

This file is a list of all planned icy Satellite observation by the Cassini spacecraft from Prime Mission to End of Mission, in SPASS format.

Notes on Cassini "SPASS" format (Science Planning Attitude Strategy Spreadsheet):

Request name is Prime instrument, REV#, target, observation name, instance, prime vs rider. For target list see the Moons list

Rider is which other instruments were also taking data. C=CRS, I=ISS, U=UVIS, V=VIMS, M=one or more fields & particles instrument (although, they were all on all the time), and R=either RSS or RADAR, in warmup mode

Start time & end time (SCET) are in spacecraft event time. Start time can also be an epoch. GMB=Ground Movable Block, LMB = Live Movable Block

Primary is primary pointing of the spacecraft, both which body vector and which target (Instrument boresights are along -Y which is nearly the same as ISS\_NAC and the UVIS/CRS/VIMS boresights)

Secondary pointing describes the rotation of the spacecraft around the primary, boresight and direction (approximately)

The corresponding PDF version is color coded by instrument

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
SOST rev 0 Segment		2004-163T04:02:00		001T18:30:00	2004-164T22:32:00			
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	
<b>NEW WAYPOINT</b>		<b>2004-163T04:40:00</b>		<b>000T09:03:00</b>	<b>2004-163T13:43:00</b>	<b>ISS_NAC to Phoebe</b>	<b>POS_Z to NEP</b>	
GRS_000PH_FP13LTCRV004_PRIME	U	2004-163T04:40:00		000T00:43:00	2004-163T05:23:00	GRS FP1 to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRRES0001_PRIME	C,U	2004-163T05:23:00		000T00:16:00	2004-163T05:39:00	ISS_NAC to Phoebe	POS_Z to NEP	S N ER -5a
GRS_000PH_FP13LTCRV005_PRIME	U	2004-163T05:39:00		000T02:52:00	2004-163T08:31:00	GRS FP1 to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRRES1A001_PRIME	C,U	2004-163T08:31:00		000T00:16:00	2004-163T08:47:00	ISS_NAC to Phoebe	POS_Z to NEP	S N ER -5a
GRS_000PH_FP13LTCRV006_PRIME	U,V	2004-163T08:47:00		000T00:31:00	2004-163T09:18:00	GRS FP1 to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRRES1B001_PRIME	C,U,V	2004-163T09:18:00		000T00:16:00	2004-163T09:34:00	ISS_NAC to Phoebe	POS_Z to NEP	S N ER -5a
GRS_000PH_FP13LTCRV007_PRIME	U,V	2004-163T09:34:00		000T00:31:00	2004-163T10:05:00	GRS FP1 to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRRES1C001_PRIME	C,U,V	2004-163T10:05:00		000T00:16:00	2004-163T10:21:00	ISS_NAC to Phoebe	POS_Z to NEP	S N ER -5a
GRS_000PH_FP13LTCRV008_PRIME	U,V	2004-163T10:21:00		000T00:31:00	2004-163T10:52:00	GRS FP1 to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRRES1D001_PRIME	C,R,U,V	2004-163T10:52:00		000T00:16:00	2004-163T11:08:00	ISS_NAC to Phoebe	POS_Z to NEP	S N ER -5a
GRS_000PH_FP13LTCRV009_PRIME	R,U,V	2004-163T11:08:00		000T00:31:00	2004-163T11:39:00	GRS FP1 to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRRES1E001_PRIME	C,R,U,V	2004-163T11:39:00		000T00:16:00	2004-163T11:55:00	ISS_NAC to Phoebe	POS_Z to NEP	S N ER -5a
GRS_000PH_FP13LTCRV010_PRIME	R,U,V	2004-163T11:55:00		000T00:31:00	2004-163T12:26:00	GRS FP1 to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRRES1F001_PRIME	C,R,U,V	2004-163T12:26:00		000T00:16:00	2004-163T12:42:00	ISS_NAC to Phoebe	POS_Z to NEP	S N ER -5a
GRS_000PH_FP13LTCRV011_PRIME	R,U,V	2004-163T12:42:00		000T00:31:00	2004-163T13:13:00	GRS FP1 to Phoebe	POS_Z to NEP	SNER-5a
ISS_000PH_LOWRRES1G001_PRIME	C,R,U,V	2004-163T13:13:00		000T00:05:00	2004-163T13:18:00	ISS_NAC to Phoebe	POS_Z to NEP	S N ER -5a
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
<b>NEW WAYPOINT</b>		<b>2004-163T13:43:00</b>		<b>000T12:50:00</b>	<b>2004-164T02:33:00</b>	<b>NEG_Z to Sun</b>	<b>POS_Y to NSP</b>	
SP_000NA_DEADTIME163_PRIME	R	2004-163T13:43:00		000T00:20:00	2004-163T14:03:00	NEG_Z to Sun	POS_Y to NSP	
<b>Begin Custom</b>		<b>2004-163T14:03:37</b>	<b>LMB_E000_Phoebe-000T05:30:00</b>	<b>000T00:01:00</b>	<b>2004-163T14:04:37</b>			
RADAR_000PH_SCATTRAD001_PRIME	U,V	2004-163T14:03:37	LMB_E000_Phoebe-000T05:30:00	000T01:31:00	2004-163T15:34:37	NEG_Z to Phoebe (-1.0,-0.659,0.0 deg. offset)	POS_X to SC_RAM	Pick up at NEG_Z to Sun, POS_Y to NSP; Hand off at NEG_Z to Phoebe, POS_X to SC_RAM.
ISS_000PH_LOWRRES1J001_PRIME	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 NEG_Z to Phoebe, POS_X to SC_RAM; Hand off at ISS_NAC to Phoebe, POS_Z to NEP. pick up at RADAR attitude
GRS_000PH_FP3REGION100_PRIME	U,V	2004-163T16:10:37	LMB_E000_Phoebe-000T03:23:00	000T00:31:00	2004-163T16:41:37	GRS FP3 to Phoebe	POS_Z to NEP	Pick up at ISS_NAC to Phoebe, POS_Z to NEP; Hand off at ISS_NAC to Phoebe, POS_Z to NEP. SNER-3
ISS_000PH_LOWRRES1K001_PRIME	C,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	Pick up at ISS_NAC to Phoebe, POS_Z to NEP; Hand off at ISS_NAC to Phoebe, POS_Z to NEP. S_N_ER_-3
GRS_000PH_FP3REGION001_PRIME	U,V	2004-163T16:57:37	LMB_E000_Phoebe-000T02:36:00	000T00:31:00	2004-163T17:28:37	GRS FP3 to Phoebe	POS_Z to NEP	Pick up at ISS_NAC to Phoebe, POS_Z to NEP; Hand off at ISS_NAC to Phoebe, POS_Z to NEP. SNER-3
ISS_000PH_LOWRRES1L001_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	Pick up at ISS_NAC to Phoebe, POS_Z to NEP; Hand off at ISS_NAC to Phoebe, POS_Z to NEP. S_N_ER_-3
GRS_000PH_FP3REGION003_PRIME	U,V	2004-163T17:43:37	LMB_E000_Phoebe-000T01:50:00	000T00:20:00	2004-163T18:03:37	GRS FP3 to Phoebe	POS_Z to NEP	Pick up at ISS_NAC to Phoebe, POS_Z to NEP; Hand off at ISS_NAC to Phoebe, POS_Z to NEP. SNER-3
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	Pick up at ISS_NAC to Phoebe, POS_Z to NEP; Hand off at ISS_NAC to Phoebe, POS_Z to NEP. S_N_ER_-3
GRS_000PH_FP3EVMAP001_PRIME	C,U,V	2004-163T18:11:37	LMB_E000_Phoebe-000T01:22:00	000T00:13:00	2004-163T18:24:37	GRS FP3 to Phoebe	POS_Z to NEP	Pick up at ISS_NAC to Phoebe, POS_Z to NEP; Hand off at 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 North_Pole_Dir.
GRS_000PH_FP3NITMAP001_PRIME	M,R,U,V	2004-163T18:38:37	LMB_E000_Phoebe-000T00:55:00	000T00:12:00	2004-163T18:50:37	GRS FP3 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, 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	Pick up at ISS_NAC to Phoebe, POS_Z to North_Pole_Dir; Hand off at ISS_NAC to Phoebe, POS_Z to North_Pole_Dir. S_N_ER_-3
GRS_000PH_FP3NITMAP001_PRIME	M,R,U,V	2004-163T19:11:37	LMB_E000_Phoebe-000T00:22:00	000T00:10:00	2004-163T19:21:37	GRS FP1 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, POS_Z to North_Pole_Dir. SNER-3
ISS_000PH_HIRES001_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, NEG_X to 5.5/-78.7.
GRS_000PH_FP3DAYMAP001_PRIME	M,R,U,V	2004-163T20:28:37	LMB_E000_Phoebe+000T00:55:00	000T00:15:00	2004-163T20:43:37	GRS FP3 to Phoebe	NEG_X to 5.5/-78.7	Pick up at ISS_NAC to Phoebe, NEG_X to 5.5/-78.7; Hand off at ISS_NAC to Phoebe, NEG_X to 5.5/-78.7. SNER-3
ISS_000PH_MEDRES001_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 5.5/-78.7	Pick up at ISS_NAC to Phoebe, NEG_X to 5.5/-78.7; Hand off at ISS_NAC to Phoebe, NEG_X to 5.5/-78.7. SNER-3
GRS_000PH_FP3NITMAP002_PRIME	R,U,V	2004-163T20:53:37	LMB_E000_Phoebe+000T01:20:00	000T00:39:00	2004-163T21:32:37	GRS FP3 to Phoebe	NEG_X to 5.5/-78.7	Pick up at ISS_NAC to Phoebe, NEG_X to 5.5/-78.7; Hand off at ISS_NAC to Phoebe, NEG_X to 5.5/-78.7. SNER-3
RADAR_000PH_ZSCATTRAD001_PRIME		2004-164T01:33:37	LMB_E000_Phoebe+000T02:00:00	000T04:15:00	2004-164T01:48:37	NEG_Z to Phoebe	POS_X to NSP	Pick up at ISS_NAC to Phoebe, NEG_X to 5.5/-78.7; Hand off at NEG_Z to Sun, POS_Y to NSP.
<b>End Custom</b>		<b>2004-164T01:48:37</b>	<b>LMB_E000_Phoebe+000T06:15:00</b>	<b>000T00:01:00</b>	<b>2004-164T01:49:37</b>			
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		000T00:24:15	2004-164T02:33:00	ISS_NAC to Phoebe	NEG_Z to NEP	21.2 min turn
<b>NEW WAYPOINT</b>		<b>2004-164T02:33:00</b>		<b>000T21:17:00</b>	<b>2004-164T23:50:00</b>	<b>ISS_NAC to Phoebe</b>	<b>NEG_Z to NEP</b>	
ISS_000PH_LOWRRES2A001_PRIME	C,U,V	2004-164T02:33:00		000T00:16:00	2004-164T02:49:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV013_PRIME	U,V	2004-164T02:49:00		000T00:31:00	2004-164T03:20:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2B001_PRIME	C,U,V	2004-164T03:20:00		000T00:16:00	2004-164T03:36:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV014_PRIME	U,V	2004-164T03:36:00		000T00:31:00	2004-164T04:07:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2C001_PRIME	C,U,V	2004-164T04:07:00		000T00:16:00	2004-164T04:23:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV015_PRIME	U,V	2004-164T04:23:00		000T00:31:00	2004-164T04:54:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2D001_PRIME	C,U,V	2004-164T04:54:00		000T00:16:00	2004-164T05:10:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV016_PRIME	U,V	2004-164T05:10:00		000T00:31:00	2004-164T05:41:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2E001_PRIME	C,U,V	2004-164T05:41:00		000T00:16:00	2004-164T05:57:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV017_PRIME	U,V	2004-164T05:57:00		000T00:31:00	2004-164T06:28:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2F001_PRIME	C,U,V	2004-164T06:28:00		000T00:16:00	2004-164T06:44:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV018_PRIME	U,V	2004-164T06:44:00		000T00:31:00	2004-164T07:15:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2G001_PRIME	C,U,V	2004-164T07:15:00		000T00:16:00	2004-164T07:31:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV019_PRIME	U,V	2004-164T07:31:00		000T00:31:00	2004-164T08:02:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2H001_PRIME	C,U,V	2004-164T08:02:00		000T00:16:00	2004-164T08:18:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV020_PRIME	U,V	2004-164T08:18:00		000T00:31:00	2004-164T08:49:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2I001_PRIME	C,U,V	2004-164T08:49:00		000T00:16:00	2004-164T09:05:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV021_PRIME	U,V	2004-164T09:05:00		000T00:31:00	2004-164T09:36:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2J001_PRIME	C,U,V	2004-164T09:36:00		000T00:16:00	2004-164T09:52:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV022_PRIME	U,V	2004-164T09:52:00		000T00:31:00	2004-164T10:23:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2K001_PRIME	C,U	2004-164T10:23:00		000T00:16:00	2004-164T10:39:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV023_PRIME	U	2004-164T10:39:00		000T00:31:00	2004-164T11:10:00	GRS FP1 to Phoebe	NEG_Z to NEP	SNER-5
ISS_000PH_LOWRRES2L001_PRIME	C,U	2004-164T11:10:00		000T00:16:00	2004-164T11:26:00	ISS_NAC to Phoebe	NEG_Z to NEP	S N ER -5
GRS_000PH_FP13LTCRV024_PRIME	U	2004-164T11:26:00		000T00:44:00	2004-164T12:10:00	GRS FP1 to Phoebe	NEG_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_DLTRN640_PRIME		2004-164T13:31:00		000T00:01:00	2004-164T13:32:00	XBAND to Earth	NEG_Y to Saturn	
SP_000EA_M70METOPN164_PRIME		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	
SOST revs B/C Segment		2004-366T01:30:00		002T03:08:00	2005-002T04:38:00			
SP_000BIA_WAYPTTURN366_PRIME	M	2004-366T01:00:00		000T00:25:00	2004-366T01:25:00	XBAND to Earth (0.0,0.0,17		

NEW WAYPOINT		2004-366T01:53:00		001T13:07:00	2005-001T15:00:00	ISS_NAC to Iapetus	NEG_Z to NEP	
ISS_00BIA_GLOBCOLA001_PRIME	C, R, U	2004-366T01:53:00		000T00:42:00	2004-366T02:35:00	ISS_NAC to Iapetus	NEG_Z to NEP	
CIRS_00BIA_FP3MAP001_PRIME	R, U	2004-366T02:35:00		000T00:57:00	2004-366T03:32:00	CIRS_FP3 to Iapetus	NEG_Z to NEP	
VIMS_00BIA_COMPA001_PRIME	C, R, U	2004-366T03:32:00		000T00:57:00	2004-366T04:29:00	ISS_NAC to Iapetus	NEG_Z to NEP	None
RADAR_00BIA_SCATTRADL001_PRIME	M	2004-366T04:29:00		000T03:31:00	2004-366T08:00:00	NEG_Z to Iapetus	POS_X to North Pole Dir	RADAR must control both axes. PDT must be run before 2ndary axis can be det.
ISS_00CIA_LIMBTOPOB001_PRIME	C, M, U, V	2004-366T08:00:00		000T00:30:00	2004-366T08:30:00	ISS_NAC to Iapetus	NEG_Z to NEP	
SP_00CEA_DLTURN366_PRIME	M	2004-366T08:30:00		000T00:30:00	2004-366T09:00:00	XBAND to Earth	POS_X to NSP	20.7 min turn
SP_00CEA_G34HEFNON366_PRIME	M	2004-366T09:00:00		000T04:30:00	2004-366T13:30:00	XBAND to Earth	POS_X to NSP	
SP_00CIA_WAYPTTURN366_PRIME	M	2004-366T13:30:00		000T00:30:00	2004-366T14:00:00	ISS_NAC to Iapetus	NEG_Z to NEP	21.1 min turn; end D/L with +X to NEP
ISS_00CIA_GLOBMAPC001_PRIME	C, M, U, V	2004-366T14:00:00		000T00:30:00	2004-366T14:30:00	ISS_NAC to Iapetus	NEG_Z to NEP	
CIRS_00CIA_FP3DSKMAP001_PRIME	M, U	2004-366T14:30:00		000T04:00:00	2004-366T18:30:00	CIRS_FP3 to Iapetus	NEG_Z to NEP	
ISS_00CIA_LIMBTOPOD001_PRIME	C, M, U, V	2004-366T18:30:00		000T00:30:00	2004-366T19:00:00	ISS_NAC to Iapetus	NEG_Z to NEP	
VIMS_00CIA_COMPD001_PRIME	C, I, M, U	2004-366T19:00:00		000T02:00:00	2004-366T21:00:00	ISS_NAC to Iapetus	NEG_Z to NEP	None
CIRS_00CIA_FP13MAPS001_PRIME	M, U	2004-366T21:00:00		000T01:00:00	2004-366T22:00:00	CIRS_FP1 to Iapetus	NEG_Z to NEP	
ISS_00CIA_LIMBTOPE001_PRIME	C, M, U, V	2004-366T22:00:00		000T00:30:00	2004-366T22:30:00	ISS_NAC to Iapetus	NEG_Z to NEP	
VIMS_00CIA_COMPE001_PRIME	C, I, M, U	2004-366T22:30:00		000T02:00:00	2005-001T00:30:00	ISS_NAC to Iapetus	NEG_Z to NEP	Do offset to lat/lon -50/60 while ISS rides.
CIRS_00CIA_FP13MAPS002_PRIME	M, U, V	2005-001T00:30:00		000T00:30:00	2005-001T01:00:00	CIRS_FP1 to Iapetus	NEG_Z to NEP	
ISS_00CIA_GLOBMAPF001_PRIME	C, M, U, V	2005-001T01:00:00		000T01:00:00	2005-001T02:00:00	ISS_NAC to Iapetus	NEG_Z to NEP	
CIRS_00CIA_FP13MAPS003_PRIME	M, U	2005-001T02:00:00		000T02:00:00	2005-001T04:00:00	CIRS_FP1 to Iapetus	NEG_Z to NEP	
ISS_00CIA_GRAYLITEH001_PRIME	C, M, U	2005-001T04:00:00		000T01:00:00	2005-001T05:00:00	ISS_NAC to Iapetus	NEG_Z to NEP	
SP_00CEA_DLTURN001_PRIME	M	2005-001T05:00:00		000T00:30:00	2005-001T05:30:00	XBAND to Earth	POS_X to NEP	24.8 min turn
SP_00CEA_G70METUNQ001_PRIME	C, M	2005-001T05:30:00		000T06:00:00	2005-001T11:30:00	XBAND to Earth	POS_X to NEP	
SP_00CIA_WAYPTTURN001_PRIME	M	2005-001T11:30:00		000T00:30:00	2005-001T12:00:00	ISS_NAC to Iapetus	NEG_Z to NEP	23.6 min turn; end D/L with +X to NEP
CIRS_00CIA_FP13MAPS004_PRIME	M, R, U	2005-001T12:00:00		000T01:30:00	2005-001T13:30:00	CIRS_FP1 to Iapetus	NEG_Z to NEP	
ISS_00CIA_DUSTSEAR001_PRIME	M, R, U	2005-001T13:30:00		000T01:00:00	2005-001T14:30:00	ISS_NAC to Iapetus	NEG_Z to NEP	
SP_00CIA_WAYPTTURN401_PRIME	M, R	2005-001T14:30:00		000T00:30:00	2005-001T15:00:00	NEG_Z to Iapetus	NEG_X to North Pole Dir	safe WP; 21.9 min turn
NEW WAYPOINT		2005-001T15:00:00		000T09:08:00	2005-002T00:08:00	NEG_Z to Iapetus	NEG_X to North Pole Dir	
RADAR_00CIA_SCATTRADL001_PRIME	M	2005-001T15:00:00		000T08:45:00	2005-001T23:45:00	NEG_Z to Iapetus	NEG_X to North Pole Dir	PDT must be run before 2ndary axis can be precisely determined.
SP_00CEA_DLTURN401_PRIME	M	2005-001T23:45:00		000T00:23:00	2005-002T00:08:00	XBAND to Earth	NEG_X to NEP	
NEW WAYPOINT		2005-002T00:08:00		013T17:39:00	2005-015T17:47:00	XBAND to Earth	NEG_X to NEP	
SP_00CEA_M70METNON001_PRIME	C, M	2005-002T00:08:00		000T04:30:00	2005-002T04:38:00	XBAND to Earth	NEG_X to NEP	
SOST rev C Segment		2005-015T12:00:00		002T22:00:00	2005-018T10:00:00			
SP_00CEA_WAYPTTURN015_PRIME	M	2005-015T12:00:00		000T00:30:00	2005-015T12:30:00	XBAND to Earth	NEG_X to NEP	Roll about NEG_Z to match Waypoint Attitude
SP_00CMI_WAYPTTURN015_PRIME	M	2005-015T17:17:00		000T00:30:00	2005-015T17:47:00	ISS_NAC to Mimas (0.0,22.0,0.0 deg. offset)	POS_X to NSP	22.9 min turn from MAG TWI attitude; WP safe until 03-12
NEW WAYPOINT		2005-015T17:47:00		000T19:12:00	2005-016T12:59:00	ISS_NAC to Mimas (0.0,22.0,0.0 deg. offset)	POS_X to NSP	
CIRS_00CEN_FP3STARE002_PRIME	M, U, V	2005-015T17:47:00		000T00:33:00	2005-015T18:20:00	CIRS_FP3 to Enceladus	POS_X to NSP	
ISS_00CEN_PHOTOM001_PRIME	C, M, U, V	2005-015T18:20:00		000T01:00:00	2005-015T19:20:00	ISS_NAC to Enceladus	POS_X to NSP	
ISS_00CMI_PHOTOM001_PRIME	C, M, U, V	2005-015T19:20:00		000T02:30:00	2005-015T21:50:00	ISS_NAC to Mimas (0.0,20.0,0.0 deg. offset)	POS_X to NSP	
ISS_00CEN_PHOTOM002_PRIME	C, M, U, V	2005-015T21:50:00		000T02:15:00	2005-016T00:05:00	ISS_NAC to Enceladus	POS_X to NSP	
ISS_00CRH_REGGEODA001_PRIME	C, M, U, V	2005-016T00:05:00		000T01:00:00	2005-016T01:05:00	ISS_NAC to Rhea	POS_X to NSP	
VIMS_00CMI_MIMAS002_PRIME	C, I, M, U	2005-016T01:05:00		000T00:25:00	2005-016T01:30:00	ISS_NAC to Mimas (0.0,22.0,0.0 deg. offset)	POS_X to NSP	
UVIS_00CEN_ICYLON010_PRIME	C, I, M, V	2005-016T01:30:00		000T01:00:00	2005-016T02:30:00	ISS_NAC to Enceladus	POS_X to NSP	
VIMS_00CMI_MIMAS001_PRIME	C, I, M, U	2005-016T02:30:00		000T00:27:00	2005-016T02:57:00	ISS_NAC to Mimas (0.0,22.0,0.0 deg. offset)	POS_X to NSP	
SP_00CEA_DLTURN016_PRIME	M	2005-016T02:57:00		000T00:23:00	2005-016T03:20:00	XBAND to Earth	NEG_X to NEP	20.9 min turn
SP_00CEA_G34BWGOTP016_PRIME	M, N	2005-016T03:20:00		000T09:00:00	2005-016T12:20:00	XBAND to Earth	NEG_X to NEP	OTM-11
SP_00CMI_WAYPTTURN016_PRIME	M	2005-016T12:20:00		000T00:23:00	2005-016T12:43:00	ISS_NAC to 250.0/-50.0	NEG_Z to NSP	split turn; 20.9 min turn
SP_00CMI_WAYPTTURN416_PRIME	M	2005-016T12:43:00		000T00:16:00	2005-016T12:59:00	ISS_NAC to Mimas	NEG_Z to NSP	13.4 min turn; safe WP
NEW WAYPOINT		2005-016T12:59:00		000T03:10:00	2005-016T16:09:00	ISS_NAC to Mimas	NEG_Z to NSP	
VIMS_00CMI_MIMAS007_PRIME	C, I, M, U	2005-016T12:59:00		000T00:57:00	2005-016T13:56:00	ISS_NAC to Mimas	NEG_Z to NSP	
UVIS_00CEN_ICYLON015_PRIME	C, I, M, V	2005-016T13:56:00		000T01:04:00	2005-016T15:00:00	ISS_NAC to Enceladus	POS_X to NSP	
VIMS_00CMI_MIMAS008_PRIME	C, I, U	2005-016T15:00:00		000T00:32:00	2005-016T15:32:00	ISS_NAC to Mimas	NEG_Z to NSP	
SP_00CRH_WAYPTTURN016_PRIME	C	2005-016T15:32:00		000T00:37:00	2005-016T16:09:00	ISS_NAC to Rhea	POS_Z to NSP	34 min turn; safe WP
NEW WAYPOINT		2005-016T16:09:00		000T20:51:00	2005-017T13:00:00	ISS_NAC to Rhea	POS_Z to NSP	
ISS_00CRH_REGGEODC001_PRIME	C, U, V	2005-016T16:09:00		000T00:16:00	2005-016T16:25:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_00CRH_FP1DAYMAP001_PRIME	U, V	2005-016T16:25:00		000T02:15:00	2005-016T18:40:00	CIRS_FP1 to Rhea	POS_Z to NSP	
ISS_00CRH_REGGEODD001_PRIME	C, U, V	2005-016T18:40:00		000T00:15:00	2005-016T18:55:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_00CRH_FP1FAZ0P5253_PRIME	U, V	2005-016T18:55:00		000T01:35:00	2005-016T20:30:00	CIRS_FP1 to Rhea	POS_Z to NSP	
ISS_00CRH_REGGEODE001_PRIME	C, U, V	2005-016T20:30:00		000T00:15:00	2005-016T20:45:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_00CRH_FP3DSKSCN003_PRIME	U, V	2005-016T20:45:00		000T01:35:00	2005-016T22:20:00	CIRS_FP3 to Rhea	POS_Z to NSP	
ISS_00CRH_REGGEODF001_PRIME	C, U, V	2005-016T22:20:00		000T00:15:00	2005-016T22:35:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_00CRH_FP3DSKSCN004_PRIME	U, V	2005-016T22:35:00		000T01:45:00	2005-017T00:20:00	CIRS_FP3 to Rhea	POS_Z to NSP	
ISS_00CRH_REGGEODG001_PRIME	C, U, V	2005-017T00:20:00		000T00:15:00	2005-017T00:35:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_00CRH_FP3SCIN001_PRIME	U, V	2005-017T00:35:00		000T02:33:00	2005-017T03:08:00	CIRS_FP3 to Rhea	POS_Z to NSP	
SP_00CEA_DLTURN017_PRIME	M	2005-017T03:08:00		000T00:22:00	2005-017T03:30:00	XBAND to Earth	NEG_X to NEP	10.8 min turn
SP_00CEA_G70METOTB017_PRIME	N	2005-017T03:30:00		000T09:00:00	2005-017T12:30:00	XBAND to Earth	NEG_X to NEP	OTM-11 backup
SP_00CIA_WAYPTTURN017_PRIME	M	2005-017T12:30:00		000T00:30:00	2005-017T13:00:00	ISS_NAC to Saturn	POS_X to NSP	22.2 min turn from -X to NEP; safe WP
NEW WAYPOINT		2005-017T13:00:00		000T22:00:00	2005-018T11:00:00	ISS_NAC to Saturn	POS_X to NSP	
ISS_00CMI_LONPHA001_PRIME	U	2005-017T13:00:00		000T01:00:00	2005-017T14:00:00	ISS_NAC to Mimas	POS_X to NSP	
ISS_00CDI_094W10SPHO01_PRIME	C, U	2005-017T14:00:00		000T01:00:00	2005-017T15:00:00	ISS_NAC to Dione	POS_X to NSP	
ISS_00CTE_LONPHA001_PRIME	C, U	2005-017T15:00:00		000T00:45:00	2005-017T15:45:00	ISS_NAC to Tethys	POS_X to NSP	
ISS_00CEN_LONPHA001_PRIME	U	2005-017T15:45:00		000T00:45:00	2005-017T16:30:00	ISS_NAC to Enceladus	POS_X to NSP	
ISS_00CTE_094W109PH001_PRIME	C, U	2005-017T16:30:00		000T00:50:00	2005-017T17:20:00	ISS_NAC to Tethys	POS_X to NSP	
ISS_00CMI_LONPHA002_PRIME	U	2005-017T17:20:00		000T00:40:00	2005-017T18:00:00	ISS_NAC to Mimas	POS_X to NSP	
UVIS_00CSA_AURORA001_PRIME	U	2005-017T18:00:00		000T02:00:00	2005-017T20:00:00	ISS_NAC to Saturn	POS_X to NSP	
ISS_00CMI_310W121PH001_PRIME	U	2005-017T20:00:00		000T00:45:00	2005-017T20:45:00	ISS_NAC to Mimas	POS_X to NSP	
ISS_00CMI_LONPHA003_PRIME	U	2005-017T20:45:00		000T00:45:00	2005-017T21:30:00	ISS_NAC to Mimas	POS_X to NSP	
ISS_00CEN_LONPHA002_PRIME	U	2005-017T21:30:00		000T00:40:00	2005-017T22:10:00	ISS_NAC to Enceladus	POS_X to NSP	
ISS_00CTE_LONPHA002_PRIME	C, U	2005-017T22:10:00		000T00:30:00	2005-017T22:40:00	ISS_NAC to Tethys	POS_X to NSP	
UVIS_00CRI_IMPACT001_PRIME	I, V	2005-017T22:40:00		000T02:00:00	2005-018T00:40:00	UVIS_HSP to Rings	POS_X to NSP	
SP_00CEA_DLTURN018_PRIME	M	2005-018T00:40:00		000T00:30:00	2005-018T01:10:00	XBAND to Earth	POS_X to NSP	26.4 min turn
SP_00CEA_G70METNON018_PRIME	C	2005-018T01:10:00		000T08:49:00	2005-018T10:00:00	XBAND to Earth	Rolling/SRU	CIRS DSCAL
SOST rev 3 Segment E0		2005-047T09:00:00		001T23:43:00	2005-049T08:43:00			
SP_003SA_WAYPTTURN047_PRIME	M	2005-047T09:00:00		000T00:20:00	2005-047T09:20:00	ISS_NAC to Saturn	POS_X to NSP	17.6 min turn
NEW WAYPOINT		2005-047T09:20:00		000T08:23:39	2005-047T17:43:39	ISS_NAC to Saturn	POS_X to NSP	
CIRS_003RF_FMOVIEA001_PRIME	M, V	2005-047T09:20:00		000T04:35:00	2005-047T13:55:00	CIRS_FP1 to Rings	POS_X to NSP	
ISS_003EN_GEOLOG001_PRIME	C, M, U, V	2005-047T13:55:00		000T00:40:00	2005-047T14:35:00	ISS_NAC to Enceladus	POS_X to NSP	
CIRS_003RF_FMOVIEA002_PRIME	M, R, V	2005-047T14:35:00		000T01:14:00	2005-047T15:49:00	CIRS_FP1 to Rings	POS_X to NSP	
ISS_003EN_GEOLOG002_PRIME	C, M, R, U, V	2005-047T15:49:00		000T00:40:00	2005-047T16:29:00	ISS_NAC to Enceladus	POS_X to NSP	
ISS_003EN_GEOLOG003_PRIME	C, M, R, U, V	2005-047T16:29:00		000T00:30:00	2005-047T16:59:00	ISS_NAC to Enceladus	POS_X to NSP	stare for CIRS

