PH_FP3DAYMAP001_PRIME	M, R, U, V	2004-163T20:28:37	LMB_E000_Phoebe+000T00:55:00	000T00:15:00	2004-163T20:43:37	ISS_NAC to Phoebe	NEG_X to 5.5/-78.7	SNER-3
ISS_000PH_MEDRESD001_PRIME	C, R, U, V	2004-163T20:43:37	LMB_E000_Phoebe+000T01:10:00	000T00:10:00	2004-163T20:53:37	ISS_NAC to Phoebe	NEG_X to 0.0/0.0	
CIRS_000PH_FP3NITMAP002_PRIME	R, U, V	2004-163T20:53:37	LMB_E000_Phoebe+000T01:20:00	000T00:39:00	2004-163T21:32:37	ISS_NAC to Phoebe	NEG_X to 5.5/-78.7	SNER-3
RADAR_000PH_2SCATTRAD001_PRIME		2004-163T21:33:37	LMB_E000_Phoebe+000T02:00:00	000T01:28:00	2004-163T23:01:37	NEG_Z to Phoebe	NEG_X to 283.6/50.6	pick up at ISS_NAC to Phoebe, NEG_X to 5.5/78.7; hand off at NEG_Z to Phoebe, NEG_X to 283.6/50.6. RADAR must control primary and secondary axes to obtain correct polarization.
RADAR_000PH_2SCATTRAD002_PRIME		2004-163T23:01:37	LMB_E000_Phoebe+000T03:28:00	000T02:47:00	2004-164T01:48:37	NEG_Z to Phoebe	NEG_X to 284.9/51.7	pick up at NEG_Z to Phoebe, NEG_X to 283.6/50.6; hand off at NEG_Z to Sun, POS_Y to NSP, RADAR must control primary and
End Custom			LMB_E000_Phoebe+000T06:15:00					
SP_000NA_DEADTIME164_PRIME		2004-164T01:48:37		000T00:20:00	2004-164T02:08:37	NEG_Z to Sun	POS_Y to NSP	
SP_000PH_WAYPTTURN164_PRIME		2004-164T02:08:37		000T00:24:23	2004-164T02:33:00	ISS_NAC to Phoebe	NEG_Z to NEP	21.2 min turn
NEW WAYPOINT		2004-164T02:33:00		000T19:59:00	2004-164T22:32:00	ISS_NAC to Phoebe	NEG_Z to NEP	
ISS_000PH_LOWRES2A001_PRIME	C, U, V	2004-164T02:33:00		000T00:16:00	2004-164T02:49:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV013_PRIME	U, V	2004-164T02:49:00		000T00:31:00	2004-164T03:20:00	ISS_NAC to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRES2B001_PRIME	C, U, V	2004-164T03:20:00		000T00:16:00	2004-164T03:36:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV014_PRIME	U, V	2004-164T03:36:00		000T00:31:00	2004-164T04:07:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2C001_PRIME	C, U, V	2004-164T04:07:00		000T00:16:00	2004-164T04:23:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV015_PRIME	U, V	2004-164T04:23:00		000T00:31:00	2004-164T04:54:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2D001_PRIME	C, U, V	2004-164T04:54:00		000T00:16:00	2004-164T05:10:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV016_PRIME	U, V	2004-164T05:10:00		000T00:31:00	2004-164T05:41:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2E001_PRIME	C, U, V	2004-164T05:41:00		000T00:16:00	2004-164T05:57:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV017_PRIME	U, V	2004-164T05:57:00		000T00:31:00	2004-164T06:28:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5