SP_003NA_DEADTIME047_PRIME	M, R	2005-047T16:59:00			00000:20:29	2005-047T17:19:29	ISS_NAC to Saturn	POS_X to NSP	
SP_003EA_DLTURN047_PRIME	M, R	2005-047T17:19:29	GMB_E003	Enceladus-000T10:11:00	00000:19:00	2005-047T17:38:29	XBAND to Earth (0.0,-10.0,0.0 deg. offset)	NEG_X to 204.0/2.5	SP performs downlink turn and set up for RSS attitude.
SP_003EA_DLTURN447_PRIME	M	2005-047T17:38:29	GMB_E003	Enceladus-000T09:52:00	00000:05:10	2005-047T17:43:39	XBAND to Earth	NEG_X to 204.0/2.5	2nd part of two-part turn
<b>NEW WAYPOINT</b>		<b>2005-047T17:43:39</b>			<b>00000:54:50</b>	<b>2005-047T22:38:29</b>	<b>XBAND to Earth</b>	<b>NEG_X to 204.0/2.5</b>	
SP_003EA_M34BWGRSS047_PRIME	M, R	2005-047T17:43:39	GMB_E003	Enceladus-000T09:46:50	00004:06:50	2005-047T21:50:29	XBAND to Earth	NEG_X to 204.0/2.5	Enceladus mass determination
SP_003DR_RAMAVOID047_PRIME	M	2005-047T21:50:29	GMB_E003	Enceladus-000T05:40:00	00000:30:00	2005-047T22:20:29	NEG_Z to Dust_RAM (0,0,0,0,35.0 deg. offset)	NEG_X to 237.84/33.54	26.6 min turn
SP_003DR_RAMAVOID047_PRIME	M	2005-047T22:20:29	GMB_E003	Enceladus-000T05:10:00	00000:18:00	2005-047T22:38:29	NEG_Z to Dust_RAM	NEG_X to 237.84/33.54	Second Part of RAMAVOID Turn
<b>NEW WAYPOINT</b>		<b>2005-047T22:38:29</b>			<b>00001:32:00</b>	<b>2005-048T00:10:29</b>	<b>NEG_Z to Dust_RAM</b>	<b>NEG_X to 237.84/33.54</b>	
MP_003DR_DUSTHAZRD001_PRIME	M	2005-047T22:38:29	GMB_E003	Enceladus-000T04:52:00	00000:49:16	2005-047T23:07:54	NEG_Z to Dust_RAM	NEG_X to 237.84/33.54	22:32 to 23:30 bare bones OK
SP_003EN_WAYPTTURN447_PRIME	M, V	2005-047T23:36:29	GMB_E003	Enceladus-000T05:54:00	00000:29:30	2005-048T00:05:59	ISS_NAC to Saturn (0.0,-8.0,0.0 deg. offset)	POS_X to NSP	17.5 min turn
SP_003EN_WAYPTTURN547_PRIME	M, V	2005-048T00:05:59	GMB_E003	Enceladus-000T03:24:30	00000:04:30	2005-048T00:10:29	ISS_NAC to Saturn	POS_X to NSP	
<b>NEW WAYPOINT</b>		<b>2005-048T00:10:29</b>			<b>00002:32:31</b>	<b>2005-048T23:43:00</b>	<b>ISS_NAC to Saturn</b>	<b>POS_X to NSP</b>	
<b>Begin Custom</b>		<b>2005-048T00:15:29</b>	<b>GMB_E003</b>	<b>Enceladus-000T03:15:00</b>	<b>00000:01:00</b>	<b>2005-048T00:16:29</b>	<b>ISS_NAC to Saturn</b>	<b>POS_X to NSP</b>	
CIRS_003EN_FP1FP3MAP001_PRIME	M, U, V	2005-048T00:15:29	GMB_E003	Enceladus-000T03:15:00	00001:15:00	2005-048T01:30:29	CIRS_FP1 to Enceladus	NEG_X to 198.0/-47.0	Pick up at ISS_NAC to Saturn, POS_X to NSP; Hand off at ISS_NAC to Enceladus, NEG_X to 198.0/-47.0.
Saturn periapse 003, r = 3...		2005-048T00:54:00			00000:00:01	2005-048T00:54:03			
VIMS_003EN_ENCELADUS006_PRIME	C, M, U	2005-048T01:30:29	GMB_E003	Enceladus-000T02:00:00	00000:45:00	2005-048T02:15:29	ISS_NAC to Enceladus	NEG_X to 198.0/-47.0	Pick up at ISS_NAC to Enceladus, NEG_X to 198.0/-47.0; Hand off at ISS_NAC to Enceladus, NEG_X to 198.0/-47.0.
ISS_003EN_LIMTOP004_PRIME	C, M, R, U, V	2005-048T02:15:29	GMB_E003	Enceladus-000T01:15:00	00000:50:00	2005-048T03:05:29	ISS_NAC to Enceladus	NEG_X to 198.0/-47.0	Pick up at ISS_NAC to Enceladus, NEG_X to 198.0/-47.0; Hand off at ISS_NAC to Enceladus, NEG_X to 198.0/-47.0.
<b>CDA_003EN_ENCDUST001_PRIME</b>	<b>I, M, R, U</b>	<b>2005-048T03:05:29</b>	<b>GMB_E003</b>	<b>Enceladus-000T03:25:00</b>	<b>00000:55:00</b>	<b>2005-048T04:00:29</b>	<b>NEG_Y to 263.4/-37.1</b>	<b>NEG_X to 62.3/-51.0</b>	<b>Pick up at ISS_NAC to Enceladus, NEG_X to 198.0/-47.0; Hand off at NEG_Y to 263.4/-37.1, NEG_X to 62.3/-51.0.</b>
CIRS_003EN_FP1DRKMAP001_PRIME	M, R, U, V	2005-048T04:00:29	GMB_E003	Enceladus+000T00:30:00	00001:00:00	2005-048T05:00:29	CIRS_FP1 to Enceladus	NEG_X to 62.3/-51.0	Pick up at NEG_Y to 263.4/-37.1, NEG_X to 62.3/-51.0; Hand off at CIRS_FP1 to Enceladus, NEG_X to 62.3/-51.0.
SP_003EA_DLTURN548_PRIME	M	2005-048T05:00:29	GMB_E003	Enceladus+000T01:30:00	00000:25:00	2005-048T05:25:29	XBAND to Earth	NEG_X to 223.0/40.8	Pick up at CIRS_FP1 to Enceladus, NEG_X to 62.3/-51.0; Hand off at XBAND to Earth, NEG_X to 223.0/40.8.
SP_003EA_G70METRS048_PRIME	M, R	2005-048T05:25:29	GMB_E003	Enceladus+000T01:55:00	00002:50:00	2005-048T08:15:29	XBAND to Earth	NEG_X to 223.0/40.8	Pick up at XBAND to Earth, NEG_X to 223.0/40.8; Hand off at XBAND to Earth, NEG_X to 223.0/40.8.
SP_003EN_WAYPTTURN448_PRIME	M	2005-048T08:15:29	GMB_E003	Enceladus+000T04:45:00	00000:15:00	2005-048T08:30:29	NEG_Z to Enceladus	POS_X to NSP	Pick up at XBAND to Earth, NEG_X to 223.0/40.8; Hand off at NEG_Z to Enceladus, POS_X to NSP.
<b>RADAR_003EN_SCATTRAD001_PRIME</b>	<b>M</b>	<b>2005-048T08:30:29</b>	<b>GMB_E003</b>	<b>Enceladus+000T05:00:00</b>	<b>00003:00:00</b>	<b>2005-048T11:30:29</b>	<b>NEG_Z to Enceladus</b>	<b>POS_X to NSP</b>	<b>Pick up at NEG_Z to Enceladus, POS_X to NSP; Hand off at NEG_Z to Enceladus, POS_X to NSP.</b>
ISS_003EN_PLUM001_PRIME	C, M, U	2005-048T11:30:29	GMB_E003	Enceladus+000T08:00:00	00001:14:26	2005-048T12:44:55	ISS_NAC to Enceladus	POS_X to NSP	Pick up at NEG_Z to Enceladus, POS_X to NSP; Hand off at ISS_NAC to Saturn, POS_X to NSP.
<b>End Custom</b>		<b>2005-048T12:45:01</b>			<b>00000:01:00</b>	<b>2005-048T12:46:01</b>	<b>ISS_NAC to Saturn</b>	<b>POS_X to NSP</b>	
SP_003NA_DEADTIME048_PRIME	M	2005-048T12:45:54	GMB_E003	Enceladus+000T09:15:26	00000:07:59	2005-048T12:53:54	ISS_NAC to Saturn	POS_X to NSP	
CIRS_003RH_AD4P5MRAD001_PRIME	U, V	2005-048T12:54:00			00001:52:00	2005-048T14:46:00	CIRS_FP3 to Rhea	POS_X to NSP	Accommodate ISS, VIMS, UVIS.
VIMS_003EA_THRYLMAPO01_PRIME	C, U	2005-048T14:46:00			00008:22:00	2005-048T23:08:00	ISS_NAC to Saturn (-2.865,0,0,4.87 deg. offset)	POS_X to NSP	
SP_003EA_DLTURN048_PRIME	M	2005-048T23:08:00			00000:30:00	2005-048T23:38:00	XBAND to Earth (0,0,0,0,8,0 deg. offset)	NEG_Y to Saturn	
SP_003EA_DLTURN448_PRIME	M	2005-048T23:38:00			00000:05:00	2005-048T23:43:00	XBAND to Earth	NEG_Y to Saturn	
<b>NEW WAYPOINT</b>		<b>2005-048T23:43:00</b>			<b>00010:37:00</b>	<b>2005-049T10:20:00</b>	<b>XBAND to Earth</b>	<b>NEG_Y to Saturn</b>	
SP_003EA_G70METOP048_PRIME	N	2005-048T23:51:00			00008:52:00	2005-049T08:43:00	XBAND to Earth	NEG_Y to Saturn	DTM-14
SOST rev 4 Segment E1		2005-067T07:34:00			001T23:52:00	2005-069T07:26:00			
SP_004EN_WAYPTTURN067_PRIME		2005-067T07:35:00			00000:30:00	2005-067T08:05:00	ISS_NAC to Enceladus	POS_X to NEP	turn duration=18.7 min from -Z to EA, +X to NEP
<b>NEW WAYPOINT</b>		<b>2005-067T08:05:00</b>			<b>001T01:09:01</b>	<b>2005-068T09:14:01</b>	<b>ISS_NAC to Enceladus</b>	<b>POS_X to NEP</b>	
VIMS_004SA_CYLMAPO01_PRIME	C, U	2005-067T09:30:00			00010:00:00	2005-067T19:30:00	ISS_NAC to Saturn	POS_X to NSP	
SP_004EA_DLTURN067_PRIME		2005-067T19:30:00			00000:20:00	2005-067T19:50:00	XBAND to Earth	POS_X to NSP	turn duration = 12.4 min
SP_004EA_M70METNON067_PRIME		2005-067T19:50:00			00003:50:00	2005-067T23:40:00	XBAND to Earth	POS_X to NSP	
SP_004EN_WAYPTTURN467_PRIME		2005-067T23:40:00			00000:20:00	2005-068T00:00:00	ISS_NAC to Enceladus	POS_X to NEP	turn duration=10.5 min
VIMS_004TE_TETHYS001_PRIME	C, M, U	2005-068T00:00:00			00001:31:00	2005-068T01:31:00	VIMS_IR to Tethys	POS_X to NEP	
SP_004NA_DEADTIME068_PRIME	M	2005-068T01:31:41			00000:15:00	2005-068T01:46:41	ISS_NAC to Enceladus	POS_X to NEP	
CIRS_004EN_FP3MAP001_PRIME	M, U, V	2005-068T01:48:01	GMB_E004	Enceladus-000T07:20:00	00001:04:00	2005-068T02:52:01	CIRS_FP3 to Enceladus	POS_X to NEP	
ISS_004EN_N3CPOL002_PRIME	C, M, U, V	2005-068T02:52:01	GMB_E004	Enceladus-000T06:16:00	00000:15:00	2005-068T03:07:01	ISS_NAC to Enceladus	POS_X to NEP	
CIRS_004EN_FP3MAP002_PRIME	M, U, V	2005-068T03:07:01	GMB_E004	Enceladus-000T06:01:00	00001:00:00	2005-068T04:07:01	CIRS_FP3 to Enceladus	POS_X to NEP	
ISS_004EN_N4COLR003_PRIME	C, M, U, V	2005-068T04:07:01	GMB_E004	Enceladus-000T05:01:00	00000:30:00	2005-068T04:37:01	ISS_NAC to Enceladus	POS_X to NEP	
CIRS_004EN_FP3COMPO01_PRIME	M, U, V	2005-068T04:37:01	GMB_E004	Enceladus-000T04:31:00	00000:50:00	2005-068T05:27:01	CIRS_FP1 to Enceladus	POS_X to NEP	
<b>Begin Custom</b>		<b>2005-068T05:27:01</b>	<b>GMB_E004</b>	<b>Enceladus-000T03:41:00</b>	<b>00000:01:00</b>	<b>2005-068T05:28:01</b>			
ISS_004EN_N4COLR004_PRIME	C, M, U, V	2005-068T05:27:01	GMB_E004	Enceladus-000T03:41:00	00000:25:00	2005-068T05:52:01	ISS_NAC to Enceladus	POS_X to NEP	Pick up at ISS_NAC to Enceladus, POS_X to NEP; Hand off at ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset), POS_X to NEP.
CIRS_004EN_FP3MAP003_PRIME	M, U, V	2005-068T05:52:01	GMB_E004	Enceladus-000T03:16:00	00000:55:00	2005-068T06:47:01	CIRS_FP3 to Enceladus (0.0,-25.0,0.0 deg. offset)	POS_X to NEP	Pick up at ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset), POS_X to NEP; Hand off at ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset), POS_X to NEP.
ISS_004EN_NGNPOL001_PRIME	C, M, U, V	2005-068T06:47:01	GMB_E004	Enceladus-000T02:21:00	00000:40:00	2005-068T07:27:01	ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset)	POS_X to NEP	Pick up at ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset), POS_X to NEP; Hand off at ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset), POS_X to NEP.
CIRS_004EN_FP1DAY001_PRIME	M, U, V	2005-068T07:27:01	GMB_E004	Enceladus-000T01:41:00	00000:20:00	2005-068T07:47:01	CIRS_FP1 to Enceladus (0.0,-25.0,0.0 deg. offset)	POS_X to NEP	Pick up at ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset), POS_X to NEP; Hand off at ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset), POS_X to NEP.
ISS_004EN_REGEO002_PRIME	C, M, U, V	2005-068T07:47:01	GMB_E004	Enceladus-000T01:21:00	00001:11:00	2005-068T08:58:01	ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset)	POS_X to NEP	Pick up at ISS_NAC to Enceladus (0.0,-25.0,0.0 deg. offset), POS_X to NEP; Hand off at ISS_NAC to Enceladus, POS_X to NEP.
<b>End Custom</b>		<b>2005-068T08:58:01</b>	<b>GMB_E004</b>	<b>Enceladus-000T00:10:00</b>	<b>00000:01:00</b>	<b>2005-068T08:59:01</b>			
SP_004DR_RAMAVOID068_PRIME	C, M	2005-068T08:58:01	GMB_E004	Enceladus-000T00:10:00	00000:16:00	2005-068T09:14:01	NEG_Z to Dust_RAM (0,0,0,0,90.0 deg. offset)	NEG_X to 238.1/33.5	turn duration = 18.9
<b>NEW WAYPOINT</b>		<b>2005-068T09:14:01</b>			<b>00001:26:00</b>	<b>2005-068T10:40:01</b>	<b>NEG_Z to Dust_RAM (0,0,0,0,90.0 deg. offset)</b>	<b>NEG_X to 238.1/33.5</b>	
MP_004DR_DUSTHAZRD001_PRIME	C, M	2005-068T09:14:01	GMB_E004	Enceladus+000T00:06:00	00001:04:00	2005-068T10:18:01	NEG_Z to Dust_RAM (0,0,0,0,90.0 deg. offset)	NEG_X to 238.1/33.5	
SP_004EN_WAYPTTURN468_PRIME	I, M, R, V	2005-068T10:18:01	GMB_E004	Enceladus+000T01:10:00	00000:22:00	2005-068T10:40:01	ISS_NAC to Enceladus	NEG_X to 261.3/58.2	turn duration=14.9 min
<b>NEW WAYPOINT</b>		<b>2005-068T10:40:01</b>			<b>00007:44:59</b>	<b>2005-068T18:25:00</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_X to 261.3/58.2</b>	
CIRS_004EN_FP3NIGHT001_PRIME	I, M, R, U, V	2005-068T10:42:01	GMB_E004	Enceladus+000T01:34:00	00000:41:00	2005-068T11:23:01	CIRS_FP1 to Enceladus	NEG_X to 261.3/58.2	2nd axis for CDA; Mag field from 068T09:20 to 14:20
<b>Begin Custom</b>		<b>2005-068T11:23:01</b>	<b>GMB_E004</b>	<b>Enceladus+000T02:15:00</b>	<b>00000:01:00</b>	<b>2005-068T11:24:01</b>			
VIMS_004TE_TETHYS004_PRIME	C, I, M, R, U	2005-068T11:23:01	GMB_E004	Enceladus+000T02:15:00	00000:45:00	2005-068T12:08:01	ISS_NAC to Tethys	NEG_X to 261.3/58.2	Pick up at ISS_NAC to Enceladus, NEG_X to 261.3/58.2; Hand off at ISS_NAC to Tethys, NEG_X to 261.3/58.2.
Saturn periapse 004, r = 3...		2005-068T11:38:22			00000:00:01	2005-068T11:38:23			
<b>RADAR_004EN_SCATTRAD001_PRIME</b>	<b>M</b>	<b>2005-068T11:38:22</b>	<b>GMB_E004</b>	<b>Enceladus+000T03:00:00</b>	<b>00002:00:00</b>	<b>2005-068T14:08:01</b>	<b>NEG_Z to Enceladus</b>	<b>NEG_X to 261.3/58.2</b>	<b>Pick up at ISS_NAC to Tethys, NEG_X to 261.3/58.2; Hand off at ISS_NAC to Enceladus, NEG_X to 261.3/58.2. Mag field from 068T09:20 to 14:20.</b>
<b>End Custom</b>		<b>2005-068T14:08:01</b>	<b>GMB_E004</b>	<b>Enceladus+000T05:00:00</b>	<b>00000:01:00</b>	<b>2005-068T14:09:01</b>			
SP_004NA_DEADTIME468_PRIME	M	2005-068T14:08:01	GMB_E004	Enceladus+000T05:00:00	00000:13:40	2005-068T14:21:41	ISS_NAC to Enceladus	NEG_X to 261.3/58.2	
SP_004EA_DLTURN068_PRIME	M	2005-068T14:22:00			00000:24:00	2005-068T14:46:00	XBAND to Earth	POS_X to NEP	turn duration = 17.9 min
SP_004EA_M70METNON068_PRIME	M	2005-068T14:46:00			00003:04:00	2005-068T17:50:00	XBAND to Earth	Rolling	CDA requests Rocking D/L
SP_004EN_WAYPTTURN568_PRIME	M, V	2005-068T17:50:00			00000:35:00	2005-068T18:25:00	ISS_NAC to Enceladus (0.0,-10.0,0.0 deg. offset)	NEG_X to NEP	turn duration=17.9 min
<b>NEW WAYPOINT</b>		<b>2005-068T18:25:00</b>			<b>00005:31:00</b>	<b>2005-068T23:56:00</b>	<b>ISS_NAC to Enceladus (0.0,-10.0,0.0 deg. offset)</b>	<b>NEG_X to NEP</b>	
ISS_004EN_OBSERV002_PRIME	C, M, U, V	2005-068T18:25:00			00002:35:00	2005-068T21:00:00	ISS_NAC to Enceladus	NEG_X to 104.0/-75.0	direct turn from Enceladus to

SP 011EA G70METNON194 PRIME	M, R	2005-194T19:54:00		0000T04:50:00	2005-195T00:44:00	XBAND to Earth	Rolling		
SP 011RH WAYPTTURN195 PRIME	M	2005-195T00:44:00		0000T02:26:00	2005-195T01:10:00	ISS_NAC to Rhea (0,0,0.0,20.0 deg. offset)	NEG_Z to NSP		
<b>NEW WAYPOINT</b>		<b>2005-195T01:10:00</b>		<b>0000T11:13:00</b>	<b>2005-195T12:23:00</b>	<b>ISS_NAC to Rhea (0,0,0.0,20.0 deg. offset)</b>	<b>NEG_Z to NSP</b>		
<b>BEGIN CUSTOM PERIOD</b>		<b>2005-195T01:10:00</b>		<b>0000T00:01:00</b>	<b>2005-195T01:11:00</b>				
ISS_011RH_GLOC001_PRIME	C, M, U	2005-195T01:10:00		0000T04:40:00	2005-195T01:50:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea (0,0,0.0,20.0 deg. offset); NEG_Z to NSP; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
UVIS_011RH_ICYLON002_PRIME	C, M	2005-195T01:50:00		0000T00:24:00	2005-195T02:14:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
VIMS_011RH_RHEA003_PRIME	C, M, U	2005-195T02:14:00		0000T01:46:00	2005-195T04:00:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
ISS_011RH_REGGEOD001_PRIME	C, M, U	2005-195T04:00:00		0000T00:10:00	2005-195T04:10:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
GIRS_011RH_FP3REGION020_PRIME	M, R, U	2005-195T04:10:00		0000T01:00:00	2005-195T05:00:00	CIRS_FP3 to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
VIMS_011RH_RHEA001_PRIME	C, M, R, U	2005-195T05:10:00		0000T00:40:00	2005-195T05:50:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
ISS_011RH_REGGEOD001_PRIME	C, M, R, U	2005-195T05:50:00		0000T00:10:00	2005-195T06:00:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
VIMS_011RH_RHEA002_PRIME	C, M, R, U	2005-195T06:00:00		0000T01:50:00	2005-195T07:50:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
ISS_011RH_REGGEOD001_PRIME	C, M, R, U	2005-195T07:50:00		0000T00:10:00	2005-195T08:00:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
<b>RADAR_011RH_SCATTARDL001_PRIME</b>	<b>M</b>	<b>2005-195T08:00:00</b>		<b>0000T02:00:00</b>	<b>2005-195T10:00:00</b>	<b>NEG_Z to Rhea</b>	<b>POS_X to North_Pole_Dir</b>	<b>Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.</b>	
ISS_011RH_REGMAPE001_PRIME	U	2005-195T10:00:00		0000T00:10:00	2005-195T10:10:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
GIRS_011RH_FP1DAYNIT020_PRIME	U	2005-195T10:10:00		0000T00:15:00	2005-195T10:25:00	CIRS_FP1 to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
VIMS_011RH_RHEA004_PRIME	C, U	2005-195T10:25:00		0000T00:55:00	2005-195T11:20:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
ISS_011RH_REGGEOD001_PRIME	C, U	2005-195T11:20:00		0000T00:10:00	2005-195T11:30:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir.	
GIRS_011RH_FP1GLOBAL020_PRIME	U	2005-195T11:30:00		0000T00:20:00	2005-195T11:50:00	GIRS_FP1 to Rhea	NEG_Z to North_Pole_Dir	Pick up at ISS_NAC to Rhea; NEG_Z to North_Pole_Dir; Hand off at ISS_NAC to Rhea (0,0,0.0,20.0 deg. offset); NEG_Z to NSP.	
<b>END CUSTOM PERIOD</b>		<b>2005-195T11:50:00</b>		<b>0000T00:01:00</b>	<b>2005-195T11:51:00</b>				
SP_011EN WAYPTTURN495 PRIME		2005-195T11:50:00		0000T00:20:00	2005-195T12:10:00	ISS_NAC to Enceladus (0.0,-70.0,25.0 deg. offset)	POS_X to 40.0/55.0	1st part of 2part turn to avoid SRU violatons	
SP_011EN WAYPTTURN595 PRIME		2005-195T12:10:00		0000T00:13:00	2005-195T12:23:00	ISS_NAC to Enceladus	POS_X to 40.0/55.0	2nd part of 2part turn to avoid SRU violatons	
<b>NEW WAYPOINT</b>		<b>2005-195T12:23:00</b>		<b>0000T07:28:52</b>	<b>2005-195T19:51:52</b>	<b>ISS_NAC to Enceladus</b>	<b>POS_X to 40.0/55.0</b>		
SP_011NA DEADTIME195 PRIME		2005-195T12:23:00		0000T00:01:22	2005-195T12:24:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
GIRS_011EN_FP3MAP1001_PRIME	U, V	2005-195T12:24:22	GMB_E011 Enceladus-000T07:31:00	0000T01:15:00	2005-195T13:39:22	GIRS_FP3 to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_N3CPOL002_PRIME	C, U, V	2005-195T13:39:22	GMB_E011 Enceladus-000T06:16:00	0000T00:15:00	2005-195T13:54:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
GIRS_011EN_FP3GLOBAL020_PRIME	U, V	2005-195T13:54:22	GMB_E011 Enceladus-000T06:01:00	0000T01:00:00	2005-195T14:54:22	GIRS_FP3 to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_N4COLR003_PRIME	C, U, V	2005-195T14:54:22	GMB_E011 Enceladus-000T05:01:00	0000T00:15:00	2005-195T15:09:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_N3CPOL003_PRIME	C, U, V	2005-195T15:09:22	GMB_E011 Enceladus-000T04:46:00	0000T00:15:00	2005-195T15:24:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
GIRS_011EN_FP3REGION021_PRIME	U, V	2005-195T15:24:22	GMB_E011 Enceladus-000T04:31:00	0000T00:50:00	2005-195T16:14:22	GIRS_FP3 to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_N4COLR004_PRIME	C, U, V	2005-195T16:14:22	GMB_E011 Enceladus-000T03:41:00	0000T00:10:00	2005-195T16:24:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_N3CPOL004_PRIME	C, U, V	2005-195T16:24:22	GMB_E011 Enceladus-000T03:31:00	0000T00:15:00	2005-195T16:39:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
GIRS_011EN_FP3REGION020_PRIME	U, V	2005-195T16:39:22	GMB_E011 Enceladus-000T03:16:00	0000T00:55:00	2005-195T17:34:22	GIRS_FP3 to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_NGNPOL001_PRIME	C, U, V	2005-195T17:34:22	GMB_E011 Enceladus-000T02:21:00	0000T00:20:00	2005-195T17:54:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_N3COL001_PRIME	C, U, V	2005-195T17:54:22	GMB_E011 Enceladus-000T02:01:00	0000T00:20:00	2005-195T18:14:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
GIRS_011EN_FP1GLOBAL020_PRIME	U, V	2005-195T18:14:22	GMB_E011 Enceladus-000T01:41:00	0000T00:20:00	2005-195T18:34:22	GIRS_FP1 to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_REGE0002_PRIME	C, M, U, V	2005-195T18:34:22	GMB_E011 Enceladus-000T01:21:00	0000T00:20:00	2005-195T18:54:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_MORPH001_PRIME	C, M, U, V	2005-195T18:54:22	GMB_E011 Enceladus-000T01:01:00	0000T00:08:00	2005-195T19:02:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_N9COL001_PRIME	C, M, U, V	2005-195T19:02:22	GMB_E011 Enceladus-000T00:53:00	0000T00:24:00	2005-195T19:26:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
ISS_011EN_MORPH002_PRIME	C, M, U	2005-195T19:26:22	GMB_E011 Enceladus-000T00:29:00	0000T00:08:00	2005-195T19:34:22	ISS_NAC to Enceladus	POS_X to 40.0/55.0		
SP_011ST WAYPTTURN695 PRIME	M	2005-195T19:34:22	GMB_E011 Enceladus-000T00:21:00	0000T00:17:30	2005-195T19:51:52	UVIS_FUV to 81.283/6.35	NEG_X to 330.0/70.0		
<b>NEW WAYPOINT</b>		<b>2005-195T19:51:52</b>		<b>0000T00:34:38</b>	<b>2005-195T20:26:30</b>	<b>UVIS_FUV to 81.283/6.35</b>	<b>NEG_X to 330.0/70.0</b>		
UVIS_011EN_ICYEX0001_PRIME	C, J, M	2005-195T19:51:52	GMB_E011 Enceladus-000T00:03:30	0000T00:06:08	2005-195T19:58:00	UVIS_FUV to 81.283/6.35	NEG_X to 330.0/70.0		
SP_011ST WAYPTTURN795 PRIME	M	2005-195T19:58:00	GMB_E011 Enceladus+000T00:02:38	0000T00:28:30	2005-195T20:26:30	ISS_NAC to Enceladus	POS_X to 40.0/55.0	16.2 min turn (CTV)	
<b>NEW WAYPOINT</b>		<b>2005-195T20:26:30</b>		<b>0000T07:19:52</b>	<b>2005-196T03:46:22</b>	<b>ISS_NAC to Enceladus</b>	<b>POS_X to 40.0/55.0</b>		
<b>BEGIN CUSTOM PERIOD</b>		<b>2005-195T20:26:30</b>	<b>GMB_E011 Enceladus+000T00:31:08</b>	<b>0000T01:00:00</b>	<b>2005-195T21:26:30</b>				
GIRS_011EN_FP1INSSCAN020_PRIME	M, U	2005-195T20:26:30	GMB_E011 Enceladus+000T00:31:08	0000T00:52:52	2005-195T21:19:22	CIRS_FP1 to Enceladus	POS_X to 40.0/55.0	Pick up at CIRS_FP1 to Enceladus; POS_X to 40.0/55.0; Hand off at ISS_NAC to Enceladus; POS_X to 125.0/-30.0.	
ISS_011EN_NCPOL001_PRIME	C, M, U, V	2005-195T21:19:22	GMB_E011 Enceladus+000T01:24:00	0000T00:10:00	2005-195T21:29:22	ISS_NAC to Enceladus	POS_X to 125.0/-30.0	Pick up at ISS_NAC to Enceladus; POS_X to 125.0/-30.0; Hand off at ISS_NAC to Enceladus; POS_X to 125.0/-30.0.	
UVIS_011EN_ICYCLON019_PRIME	C, M	2005-195T21:29:22	GMB_E011 Enceladus+000T01:34:00	0000T00:20:00	2005-195T21:49:22	ISS_NAC to Enceladus	POS_X to 125.0/-30.0	Pick up at ISS_NAC to Enceladus; POS_X to 125.0/-30.0; Hand off at ISS_NAC to Enceladus; POS_X to 125.0/-30.0.	
ISS_011EP_STEREO001_PRIME	C, M, U, V	2005-195T21:49:22	GMB_E011 Enceladus+000T01:54:00	0000T00:45:00	2005-195T22:34:22	ISS_NAC to Epimetheus	POS_X to 100.0/-35.0	Pick up at ISS_NAC to Enceladus; POS_X to 125.0/-30.0; Hand off at ISS_NAC to Epimetheus; POS_X to 100.0/-35.0.	
Pertapse per = 18.5 d, inc ...		2005-195T22:10:01		0000T00:00:01	2005-195T22:10:02				
UVIS_011ST_URSIGSGR001_PRIME	C, M	2005-195T22:36:22	GMB_E011 Enceladus+000T02:41:00	0000T01:50:00	2005-196T00:26:22	UVIS_FUV to 283.816/-26.297	POS_X to 100.0/-65.0	Pick up at ISS_NAC to Epimetheus; POS_X to 100.0/-35.0; Hand off at UVIS_FUV to 283.816/-26.297; POS_X to 100.0/-65.0.	
UVIS_011SU_RINGSAT001_PRIME	M, R, V	2005-196T00:26:22	GMB_E011 Enceladus+000T04:31:00	0000T01:37:00	2005-196T02:03:22	ISS_NAC to Sun (-20.0,0.0,0.0 deg. offset)	POS_X to 100.0/-65.0	Pick up at UVIS_FUV to 283.816/-26.297; POS_X to 100.0/-65.0; Hand off at ISS_NAC to Sun (-20.0,0.0,0.0 deg. offset); POS_X to 100.0/-65.0.	
VIMS_011RI_HIPHASE001_PRIME	C, M, R, V	2005-196T02:03:22	GMB_E011 Enceladus+000T06:08:00	0000T01:17:00	2005-196T03:20:22	VIMS_IR to L_ANSA_C	NEG_X to NSP	Pick up at ISS_NAC to Sun (-20.0,0.0,0.0 deg. offset); POS_X to 100.0/-65.0; Hand off at ISS_NAC to Enceladus; POS_X to 40.0/55.0.	
<b>END CUSTOM PERIOD</b>		<b>2005-196T03:20:22</b>	<b>GMB_E011 Enceladus+000T07:25:00</b>	<b>0000T00:01:00</b>	<b>2005-196T03:21:22</b>				
SP_011EA WAYPTTURN196 PRIME	R	2005-196T03:20:22	GMB_E011 Enceladus+000T07:25:00	0000T00:26:00	2005-196T03:46:22	XBAND to Earth	NEG_X to 223.0/28.0	24.6 min turn (CTV)	
<b>NEW WAYPOINT</b>		<b>2005-196T03:46:22</b>		<b>0000T06:19:38</b>	<b>2005-196T10:00:00</b>	<b>XBAND to Earth</b>	<b>NEG_X to 223.0/28.0</b>		
RSS_011SA_OCC004_PRIME	R	2005-196T03:46:22	GMB_E011 Enceladus+000T07:51:00	0000T00:44:39	2005-196T04:31:01	XBAND to Earth	NEG_X to 223.0/28.0		
RSS_011RI_OCC004_PRIME	R	2005-196T04:31:01	GMB_E011 Enceladus+000T08:35:39	0000T02:05:21	2005-196T06:36:22	XBAND to Earth	NEG_X to 223.0/28.0		
SP_011NA_DEADTIME196 PRIME	R	2005-196T06:40:00		0000T00:10:00	2005-196T06:50:00	XBAND to Earth	NEG_X to 223.0/28.0		
SP_011EA_M70METNON196 PRIME	R	2005-196T06:50:00		0000T02:50:00	2005-196T09:40:00	XBAND to Earth	Rolling		
SP_011SA_WAYPTTURN596 PRIME	R	2005-196T09:40:00		0000T00:20:00	2005-196T10:00:00	ISS_NAC to Saturn	POS_Z to NSP		
<b>NEW WAYPOINT</b>		<b>2005-196T10:00:00</b>		<b>0000T14:00:00</b>	<b>2005-197T00:00:00</b>	<b>ISS_NAC to Saturn</b>	<b>POS_Z to NSP</b>		
GIRS_011SA_NADIROCC002_PRIME	R	2005-196T10:00:00		0000T03:20:00	2005-196T13:20:00	GIRS_FP3 to Saturn	POS_Z to NSP		
VIMS_011SA_LIGHTNING003_PRIME	C	2005-196T13:20:00		0000T00:50:00	2005-196T14:10:00	VIMS_IR to Saturn	POS_Z to NSP		
SP_011EA_DLTURN596 PRIME	R	2005-196T14:10:00		0000T00:20:00	2005-196T14:30:00	XBAND to Earth	ISS_NAC to Saturn		
SP_011EA_G70METNON196 PRIME	C, R	2005-196T14:30:00		0000T09:00:00	2005-196T23:30:00	XBAND to Earth	Rolling/SRU	This D/L has been modified by CDA to Rock	
SOST rev 12 Segment		2005-212T22:00:00		002T16:50:00	2005-215T14:50:00				
SP_012EA_S13VP212_PRIME	M	2005-212T22:00:00	E012 SEQUENCE 013+000T00:00:00	0000T00:06:00	2005-212T22:06:00	XBAND to Earth	NEG_X to Sun		
SP_012RH_WAYPTTURN212 PRIME	M	2005-212T22:06:00		0000T00:21:30	2005-212T22:27:30	ISS_NAC to Rhea	POS_Z to 200.0/40.0	SP Turn to Waypoint	
SP_012RH_WAYPTTURN412 PRIME	M	2005-212T22:27:30		0000T00:12:30	2005-212T22:40:00	ISS_NAC to Rhea	POS_Z to NEP	SP Turn to Waypoint	
<b>NEW WAYPOINT</b>		<b>2005-212T22:40:00</b>		<b>0000T13:42:00</b>	<b>2005-213T12</b>				