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ISS_000PH_LOWRES2F001_PRIME	C, U, V	2004-164T06:28:00		000T00:16:00	2004-164T06:44:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV018_PRIME	U, V	2004-164T06:44:00		000T00:31:00	2004-164T07:15:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2G001_PRIME	C, U, V	2004-164T07:15:00		000T00:16:00	2004-164T07:31:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV019_PRIME	U, V	2004-164T07:31:00		000T00:31:00	2004-164T08:02:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2H001_PRIME	C, U, V	2004-164T08:02:00		000T00:16:00	2004-164T08:18:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV020_PRIME	U, V	2004-164T08:18:00		000T00:31:00	2004-164T08:49:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2I001_PRIME	C, U, V	2004-164T08:49:00		000T00:16:00	2004-164T09:05:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV021_PRIME	U, V	2004-164T09:05:00		000T00:31:00	2004-164T09:36:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2J001_PRIME	C, U, V	2004-164T09:36:00		000T00:16:00	2004-164T09:52:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV022_PRIME	U, V	2004-164T09:52:00		000T00:31:00	2004-164T10:23:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2K001_PRIME	C, U	2004-164T10:23:00		000T00:16:00	2004-164T10:39:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV023_PRIME	U	2004-164T10:39:00		000T00:31:00	2004-164T11:10:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
ISS_000PH_LOWRES2L001_PRIME	C, U	2004-164T11:10:00		000T00:16:00	2004-164T11:26:00	ISS_NAC to Phoebe	NEG_Z to NEP	
CIRS_000PH_FP13LTCRV024_PRIME	U	2004-164T11:26:00		000T00:44:00	2004-164T12:10:00	ISS_NAC to Phoebe	POS_Z to NEP	SNER-5
NAV_000SK_OPNAV640_PRIME		2004-164T12:10:00		000T01:21:00	2004-164T13:31:00	ISS_NAC to Satellites	POS_Z to NEP	Starts at waypoint, ends at Earth point
NAV_000EA_DLTURN640_PRIME		2004-164T13:31:00		000T00:01:00	2004-164T13:32:00	XBAND to Earth	NEG_Y to Saturn	
SP_000EA_M70METOPN164_PRIME	C	2004-164T13:32:00		000T02:28:00	2004-164T16:00:00	XBAND to Earth	Rolling	
SP_000EA_G70METOPN164_PRIME	C	2004-164T16:00:00		000T06:32:00	2004-164T22:32:00	XBAND to Earth	Rolling	

SSR MANAGEMENT TOOL (SMT) VERSION: SMT-V02-D9.0.1
REPORT FOR rev00_PH_030717.apf
USING DICTIONARY FILE /cas/msspath/MSS.D9.0.2/base/mss_sw/smt/dict/dict.txt
AND SSR CONFIGURATION TABLE /cas/msspath/MSS.D9.0.2/base/mss_sw/smt/tables/double_ssr.conf

SELECTED SSR CONFIGURATION

TOTAL SPACE (Mb)	CONFIG TYPE (SSR_A/SSR_B/DOUBLE)	CONNECT TYPE (NORMAL/CROSS/NULL)	PINGPONG SPR-FRM (CDS TRNS-FRAMES)	P5 DEFAULT SIZE (CDS TRNS-FRAMES)	P6 SIZE (CDS TRNS-FRAMES)
4026	DOUBLE	NORMAL	400	10	25596

ACTIVITIES OUTSIDE EXECUTION PERIOD

ACTIVITY NAME	ACTIVITY TYPE	START TIME

SPECIAL ACTIVITIES REPORT

ACTIVITY NAME	ACTIVITY TYPE	START TIME	DATA CLASS	NOTIFICATION
NAV_000SK_OPNAV631_PRIME	ISS_Sats_1_by_1	2004-163T04:02:00.000	OPNAV	Processed as same as norm-sci
CDA_000PH_PHODUST001_PRIME	CDA_524	2004-163T19:18:37.000	HVS	
NAV_000SK_OPNAV640_PRIME	ISS_Sats_1_by_1	2004-164T12:10:00.000	OPNAV	

TELEMETRY MODE REPORT

SCET	TELEMETRY MODE	REQUEST
2004-163T04:02:00	S_N_ER_5	SP_000NA_M70OBSNON164_NA
2004-163T04:40:00	S_N_ER_5A	SP_000NA_M70OBSNON164_NA
2004-163T14:03:37	S_N_ER_8	SP_000NA_M70OBSNON164_NA
2004-163T15:34:37	S_N_ER_3	SP_000NA_M70OBSNON164_NA
2004-163T21:33:37	S_N_ER_8	SP_000NA_M70OBSNON164_NA
2004-164T01:48:37	S_N_ER_5	SP_000NA_M70OBSNON164_NA
2004-164T13:32:00	RTE_N_SPB_124425	SP_000EA_M70METOPN164_PRIME
2004-164T15:37:00	RTE_N_SPB_110600	SP_000EA_M70METOPN164_PRIME
2004-164T16:00:00	RTE_N_SPB_110600	SP_000EA_G70METOPN164_PRIME
2004-164T16:22:00	RTE_N_SPB_124425	SP_000EA_G70METOPN164_PRIME