NEW WAYPOINT		2005-283T20:27:00		000T16:55:02	2005-284T13:22:02	ISS_NAC to Dione	POS_X to NSP	
UVIS_016SA_EUVFUV001_PRIME	V	2005-283T20:27:00		000T02:33:00	2005-283T23:00:00	ISS_NAC to Saturn	POS_X to NSP	
UVIS_016DI_ICYLON001_PRIME	C, I	2005-283T21:00:00		000T02:45:00	2005-284T01:45:00	UVIS_FUV to Dione	POS_X to NSP	
VIMS_016DI_DIONE201_PRIME	U	2005-284T01:45:00		000T03:30:00	2005-284T05:15:00	ISS_NAC to Dione	POS_X to NSP	
CIRS_016DI_FP3INT001_PRIME	U, V	2005-284T05:15:00		000T04:43:00	2005-284T05:58:00	CIRS_FP3 to Dione	POS_X to NSP	
VIMS_016DI_DIONE302_PRIME	C, U	2005-284T05:58:00		000T01:40:00	2005-284T07:38:00	ISS_NAC to Dione	POS_X to NSP	
CIRS_016DI_FP3MAP004_PRIME	U, V	2005-284T07:38:00		000T01:00:00	2005-284T08:38:00	CIRS_FP3 to Dione	POS_X to NSP	
VIMS_016DI_DIONE002_PRIME	C, R, U	2005-284T08:38:00		000T00:50:00	2005-284T09:28:00	ISS_NAC to Dione	POS_X to NSP	
UVIS_016DI_ICYLON008_PRIME	C, R, V	2005-284T09:28:00		000T00:20:00	2005-284T09:48:00	ISS_NAC to Dione	POS_X to NSP	
ISS_016DI_GLOCOLO01_PRIME	C, R, U, V	2005-284T09:48:00		000T00:20:00	2005-284T10:08:00	ISS_NAC to Dione	POS_X to NSP	
CIRS_016DI_FP3MAP005_PRIME	R, U, V	2005-284T10:08:00		000T00:20:00	2005-284T10:28:00	CIRS_FP3 to Dione	POS_X to NSP	
SP_016DI_DEADTIME284_PRIME	R	2005-284T10:28:00		000T00:15:06	2005-284T10:43:06	ISS_NAC to Dione	POS_X to NSP	
SP_016EA_DLTURN284_PRIME	R	2005-284T10:43:06	GMB_E016_Dione-000T07:08:56	000T00:19:00	2005-284T11:02:06	XBAND to Earth	POS_X to NSP	
SP_016EA_G34BWGRSS284_PRIME	R	2005-284T11:02:06	GMB_E016_Dione-000T06:49:56	000T02:01:56	2005-284T13:04:02	XBAND to Earth	POS_X to NSP	RSS ACTIVITY
SP_016TL_WAYPTTURN284_PRIME	R	2005-284T13:04:02	GMB_E016_Dione-000T04:48:00	000T00:18:00	2005-284T13:22:02	ISS_NAC to Telesto	POS_X to NSP	
NEW WAYPOINT		2005-284T13:22:02		000T07:30:00	2005-284T20:52:02	ISS_NAC to Telesto	POS_X to NSP	
Begin Custom		2005-284T13:22:02	GMB_E016_Dione-000T04:30:00	000T00:01:00	2005-284T13:23:02	ISS_NAC to Telesto	POS_X to NSP	
CIRS_016DI_FP3MAP006_PRIME	U, V	2005-284T13:22:02	GMB_E016_Dione-000T04:30:00	000T01:00:00	2005-284T14:22:02	CIRS_FP3 to Dione	NEG_Z to NSP	Pick up at ISS_NAC to Telesto, POS_X to NSP; Hand off at ISS_NAC to Dione, NEG_Z to NSP.
ISS_016DI_REGMAPA001_PRIME	C, U, V	2005-284T14:22:02	GMB_E016_Dione-000T03:30:00	000T00:20:00	2005-284T14:42:02	ISS_NAC to Dione	NEG_Z to NSP	Pick up at ISS_NAC to Dione, NEG_Z to NSP; Hand off at ISS_NAC to Dione, NEG_Z to NSP.
UVIS_016DI_ICVMAPO03_PRIME	C, M, V	2005-284T14:42:02	GMB_E016_Dione-000T03:10:00	000T00:45:00	2005-284T15:27:02	ISS_NAC to Dione	NEG_Z to NSP	Pick up at ISS_NAC to Dione, NEG_Z to NSP; Hand off at ISS_NAC to Dione, NEG_Z to NSP.
CIRS_016DI_FP3DISCS002_PRIME	M, V	2005-284T15:27:02	GMB_E016_Dione-000T02:25:00	000T00:15:00	2005-284T15:42:02	CIRS_FP1 to Dione	NEG_Z to NSP	Pick up at ISS_NAC to Dione, NEG_Z to NSP; Hand off at ISS_NAC to Dione, NEG_Z to NSP.
ISS_016DI_TARGETLYB001_PRIME	C, M, U, V	2005-284T15:42:02	GMB_E016_Dione-000T02:10:00	000T02:02:00	2005-284T17:44:02	ISS_NAC to Dione	NEG_Z to NSP	Pick up at ISS_NAC to Dione, NEG_Z to NSP; Hand off at ISS_NAC to Dione, NEG_Z to NSP.
CAPS_010DI_DIONEPGT001_PRIME	C, I, M, U, V	2005-284T17:44:02	GMB_E016_Dione-000T00:08:00	000T00:23:20	2005-284T18:07:22	NEG_Y to 126.3/19.7	NEG_Z to NSP	Pick up at ISS_NAC to Dione, NEG_Z to NSP; Hand off at ISS_NAC to 225.0/10.0 (0.0,20.0,0.0 deg. offset), NEG_Z to NSP. pick-up attitude is at: Lat/Lon of -10.0,240.0,0
ISS_016DI_CRESCENT001_PRIME	C, M, U, V	2005-284T18:07:22	GMB_E016_Dione+000T00:15:20	000T00:31:40	2005-284T18:39:02	ISS_NAC to Dione (0.0,-50.0,0.0 deg. offset)	POS_X to NSP	Pick up at ISS_NAC to 225.0/10.0 (0.0,20.0,0.0 deg. offset), NEG_Z to NSP; Hand off at ISS_NAC to Dione (-0.516,-50.0,-1.203 deg. offset), POS_X to NSP.
CIRS_016DI_FP1DISCS001_PRIME	I, M, R, V	2005-284T18:39:02	GMB_E016_Dione+000T00:47:00	000T00:43:00	2005-284T19:22:02	CIRS_FP1 to Dione	POS_X to NSP	Pick up at ISS_NAC to Dione (-0.516,-50.0,-1.203 deg. offset), POS_X to NSP; Hand off at ISS_NAC to Dione, POS_X to NSP.
ISS_016TL_MORPH001_PRIME	C, M, R, U, V	2005-284T19:22:02	GMB_E016_Dione+000T01:30:00	000T01:00:00	2005-284T20:22:02	ISS_NAC to Telesto	POS_X to NSP	Pick up at ISS_NAC to Dione, POS_X to NSP; Hand off at ISS_NAC to Telesto, POS_X to NSP.
End Custom		2005-284T20:22:02	GMB_E016_Dione-000T02:30:00	000T00:01:00	2005-284T20:23:02			
SP_016DI_WAYPTTURN284_PRIME	M, R	2005-284T20:22:02	GMB_E016_Dione+000T02:30:00	000T00:30:00	2005-284T20:52:02	NEG_Z to Dione (0.0,0.0,13.0 deg. offset)	POS_X to NSP	
NEW WAYPOINT		2005-284T20:52:02		000T03:08:54	2005-285T00:00:56	NEG_Z to Dione (0.0,0.0,13.0 deg. offset)	POS_X to NSP	
RADAR_016DI_SCATTRAD001_PRIME	M	2005-284T20:52:02	GMB_E016_Dione+000T03:00:00	000T02:44:00	2005-284T23:36:02	NEG_Z to Dione (0.0,0.0,13.0 deg. offset)	POS_X to NSP	
SP_016DI_DEADTIME285_PRIME	M	2005-284T23:36:02	GMB_E016_Dione+000T05:44:00	000T00:14:54	2005-284T23:50:56	NEG_Z to Dione (0.0,0.0,13.0 deg. offset)	POS_X to NSP	
SP_016EA_DLTURN593_PRIME	M, N	2005-284T23:50:56		000T00:10:00	2005-285T00:00:56	XBAND to Earth (0.0,0.0,60.0 deg. offset)	POS_X to NSP	
NEW WAYPOINT		2005-285T00:00:56		000T08:54:04	2005-285T08:55:00	XBAND to Earth (0.0,0.0,60.0 deg. offset)	POS_X to NSP	
SP_016EA_C34BWGRSS284_PRIME	M, N, R	2005-285T00:00:56		000T00:13:00	2005-285T00:13:56	XBAND to Earth (0.0,0.0,60.0 deg. offset)	POS_X to NSP	RSS ACTIVITY
SP_016EA_M34BWGRSS285_PRIME	M, N, R	2005-285T00:13:56		000T08:11:04	2005-285T08:25:00	XBAND to Earth (0.0,0.0,60.0 deg. offset)	POS_X to NSP	RSS ACTIVITY (until 04:27:56) + OTM-38
Periapse per = 18.7 d, inc ...		2005-285T01:30:57		000T00:00:01	2005-285T01:30:58			
SP_016DR_RAMAVOID285_PRIME	M, N	2005-285T08:25:00		000T00:30:00	2005-285T08:55:00	NEG_Z to Dust_RAM (0.0,0.0,-20.0 deg. offset)	NEG_X to Sun	
NEW WAYPOINT		2005-285T08:55:00		000T11:10:00	2005-285T20:05:00	NEG_Z to Dust_RAM (0.0,0.0,-20.0 deg. offset)	NEG_X to Sun	
MP_016DR_DUSTHAZRD002_PRIME	M, N	2005-285T08:55:00		000T00:27:00	2005-285T09:22:00	NEG_Z to Dust_RAM	POS_X to NSP	
SP_016EA_DLTURN285_PRIME	M	2005-285T09:22:00		000T00:36:00	2005-285T09:58:00	XBAND to Earth (0.0,0.0,-100.0 deg. offset)	POS_Y to NEP	
SP_016EA_G70METOTB285_PRIME	M, N	2005-285T09:58:00		000T09:47:00	2005-285T19:45:00	XBAND to Earth (0.0,0.0,-100.0 deg. offset)	S_Hr Rolling	
SP_016SA_WAYPTTURN285_PRIME		2005-285T19:45:00		000T00:20:00	2005-285T20:05:00	ISS_NAC to Saturn	NEG_Z to Sun	
NEW WAYPOINT		2005-285T20:05:00		00T102:05:00	2005-286T22:10:00	ISS_NAC to Saturn	NEG_Z to Sun	
ISS_016TE_094W101PH001_PRIME	C, U	2005-285T21:25:00		000T01:05:00	2005-285T22:30:00	UVIS_FUV to Tethys	NEG_Z to Sun	
ISS_016EN_310W134PH001_PRIME	C, U	2005-285T22:30:00		000T00:50:00	2005-285T23:20:00	UVIS_FUV to Enceladus	NEG_Z to Sun	
ISS_016MI_094W108PH001_PRIME	C, U	2005-285T23:20:00		000T01:20:00	2005-286T00:40:00	UVIS_FUV to Mimas	NEG_Z to Sun	
ISS_016DI_094W093PH001_PRIME	C, U	2005-286T00:40:00		000T01:36:00	2005-286T02:16:00	UVIS_FUV to Dione	NEG_Z to Sun	
ISS_016PM_MUTUALEVE005_PRIME	C	2005-286T02:16:00		000T00:40:00	2005-286T02:56:00	ISS_NAC to Prometheus	NEG_Z to Sun	
ISS_016MI_MUTUALEVE005_PRIME	C	2005-286T02:56:00		000T00:34:00	2005-286T03:30:00	ISS_NAC to Mimas	NEG_Z to Sun	
ISS_016MI_166W113PH001_PRIME	C, U	2005-286T03:30:00		000T00:20:00	2005-286T03:50:00	UVIS_FUV to Mimas	NEG_Z to Sun	
NAV_016SK_OPNAV861_PRIME	C, N	2005-286T03:50:00		000T01:20:00	2005-286T05:10:00	ISS_NAC to Satellites	NEG_Z to Sun	
ISS_016TE_166W110PH001_PRIME	C, U	2005-286T05:10:00		000T00:50:00	2005-286T06:00:00	UVIS_FUV to Tethys	NEG_Z to Sun	
ISS_016JA_MUTUALEVE018_PRIME	C	2005-286T06:00:00		000T00:50:00	2005-286T06:50:00	ISS_NAC to Janus	NEG_Z to Sun	
ISS_016MI_238W122PH001_PRIME	C, U	2005-286T06:50:00		000T01:20:00	2005-286T08:10:00	UVIS_FUV to Mimas	NEG_Z to Sun	
ISS_016EN_022W108PH001_PRIME	C, U	2005-286T08:10:00		000T00:40:00	2005-286T08:50:00	UVIS_FUV to Enceladus	NEG_Z to Sun	
SP_016EA_DLTURN286_PRIME		2005-286T08:50:00		000T00:20:00	2005-286T09:10:00	XBAND to Earth	POS_X to NEP	
SP_016EA_G34BWGOTB286_PRIME	N	2005-286T09:10:00		000T10:45:00	2005-286T19:55:00	XBAND to Earth	5 Hr Rolling	
SOST rev 18 Segment R1		2005-329T15:48:00		003T23:45:00	2005-333T15:33:00			
SP_018SA_WAYPTTURN329_PRIME		2005-329T15:48:00		000T00:30:00	2005-329T16:18:00	ISS_NAC to Saturn	POS_X to NSP	
NEW WAYPOINT		2005-329T16:18:00		000T12:27:00	2005-330T04:45:00	ISS_NAC to Saturn	POS_X to NSP	
CIRS_018SA_FIRMAP011_PRIME	C	2005-329T17:25:00		000T11:00:00	2005-330T04:25:00	CIRS_FP1 to Saturn	POS_X to NSP	
SP_018RH_WAYPTTURN330_PRIME		2005-330T04:25:00		000T00:20:00	2005-330T04:45:00	ISS_NAC to Rhea	POS_X to NSP	
NEW WAYPOINT		2005-330T04:45:00		000T16:13:39	2005-330T20:58:39	ISS_NAC to Rhea	POS_X to NSP	
SP_018NA_DEADTIME330_PRIME		2005-330T04:45:00		000T00:17:39	2005-330T05:02:39	ISS_NAC to Rhea	POS_X to NSP	
CIRS_018RH_FP3MAP001_PRIME	R, U, V	2005-330T05:02:39	GMB_E018_Rhea-000T17:35:00	000T01:34:00	2005-330T06:36:39	CIRS_FP3 to Rhea	POS_X to NSP	
VIMS_018RH_RHEA001_PRIME	R, U	2005-330T06:36:39	GMB_E018_Rhea-000T16:01:00	000T01:35:00	2005-330T08:11:39	ISS_NAC to Rhea	POS_X to NSP	
SP_018EA_DLTURN330_PRIME	R	2005-330T08:11:39	GMB_E018_Rhea-000T14:26:00	000T00:21:00	2005-330T08:32:39	XBAND to Earth	POS_X to NSP	
SP_018EA_G34BWGRSS330_PRIME	R	2005-330T08:32:39	GMB_E018_Rhea-000T14:05:00	000T03:18:00	2005-330T11:50:39	XBAND to Earth	POS_X to NSP	RSS ACTIVITY
SP_018RH_WAYPTTURN430_PRIME	R	2005-330T11:50:39	GMB_E018_Rhea-000T10:47:00	000T00:21:00	2005-330T12:11:39	ISS_NAC to Rhea	POS_X to NSP	
ISS_018RH_GLOCOLO01_PRIME	C, R, U, V	2005-330T12:11:39	GMB_E018_Rhea-000T10:26:00	000T00:22:00	2005-330T12:33:39	ISS_NAC to Rhea	POS_X to NSP	
SP_018EA_DLTURN430_PRIME	R	2005-330T12:33:39	GMB_E018_Rhea-000T10:04:00	000T00:21:00	2005-330T12:54:39	XBAND to Earth	POS_X to NSP	
SP_018EA_G34BWGRSS430_PRIME	R	2005-330T12:54:39	GMB_E018_Rhea-000T09:43:00	000T02:48:00	2005-330T15:42:39	XBAND to Earth	POS_X to NSP	RSS ACTIVITY
SP_018RH_WAYPTTURN530_PRIME	R	2005-330T15:42:39	GMB_E018_Rhea-000T06:55:00	000T00:21:00	2005-330T16:03:39	ISS_NAC to Rhea	POS_X to NSP	
ISS_018RH_REGCOLO01_PRIME	C, U, V	2005-330T16:03:39	GMB_E018_Rhea-000T06:34:00	000T01:30:00	2005-330T17:33:39	ISS_NAC to Rhea	POS_X to NSP	
VIMS_018RH_RHEA002_PRIME	C, R, U	2005-330T17:33:39	GMB_E018_Rhea-000T05:04:00	000T01:30:00	2005-330T19:03:39	ISS_NAC to Rhea	POS_X to NSP	
CIRS_018RH_FP3MAP002_PRIME	R, U, V	2005-330T19:03:39	GMB_E018_Rhea-000T03:34:00	000T00:30:00	2005-330T19:33:39	CIRS_FP3 to Rhea	POS_X to NSP	
ISS_018RH_REGMAP001_PRIME	C, R, U, V	2005-330T19:33:39	GMB_E018_Rhea-000T03:04:00	000T01:00:00	2005-330T20:33:39	ISS_NAC to Rhea	POS_X to NSP	
SP_018EA_DLTURN524_PRIME	R	2005-330T20:33:39	GMB_E018_Rhea-000T02:04:00	000T00:25:00	2005-330T20:58:39	XBAND to Earth	NEG_Y to 226.0/15.0	
NEW WAYPOINT		2005-330T20:58:39		000T03:55:00	2005-331T00:53:39	XBAND to Earth	NEG_Y to 226.0/15.0	
SP_018EA_C34BWGRSS330_PRIME	R	2005-330T20:58:39	GMB_E018_Rhea-000T01:39:00	000T00:49:21	2005-330T21:48:00	XBAND to Earth	NEG_Y to 226.0/15.0	RSS ACTIVITY
SP_018EA_M34BWGRSS330_PRIME	M, R	2005-330T21:48:00		000T00:34:39	2005-330T22:22:39	XBAND to Earth	NEG_Y to 226.0/15.0	RSS ACTIVITY
SP_018EA_RHEAORS330_PRIME	C, I, M, R, U, V	2005-330T22:22:39	GMB_E018_Rhea-000T00:15:00	000T00:30:00	2005-330T22:52:39	XBAND to Earth	NEG_Y to 226.0/15.0	
SP_018EA_M34BWGRSS330_PRIME	M, R	2005-330T22:52:39	GMB_E018_Rhea+000T00:15:00	000T01:39:00	2005-331T00:31:39	XBAND to Earth	NEG_Y to 226.0/15.0	RSS ACTIVITY
SP_018RH_WAYPTTURN331_PRIME	M, R	2						

RADAR_018RH_SCATTRAD001_PRIME	M, R	2005-331T02:33:39	GMB E018 Rhea+000T03:56:00	000T03:00:00	2005-331T05:33:39	NEG_Z to Rhea	POS_X to NSP	Pick up at ISS_NAC to Rhea, POS_X to NSP; Hand off at NEG_Z to Rhea, POS_X to NSP. RADAR must control both axes
SP_018EA_DLTURN431_PRIME	M, R	2005-331T05:33:39	GMB E018 Rhea+000T06:56:00	000T00:08:00	2005-331T05:41:39	XBAND to Earth	POS_X to NSP	Pick up at NEG_Z to Rhea, POS_X to NSP; Hand off at XBAND to Earth, POS_X to NSP.
SP_018EA_M70METON331_PRIME	M, R	2005-331T05:41:39	GMB E018 Rhea+000T07:04:00	000T01:57:00	2005-331T07:38:39	XBAND to Earth	POS_X to NSP	Pick up at XBAND to Earth, POS_X to NSP; Hand off at XBAND to Earth, POS_X to NSP. RSS ACTIVITY
SP_018RH_WAYPTTURN431_PRIME	M	2005-331T07:38:39	GMB E018 Rhea+000T09:01:00	000T00:20:00	2005-331T07:58:39	ISS_NAC to Rhea	POS_X to NSP	Pick up at XBAND to Earth, POS_X to NSP; Hand off at ISS_NAC to Rhea, POS_X to NSP.
End Custom		2005-331T07:58:39		000T00:01:00	2005-331T07:59:39	ISS_NAC to Rhea	POS_X to NSP	
SP_018NA_DEADTIME331_PRIME	M	2005-331T07:58:39	GMB E018 Rhea+000T09:21:00	000T00:13:21	2005-331T08:12:00	ISS_NAC to Rhea	POS_X to NSP	
SP_018EN_WAYPTTURN331_PRIME	M	2005-331T08:12:00		000T00:25:00	2005-331T08:37:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
NEW WAYPOINT		2005-331T08:37:00		000T23:13:00	2005-332T07:50:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
UVIS_018SA_LIMBSKIM003_PRIME	M	2005-331T08:37:00		000T01:10:00	2005-331T09:47:00	UVIS_FUV to Saturn	POS_X to Saturn	
UVIS_018EN_ICYLON001_PRIME	C, I, M, V	2005-331T09:47:00		000T03:13:00	2005-331T11:00:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
Periapse per = 27.6 d, inc ...		2005-331T11:21:19		000T00:00:01	2005-331T11:21:20			
UVIS_018SA_LIMBSKIM004_PRIME	M	2005-331T11:00:00		000T01:10:00	2005-331T14:10:00	UVIS_FUV to Saturn	POS_X to Saturn	
GIRS_018EN_FP1FAZOP5061_PRIME	I, M, U, V	2005-331T14:10:00		000T01:50:00	2005-331T16:00:00	GIRS_FP1 to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
UVIS_018EN_ICYLON003_PRIME	C, I, M, V	2005-331T16:00:00		000T00:20:00	2005-331T16:20:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
VIMS_018EN_ENCL001_PRIME	C, I, M, U	2005-331T16:20:00		000T00:40:00	2005-331T17:00:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
ISS_018EN_HIPHAS001_PRIME	C, M, U, V	2005-331T17:00:00		000T01:00:00	2005-331T18:00:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
UVIS_018EN_ICYLON006_PRIME	C, I, M, V	2005-331T18:00:00		000T00:20:00	2005-331T18:20:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
GIRS_018EN_FP1FAZOP5002_PRIME	I, M, U, V	2005-331T18:20:00		000T00:40:00	2005-331T19:00:00	GIRS_FP1 to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
ISS_018EN_PLUMES001_PRIME	C, M, U, V	2005-331T19:00:00		000T01:00:00	2005-331T20:00:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
VIMS_018EN_ENCL002_PRIME	C, I, M, U	2005-331T20:00:00		000T01:35:00	2005-331T21:35:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
UVIS_018EN_ICYLON010_PRIME	C, I, M	2005-331T21:35:00		000T00:20:00	2005-331T21:55:00	ISS_NAC to Enceladus (0.0,5.0,0.0 deg. offset)	POS_X to NSP	
SP_018EA_DLTURN331_PRIME	M	2005-331T21:55:00		000T00:20:00	2005-331T22:15:00	XBAND to Earth	POS_X to NSP	
SP_018EA_M70METOTP331_PRIME	M, N	2005-331T22:15:00		000T09:10:00	2005-332T07:25:00	XBAND to Earth	Rolling	
SP_018SA_WAYPTTURN332_PRIME		2005-332T07:25:00		000T00:25:00	2005-332T07:50:00	ISS_NAC to Saturn	POS_X to NSP	
NEW WAYPOINT		2005-332T07:50:00		001T08:13:00	2005-333T16:03:00	ISS_NAC to Saturn	POS_X to NSP	
VIMS_018SA_CYLMAPO01_PRIME		2005-332T07:50:00		000T11:00:00	2005-332T18:50:00	ISS_NAC to Saturn	POS_X to NSP	
ISS_018EN_MUTUALEVE028_PRIME		2005-332T20:04:51		000T00:35:09	2005-332T20:40:00	ISS_NAC to Enceladus	POS_X to NSP	
VIMS_018TE_TETH001_PRIME	I, U	2005-332T20:40:00		000T00:30:00	2005-332T21:10:00	ISS_NAC to Tethys	POS_X to NSP	
ISS_018EP_MUTUALEVE012_PRIME		2005-333T01:08:00		000T00:32:00	2005-333T01:40:00	ISS_NAC to Epimetheus	POS_X to NSP	
VIMS_018TE_TETH002_PRIME	C, I, U	2005-333T01:40:00		000T02:07:00	2005-333T03:47:00	ISS_NAC to Tethys	POS_X to NSP	
ISS_018TE_MUTUALEVE001_PRIME	V	2005-333T03:47:00		000T00:33:00	2005-333T04:20:00	ISS_NAC to Tethys	POS_X to NSP	
VIMS_018TE_TETH003_PRIME	C, I, U	2005-333T04:20:00		000T01:48:00	2005-333T06:08:00	ISS_NAC to Tethys	POS_X to NSP	
SP_018EA_DLTURN333_PRIME		2005-333T06:08:00		000T00:25:00	2005-333T06:33:00	XBAND to Earth	NEG_Y to NSP	
SP_018EA_G70METOTB333_PRIME	N	2005-333T06:33:00		000T09:00:00	2005-333T15:33:00	XBAND to Earth	Rolling	
SOST rev 20 Segment		2006-016T13:46:00		002T22:13:00	2006-019T11:59:00			
SP_020SA_WAYPTTURN016_PRIME		2006-016T12:05:00		000T00:30:00	2006-016T12:35:00	ISS_NAC to Saturn	POS_X to NSP	
NEW WAYPOINT		2006-016T12:35:00		000T11:51:00	2006-017T00:26:00	ISS_NAC to Saturn	POS_X to NSP	
VIMS_020SA_CYLMAPO01_PRIME	C, M, U	2006-016T14:09:00		000T10:00:00	2006-017T00:09:00	ISS_NAC to Saturn	POS_X to NSP	
SP_020EN_WAYPTTURN017_PRIME	M	2006-017T00:09:00		000T00:17:00	2006-017T00:26:00	ISS_NAC to Enceladus	NEG_Z to NSP	
NEW WAYPOINT		2006-017T00:26:00		000T12:29:00	2006-017T12:55:00	ISS_NAC to Enceladus	NEG_Z to NSP	
GIRS_020EN_FP3MAP001_PRIME	I, M, U, V	2006-017T00:26:00		000T03:34:00	2006-017T04:00:00	GIRS_FP3 to Enceladus	NEG_Z to NSP	
GIRS_020EN_FP1COMP001_PRIME	C, I, M, U, V	2006-017T04:00:00		000T01:30:00	2006-017T05:30:00	GIRS_FP1 to Enceladus	NEG_Z to NSP	
ISS_020EN_GEOLOG004_PRIME	C, M, U, V	2006-017T05:30:00		000T00:45:00	2006-017T06:15:00	ISS_NAC to Enceladus	NEG_Z to NSP	
SP_020EA_DLTURN017_PRIME	M	2006-017T06:15:00		000T00:22:00	2006-017T06:37:00	XBAND to Earth	POS_X to NSP	
SP_020EA_G70METON017_PRIME	M	2006-017T06:37:00		000T05:55:00	2006-017T12:32:00	XBAND to Earth	Rolling/SRU	
Periapse per = 39.3 d, inc ...		2006-017T06:58:18		000T00:00:01	2006-017T06:58:19			
SP_020RH_WAYPTTURN017_PRIME	M	2006-017T12:32:00		000T00:23:00	2006-017T12:55:00	ISS_NAC to Rhea	NEG_Z to NSP	
NEW WAYPOINT		2006-017T12:55:00		000T22:57:00	2006-018T11:52:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA001_PRIME	C, M, U	2006-017T12:55:00		000T01:05:00	2006-017T14:00:00	ISS_NAC to Rhea	NEG_Z to NSP	
ISS_020RH_GLOCOL001_PRIME	C, M, U	2006-017T14:00:00		000T00:19:00	2006-017T14:19:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA002_PRIME	C, I, M, U	2006-017T14:19:00		000T00:40:00	2006-017T14:59:00	ISS_NAC to Rhea	NEG_Z to NSP	
GIRS_020RH_SLOWSCAN2001_PRIME	M, U	2006-017T14:59:00		000T00:40:00	2006-017T15:39:00	GIRS_FP3 to Rhea	NEG_Z to NSP	
ISS_020RH_REGGEODB001_PRIME	C, M, U	2006-017T15:39:00		000T00:10:00	2006-017T15:49:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA003_PRIME	C, M, U	2006-017T15:49:00		000T00:40:00	2006-017T16:29:00	ISS_NAC to Rhea	NEG_Z to NSP	
GIRS_020RH_SLOWSCAN3001_PRIME	M, U	2006-017T16:29:00		000T00:40:00	2006-017T17:09:00	GIRS_FP3 to Rhea	NEG_Z to NSP	
ISS_020RH_REGGEODC001_PRIME	C, M, U	2006-017T17:09:00		000T00:10:00	2006-017T17:19:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA004_PRIME	C, M, U	2006-017T17:19:00		000T00:40:00	2006-017T17:59:00	ISS_NAC to Rhea	NEG_Z to NSP	
GIRS_020RH_SLOWSCAN4001_PRIME	M, U	2006-017T17:59:00		000T00:40:00	2006-017T18:39:00	GIRS_FP3 to Rhea	NEG_Z to NSP	
ISS_020RH_REGMAPD001_PRIME	C, M, U	2006-017T18:39:00		000T00:10:00	2006-017T18:49:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA005_PRIME	C, M, U	2006-017T18:49:00		000T00:40:00	2006-017T19:29:00	ISS_NAC to Rhea	NEG_Z to NSP	(for >90 deg. Phase, target to center of illum. Portion of Rhea)
GIRS_020RH_SLOWSCAN5001_PRIME	M, U	2006-017T19:29:00		000T00:40:00	2006-017T20:09:00	GIRS_FP3 to Rhea	NEG_Z to NSP	
ISS_020RH_REGGEODE001_PRIME	C, M, U	2006-017T20:09:00		000T00:10:00	2006-017T20:19:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA006_PRIME	C, M, U	2006-017T20:19:00		000T00:40:00	2006-017T20:59:00	ISS_NAC to Rhea	NEG_Z to NSP	
GIRS_020RH_SLOWSCAN6001_PRIME	M, U	2006-017T20:59:00		000T00:40:00	2006-017T21:39:00	GIRS_FP3 to Rhea	NEG_Z to NSP	
ISS_020RH_REGGEODF001_PRIME	C, M, U	2006-017T21:39:00		000T00:10:00	2006-017T21:49:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA007_PRIME	C, M, U	2006-017T21:49:00		000T00:40:00	2006-017T22:29:00	ISS_NAC to Rhea	NEG_Z to NSP	
GIRS_020RH_SLOWSCAN7001_PRIME	M, U	2006-017T22:29:00		000T00:40:00	2006-017T23:09:00	GIRS_FP3 to Rhea	NEG_Z to NSP	
ISS_020RH_REGGEODG001_PRIME	C, M, U	2006-017T23:09:00		000T00:10:00	2006-017T23:19:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA008_PRIME	C, M, U	2006-017T23:19:00		000T00:40:00	2006-017T23:59:00	ISS_NAC to Rhea	NEG_Z to NSP	
GIRS_020RH_SLOWSCAN8001_PRIME	M, U	2006-017T23:59:00		000T00:40:00	2006-018T00:39:00	GIRS_FP3 to Rhea	NEG_Z to NSP	
ISS_020RH_REGGEODH001_PRIME	C, M, U	2006-018T00:39:00		000T00:10:00	2006-018T00:49:00	ISS_NAC to Rhea	NEG_Z to NSP	
VIMS_020RH_RHEA009_PRIME	C, M, U	2006-018T00:49:00		000T00:40:00	2006-018T01:29:00	ISS_NAC to Rhea	NEG_Z to NSP	
GIRS_020RH_SLOWSCAN9001_PRIME	M, U	2006-018T01:29:00		000T00:40:00	2006-018T02:09:00	GIRS_FP3 to Rhea	NEG_Z to NSP	
SP_020EA_DLTURN018_PRIME	M	2006-018T02:09:00		000T00:28:00	2006-018T02:37:00	XBAND to Earth	NEG_X to NSP	
SP_020EA_G70METOTP018_PRIME	M, N	2006-018T02:37:00		000T08:57:00	2006-018T11:34:00	XBAND to Earth	Rolling	
SP_020DI_WAYPTTURN018_PRIME	M	2006-018T11:34:00		000T00:18:00	2006-018T11:52:00	ISS_NAC to Dione	POS_Z to NSP	
NEW WAYPOINT		2006-018T11:52:00		001T00:32:00	2006-019T12:24:00	ISS_NAC to Dione	POS_Z to NSP	
ISS_020DI_022W157PH001_PRIME	C, M, U	2006-018T11:52:00		000T00:27:00	2006-018T12:19:00	UVIS_FUV to Dione	POS_Z to NSP	
GIRS_020RH_FP3DARK001_PRIME	M, U	2006-018T12:19:00		000T01:53:00	2006-018T14:12:00	GIRS_FP3 to Rhea	POS_X to NSP	S_N_ER_5
UVIS_020SA_AURORA001_PRIME	C, M	2006-018T14:12:00		000T01:43:00	2006-018T15:55:00	ISS_NAC to Saturn	POS_Z to NSP	
ISS_020MI_022W158PH001_PRIME	M, U, V	2006-018T15:55:00		000T00:30:00	2006-018T16:25:00	UVIS_FUV to Mimas	POS_Z to NSP	S_N_ER_5
ISS_020OT_RETHIEQPL001_PRIME	M	2006-018T16:25:00		000T00:37:00	2006-018T17:02:00	ISS_NAC to Satellites	POS_Z to NSP	
ISS_020CP_MUTUALEVE001_PRIME	M, V	2006-018T17:02:00		000T00:18:00	2006-018T17:20:00	ISS_NAC to Titan	POS_Z to NSP	Calypto transit in front of Titan crescent/ no return to WP
ISS_020EN_094W151PH001_PRIME	M, U, V	2006-018T17:20:00		000T00:30:00	2006-018T17:50:00	UVIS_FUV to Enceladus	POS_Z to NSP	take over at Titan/ Calypto; S_N_ER_5
CAPS_020CO_RNGSATPTG001_PRIME	M	2006-018T17:50:00		000T01:40:00	2006-018T19:30:00	ISS_NAC to Dione (0.0,0.0,30.0 deg. offset)	POS_Z to NSP	
ISS_020TE_094W147PH001_PRIME	C, M, U, V	2006-018T19:30:00		000T00:30:00	2006-018T20:00:00	UVIS_FUV to Tethys	POS_Z to NSP	S_N_ER_5
CAPS_020CO_RNGSATPTG002_PRIME	M	2006-018T20:00:00		000T00:50:00	2006-018T20:50:00	ISS_NAC to Dione (0.0,0.0,30.0 deg. offset)	POS_Z to NSP	
ISS_020MI_094W151PH001_PRIME	M, U, V	2006-018T20:50:00		000T00:30:00	2006-018T21:20:00	UVIS_FUV to Mimas	POS_Z to NSP	S_N_ER_5
UVIS_020SA_DAYGLOW003_PRIME	M	2006-018T21:20:00		000T02:05:00	2006-018T23:25:00	ISS_NAC to Saturn	NEG_Z to Sun	
ISS_020EN_166W154PH001_PRIME								

ISS_0200T_RETHIEQL005_PRIME	M	2006-018T23:55:00		000T01:10:00	2006-019T01:05:00	ISS_NAC to Satellites	POS_Z to NSP	
ISS_020MI_166W154PH001_PRIME	M, U, V	2006-019T01:05:00		000T00:30:00	2006-019T01:05:00	UVIS_FUV to Mimas	POS_Z to NSP	S N ER 5
UVIS_020SA_AURORA002_PRIME	M	2006-019T01:35:00		000T00:20:00	2006-019T01:35:00	ISS_NAC to Saturn	POS_Z to NSP	
ISS_020TE_MUTUALEVE004_PRIME	M	2006-019T01:55:00		000T00:29:00	2006-019T02:24:00	ISS_NAC to Tethys	POS_Z to NSP	
SP_020EA_DLTURN019_PRIME	M	2006-019T02:24:00		000T00:21:00	2006-019T02:45:00	XBAND to Earth	POS_X to NSP	
SP_020EA_G70METOTB019_PRIME	M, N	2006-019T02:45:00		000T09:14:00	2006-019T11:59:00	XBAND to Earth	Rolling	
SOST rev 22 Segment		2006-079T00:04:00		002T07:15:00	2006-081T07:19:00			
SP_022SA_WAYPTTURN079_PRIME	M	2006-079T00:04:00		000T00:27:00	2006-079T00:31:00	ISS_NAC to Saturn	POS_X to NSP	safe WP; 25 min turn from +X to NEP
NEW WAYPOINT		2006-079T00:31:00		000T12:20:00	2006-079T21:51:00	ISS_NAC to Saturn	POS_X to NSP	
UVIS_0225T_EPSORIO02_PRIME	M	2006-079T00:31:00		000T01:14:00	2006-079T01:45:00	UVIS_FUV to 84.053/-1.202 (0.082,0.0,0.0 deg. offset)	POS_X to NSP	
UVIS_0225T_BETORIO04_PRIME	I, M	2006-079T01:45:00		000T01:20:00	2006-079T03:05:00	UVIS_FUV to 78.634/-8.202 (0.082,0.0,0.0 deg. offset)	POS_X to NSP	
VIMS_0225A_CYLMAPO01_PRIME	M, U	2006-079T03:05:00		000T01:30:00	2006-079T04:35:00	VIMS_IR to Saturn	POS_X to NSP	
UVIS_0225T_EPSORIO03_PRIME	I, M	2006-079T04:35:00		000T00:57:30	2006-079T05:32:30	UVIS_FUV to 84.053/-1.202 (0.082,0.0,0.0 deg. offset)	POS_X to NSP	
UVIS_0225T_ZETORIO02_PRIME	I, M	2006-079T05:32:30		000T00:57:30	2006-079T06:30:00	UVIS_FUV to 85.189/-1.94 (0.082,0.0,0.0 deg. offset)	POS_X to NSP	
VIMS_0225A_CYLMAPO02_PRIME	M, U	2006-079T06:30:00		000T02:30:00	2006-079T09:00:00	VIMS_IR to Saturn	POS_X to NSP	
ISS_022EP_MUTUALEVE017_PRIME	M	2006-079T09:00:00		000T00:32:00	2006-079T09:32:00	ISS_NAC to Epimetheus	POS_X to NSP	
ISS_022OT_RETHIEQL002_PRIME	M	2006-079T09:32:00		000T00:30:00	2006-079T10:02:00	ISS_NAC to Retargetable	POS_X to NSP	
VIMS_0225A_CYLMAPO03_PRIME	M, U	2006-079T10:02:00		000T00:38:00	2006-079T10:40:00	VIMS_IR to Saturn	POS_X to NSP	
VIMS_0225A_ALPCMI0CC001_PRIME	I, M, U, V	2006-079T10:40:00		000T01:30:00	2006-079T12:10:00	VIMS_IR to Star	POS_X to NSP	
VIMS_0225A_CYLMAPO04_PRIME	M, U	2006-079T12:10:00		000T01:56:00	2006-079T14:06:00	VIMS_IR to Saturn	POS_X to NSP	
ISS_022TI_1X1PT140001_PRIME	M	2006-079T14:06:00		000T01:15:00	2006-079T15:21:00	ISS_NAC to Titan	POS_X to NSP	
SP_022EA_DLTURN079_PRIME	M	2006-079T15:21:00		000T00:20:00	2006-079T15:41:00	XBAND to Earth	POS_X to NEP	16.1 min turn
SP_022EA_M70METON079_PRIME	C, M	2006-079T15:41:00		000T06:00:00	2006-079T21:41:00	XBAND to Earth	3 Hr Rolling	
Periapse per = 39.4 d, inc ...		2006-079T20:04:45		000T00:00:01	2006-079T20:04:45			
SP_022MI_WAYPTTURN079_PRIME	M	2006-079T21:41:00		000T00:10:00	2006-079T21:51:00	ISS_NAC to Mimas	POS_X to NEP	6 min turn; safe WP
NEW WAYPOINT		2006-079T21:51:00		000T03:39:00	2006-080T01:30:00	ISS_NAC to Mimas	POS_X to NEP	
ISS_022MI_GEOLOG002_PRIME	C, M, U, V	2006-079T21:51:00		000T00:20:00	2006-079T22:11:00	ISS_NAC to Mimas	POS_X to NEP	
CIRS_0225A_LIMBINT002_PRIME	C, M, U	2006-079T22:11:00		000T02:19:00	2006-080T00:30:00	CIRS_FP3 to Saturn	POS_X to NSP	
ISS_022MI_GEOLOG003_PRIME	C, M, U, V	2006-080T00:30:00		000T00:30:00	2006-080T01:00:00	CIRS_FP3 to Mimas	POS_X to NEP	
SP_022RH_WAYPTTURN080_PRIME	C, M	2006-080T01:00:00		000T00:30:00	2006-080T01:30:00	ISS_NAC to Rhea	POS_Z to NSP	23.3 min turn; safe WP
NEW WAYPOINT		2006-080T01:30:00		000T07:50:00	2006-080T09:20:00	ISS_NAC to Rhea	POS_Z to NSP	
ISS_022RH_REGGEODA001_PRIME	C, M, U, V	2006-080T01:30:00		000T00:15:00	2006-080T01:45:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_022RH_FP3FP1DAY001_PRIME	M, U, V	2006-080T01:45:00		000T01:30:00	2006-080T03:15:00	CIRS_FP3 to Rhea	POS_Z to NSP	
ISS_022RH_REGGEODB001_PRIME	C, M, U, V	2006-080T03:15:00		000T00:30:00	2006-080T03:45:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_022RH_FP3CAND001_PRIME	M, U, V	2006-080T03:45:00		000T00:45:00	2006-080T04:30:00	CIRS_FP3 to Rhea	POS_Z to NSP	
ISS_022RH_REGMAP001_PRIME	C, M, U, V	2006-080T04:30:00		000T00:30:00	2006-080T05:00:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_022RH_FP1N5SCAND001_PRIME	M, U, V	2006-080T05:00:00		000T00:15:00	2006-080T05:15:00	CIRS_FP1 to Rhea	POS_Z to NSP	
CIRS_022RH_FP3CRESC001_PRIME	M, R, U, V	2006-080T05:15:00		000T01:30:00	2006-080T06:45:00	CIRS_FP3 to Rhea	POS_Z to NSP	
ISS_022RH_REGGEODD001_PRIME	C, R, U, V	2006-080T06:45:00		000T01:15:00	2006-080T08:00:00	ISS_NAC to Rhea	POS_Z to NSP	
CIRS_022RH_FP1DRKMAP001_PRIME	R, U, V	2006-080T08:00:00		000T01:00:00	2006-080T09:00:00	CIRS_FP1 to Rhea	POS_Z to NSP	
SP_022RH_WAYPTTURN580_PRIME	R	2006-080T09:00:00		000T00:20:00	2006-080T09:20:00	NEG_Z to Rhea	POS_X to NSP	18 min turn
NEW WAYPOINT		2006-080T09:20:00		000T07:40:00	2006-080T17:00:00	NEG_Z to Rhea	POS_X to NSP	
RADAR_022RH_SCATTRAD001_PRIME		2006-080T09:20:00		000T07:20:00	2006-080T16:40:00	NEG_Z to Rhea	POS_X to NSP	RADAR must control primary and secondary axes to obtain correct polarization.
SP_022SA_WAYPTTURN080_PRIME	C	2006-080T16:40:00		000T00:20:00	2006-080T17:00:00	ISS_NAC to Saturn	POS_X to NSP	17 min turn
NEW WAYPOINT		2006-080T17:00:00		000T14:49:00	2006-081T07:49:00	ISS_NAC to Saturn	POS_X to NSP	
ISS_022RH_PHOTOOPPS001_PRIME	C, U, V	2006-080T17:00:00		000T01:17:00	2006-080T18:17:00	ISS_NAC to Rhea	POS_X to NSP	
ISS_022OT_RETHIEQL005_PRIME	C	2006-080T18:17:00		000T00:43:00	2006-080T19:00:00	ISS_NAC to Retargetable	POS_X to NSP	
UVIS_0225A_AURORA001_PRIME	C, V	2006-080T19:00:00		000T01:45:00	2006-080T20:45:00	UVIS_FUV to Saturn (-3.439,0.0,0.0 deg. offset)	NEG_Z to NSP	
UVIS_0225A_DAYGLOW002_PRIME	C, V	2006-080T20:45:00		000T00:45:00	2006-080T21:30:00	UVIS_EUV to Saturn (2.9,0.0,0.0 deg. offset)	NEG_Z to Sun	
ISS_022JA_MUTUALEVE016_PRIME		2006-080T21:30:00		000T00:31:00	2006-080T22:01:00	ISS_NAC to Janus	POS_X to NSP	
SP_022EA_DLTURN080_PRIME		2006-080T22:01:00		000T00:18:00	2006-080T22:19:00	XBAND to Earth	POS_X to NEP	14.64 min turn
SP_022EA_G70METOTP080_PRIME	N	2006-080T22:19:00		000T09:00:00	2006-081T07:19:00	XBAND to Earth	POS_X to NEP	
SOST rev 45 Segment		2007-146T04:12:00		001T23:44:00	2007-148T03:56:00			
SP_045SA_WAYPTTURN146_PRIME	M	2007-146T04:12:00		000T00:18:00	2007-146T04:30:00	ISS_NAC to Saturn	NEG_X to Sun	15.4 min turn from +X to NEP; safe WP
NEW WAYPOINT		2007-146T04:30:00		000T14:41:00	2007-146T19:11:00	ISS_NAC to Saturn	NEG_X to Sun	
UVIS_045SA_AURORA001_PRIME	C, M	2007-146T04:30:00		000T05:00:00	2007-146T09:30:00	ISS_NAC to Saturn	NEG_X to Sun	
SP_045EA_DLTURN146_PRIME	M	2007-146T09:30:00		000T00:27:00	2007-146T09:57:00	XBAND to Earth	POS_X to NEP	15.7 min turn
SP_045EA_M34HEFOTB146_PRIME	M, N	2007-146T09:57:00		000T08:46:00	2007-146T18:43:00	XBAND to Earth	POS_X to NEP	
SP_045TE_WAYPTTURN146_PRIME	M, N	2007-146T18:43:00		000T02:28:00	2007-146T19:11:00	ISS_NAC to Tethys (0.0,-50.0,0.0 deg. offset)	NEG_X to Sun	25.2 min turn; safe WP
NEW WAYPOINT		2007-146T19:11:00		000T10:39:00	2007-147T05:50:00	ISS_NAC to Tethys (0.0,-50.0,0.0 deg. offset)	NEG_X to Sun	
VIMS_045TE_TETHYS001_PRIME	C, I, M, U	2007-146T19:11:00		000T00:49:00	2007-146T20:00:00	ISS_NAC to Tethys (0.0,-50.0,0.0 deg. offset)	NEG_X to Sun	None
VIMS_045RF_HIPHASE001_PRIME	I, M, U	2007-146T20:00:00		000T01:45:00	2007-146T21:45:00	VIMS_IR to Rings	POS_Z to NSP	None
45TE (nt) TETHYS Inbound 10...		2007-146T20:47:25		000T00:00:01	2007-146T20:47:25			
VIMS_045TE_TETHYS002_PRIME	C, I, M, U	2007-146T21:45:00		000T00:40:00	2007-146T22:25:00	ISS_NAC to Tethys (0.0,-50.0,0.0 deg. offset)	NEG_X to Sun	None
ISS_045TE_COLORF003_PRIME	C, M, U, V	2007-146T22:25:00		000T00:20:00	2007-146T22:45:00	ISS_NAC to Tethys (0.0,-50.0,0.0 deg. offset)	NEG_X to Sun	S N ER 3
CIRS_045TE_TFP3MAP001_PRIME	I, M, U, V	2007-146T22:45:00		000T00:15:00	2007-146T23:00:00	CIRS_FP3 to Tethys (0.0,-50.0,0.0 deg. offset)	NEG_X to Sun	
CIRS_045MI_MIMASX001_PRIME	C, I, M, U, V	2007-146T23:00:00		000T03:00:00	2007-147T02:30:00	CIRS_FP1 to Mimas (0.0,30.0,0.0 deg. offset)	POS_Z to Sun	S&ER-2 for RPWS
Periapse R = 3.2 Rs, lat = ...		2007-147T00:28:44		000T00:00:01	2007-147T00:28:44			
ISS_045TE_GLOCOL001_PRIME	C, M, U, V	2007-147T02:00:00		000T00:30:00	2007-147T02:30:00	ISS_NAC to Tethys (0.0,-50.0,0.0 deg. offset)	NEG_X to Sun	S N ER 5
CIRS_045MI_MIMAS002_PRIME	C, I, M, U, V	2007-147T02:30:00		000T02:00:00	2007-147T04:30:00	CIRS_FP1 to Mimas	POS_Z to Sun	
CIRS_045TE_FP3GLOBAL383_PRIME	C, I, M, U, V	2007-147T04:30:00		000T01:00:00	2007-147T05:30:00	CIRS_FP3 to Tethys (0.0,-50.0,0.0 deg. offset)	NEG_X to Sun	
SP_045MI_WAYPTTURN147_PRIME	M	2007-147T05:30:00		000T00:20:00	2007-147T05:50:00	ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset)	NEG_X to Sun	10.3 min turn; safe WP
NEW WAYPOINT		2007-147T05:50:00		000T08:10:00	2007-147T14:00:00	ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset)	NEG_X to Sun	
UVIS_045MI_ICYLON003_PRIME	C, I, M	2007-147T05:50:00		000T00:30:00	2007-147T06:20:00	ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset)	NEG_X to Sun	
VIMS_045MI_MIMAS002_PRIME	C, I, M, U	2007-147T06:20:00		000T00:30:00	2007-147T06:50:00	ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset)	NEG_X to Sun	
UVIS_045MI_ICYLON005_PRIME	C, I, M, R	2007-147T06:50:00		000T01:00:00	2007-147T07:50:00	ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset)	NEG_X to Sun	
VIMS_045MI_MIMAS003_PRIME	C, I, M, R, U	2007-147T07:50:00		000T01:10:00	2007-147T09:00:00	ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset)	NEG_X to Sun	None
UVIS_045MI_ICYLON007_PRIME	C, I, M, R	2007-147T09:00:00		000T00:30:00	2007-147T09:30:00	ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset)	NEG_X to Sun	
ISS_045EN_OPPSGA001_PRIME	M, R, U, V	2007-147T09:30:00		000T01:30:00	2007-147T11:00:00	ISS_NAC to Enceladus	POS_Z to NSP	
Begin Custom		2007-147T11:00:00		000T00:01:00	2007-147T11:01:00			
RADAR_045RH_SCATTRADL001_PRIME	M	2007-147T11:00:00		000T01:12:00	2007-147T12:12:00	NEG_Z to Rhea (0.0,0.0,-8.0 deg. offset)	POS_X to NSP	Pick up at ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset), NEG_X to Sun; Hand off at NEG_Z to Rhea (0.0,0.0,-8.0 deg. offset), POS_X to NSP.
UVIS_045DI_ICYOCC096_PRIME	I, M	2007-147T12:12:00		000T00:30:00	2007-147T12:42:00	UVIS_FUV to 152.093/11.967	NEG_Z to NSP	Pick up at NEG_Z to Rhea (0.0,0.0,-8.0 deg. offset), POS_X to NSP; Hand off at NEG_Z to Rhea (0.0,0.0,-8.0 deg. offset), POS_X to NSP.
RADAR_045RH_SCATTRADL002_PRIME	M	2007-147T12:42:00		000T00:33:00	2007-147T13:15:00	NEG_Z to Rhea (0.0,0.0,-8.0 deg. offset)	POS_X to NSP	Pick up at NEG_Z to Rhea (0.0,0.0,-8.0 deg. offset), POS_X to NSP; Hand off at ISS_NAC to Mimas (0.0,-60.0,0.0 deg. offset), NEG_X to Sun.
End Custom		2007-147T13:15:00		000T00:01:00	2007-147T13:16:00			
SP_045RH_WAYPTTURN147_PRIME	M	2007-147T13:15:00		000T00:28:30	2007-147T13:43:30	ISS_NAC to Rhea (0.0,0.0,40.0 deg. offset)	NEG_X to Sun	split turn; 27 min turn
SP_045RH_WAYPTTURN447_PRIME	M	2007-147T13:43:30		000T00:16:30	2007-147T14:00:00	ISS_NAC to Rhea (0.0,88.0,0.0 deg. offset)	NEG_X to Sun	14 min turn; safe WP