OPNAV TELEMETRY MODE REPORT

OPNAV REQUEST	START TIME	TELEMETRY MODE	OBSERVATION PERIOD
NAV_000SK_OPNAV631_PRIME	2004-163T04:02:00.000	S_N_ER_5	SP_000NA_M70OBSNON164_NA
NAV_000SK_OPNAV640_PRIME	2004-164T12:10:00.000	S_N_ER_5	SP_000NA_M70OBSNON164_NA

DATA VOLUME SUMMARY

DOWNLINK PASS NAME	OBSERVATION PERIOD										DOWNLINK_PASS								
	Start		End		P4					P5	RECORDED		PLAYBACK						
	doy	hh:mm	doy	hh:mm	START	SCI	HK+E	TOTAL	CPACTY	MARGIN	OPNAV	SCI	ENGR	TOTAL	CPACTY	MARGIN	CAROVR		
				(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(%)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(%)	(Mb)		
SP_000EA_M70METOPN164_PRIME	164	13:32	164	16:00	0	3079	116	3195	3529	334	9%	20	60	15	3290	891	-2399	-269%	2399
SP_000EA_G70METOPN164_PRIME	164	16:00	164	22:32	2399	0	0	2399	3529	1130	32%	0	91	39	2528	2452	-76	-3%	76

SSR PARTITION SIZE SUMMARY - SELECTED SSR CONFIGURATION: DOUBLE

SSR A/B			
OBSERVATION PERIOD	P4 Size (Frames)	P5 Size (Frames)	P6 Size (Frames)
SP_000NA_M70OBSNON164_NA	200700	2454	25596

DATA VOLUME REPORT

Event	Start doy hh:mm	End doy hh:mm	CAPS (Mb)	CDA (Mb)	CIRS (Mb)	INMS (Mb)	ISS (Mb)	MAG (Mb)	MIMI (Mb)	RADAR (Mb)	RPWS (Mb)	UVIS (Mb)	VIMS (Mb)	PROBE (Mb)	ENGR (Mb)	TOTAL (Mb)
OBSERVATION_NOR	163 04:02	164 13:32	139.5	49.1	340.1	16.5	966.9	92.2	93.7	291.6	363.3	409.7	316.4	0.0	0.0	3078.8
OBSERVATION_OPN	163 04:02	164 13:32	0.0	0.0	0.0	0.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6
SP_000EA_M70METOPN164_PRIME	164 13:32	164 16:00	6.2	1.3	28.8	0.4	0.0	5.3	6.7	0.0	11.6	0.0	0.0	0.0	0.0	60.4
SP_000EA_G70METOPN164_PRIME	164 16:00	164 22:32	16.5	3.5	7.2	1.2	0.0	14.1	17.6	0.0	30.8	0.0	0.0	0.0	0.0	90.9
DAILY TOTAL SCIENCE	163 04:02	164 22:32	162.2	54.0	376.1	18.1	966.9	111.6	118.0	291.6	405.7	409.7	316.4	0.0		

	CAPS (Mb)	CDA (Mb)	CIRS (Mb)	INMS (Mb)	ISS (Mb)	MAG (Mb)	MIMI (Mb)	RADAR (Mb)	RPWS (Mb)	UVIS (Mb)	VIMS (Mb)	PROBE (Mb)
TOTAL RECORDED (OPNAV data not included)	162.2	54.0	376.1	18.1	966.9	111.6	118.0	291.6	405.7	409.7	316.4	0.0

AVERAGE DATA RATE REPORT (calculated over observation periods and downlink passes)

Event	Start doy hh:mm	End doy hh:mm	CAPS (bps)	CDA (bps)	INMS (bps)	MAG (bps)	MIMI (bps)	RPWS (bps)	UVIS (bps)
SP_000NA_M70OBSNON164_NA	163 04:02	164 13:32	1156.7	407.2	136.4	764.3	777.2	3012.1	3396.9
SP_000EA_M70METOPN164_PRIME	164 13:32	164 16:00	700.0	149.9	50.0	600.0	750.0	1310.0	0.0
SP_000EA_G70METOPN164_PRIME	164 16:00	164 22:32	700.0	149.9	50.0	600.0	750.0	1310.0	0.0

DATA POLICING TABLES

Event	Start doy hh:mm	End doy hh:mm	CAPS (Pkts)	CDA (Pkts)	CIRS (Pkts)	INMS (Pkts)	ISS (Pkts)	MAG (Pkts)	MIMI (Pkts)	RADAR (Pkts)	RPWS (Pkts)	UVIS (Pkts)	VIMS (Pkts)	DPT #
OBSERVATION_NOR	163 04:02	164 13:32	17500	11800	42600	4900	127000	11700	11800	38400	47700	47100	53800	1
OBSERVATION_OPN	163 04:02	164 13:32	0	0	0	0	2600	0	0	0	0	0	0	1/90
SP_000EA_M70METOPN164_PRIME	164 13:32	164 16:00	800	400	3600	200	0	700	900	0	1600	0	0	2
SP_000EA_G70METOPN164_PRIME	164 16:00	164 22:32	2100	900	900	400	0	1800	2300	0	4100	0	0	3