NEW WAYPOINT		2007-147114:00:00		000T14:26:00	2007-148T04:26:00	ISS_NAC to Rhea (0,0,88,0,0 deg. offset)	NEG_X to Sun	
ISS_045RH_REGGEO001_PRIME	C, M, U, V	2007-147114:00:00		000T00:10:00	2007-147T14:10:00	ISS_NAC to Rhea (0,0,88,0,0 deg. offset)	NEG_X to Sun	
UVIS_045RH_LIMBSCANO01_PRIME	C, M	2007-147T14:10:00		000T00:50:00	2007-147T15:00:00	UVIS_FUV to Rhea (-0.489,0,0,-1.377 deg. offset)	NEG_X to Sun	
VIMS_045RH_RHEA001_PRIME	C, I, M, U	2007-147T15:00:00		000T01:00:00	2007-147T16:00:00	ISS_NAC to Rhea (0,0,88,0,0 deg. offset)	NEG_X to Sun	pickup from UVIS; direct handoff to CIRS
CIRS_045RH_FP13MAPS001_PRIME	M, U	2007-147T16:00:00		000T00:30:00	2007-147T16:30:00	CIRS_FP3 to Rhea (0,0,88,0,0 deg. offset)	NEG_X to Sun	
ISS_045RH_REGMAP001_PRIME	C, M, R, U, V	2007-147T16:30:00		000T00:30:00	2007-147T17:00:00	ISS_NAC to Rhea (0,0,88,0,0 deg. offset)	NEG_X to Sun	
CIRS_045RH_RHPF3MAP002_PRIME	M, R, U, V	2007-147T17:00:00		000T00:45:00	2007-147T17:45:00	CIRS_FP3 to Rhea (0,0,88,0,0 deg. offset)	NEG_X to Sun	
VIMS_045RH_RHEA006_PRIME	C, I, M, R, U	2007-147T17:45:00		000T00:30:00	2007-147T18:15:00	ISS_NAC to Rhea (0,0,88,0,0 deg. offset)	NEG_X to Sun	
ISS_045RH_REGGEO002_PRIME	C, M, R, U, V	2007-147T18:15:00		000T00:15:00	2007-147T18:30:00	ISS_NAC to Rhea (0,0,88,0,0 deg. offset)	NEG_X to Sun	
SP_045EA_DLTURN147_PRIME	M, R	2007-147T18:30:00		000T00:26:00	2007-147T18:56:00	XBAND to Earth	POS_X to NEP	12.9 min turn
SP_045EA_G70METNON147_PRIME	C, M, R	2007-147T18:56:00		000T09:00:00	2007-148T03:56:00	XBAND to Earth	Rolling	
SOST rev 47 Segment		2007-178T02:08:00		001T23:57:00	2007-180T02:05:00			
SP_047SA_WAYPTTURN178_PRIME	M	2007-178T02:08:00		000T00:22:00	2007-178T02:30:00	ISS_NAC to Saturn	POS_X to NSP	6.2 min turn; safe WP
NEW WAYPOINT		2007-178T02:30:00		000T15:10:00	2007-178T17:40:00	ISS_NAC to Saturn	POS_X to NSP	
UVIS_047SA_AURORA001_PRIME	C, M	2007-178T02:30:00		000T02:30:00	2007-178T05:00:00	ISS_NAC to Saturn	NEG_X to Sun	S&ER3
CIRS_047SA_NADIROCC005_PRIME	M	2007-178T05:00:00		000T03:00:00	2007-178T08:00:00	CIRS_FP3 to Saturn	NEG_Z to NSP	SNER_3
SP_047EA_DLTURN178_PRIME	M	2007-178T08:00:00		000T00:10:00	2007-178T08:10:00	XBAND to Earth	POS_X to NSP	6.2 min turn
SP_047EA_M34HOFOTB178_PRIME	M, N	2007-178T08:10:00		000T09:00:00	2007-178T17:10:00	XBAND to Earth	POS_X to NSP	
SP_047TE_WAYPTTURN178_PRIME	M	2007-178T17:10:00		000T00:30:00	2007-178T17:40:00	ISS_NAC to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	22.2 min turn; safe WP
NEW WAYPOINT		2007-178T17:40:00		000T03:33:31	2007-178T21:13:31	ISS_NAC to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	
SP_047NA_DEADTIME178_PRIME	M	2007-178T17:40:00		000T00:11:31	2007-178T17:51:31	ISS_NAC to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	
ISS_047IE_PHOTOM001_PRIME	C, M, U, V	2007-178T17:51:31	GMB E047 Peri-000T07:02:00	000T00:15:00	2007-178T18:06:31	ISS_NAC to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	SNER3, secondary for CAPS
CIRS_047IE_FP1NITMAP001_PRIME	M, U, V	2007-178T18:06:31	GMB E047 Peri-000T06:47:00	000T00:37:00	2007-178T18:43:31	CIRS_FP1 to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	SNER_3; secondary for CAPS. 15 min. cut for dead time to be recovered (if possible) in aftermarket.
ISS_047IE_GEOLOG001_PRIME	C, M, U, V	2007-178T18:43:31	GMB E047 Peri-000T06:10:00	000T00:15:00	2007-178T18:58:31	ISS_NAC to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	SNER_3; secondary for CAPS
CIRS_047IE_FP1WINPOL001_PRIME	M, U, V	2007-178T18:58:31	GMB E047 Peri-000T05:55:00	000T00:50:00	2007-178T19:48:31	CIRS_FP1 to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	SNER_2 for RPWS; secondary for CAPS.
ISS_047IE_GEOLOG002_PRIME	C, M, U, V	2007-178T19:48:31	GMB E047 Peri-000T05:05:00	000T00:50:00	2007-178T20:38:31	ISS_NAC to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	SNER_3; secondary for CAPS
UVIS_047IE_ICYMAP003_PRIME	C, M, V	2007-178T20:38:31	GMB E047 Peri-000T04:35:00	000T00:20:00	2007-178T20:58:31	ISS_NAC to Tethys (0,0,65,0,0 deg. offset)	NEG_X to Sun	
SP_047TE_WAYPTTURN478_PRIME	M, R	2007-178T20:58:31	GMB E047 Peri-000T03:55:00	000T00:15:00	2007-178T21:13:31	ISS_NAC to Tethys (0,0,30,0,0 deg. offset)	POS_X to NSP	9.1 min turn; safe WP
NEW WAYPOINT		2007-178T21:13:31		000T01:55:00	2007-178T23:08:31	ISS_NAC to Tethys (0,0,30,0,0 deg. offset)	POS_X to NSP	
VIMS_047TE_TETHYS001_PRIME	C, M, R, U	2007-178T21:13:31	GMB E047 Peri-000T03:40:00	000T00:30:00	2007-178T21:43:31	ISS_NAC to Tethys (0,0,30,0,0 deg. offset)	POS_X to NSP	SNER_3; secondary, offset for CAPS and MAG
ISS_047TE_GEOLOG003_PRIME	C, M, R, U	2007-178T21:43:31	GMB E047 Peri-000T03:10:00	000T00:15:00	2007-178T21:58:31	ISS_NAC to Tethys (0,0,30,0,0 deg. offset)	POS_X to NSP	SNER_3; secondary, offset for CAPS and MAG
CIRS_047TE_FP3DAYMAP001_PRIME	M, R, U, V	2007-178T21:58:31	GMB E047 Peri-000T02:55:00	000T00:45:00	2007-178T22:43:31	CIRS_FP1 to Tethys (0,0,30,0,0 deg. offset)	POS_X to NSP	SNER_3; secondary, offset for CAPS and MAG.
SP_047EA_WAYPTTURN178_PRIME	M, R	2007-178T22:43:31	GMB E047 Peri-000T02:10:00	000T00:25:00	2007-178T23:08:31	XBAND to Earth	NEG_X to NSP	22.2 min turn; safe WP
NEW WAYPOINT		2007-178T23:08:31		000T00:41:57	2007-178T23:50:28	XBAND to Earth	NEG_X to NSP	
RSS_047SA_OCCOUT001_PRIME	M	2007-178T23:08:31	LUB E047 Peri-000T01:45:00	000T00:35:00	2007-178T23:43:31	XBAND to Earth	NEG_X to NSP	SNER_3; Secondary axis for MAG and CAPS
SP_047DR_RAMAVOID179_PRIME	M, R	2007-178T23:43:31	GMB E047 Peri-000T01:10:00	000T00:06:57	2007-178T23:50:28	NEG_Z to Dust_RAM (0,0,0,0,30,0 deg. offset)	NEG_X to NSP	4.75 min turn; S&ER-5a for 15 min
NEW WAYPOINT		2007-178T23:50:28		000T01:00:03	2007-179T00:50:31	NEG_Z to Dust_RAM (0,0,0,0,30,0 deg. offset)	NEG_X to NSP	
MP_047DR_DUSTHAZRD002_PRIME	M, R	2007-178T23:50:28	GMB E047 Peri-000T01:03:03	000T00:38:10	2007-179T00:28:38	NEG_Z to Dust_RAM (0,0,0,0,30,0 deg. offset)	NEG_X to NSP	S&ER-3 starting at Peri-00:50
SP_047DR_WAYPTTURN179_PRIME	M, R	2007-179T00:29:31	GMB E047 Peri-000T00:24:00	000T00:21:00	2007-179T00:50:31	NEG_X to Dust_RAM	POS_Y to NSP	18.3 min turn; safe WP
NEW WAYPOINT		2007-179T00:50:31		000T00:22:50	2007-179T01:13:21	NEG_X to Dust_RAM	POS_Y to NSP	
Periapse R = 2.5 Rs, lat = ...		2007-179T00:53:30		000T00:00:01	2007-179T00:53:31			
INMS_047CO_RNGATM001_PRIME	M, R	2007-179T00:54:31	GMB E047 Peri+000T00:01:00	000T00:05:00	2007-179T00:59:31	NEG_X to Dust_RAM	PIC	S & ER_3
SP_047MI_WAYPTTURN179_PRIME	M, R	2007-179T00:59:31	GMB E047 Peri+000T00:06:00	000T00:13:50	2007-179T01:13:21	CIRS_FP1 to Mimas (0,0,20,0,0 deg. offset)	POS_X to NSP	10.8 min turn; safe WP
NEW WAYPOINT		2007-179T01:13:21		001T01:21:39	2007-180T02:35:00	CIRS_FP1 to Mimas (0,0,20,0,0 deg. offset)	POS_X to NSP	
SP_047NA_DEADTIME179_PRIME	M, R	2007-179T01:13:21	GMB E047 Peri+000T00:19:50	000T00:11:39	2007-179T01:25:00	CIRS_FP1 to Mimas (0,0,20,0,0 deg. offset)	POS_X to NSP	
CIRS_047MI_FP1SECLXP001_PRIME	M, R	2007-179T01:25:00		000T00:30:00	2007-179T01:55:00	CIRS_FP1 to Mimas (-0.115,20,0,0 deg. offset)	POS_X to NSP	
ISS_047MI_GLOCOL001_PRIME	C, M, R, U, V	2007-179T01:55:00		000T00:35:00	2007-179T02:30:00	ISS_NAC to Mimas (0,0,20,0,0 deg. offset)	POS_X to NSP	SNER3, secondary for MAG; last 10 min is FP1 on Mimas
RADAR_047MI_SCATTRAD001_PRIME	M	2007-179T02:30:00		000T01:50:00	2007-179T04:20:00	NEG_Z to Mimas	POS_X to NSP	RADAR must control primary and secondary axes to obtain correct polarization.
UVIS_047SI_URZETORID01_PRIME	M, U	2007-179T04:20:00		000T01:40:00	2007-179T06:00:00	UVIS_FUV to 85.19/-1.942	POS_X to NSP	S&ER3; secondary for MAG
CIRS_047SA_FTRACK1001_PRIME	M, R	2007-179T06:00:00		000T06:30:00	2007-179T12:30:00	CIRS_FP3 to Saturn	POS_X to NSP	S&ER-3 to S&ER-5a 11:30-11:45, then back to S&ER-3; secondary for MAG
ISS_047EN_GLOCOL001_PRIME	C, M, R, U, V	2007-179T12:30:00		000T01:00:00	2007-179T13:30:00	ISS_NAC to Enceladus	POS_X to NSP	S_N_ER -5a; secondary for MAG
Begin Custom		2007-179T13:30:00		000T00:01:00	2007-179T13:31:00			
UVIS_047RH_ICYEX001_PRIME	M, R, V	2007-179T13:30:00		000T01:10:00	2007-179T14:40:00	UVIS_FUV to 84.053/-1.2	NEG_X to Sun	Pick up at CIRS_FP1 to Mimas (0,0,20,0,0 deg. offset), POS_X to NSP; Hand off at NEG_Z to Rhea, POS_X to NSP.
RADAR_047RH_SCATTRADL001_PRIME	M, R	2007-179T14:40:00		000T00:55:00	2007-179T15:35:00	NEG_Z to Rhea	POS_X to NSP	Pick up at NEG_Z to Rhea, POS_X to NSP; Hand off at CIRS_FP1 to Mimas (0,0,20,0,0 deg. offset), POS_X to NSP.
End Custom		2007-179T15:35:00		000T00:01:00	2007-179T15:36:00			
SP_047EA_DLTURN179_PRIME	M, R	2007-179T15:35:00		000T00:21:00	2007-179T15:56:00	XBAND to Earth	POS_X to NEP	18.3 min turn
SP_047EA_G70METOPN179_PRIME	R, U	2007-179T16:05:00		000T10:00:00	2007-180T02:05:00	XBAND to Earth	5_Hr Rolling	waive maintenance on this stn; safe alt throughout? - YES
SOST rev 49 Segment		2007-239T22:20:00		002T18:14:00	2007-242T16:34:00			
SP_049SA_WAYPTTURN239_PRIME	M	2007-239T22:20:00		000T00:30:00	2007-239T23:50:00	ISS_NAC to Saturn	NEG_Z to NSP	16.8 min turn from -Z to EA, +X to NEP; safe WP
NEW WAYPOINT		2007-239T22:50:00		000T23:50:00	2007-240T22:40:00	ISS_NAC to Saturn	NEG_Z to NSP	
UVIS_049SA_MOS49APO005_PRIME	C, M	2007-239T22:50:00		000T14:00:00	2007-240T12:50:00	ISS_NAC to Saturn	NEG_Z to NSP	
SP_049EA_DLTURN240_PRIME	M	2007-240T12:50:00		000T00:30:00	2007-240T13:20:00	XBAND to Earth	POS_X to NEP	17.1 min turn
SP_049EA_G70METOTB240_PRIME	C, M, N	2007-240T13:20:00		000T09:00:00	2007-240T22:20:00	XBAND to Earth	POS_X to NEP	
SP_049SA_WAYPTTURN240_PRIME	M	2007-240T22:20:00		000T00:20:00	2007-240T22:40:00	ISS_NAC to Saturn (0,0,0,0,10,0 deg. offset)	POS_X to NEP	11.7 min turn from -Z to EA, +X to NEP; safe WP
NEW WAYPOINT		2007-240T22:40:00		000T11:35:00	2007-241T10:15:00	ISS_NAC to Saturn (0,0,0,0,10,0 deg. offset)	POS_X to NEP	
CIRS_049RF_FMOVIEC001_PRIME	I, M, V	2007-240T22:40:00		000T05:10:00	2007-241T03:50:00	CIRS_FP1 to Rings	POS_X to NSP	SNER-3
CIRS_049SA_COMPFT008_PRIME	M	2007-241T03:50:00		000T06:00:00	2007-241T09:50:00	CIRS_FP3 to Saturn (0,0,45,0,0 deg. offset)	POS_X to NSP	SNER-3
SP_049TE_WAYPTTURN241_PRIME	M	2007-241T09:50:00		000T00:25:00	2007-241T10:15:00	ISS_NAC to Tethys	POS_Z to NSP	15.7 min turn; safe WP
NEW WAYPOINT		2007-241T10:15:00		000T09:32:00	2007-241T19:47:00	ISS_NAC to Tethys	POS_Z to NSP	
CIRS_049TE_FP1DSKIN001_PRIME	M, U, V	2007-241T10:15:00		000T00:45:00	2007-241T11:00:00	CIRS_FP1 to Tethys	POS_Z to NSP	SNER-3
ISS_049TE_MORPHO001_PRIME	C, M, U, V	2007-241T11:00:00		000T01:40:00	2007-241T12:40:00	ISS_NAC to Tethys	POS_Z to NSP	S_N_ER -3; accommodate VIMS integration times
CIRS_049TE_FP1DSKOUT001_PRIME	M, U, V	2007-241T12:40:00		000T01:00:00	2007-241T13:40:00	CIRS_FP1 to Tethys	POS_Z to NSP	SNER-3
Periapse R = 5.4 Rs, lat = ...		2007-241T13:02:32		000T00:00:01	2007-241T13:02:33			
VIMS_049TE_TETHYS001_PRIME	C, M, U	2007-241T13:40:00		000T01:00:00	2007-241T14:40:00	ISS_NAC to Tethys	POS_Z to NSP	S&ER-3
ISS_049TE_COLORF001_PRIME	C, M, R, U, V	2007-241T14:40:00		000T01:00:00	2007-241T15:40:00	ISS_NAC to Tethys	POS_Z to NSP	SNER_3; accommodate VIMS integration times
UVIS_049TE_ICYLON006_PRIME	C, M, R, V	2007-241T15:40:00		000T00:30:00	2007-241T16:10:00	ISS_NAC to Tethys	POS_Z to NSP	S&ER-3
CIRS_049TE_FP3REGION001_PRIME	M, R, U, V	2007-241T16:10:00		000T00:30:00	2007-241T16:40:00	ISS_NAC to Tethys	POS_Z to NSP	SNER-5a 16:10-16:25; SNER-3.
ISS_049TE_MORPHO007_PRIME	C, M, R, U, V	2007-241T16:40:00		000T00:15:00	2007-241T16:55:00	ISS_NAC to Tethys	POS_Z to NSP	S_N_ER -3; accommodate VIMS integration times
SP_049EA_DLTURN241_PRIME	M, R	2007-241T16:55:00		000T00:30:00	2007-241T17:25:00	XBAND to Earth	POS_X to NEP	19.9 min turn
SP_049EA_G70METALT241_PRIME	M, R	2007-241T17:25:00		000T01:45:30	2007-241T19:10:30	XBAND to Earth	Rolling	
SP_049RH_WAYPTTURN241_PRIME	M, R	2007-241T19:32:00		000T00:15:00	2007-241T19:47:00	ISS_NAC to Rhea	POS_X to NSP	10.2 min turn; safe WP; S&ER-5A
NEW WAYPOINT		2007-241T19:47:00		001T01:32:00	2007-242T21:19:00	ISS_NAC to Rhea	POS_X to NSP	
SP_049NA_DEADTIME241_PRIME	M, R	2007-241T19:47:00		000T00:01:00	2007-241T19:48:00	ISS_NAC to Rhea	POS_X to NSP	
RADAR_049RH_SCATTRAD001_PRIME	M	20						

CIRS_049RH_HIRESMAP001_PRIME	J, M, U, V	2007-242T01:03:55	GMB_E049_Rhea+000T00:15:00	000T00:15:00	2007-242T01:18:55	CIRS_FP3 to Rhea	POS_X to NSP	SNER-2
ISS_049RH_HIGHRES001_PRIME	C, M, U, V	2007-242T01:18:55	GMB_E049_Rhea+000T00:00:00	000T01:00:00	2007-242T02:18:55	ISS_NAC to Rhea	POS_X to NSP	S_N ER -3
UVIS_049RH_ICYMAP008_PRIME	C, J, M, V	2007-242T02:18:55	GMB_E049_Rhea+000T01:00:00	000T00:45:00	2007-242T03:03:55	ISS_NAC to Rhea	POS_X to NSP	S&ER-3
CIRS_049RH_FP1DAYMAP001_PRIME	J, M, U, V	2007-242T03:03:55	GMB_E049_Rhea+000T01:45:00	000T00:30:00	2007-242T03:33:55	CIRS_FP1 to Rhea	POS_X to NSP	SNER-3
ISS_049RH_REGMAP001_PRIME	C, M, U, V	2007-242T03:33:55	GMB_E049_Rhea+000T02:15:00	000T01:40:00	2007-242T05:13:55	ISS_NAC to Rhea	POS_X to NSP	2 min dwell
CIRS_049RH_FP3DAYMAP001_PRIME	J, M, R, U	2007-242T05:13:55	GMB_E049_Rhea+000T03:55:00	000T00:45:00	2007-242T05:58:55	CIRS_FP3 to Rhea	POS_X to NSP	SNER-3
VIMS_049RH_RHEA003_PRIME	C, J, M, R, U	2007-242T05:58:55	GMB_E049_Rhea+000T04:40:00	000T01:07:00	2007-242T07:05:55	ISS_NAC to Rhea	POS_X to NSP	
SP_049NA_DEADTIME242_PRIME	R	2007-242T07:06:00		000T00:01:00	2007-242T07:07:00	ISS_NAC to Rhea	POS_X to NSP	
SP_049EA_DLTURN242_PRIME	R	2007-242T07:07:00		000T00:27:00	2007-242T07:34:00	XBAND to Earth	POS_X to NEP	20.2 min turn
SP_049EA_M34BWNON242_PRIME	C, R	2007-242T07:34:00		000T05:00:00	2007-242T12:34:00	XBAND to Earth	Rolling	
SP_049EA_G70METOPN242_PRIME	R	2007-242T12:34:00		000T08:15:00	2007-242T20:49:00	XBAND to Earth	Rolling	
SOST rev 49 Segment 11		2007-251T21:50:00		003T23:45:00	2007-255T21:35:00			
SP_049SA_WAYPTTURN251_PRIME		2007-251T21:50:00		000T00:30:00	2007-251T22:20:00	ISS_NAC to Saturn	NEG_Z to NSP	18 min turn from -Z to EA, +X to NEP; safe WP
NEW WAYPOINT		2007-251T22:20:00		000T06:29:00	2007-252T04:49:00	ISS_NAC to Saturn	NEG_Z to NSP	
VIMS_049SA_SATURN001_PRIME		2007-251T22:20:00		000T03:50:00	2007-252T02:10:00	ISS_NAC to Saturn	NEG_Z to NSP	
ISS_049SA_SATSYSFIA001_PRIME	R, V	2007-252T02:10:00		000T02:15:00	2007-252T04:25:00	ISS_NAC to Saturn	NEG_Z to NSP	S_N ER -5a. Track moons first (order: Hy,Ti,Te,Mi,Rh,En,Di), then Saturn.
SP_049IA_WAYPTTURN252_PRIME	R	2007-252T04:25:00		000T00:24:00	2007-252T04:49:00	ISS_NAC to Iapetus	NEG_X to NEP	21.9 min turn; safe WP; S&ER-5A
NEW WAYPOINT		2007-252T04:49:00		001T01:11:00	2007-253T06:00:00	ISS_NAC to Iapetus	NEG_X to NEP	
ISS_049IA_M33HRS001_PRIME	R, U, V	2007-252T04:49:00		000T00:06:00	2007-252T04:55:00	ISS_NAC to Iapetus	NEG_X to NEP	S_N ER -5A
RADAR_049IA_SCATTRAD003_PRIME		2007-252T04:55:00		000T04:55:00	2007-252T09:50:00	NEG_Z to Iapetus	POS_X to NEP	RADAR must control primary and secondary axes to obtain correct polarization.
CIRS_049IA_FP1FP3SCN001_PRIME	U, V	2007-252T09:50:00		000T02:00:00	2007-252T11:50:00	CIRS_FP1 to Iapetus	NEG_X to NEP	SNER-3
ISS_049IA_GLOBMAPG001_PRIME	C, U, V	2007-252T11:50:00		000T00:21:00	2007-252T12:11:00	ISS_NAC to Iapetus	NEG_X to NEP	S_N ER -3
SP_049EA_DLTURN252_PRIME		2007-252T12:11:00		000T00:08:00	2007-252T12:19:00	ISS_NAC to Iapetus (0.0,60.0,0.0 deg. offset)	NEG_X to NEP	
SP_049EA_DLTURN452_PRIME		2007-252T12:19:00		000T00:26:00	2007-252T12:45:00	XBAND to Earth	POS_X to NEP	
SP_049EA_G70METOTB252_PRIME	N	2007-252T12:45:00		000T08:49:00	2007-252T21:34:00	XBAND to Earth	Rolling/SRU	
SP_049IA_WAYPTTURN452_PRIME	N	2007-252T21:34:00		000T00:04:00	2007-252T21:38:00	XBAND to Earth	POS_X to NEP	
SP_049IA_WAYPTTURN552_PRIME	N, R	2007-252T21:38:00		000T00:27:00	2007-252T22:05:00	ISS_NAC to Iapetus	NEG_X to NEP	
ISS_049IA_LIMBTOPOG001_PRIME	C, R, U, V	2007-252T22:05:00		000T00:20:00	2007-252T22:25:00	ISS_NAC to Iapetus	NEG_X to NEP	S_N ER -5A
CIRS_049IA_NITPOLRIZ001_PRIME	C, R, U, V	2007-252T22:25:00		000T01:30:00	2007-252T23:55:00	CIRS_FP1 to Iapetus	NEG_X to NEP	SNER-5a
RADAR_049IA_SCATTRAD004_PRIME		2007-252T23:55:00		000T02:50:00	2007-253T02:45:00	NEG_Z to Iapetus	POS_Y to NEP	RADAR must control primary and secondary axes to obtain correct polarization.
VIMS_049IA_IAPETUS006_PRIME	C, R, U	2007-253T02:45:00		000T01:35:00	2007-253T04:20:00	ISS_NAC to Iapetus	NEG_X to NEP	S&ER-3
ISS_049IA_SATUSHINE001_PRIME	C, R, U, V	2007-253T04:20:00		000T01:06:00	2007-253T05:26:00	ISS_NAC to Iapetus	NEG_X to NEP	S_N ER -3
SP_049EA_DLTURN754_PRIME	C, R	2007-253T05:26:00		000T00:14:00	2007-253T05:40:00	NEG_X to Earth	POS_Y to NEP	12 min turn
SP_049EA_DLTURN854_PRIME	C, R	2007-253T05:40:00		000T00:20:00	2007-253T06:00:00	XBAND to Earth	NEG_X to NEP	18.5 min turn
NEW WAYPOINT		2007-253T06:00:00		000T16:40:00	2007-253T22:40:00	XBAND to Earth	NEG_X to NEP	
SP_049EA_M70METNON253_PRIME	R	2007-253T06:00:00		000T02:44:53	2007-253T08:44:53	XBAND to Earth	Rolling	
SP_049NA_DEADTIME253_PRIME	R	2007-253T08:45:00		000T00:05:00	2007-253T08:50:00	XBAND to Earth	NEG_X to NEP	S&ER-5A
Begin Custom		2007-253T08:50:00		000T00:01:00	2007-253T08:51:00			
CIRS_049IA_FP1INITMAP001_PRIME	J, R, U, V	2007-253T08:50:40	GMB_E049_Iapetus+000T05:25:00	000T02:15:00	2007-253T11:05:40	CIRS_FP1 to Iapetus	NEG_X to NEP	Pick up at XBAND to Earth, NEG_X to NEP; Hand off at ISS_NAC to Iapetus, NEG_X to NEP. SNER-5a.
RADAR_049IA_SCATTRAD001_PRIME	M	2007-253T11:05:40	GMB_E049_Iapetus+000T03:10:00	000T01:25:00	2007-253T12:30:40	NEG_Z to Iapetus	POS_X to NEP	Pick up at ISS_NAC to Iapetus, NEG_X to NEP; Hand off at ISS_NAC to Iapetus, NEG_X to SC_RAM.
ISS_049IA_CASREG001_PRIME	C, M, U	2007-253T12:30:40	GMB_E049_Iapetus+000T01:45:00	000T00:01:00	2007-253T12:31:40	ISS_NAC to Iapetus	NEG_X to SC_RAM	Pick up at ISS_NAC to Iapetus, NEG_X to SC_RAM; Hand off at ISS_NAC to Iapetus, NEG_X to SC_RAM. S_N ER -3
UVIS_049IA_ICYMAP003_PRIME	C, J, M	2007-253T12:31:40	GMB_E049_Iapetus+000T01:44:00	000T00:24:00	2007-253T12:55:40	ISS_NAC to Iapetus	NEG_X to SC_RAM	Pick up at ISS_NAC to Iapetus, NEG_X to SC_RAM; Hand off at UVIS_FUV to 283.816/-26.297 (0.0,-30.0,0.0 deg. offset), NEG_X to SC_RAM. Pickup at ISS_NAC -> LAT +2/+130, -X to SC_RAM (disregard the pickup primary in the Custom Period section).
UVIS_049IA_ICYEXO009_PRIME	C, J, M, V	2007-253T12:55:40	GMB_E049_Iapetus+000T01:20:00	000T00:25:00	2007-253T13:20:40	UVIS_FUV to 283.816/-26.297 (0.0,-30.0,0.0 deg. offset)	NEG_X to SC_RAM	Pick up at UVIS_FUV to 283.816/-26.297 (0.0,-30.0,0.0 deg. offset), NEG_X to SC_RAM; Hand off at UVIS_FUV to 283.816/-26.297 (0.0,-30.0,0.0 deg. offset), NEG_X to SC_RAM.
VIMS_049IA_ORSHRES001_PRIME	C, J, M, U	2007-253T13:20:40	GMB_E049_Iapetus+000T00:55:00	000T03:55:00	2007-253T17:15:40	ISS_NAC to Iapetus	NEG_X to SC_RAM	Pick up at UVIS_FUV to 283.816/-26.297 (0.0,-30.0,0.0 deg. offset), NEG_X to SC_RAM; Hand off at ISS_NAC to Iapetus, NEG_X to North Pole Dir.
CIRS_049IA_FP1DAYMAP001_PRIME	J, R, U, V	2007-253T17:15:40	GMB_E049_Iapetus+000T03:00:00	000T02:00:00	2007-253T19:15:40	CIRS_FP1 to Iapetus	NEG_X to North_Pole_Dir	Pick up at ISS_NAC to Iapetus, NEG_X to North_Pole_Dir; Hand off at ISS_NAC to Iapetus, NEG_X to North_Pole_Dir. Primary pointing pickup at (lat, lon) = (+9, 325).
VIMS_049IA_IAPETUS013_PRIME	C, J, R, U	2007-253T19:15:40	GMB_E049_Iapetus+000T05:00:00	000T00:44:00	2007-253T19:59:40	ISS_NAC to Iapetus	NEG_X to North_Pole_Dir	Pick up at ISS_NAC to Iapetus, NEG_X to North_Pole_Dir; Hand off at XBAND to Earth, NEG_X to NEP.
End Custom		2007-253T19:59:40	GMB_E049_Iapetus+000T05:44:00	000T00:01:00	2007-253T20:00:40			
SP_049NA_DEADTIME453_PRIME	R	2007-253T20:00:00		000T00:05:00	2007-253T20:05:00	XBAND to Earth	POS_X to NEP	S&ER-3
SP_049EA_C70METUNQ253_PRIME	R	2007-253T20:05:00		000T02:15:00	2007-253T22:20:00	XBAND to Earth	Rolling/SRU	Part of simultaneous Canberra + Goldstone Iapetus playback
SP_049IA_WAYPTTURN253_PRIME	C, R	2007-253T22:20:00		000T00:20:00	2007-253T22:40:00	ISS_NAC to Iapetus	NEG_X to NEP	16.8 min turn; safe WP
NEW WAYPOINT		2007-253T22:40:00		001T17:25:00	2007-255T22:05:00	ISS_NAC to Iapetus	NEG_X to NEP	
ISS_049IA_REGMAPTRL001_PRIME	C, R, U, V	2007-253T22:40:00		000T02:00:00	2007-254T00:40:00	ISS_NAC to Iapetus	NEG_X to NEP	1st part: NAC global 2x2 plus limb CCW spiral mosaic (15 ftrpts total), 2 min dwell. 2nd part: Two saturnshine ftrpts near western limb. 3rd part: 1x3 mosaic from south to north, >11 min dwell.
CIRS_049IA_DAYPOLRIZ001_PRIME	C, R, U	2007-254T00:40:00		000T01:40:00	2007-254T02:20:00	CIRS_FP1 to Iapetus	NEG_X to NEP	SNER-5a
ISS_049IA_REGCOLTR001_PRIME	C, R, U, V	2007-254T02:20:00		000T00:40:00	2007-254T03:00:00	ISS_NAC to Iapetus	NEG_X to NEP	S_N ER -5A
RADAR_049IA_SCATTRAD002_PRIME		2007-254T03:00:00		000T02:10:00	2007-254T05:10:00	NEG_Z to Iapetus	NEG_X to NEP	RADAR must control primary and secondary axes to obtain correct polarization.
SP_049EA_DLTURN254_PRIME		2007-254T05:10:00		000T00:20:00	2007-254T05:30:00	XBAND to Earth	NEG_X to NEP	16.7 min turn
SP_049EA_M70METNON255_PRIME	C	2007-254T05:30:00		000T07:50:00	2007-254T13:20:00	XBAND to Earth	Rolling/SRU	
SP_049EA_G70METNON254_PRIME		2007-254T13:20:00		000T07:05:00	2007-254T20:25:00	XBAND to Earth	Rolling/SRU	
SP_049IA_WAYPTTURN254_PRIME		2007-254T20:25:00		000T00:20:00	2007-254T20:45:00	ISS_NAC to Iapetus	NEG_X to NEP	16.6 min turn; safe WP
VIMS_049IA_IAPETUS010_PRIME	I, U	2007-254T20:45:00		000T02:15:00	2007-254T23:00:00	ISS_NAC to Iapetus	NEG_X to NEP	S&ER-3
CIRS_049IA_FP1FP3MAP001_PRIME	R, U	2007-254T23:00:00		000T04:00:00	2007-255T03:00:00	CIRS_FP1 to Iapetus	NEG_X to NEP	SNER-5a
RADAR_049IA_SCATTRAD005_PRIME		2007-255T03:00:00		000T03:00:00	2007-255T06:00:00	NEG_Z to Iapetus	NEG_X to NEP	RADAR must control primary and secondary axes to obtain correct polarization.
ISS_049SA_STRMOVIEE002_PRIME	U, V	2007-255T06:00:00		000T04:35:00	2007-255T10:35:00	ISS_WAC to Saturn	NEG_X to NEP	S_N ER -3
ISS_049IA_LIMBTOPOID01_PRIME	U	2007-255T10:35:00		000T00:30:00	2007-255T11:05:00	ISS_NAC to Iapetus	NEG_X to NEP	
NAV_049SK_OPNAV551_PRIME		2007-255T11:05:00		000T01:29:00	2007-255T12:34:00	ISS_NAC to Satellites	NEG_Z to NEP	Starts at waypoint, ends at Earth point
NAV_049EA_DLTURN551_PRIME		2007-255T12:34:00		000T00:01:00	2007-255T12:35:00	XBAND to Earth	NEG_X to NEP	
SP_049EA_G70METNON255_PRIME	C	2007-255T12:35:00		000T09:00:00	2007-255T21:35:00	XBAND to Earth	Rolling	
SOST rev 50 Segment		2007-271T20:36:00		002T16:15:00	2007-274T12:51:00			
SP_050SA_WAYPTTURN271_PRIME	C, M	2007-271T20:36:00		000T00:24:00	2007-271T21:00:00	ISS_NAC to Saturn	POS_X to NSP	6 min turn from -Z to EA, +X to NEP; safe WP
NEW WAYPOINT		2007-271T21:00:00		000T16:30:00	2007-272T13:30:00	ISS_NAC to Saturn	POS_X to NSP	
VIMS_050RI_LATPHASE003_PRIME	C, M	2007-271T21:00:00		000T04:30:00	2007-272T01:30:00	VIMS_IR to Rings	POS_X to NSP	S&ER-3
ISS_050RI_BRINGBLUR001_PRIME	C, M, U	2007-272T01:30:00		000T02:00:00	2007-272T03:30:00	ISS_NAC to L_ANSA_B	POS_X to NSP	
SP_050EA_DLTURN272_PRIME	C, M	2007-272T03:30:00		000T00:36:00	2007-272T04:06:00	XBAND to Earth	POS_X to NEP	6.1 min turn
SP_050EA_M34HEFOTB272_PRIME	C, M, N	2007-272T04:06:00		000T09:00:00	2007-272T13:06:00	XBAND to Earth	POS_X to NEP	
SP_050DI_WAYPTTURN272_PRIME	C, M	2007-272T13:06:00		000T00:24:00	2007-272T13:30:00	ISS_NAC to Dione	NEG_Z to NSP	18 min turn from -Z to EA, +X to NEP; safe WP
NEW WAYPOINT		2007-272T13:30:00		000T19:40:00	2007-273T09:40:00	ISS_NAC to Dione	NEG_Z to NSP	
CIRS_050RA_COMP001_PRIME	C, M, U	2007-272T13:30:00		000T05:00:00	2007-272T18:30:00	CIRS_FP1 to Rings	NEG_Z to NSP	
VIMS_050SA_FEATRACK001_PRIME	M, R, U	2007-272T18:30:00		000T05:00:00	2007-272T23:30:00	ISS_NAC to Saturn	NEG_Z to NSP	S&ER-3
ISS_050DI_REGMAPD001_PRIME	C, M, R, U, V	2007-272T23:30:00		000T00:30:00	2007-273T00:00:00	ISS_NAC to Dione	NEG_Z to NSP	SNER-3
RADAR_050DI_SCATTRAD001_PRIME	M	2007-273T00:00:00		000T03:00:00	2007-273T03:00:00	NEG_Z to Dione	POS_X to NSP	RADAR must control both primary & secondary axes for polarization
ISS_050DI_REGMAPE001_PRIME	C, M, U, V	2007-273T03:00:00		000T00:20:00	2007-273T03:20:00	ISS_NAC to Dione	NEG_Z to NSP	SNER-3; 70s dwells ok with VIMS
CIRS_050DI_FP1AMATA001_PRIME	M, U	2007-273T03:20:00		000T00:30:00	2007-273T03:50:00	CIRS_FP1 to Dione	NEG_Z to NSP	
VIMS_050DI_DIONE001_PRIME	C, M, U	2007-273T03:50:00		000T01:00:00	2007-273T04:50:00	ISS_NAC to Dione	NEG_Z to NSP	S&ER-3

ISS_050EN_PLUMES001_PRIME	C, M, U, V	2007-273T04:50:00		000T01:30:00	2007-273T06:20:00	ISS_NAC to Enceladus (0.0,70,0.0 deg. offset)	NEG_Z to NSP		
ISS_050DI_REGMAPF001_PRIME	C, M, U, V	2007-273T06:20:00		000T00:40:00	2007-273T07:00:00	ISS_NAC to Dione	NEG_Z to NSP	SNER-3; 70s dwells ok with VIMS	
VIMS_050DI_DIONE002_PRIME	C, M, U	2007-273T07:00:00		000T00:45:00	2007-273T07:45:00	ISS_NAC to Dione	NEG_Z to NSP	S&ER-3	
UVIS_050SU_USUNOCC002_PRIME	M, V	2007-273T07:45:00		000T01:05:00	2007-273T08:50:00	ISS_NAC to Sun (-20.0,0.0,-0.109 deg. offset)	NEG_Z to NSP	S&ER3	
SP_050DI_WAYPTTURN273_PRIME	C, M	2007-273T08:50:00		000T00:20:00	2007-273T09:10:00	ISS_NAC to Dione	POS_X to NSP	15.1 min turn; safe WP	
<b>NEW WAYPOINT</b>		<b>2007-273T09:10:00</b>		<b>000T01:00:00</b>	<b>2007-273T10:10:00</b>	<b>ISS_NAC to Dione</b>	<b>POS_X to NSP</b>		
ISS_050DI_REGMAPG001_PRIME	C, M, U, V	2007-273T09:10:00		000T00:40:00	2007-273T09:50:00	ISS_NAC to Dione	POS_X to NSP	S_N_ER_-3	
SP_050TE_WAYPTTURN273_PRIME	C, M	2007-273T09:50:00		000T00:20:00	2007-273T10:10:00	ISS_NAC to Tethys	POS_Z to NSP	16 min turn; safe WP	
<b>NEW WAYPOINT</b>		<b>2007-273T10:10:00</b>		<b>000T12:20:00</b>	<b>2007-273T22:30:00</b>	<b>ISS_NAC to Tethys</b>	<b>POS_Z to NSP</b>		
GIRS_050TE_FP3MAP001_PRIME	C, M, U	2007-273T10:10:00		000T00:40:00	2007-273T10:50:00	GIRS_FP3 to Tethys	POS_Z to NSP		
ISS_050EN_COLORF001_PRIME	C, M, U, V	2007-273T10:50:00		000T00:55:00	2007-273T11:45:00	ISS_NAC to Enceladus	POS_Z to NSP	S_N_ER_-3	
Periapse R = 4.7 Rs, lat = ...		2007-273T11:28:40		000T00:00:01	2007-273T11:28:41				
ISS_050TE_COLORF002_PRIME	C, M, U, V	2007-273T11:45:00		000T00:55:00	2007-273T12:40:00	ISS_NAC to Tethys	POS_Z to NSP		
ISS_050EN_PHOTOM002_PRIME	C, M, U, V	2007-273T12:40:00		000T00:50:00	2007-273T13:30:00	ISS_NAC to Enceladus	POS_Z to NSP	S_N_ER_-3	
ISS_050DI_GLOCLO01_PRIME	C, M, U, V	2007-273T13:30:00		000T00:50:00	2007-273T14:20:00	ISS_NAC to Dione	POS_Z to NSP	SNER-5a (for RADAR)	
<b>RADAR_050EN_SCATTRAD001_PRIME</b>	<b>M</b>	<b>2007-273T14:20:00</b>		<b>000T02:15:00</b>	<b>2007-273T16:35:00</b>	<b>NEG_Z to Enceladus</b>	<b>POS_X to North Pole Dir</b>	<b>RADAR must control both primary &amp; secondary axes for polarization orientations.</b>	
SP_050EA_DLTURN273_PRIME	C, M	2007-273T16:35:00		000T00:30:00	2007-273T17:05:00	XBAND to Earth	POS_X to NEP	17.3 min turn	
SP_050EA_G70METNON273_PRIME	M	2007-273T17:05:00		000T04:55:00	2007-273T22:00:00	XBAND to Earth	Rolling		
SP_050SA_WAYPTTURN273_PRIME	C, M	2007-273T22:00:00		000T03:30:00	2007-273T23:30:00	ISS_NAC to Saturn	POS_Z to NSP	19.85 min turn from -Z to EA, +X to NEP; safe WP	
<b>NEW WAYPOINT</b>		<b>2007-273T23:30:00</b>		<b>000T14:51:00</b>	<b>2007-274T13:21:00</b>	<b>ISS_NAC to Saturn</b>	<b>POS_Z to NSP</b>		
ISS_050RI_SHADSCAN001_PRIME	C, M, V	2007-273T23:30:00		000T00:50:00	2007-273T23:30:00	ISS_NAC to Rings	POS_Z to NSP		
GIRS_050RI_SUBMU04LP001_PRIME	C, M, R, U, V	2007-273T23:30:00		000T04:00:00	2007-274T03:20:00	GIRS_FP1 to Rings	POS_Z to NSP		
SP_050EA_DLTURN274_PRIME	C, M, R	2007-274T03:20:00		000T00:31:00	2007-274T03:51:00	XBAND to Earth	POS_X to NEP		
SP_050EA_M70METNON274_PRIME	M, R	2007-274T03:51:00		000T09:00:00	2007-274T12:51:00	XBAND to Earth	Rolling		
SOST rev 52 Segment		2007-318T17:56:00		001T23:45:00	2007-320T17:41:00				
SP_052SA_WAYPTTURN318_PRIME	R	2007-318T17:56:00		000T00:34:00	2007-318T18:30:00	ISS_NAC to Saturn	POS_X to NSP	8.5 min turn from +X to NEP; safe WP	
<b>NEW WAYPOINT</b>		<b>2007-318T18:30:00</b>		<b>001T00:00:00</b>	<b>2007-319T18:30:00</b>	<b>ISS_NAC to Saturn</b>	<b>POS_X to NSP</b>		
<b>RADAR_052RI_POBRINGS001_PRIME</b>		<b>2007-318T18:30:00</b>		<b>000T10:00:00</b>	<b>2007-319T04:30:00</b>	<b>NEG_Z to Saturn (-5.5,2.1,0.0 deg. offset)</b>	<b>POS_X to NSP</b>	<b>RADAR must control primary and secondary axes to obtain correct polarization.</b>	
VIMS_052RI_LATPHASE002_PRIME	C, U	2007-319T04:30:00		000T04:00:00	2007-319T08:30:00	ISS_NAC to Rings	POS_X to NSP		
SP_052EA_DLTURN319_PRIME	C	2007-319T08:30:00		000T00:26:00	2007-319T08:56:00	XBAND to Earth	POS_X to NEP	7.65 min turn	
SP_052EA_G34BWGOTP319_PRIME	C, M, N	2007-319T08:56:00		000T09:00:00	2007-319T17:56:00	XBAND to Earth	POS_X to NEP		
SP_052RH_WAYPTTURN319_PRIME	C, M	2007-319T17:56:00		000T00:34:00	2007-319T18:30:00	ISS_NAC to Rhea	POS_X to NSP	5.5 min turn; safe WP	
<b>NEW WAYPOINT</b>		<b>2007-319T18:30:00</b>		<b>000T23:40:00</b>	<b>2007-320T18:10:00</b>	<b>ISS_NAC to Rhea</b>	<b>POS_X to NSP</b>		
ISS_052EN_PHOTOM001_PRIME	C, M, U, V	2007-319T18:30:00		000T01:00:00	2007-319T19:30:00	ISS_NAC to Enceladus	POS_X to NSP		
VIMS_052RI_LATPHASE003_PRIME	C, M, R, U	2007-319T19:30:00		000T07:30:00	2007-320T03:00:00	ISS_NAC to Rings	POS_X to NSP		
<b>RADAR_052TI_PHASE3CAL001_PRIME</b>	<b>M</b>	<b>2007-320T03:00:00</b>		<b>000T01:30:00</b>	<b>2007-320T04:30:00</b>	<b>NEG_Z to Titan</b>	<b>PIC</b>	<b>RADAR must control primary and secondary axes to obtain correct polarization.</b>	
CAPS_052CO_DTORUSPTG001_PRIME	C, I, M, U, V	2007-320T04:30:00		000T03:15:00	2007-320T07:45:00	ISS_NAC to Rhea	NEG_Z to NSP		
VIMS_052RH_REGGODB004_PRIME	C, I, M, U	2007-320T07:45:00		000T02:00:00	2007-320T09:45:00	ISS_NAC to Rhea	POS_X to NSP	ISS_NAC to Rhea, periodically rotate about secondary axis then point and stare.	
UVIS_052RH_ICYMAP001_PRIME	C, I, M, V	2007-320T09:45:00		000T00:45:00	2007-320T10:30:00	UVIS_FUV to Rhea	POS_X to NSP	S&ER-3	
GIRS_052RH_FP3TASCN001_PRIME	C, I, M, U, V	2007-320T10:30:00		000T00:40:00	2007-320T11:10:00	ISS_NAC to Rhea	POS_X to NSP		
SP_052EA_DLTURN320_PRIME	C, M	2007-320T11:10:00		000T00:31:00	2007-320T11:41:00	XBAND to Earth	POS_X to NEP	8.33 min turn	
SP_052EA_G70METNON320_PRIME	C, M	2007-320T11:41:00		000T06:00:00	2007-320T17:41:00	XBAND to Earth	3_Hr Rolling	GIRS caution period; roll only 3 hr	
SOST rev 61 Segment E3		2008-072T02:36:00		001T07:15:00	2008-073T09:51:00				
SP_061RA_WAYPTTURN072_PRIME	C, M	2008-072T02:36:00		000T00:34:00	2008-072T03:10:00	ISS_NAC to 103.38/-4.11	NEG_X to Sun	19.9 min turn from -Z to EA, -X to NEP; safe WP	
<b>NEW WAYPOINT</b>		<b>2008-072T03:10:00</b>		<b>001T07:10:00</b>	<b>2008-073T10:20:00</b>	<b>ISS_NAC to 103.38/-4.11</b>	<b>NEG_X to Sun</b>		
SP_061NA_DEADTIME072_PRIME	M	2008-072T03:10:00		000T00:06:12	2008-072T03:16:12	ISS_NAC to 103.38/-4.11	NEG_X to Sun		
<b>RADAR_061OT_WARMUP4EN002_PRIME</b>	<b>M</b>	<b>2008-072T03:16:12</b>	<b>GMB_E061_Enceladus-000T15:50:00</b>	<b>000T00:15:00</b>	<b>2008-072T03:16:12</b>	<b>ISS_NAC to 103.38/-4.11</b>	<b>NEG_X to Sun</b>	<b>No pointing for RADAR; just taking 15 minutes of data in SNER_5A. No constraints on primary nor secondary axis.</b>	
<b>Begin Custom</b>		<b>2008-072T03:31:12</b>	<b>GMB_E061_Enceladus-000T15:35:00</b>	<b>000T00:01:00</b>	<b>2008-072T03:32:12</b>				
VIMS_061EN_ENCELADUS001_PRIME	C, I, M, R, U	2008-072T03:31:12		000T08:55:00	2008-072T12:26:12	ISS_NAC to Enceladus	POS_Z to Sun	Pick up at ISS_NAC to 103.38/-4.11, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, POS_Z to Sun.	
ISS_061EN_PHOTPOL001_PRIME	C, R, U, V	2008-072T12:26:12		000T02:10:00	2008-072T14:36:12	ISS_NAC to Enceladus (0.0,0.0,0.022 deg. offset)	POS_Z to Sun	Pick up at ISS_NAC to Enceladus, POS_Z to Sun; Hand off at ISS_NAC to Enceladus, POS_Z to Sun.	
<b>RADAR_061EN_SCATTRAD001_PRIME</b>		<b>2008-072T14:36:12</b>	<b>GMB_E061_Enceladus-000T04:30:00</b>	<b>000T02:00:00</b>	<b>2008-072T16:36:12</b>	<b>NEG_Z to Enceladus</b>	<b>NEG_X to North Pole Dir</b>	<b>Pick up at ISS_NAC to Enceladus, POS_Z to Sun; Hand off at NEG_Z to Enceladus, NEG_X to North Pole Dir.</b>	
GIRS_061EN_FP34MAP001_PRIME	J, U, V	2008-072T16:36:12		000T00:37:00	2008-072T17:13:12	GIRS_FP3 to Enceladus	POS_Z to Sun	Pick up at NEG_Z to Enceladus, NEG_X to North Pole Dir; Hand off at ISS_NAC to Enceladus, POS_Z to Sun.	
VIMS_061EN_ENCELADUS002_PRIME	C, I, U	2008-072T17:13:12		000T00:27:00	2008-072T17:40:12	ISS_NAC to Enceladus	POS_Z to Sun	Pick up at ISS_NAC to Enceladus, POS_Z to Sun; Hand off at ISS_NAC to Enceladus, POS_Z to Sun.	
UVIS_061EN_ICYMAR002_PRIME	C, I, V	2008-072T17:40:12		000T00:27:00	2008-072T18:07:12	ISS_NAC to Enceladus	POS_Z to Sun	Pick up at ISS_NAC to Enceladus, POS_Z to Sun; Hand off at ISS_NAC to Enceladus, POS_Z to Sun.	
GIRS_061EN_FP31NMAP001_PRIME	J, V	2008-072T18:07:12		000T00:18:00	2008-072T18:25:12	GIRS_FP1 to Enceladus	POS_Z to Sun	Pick up at ISS_NAC to Enceladus, POS_Z to Sun; Hand off at ISS_NAC to Enceladus, POS_Z to Sun.	
ISS_061EN_REGMAP002_PRIME	C, M, U, V	2008-072T18:25:12		000T00:19:30	2008-072T18:44:12	ISS_NAC to Enceladus	POS_Z to Sun	Pick up at ISS_NAC to Enceladus, POS_Z to Sun; Hand off at NEG_X to SC_RAM, POS_Z to Sun.	
CAPS_061EN_ENCLDSPGT0001_PRIME	C, M, U, V	2008-072T18:44:12		000T00:26:30	2008-072T19:11:12	NEG_X to SC_RAM	POS_Z to COROT	Pick up at NEG_X to SC_RAM, POS_Z to Sun; Hand off at NEG_X to SC_RAM, POS_Z to COROT. S/C ram is with respect to Enceladus, corotation is with respect to Saturn.	
61EN (t) E3 ENCELADUS in...		2008-072T19:06:12		000T00:00:01	2008-072T19:06:12				
GIRS_061EN_FP3HOTSP001_PRIME	C, I, M, U, V	2008-072T19:11:12		000T00:59:00	2008-072T20:10:12	GIRS_FP3 to Enceladus	POS_Z to COROT	Pick up at NEG_X to SC_RAM, POS_Z to COROT; Hand off at ISS_NAC to Enceladus, POS_Z to COROT.	
<b>RADAR_061EN_SCATTRAD002_PRIME</b>		<b>2008-072T20:10:12</b>	<b>GMB_E061_Enceladus+000T01:04:00</b>	<b>000T00:44:00</b>	<b>2008-072T20:54:12</b>	<b>NEG_Z to Enceladus</b>	<b>NEG_X to North Pole Dir</b>	<b>Pick up at ISS_NAC to Enceladus, POS_Z to COROT; Hand off at NEG_Z to Enceladus, NEG_X to North Pole Dir.</b>	
GIRS_061EN_FP3ECLX001_PRIME	C, I, U, V	2008-072T20:54:12		000T01:07:00	2008-072T22:01:12	GIRS_FP1 to Enceladus	NEG_X to Sun	Pick up at NEG_Z to Enceladus, NEG_X to North Pole Dir; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.	
Periapse R = 3.751 Rs, lat = ...		2008-072T20:56:48		000T00:00:01	2008-072T20:56:49				
UVIS_061EN_ICYLON006_PRIME	C, I, R, V	2008-072T22:01:12		000T02:13:00	2008-073T00:34:12	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to 103.38/-4.11, NEG_X to Sun.	
<b>End Custom</b>		<b>2008-073T00:14:12</b>		<b>000T00:01:00</b>	<b>2008-073T00:15:12</b>				
SP_061NA_DEADTIME073_PRIME	R	2008-073T00:14:12		000T00:05:48	2008-073T00:20:00	ISS_NAC to 103.38/-4.11	NEG_X to Sun		
SP_061EA_DLTURN073_PRIME	R	2008-073T00:20:00		000T00:31:00	2008-073T00:51:00	XBAND to Earth	POS_X to NEP		
SP_061EA_G70METOPN073_PRIME	C, M, R, U	2008-073T00:51:00		000T09:00:00	2008-073T09:51:00	XBAND to Earth	POS_X to NEP		
E4 Flyby Segment		2008-224T00:20:00		001T23:44:00	2008-226T00:04:00				
SP_080EA_S43VP224_PRIME		2008-224T00:20:00		000T00:06:00	2008-224T00:26:00	XBAND to Earth	POS_X to NEP	S43 IVP Gap	
SP_080RA_WAYPTTURN224_PRIME		2008-224T00:26:00		000T00:39:00	2008-224T01:05:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	29.44 min turn from -Z to EA, +X to NEP; safe WP	
<b>NEW WAYPOINT</b>		<b>2008-224T01:05:00</b>		<b>001T23:44:00</b>	<b>2008-226T00:49:00</b>	<b>ISS_NAC to 103.0/-4.0</b>	<b>NEG_X to Sun</b>		
SP_080NA_DEADTIME224_PRIME		2008-224T01:05:00		000T00:15:19	2008-224T01:20:19	ISS_NAC to 103.0/-4.0	NEG_X to Sun		
<b>Begin Custom</b>		<b>2008-224T01:20:19</b>	<b>GMB_E080_Enceladus-000T19:46:00</b>	<b>000T00:01:00</b>	<b>2008-224T01:21:19</b>				
UVIS_080SA_AURORAE001_PRIME	C, M, R, U, V	2008-224T01:20:19		000T04:20:00	2008-224T05:40:19	UVIS_FUV to Saturn	POS_X to 156.0/-31.0	Pick up at ISS_NAC to 103.0/-4.0, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.	
ISS_080EN_PLMINCLD001_PRIME	C, M, R, U, V	2008-224T05:40:19		000T06:26:00	2008-224T12:06:19	ISS_NAC to Enceladus	PIC	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.	
SP_080EA_DLTURN224_PRIME	M, R	2008-224T12:06:19		000T00:27:00	2008-224T12:33:19	XBAND to Earth	POS_X to 305.007/77.86	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at XBAND to Earth, POS_X to NEP. 24.3 min turn (RWAXM rate)	
SP_080EA_M70METNON224_PRIME	M, R	2008-224T12:33:19		000T03:03:00	2008-224T15:36:19	XBAND to Earth	POS_X to 305.007/77.86	Pick up at XBAND to Earth, POS_X to NEP; Hand off at XBAND to Earth, POS_X to NEP. RSS GRAVITY PASS + DOWNLINK	
SP_080EN_WAYPTTURN224_PRIME	M, R	2008-224T15:36:19		000T00:30:00	2008-224T16:06:19	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at XBAND to Earth, POS_X to NEP; Hand off at ISS_NAC to Enceladus, NEG_X to Sun. 25.1 min turn using RWAXM rate	
VIMS_080EN_ENCEL001_PRIME	C, I, M, U	2008-224T16:06:19		000T03:30:00	2008-224T19:36:19	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun. ISS_NAC to Enceladus	
UVIS_080EN_ICYLMB001_PRIME	C, I, M, V	2008-224T19:36:19		000T00:50:00	2008-224T20:26:19	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.	
ISS_080EN_ENCELADUS001_PRIME	C, M, U, V	2008-224T20:26:19		000T01:08:30	2008-224T21:34:49	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_Z to 137.228/0.749.	
Begin High Value Science		2008-224T21:01:19		000T00:00:01	2008-224T21:01:20				
80EN (t) E4 ENCELADUS in...		2008-224T21:06:19		000T00:00:01	2008-224T21:06:20				
End High Value Science		2008-224T21:11:19		000T00:00:01	2008-224T21:11:20				
GIRS_080EN_FP3ECLSCN001_PRIME	C, I, M, U, V	2008-224T21:34:49		000T03:31:30	2008-225T01:06:19	GIRS_FP1 to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_Z to 137.228/0.749; Hand off at ISS_NAC to Enceladus, NEG_X to Sun. 1	
Periapse R = 3.941 Rs, lat = ...		2008-224T21:44:54							