CASSINI DSN COVERAGE SUMMARY for rev00_PH_030709_v3.apf generated on 2003-Jul-09 13:02:26
 (+ = pass overlaps with previous pass; * = in conflict with DSN weekly maintenance)

C ANT	ID	BOT_TO_EOT ERT	DUR hh:mm	XMT_AT ERT	2WAY_PERIOD ERT	DUR hh:mm	DL_PERIOD ERT	DL_PERIOD SCET	DUR hh:mm	NOT CALS min	RADIO_CONFIG UD D UD MAR	DATA_RATES kbps
M	70MET 63	164T12:05-17:25	05:20	164T12:15	15:01-17:23	02:22	164T14:55-17:23	164T13:32-16:00	02:28	OPN 15/15 XX - -- --0		124,110
+G	70MET 14	164T17:20-23:55	06:35	164T17:30	20:16-23:55	03:39	164T17:23-23:55	164T16:00-22:32	06:32	OPN 15/15 XX - -- --0		110,124

TWT/OST Integration Constraint and Guideline Checklist

Below are Target Working Team (TWT) and Orbiter Science Team (OST) constraints that must be followed during segment implementation. Any exceptions to constraint numbers 3, 4, 6, or 7 must be approved by the Science Planning Manager.

Constraint	C=Comply V=Violate N/A=Not Applicable	Comments	Disposition
1. A. SP has checked all waypoints turns to and from waypoints. B. All initial downlink attitudes have been checked as waypoints.	C		
2. All turns to and from waypoints checked for violations and margins. <input type="checkbox"/> CAPS <input type="checkbox"/> CDA <input type="checkbox"/> CIRS <input type="checkbox"/> INMS <input type="checkbox"/> ISS <input type="checkbox"/> MIMI <input type="checkbox"/> MAG <input type="checkbox"/> NAV <input type="checkbox"/> RADAR <input type="checkbox"/> RPWS <input type="checkbox"/> RSS <input type="checkbox"/> UVIS <input type="checkbox"/> VIMS Each Prime Instrument agrees to accept a reduction in observation time during implementation if problems arise.		SOST agreement that all teams are OK	
3. Custom handoffs limited to: A. ± 3 hours from targeted Icy Satellite flyby B. ± 3 hours from targeted Titan Flyby C. OpNavs preceding/following a downlink			
	V	custom period is Ph-05:30 - Ph+06:15	
4. Minimum 30 min SPASS Prime request duration outside ±5 hours from targeted satellite flyby (5 min. integer duration if >30 min.)	N/A		
5. Live and Ground Movable Blocks include appropriate time margins.	C	many requests are not in 5 min chunks because this flyby was integrated prior to this rule	
6. Waypoints changes are ≤3 per day A. All turns that accomplish the waypoint strategy are requested by SP or OpNav.	C	K. Klaasen's margin for flyby Phoebe is 20 min. according to memo dated .	
7. Live Movable Blocks limited to the following orbits: 7, 8, 9, 10, 12, 28, 51, 56, 57, 60, 63, 64	C		
	C		
	N/A		

Guideline	Yes / No	Comments
1. Were repeatable/reusable templates used where possible?		

Issues

- Waypoints have been checked and are safe.
- The details of the double playback of data during critical period are as follows:
 - The critical period is Phoebe-02:05 - Phoebe+06:15
 - The data volume put on SSR A prior to the critical period is 1127 Mb.
 - The data volume during the critical period is 1502 Mb
 - The critical period data volume on SSR A is 605 Mb
 - The critical period data volume of SSR B is 897 Mb
 - The data volume put on SSR B after the critical period is 715 Mb (this includes 76 Mb of carryover data at end of SOST segment)
 - The MAG TWT has allocated 2223 Mb of margin during the first pass for playback of SOST data. This accommodates $1502+715 (=2217)$ Mb).
- The CDS commands that should be issued are:
 - Snap R pointer on A at Phoebe-02:05 (“global 750”)
 - At the end of the SOST segment, restore PB pointer on A to “global 750”, and set PB pointer on B to zero.