VIMS_080EN_ENCEL002_PRIME	C, I, M, U	2008-225T01:06:19	GMB_E080_Enceladus+000T04:00:00	000T01:00:00	2008-225T02:06:19	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun. ISS_NAC to Enceladus
SP_080EA_DLTURN225_PRIME	M, R	2008-225T02:06:19	GMB_E080_Enceladus+000T05:00:00	000T00:30:00	2008-225T02:36:19	XBAND to Earth	NEG_X to NEP	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at XBAND to Earth, NEG_X to NEP. 25.1 min turn (RWAXM rate)
SP_080EA_C34HEFNON225_PRIME	M, R	2008-225T02:36:19	GMB_E080_Enceladus+000T05:30:00	000T04:00:00	2008-225T06:36:19	XBAND to Earth	NEG_X to NEP	Pick up at XBAND to Earth, NEG_X to NEP; Hand off at XBAND to Earth, NEG_X to NEP. RSS GRAVITY PASS + DOWNLINK
SP_080EA_M348WGNON225_PRIME	M, R	2008-225T06:36:19	GMB_E080_Enceladus+000T09:30:00	000T01:00:00	2008-225T07:36:19	XBAND to Earth	NEG_X to NEP	Pick up at XBAND to Earth, NEG_X to NEP; Hand off at XBAND to Earth, NEG_X to NEP. RSS GRAVITY PASS + DOWNLINK
SP_080EN_WAYPTURN225_PRIME	M, R	2008-225T07:36:19	GMB_E080_Enceladus+000T10:30:00	000T00:30:00	2008-225T08:06:19	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at XBAND to Earth, NEG_X to NEP; Hand off at ISS_NAC to Enceladus, NEG_X to Sun. 24.3 min turn using RWAXM rate
UVIS_080EN_ICYATM002_PRIME	C, I, M, R, V	2008-225T08:06:19	GMB_E080_Enceladus+000T11:00:00	000T05:27:00	2008-225T13:33:19	UVIS_FUV to Enceladus	NEG_Z to Saturn	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to 103.0/-4.0, NEG_X to Sun.
End Custom		2008-225T13:33:19	GMB_E080_Enceladus+000T16:27:00	000T00:01:00	2008-225T13:34:19			
SP_080NA_DEADTIME225_PRIME	R	2008-225T13:33:19	GMB_E080_Enceladus+000T16:27:00	000T00:15:37	2008-225T13:48:56	ISS_NAC to 103.0/-4.0	NEG_X to Sun	
NAV_080SK_OPNAV251_PRIME	R	2008-225T13:49:00		000T01:14:00	2008-225T15:03:00	ISS_NAC to Satellites	POS_Z to NSP	Start at Waypoint, end at Earth point
NAV_080EA_DLTURN251_PRIME	R	2008-225T15:03:00		000T00:01:00	2008-225T15:04:00	XBAND to Earth	POS_X to NEP	
SP_080EA_G70METNON225_PRIME	R	2008-225T15:04:00		000T09:00:00	2008-226T00:04:00	XBAND to Earth	POS_X to NEP	
E5 Flyby Segment		2008-282T20:50:00		002T00:00:00	2008-284T20:50:00			
SP_088RA_WAYPTURN282_PRIME		2008-282T20:50:00		000T00:45:00	2008-282T21:35:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	30.6 min turn from -Z to EA, +X to NEP; safe WP
NEW WAYPOINT		2008-282T21:35:00		002T00:05:00	2008-284T21:40:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	
ISS_088T1_TITAN001_PRIME	C, I, U, V	2008-282T21:35:00		000T01:31:00	2008-282T22:50:00	ISS_NAC to Titan (0.0,63,0.0,0.0 deg. offset)	NEG_X to Sun	
UVIS_088SA_AURORA001_PRIME	I, V	2008-282T21:35:00		000T03:25:00	2008-283T02:15:00	UVIS_FUV to Saturn	POS_Z to Sun	
ISS_088EN_PLMHINCL001_PRIME	C, I, U, V	2008-283T02:15:00		000T02:45:00	2008-283T05:00:00	ISS_NAC to Enceladus	PIC	
UVIS_088EN_ICYATM001_PRIME	C, I, V	2008-283T05:00:00		000T01:30:00	2008-283T06:30:00	UVIS_FUV to Enceladus	NEG_Z to NSP	See observation description. Duration of 4 hours allows for 30 min slew to and from Enceladus, and 3 integration sites.
SP_088EA_DLTURN283_PRIME		2008-283T06:30:00		000T00:45:00	2008-283T07:15:00	XBAND to Earth	POS_X to NEP	
SP_088EA_M70METNON283_PRIME		2008-283T07:15:00		000T02:15:00	2008-283T09:30:00	XBAND to Earth	Rolling/SRU	POS_X to NEP
SP_088RA_WAYPTURN283_PRIME	M, R	2008-283T09:30:00		000T00:45:00	2008-283T10:15:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	30.6 min turn from -Z to EA, +X to NEP; safe WP
SP_088NA_DEADTIME283_PRIME	M, R	2008-283T10:15:00		000T00:15:40	2008-283T10:30:40	ISS_NAC to 103.0/-4.0	NEG_X to Sun	
Begin Custom		2008-283T10:30:40	GMB_E088_Enceladus-000T08:36:00	000T00:01:00	2008-283T10:31:40			
RADAR_088EN_SCATTRAD001_PRIME	C, I, M, R	2008-283T10:30:40	GMB_E088_Enceladus-000T08:36:00	000T03:36:00	2008-283T14:06:40	NEG_Z to Enceladus	PIC	Pick up at ISS_NAC to 103.0/-4.0, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
CIRS_088EN_ENCEL001_PRIME	C, I, M, U, V	2008-283T14:06:40	GMB_E088_Enceladus-000T05:00:00	000T03:00:00	2008-283T17:06:40	CIRS_FP3 to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
UVIS_088EN_ICYUMB001_PRIME	I, M, V	2008-283T17:06:40	GMB_E088_Enceladus-000T02:00:00	000T01:00:00	2008-283T18:06:40	UVIS_FUV to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
ENGR_088SC_ORSRCS283_PRIME	M	2008-283T18:06:40	GMB_E088_Enceladus-000T01:00:00	000T00:01:00	2008-283T18:07:40	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun. No turns
NIMS_088EN_ENCEL5001_PRIME	M	2008-283T18:07:40	GMB_E088_Enceladus-000T00:59:00	000T01:14:00	2008-283T19:21:40	NEG_X to SC RAM	POS_Z to COROT	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at NEG_X to SC RAM, POS_Z to COROT.
Begin High Value Science		2008-283T18:51:40	GMB_E088_Enceladus-000T00:15:00	000T00:00:01	2008-283T18:51:41			
88EN (t) E5 ENCELADUS In...		2008-283T19:06:40		000T00:00:01	2008-283T19:06:41			
ISS_088EN_ENCELCA001_PRIME	C, I, M, U, V	2008-283T19:21:40	GMB_E088_Enceladus+000T00:15:00	000T00:28:00	2008-283T19:49:40	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at NEG_X to SC RAM, POS_Z to COROT; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
Periapse R = 3.946 Rs, lat...		2008-283T19:43:10		000T00:00:01	2008-283T19:43:11			
CIRS_088EN_SECLNX001_PRIME	C, I, M, U, V	2008-283T19:49:40	GMB_E088_Enceladus+000T00:43:00	000T00:46:00	2008-283T20:35:40	CIRS_FP3 to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at CIRS_FP4 to Enceladus, NEG_X to Sun.
End High Value Science		2008-283T19:51:40	GMB_E088_Enceladus+000T00:45:00	000T00:00:01	2008-283T19:51:41			
ENGR_088SC_DFPVBIAS283_PPS	C, I, M, U, V	2008-283T20:35:40	GMB_E088_Enceladus+000T01:29:00	000T00:21:05	2008-283T20:56:45	CIRS_FP4 to Enceladus	NEG_X to Sun	Pick up at CIRS_FP4 to Enceladus, NEG_X to Sun; Hand off at CIRS_FP4 to Enceladus, NEG_X to Sun.
CIRS_088EN_SECLNX002_PRIME	C, I, M, U, V	2008-283T20:57:40	GMB_E088_Enceladus+000T01:51:00	000T03:09:00	2008-284T00:06:40	CIRS_FP4 to Enceladus	NEG_X to Sun	Pick up at CIRS_FP4 to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
UVIS_088EN_ICYATM002_PRIME	C, I, M, V	2008-284T00:06:40	GMB_E088_Enceladus+000T05:00:00	000T02:00:00	2008-284T02:06:40	UVIS_FUV to Enceladus	NEG_Z to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
UVIS_088TE_ICYLN001_PRIME	C, I, M, V	2008-284T02:06:40	GMB_E088_Enceladus+000T07:00:00	000T04:23:00	2008-284T06:29:40	UVIS_FUV to Tethys	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to 103.0/-4.0, NEG_X to Sun.
End Custom		2008-284T06:29:40	GMB_E088_Enceladus+000T11:23:00	000T00:01:00	2008-284T06:30:40			
SP_088NA_DEADTIME284_PRIME		2008-284T06:29:40	GMB_E088_Enceladus+000T11:23:00	000T00:15:20	2008-284T06:45:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	
NAV_088SK_OPNAV841_PRIME		2008-284T06:45:00		000T01:14:00	2008-284T07:59:00	ISS_NAC to Satellites (0.0,-20.0,0.0 deg. offset)	NEG_X to Sun	Start at Waypoint, end at Earth point
NAV_088EA_DLTURN841_PRIME		2008-284T07:59:00		000T00:01:00	2008-284T08:00:00	XBAND to Earth	POS_Y to NEP	
SP_088EA_M70METNON284_PRIME	R	2008-284T08:00:00		000T03:50:00	2008-284T11:50:00	XBAND to Earth	Rolling/SRU	POS_Y to NEP
Pointer Reset in preparatio...		2008-284T11:50:00		000T00:00:01	2008-284T11:50:01			
SP_088EA_G70METNON284_PRIME	C, E, R	2008-284T11:50:00		000T09:00:00	2008-284T20:50:00	XBAND to Earth	Rolling/SRU	POS_Y to NEP
E6 Flyby Segment		2008-304T19:37:00		002T23:45:00	2008-307T19:22:00			
SP_091RA_WAYPTURN304_PRIME		2008-304T19:37:00		000T00:45:00	2008-304T20:22:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	safe WP
NEW WAYPOINT		2008-304T20:22:00		001T04:53:00	2008-306T01:15:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	
UVIS_091SA_AURORA001_PRIME	C, I, V	2008-304T20:22:00		000T04:18:00	2008-305T00:40:00	UVIS_FUV to Saturn	NEG_X to 328.15/-24.917	
ISS_091EN_PLMHINCL001_PRIME	C, I, R, U, V	2008-305T00:40:00		000T03:40:00	2008-305T04:20:00	ISS_NAC to Enceladus	PIC	
SP_091EA_DLTURN305_PRIME	R	2008-305T04:20:00		000T00:45:00	2008-305T05:05:00	XBAND to Earth	POS_X to NEP	
SP_091EA_M70METNON305_PRIME	M, R	2008-305T05:05:00		000T02:30:00	2008-305T07:35:00	XBAND to Earth	POS_X to NEP	POS_X to NEP
SP_091RA_WAYPTURN305_PRIME	M	2008-305T07:35:00		000T00:45:00	2008-305T08:20:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	safe WP
SP_091NA_DEADTIME305_PRIME	M	2008-305T08:20:00		000T00:15:51	2008-305T08:35:51	ISS_NAC to 103.0/-4.0	NEG_X to Sun	
Begin Custom		2008-305T08:35:51	GMB_E091_Enceladus-000T08:39:00	000T00:01:00	2008-305T08:36:51			
UVIS_091EN_ICYATM001_PRIME	C, I, M, V	2008-305T08:35:51	GMB_E091_Enceladus-000T08:39:00	000T03:39:00	2008-305T12:14:51	UVIS_FUV to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to 103.0/-4.0, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
VIMS_091EN_ENCEL001_PRIME	C, I, M, U	2008-305T12:14:51	GMB_E091_Enceladus-000T05:00:00	000T01:00:00	2008-305T13:14:51	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
CIRS_091EN_FP3STAR001_PRIME	C, I, M, U, V	2008-305T13:14:51	GMB_E091_Enceladus-000T04:00:00	000T02:50:00	2008-305T16:04:51	CIRS_FP1 to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
VIMS_091EN_ENCEL002_PRIME	C, I, M, U	2008-305T16:04:51	GMB_E091_Enceladus-000T01:10:00	000T00:30:00	2008-305T16:34:51	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun.
ISS_091EN_ENCELCA001_PRIME	C, M, U, V	2008-305T16:34:51	GMB_E091_Enceladus-000T00:40:00	000T01:10:00	2008-305T17:44:51	ISS_NAC to 230.0/88.85	NEG_Z to 136.765/0.772	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus (0.0,0.0,-0.258 deg. offset), NEG_Z to 137.228/0.749.
Begin High Value Science		2008-305T16:44:51	GMB_E091_Enceladus-000T00:30:00	000T00:00:01	2008-305T16:44:52			
91EN (t) E6 ENCELADUS In...		2008-305T17:14:51		000T00:00:01	2008-305T17:14:52			
UVIS_091EN_ICYMAP002_PRIME	C, I, M, V	2008-305T17:14:51	GMB_E091_Enceladus+000T00:30:00	000T00:20:00	2008-305T18:04:51	UVIS_FUV to Enceladus (0.088,0.0,0.516 deg. offset)	NEG_Z to 137.228/0.749	Pick up at ISS_NAC to Enceladus (0.0,0.0,-0.258 deg. offset), NEG_Z to 137.228/0.749; Hand off at UVIS_FUV to Enceladus (0.088,0.0,-0.346 deg. offset), NEG_Z to 137.228/0.749. S&ER-3
Periapse R = 3.948 Rs, lat...		2008-305T17:50:20		000T00:00:01	2008-305T17:50:21			
End High Value Science		2008-305T17:59:51	GMB_E091_Enceladus+000T00:45:00	000T00:00:01	2008-305T17:59:52			
CIRS_091EN_SECLNX001_PRIME	C, I, M, U, V	2008-305T18:04:51	GMB_E091_Enceladus+000T00:50:00	000T03:10:00	2008-305T21:14:51	CIRS_FP1 to Enceladus	NEG_X to 345.86/7.423	Pick up at UVIS_FUV to Enceladus (0.088,0.0,-0.346 deg. offset), NEG_Z to 137.228/0.749; Hand off at ISS_NAC to Enceladus, NEG_X to 345.86/7.423.
VIMS_091EN_ENCEL003_PRIME	C, I, M, U	2008-305T21:14:51	GMB_E091_Enceladus+000T04:00:00	000T01:00:00	2008-305T22:14:51	ISS_NAC to Enceladus	NEG_X to 345.86/7.423	Pick up at ISS_NAC to Enceladus, NEG_X to 345.86/7.423; Hand off at ISS_NAC to Enceladus, NEG_X to 345.86/7.423.
UVIS_091EN_ICYATM002_PRIME	C, I, M, V	2008-305T22:14:51	GMB_E091_Enceladus+000T05:00:00	000T02:00:00	2008-306T00:14:51	UVIS_FUV to Enceladus	NEG_X to 345.86/7.423	Pick up at ISS_NAC to Enceladus, NEG_X to 345.86/7.423; Hand off at ISS_NAC to 103.0/-4.0, NEG_X to Sun.
End Custom		2008-306T00:14:51	GMB_E091_Enceladus+000T07:00:00	000T00:00:01	2008-306T00:14:52			
SP_091NA_DEADTIME306_PRIME	M	2008-306T00:14:51	GMB_E091_Enceladus+000T07:00:00	000T00:35:09	2008-306T00:50:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	
SP_091EA_DLTURN306_PRIME	M	2008-306T00:50:00		000T00:25:00	2008-306T01:15:00	XBAND to Earth	NEG_X to NEP	
NEW WAYPOINT		2008-306T01:15:00		000T05:00:00	2008-306T06:15:00	XBAND to Earth	NEG_X to NEP	
RSS_091EN_THERMAL002_PRIME	M	2008-306T01:15:00		000T00:45:00	2008-306T02:00:00	XBAND to Earth	NEG_X to NEP	
SP_091EA_M70METNON306_PRIME	M, R	2008-306T02:00:00		000T03:30:00	2008-306T05:30:00	XBAND to Earth	NEG_X to NEP	POS_X to NEP
SP_091RA_WAYPTURN306_PRIME	M	2008-306T05:30:00		000T00:45:00	2008-306T06:15:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	safe WP
NEW WAYPOINT		2008-306T06:15:00		000T13:52:00	2008-306T20:07:00	ISS_NAC to 103.0/-4.0	NEG_X to Sun	
UVIS_091EN_ICYATM003_PRIME	C, I, V	2008-306T06:15:00		000T03:22:00	2008-306T09:37:00	UVIS_FUV to Enceladus	NEG_X to 359.09/-5.543	See observation description. Duration of 4 hours allows for 30 min slew to and from Enceladus, and 3 integration sites.
SP_091EA_DLTURN406_PRIME	R	2008-306T09:37:00						



SP_091EA_G70METN0307_PRIME	C, R	2008-307110:22:00		000T09:00:00	2008-307119:22:00	XBAND to Earth	Rolling/Bias	POS_X to NEP	
E7 Flyby Segment		2009-305T12:35:00		002T00:00:00	2009-307T12:35:00				
SP_120RH_WAYPTURN305_PRIME	M	2009-305T12:35:00		000T00:15:00	2009-305T12:50:00	ISS_NAC to Rhea	POS_X to NSP	safe WP	
NEW WAYPOINT		2009-305T12:50:00		000T02:07:00	2009-305T14:57:00	ISS_NAC to Rhea	POS_X to NSP		
UVIS_120RH_ICYLON001_PRIME	C, M, R, V	2009-305T12:50:00		000T01:30:00	2009-305T14:20:00	ISS_NAC to Rhea	POS_X to NSP		
SP_120EN_WAYPTURN305_PRIME	M, R	2009-305T14:20:00		000T00:37:00	2009-305T14:57:00	ISS_NAC to Enceladus	NEG_X to NSP	safe WP	
NEW WAYPOINT		2009-305T14:57:00		000T00:40:00	2009-305T15:37:00	ISS_NAC to Enceladus	NEG_X to NSP		
ISS_120EN_PLMSCCEL001_PRIME	C, M, U, V	2009-305T14:57:00		000T00:20:00	2009-305T15:37:00	ISS_NAC to Enceladus	NEG_X to NSP		
SP_120EA_WAYPTURN305_PRIME	M, V	2009-305T15:17:00		000T00:20:00	2009-305T15:37:00	XBAND to Earth	NEG_Y to 49.06/57.77	safe WP in case RSS LUB doesn't get unplinked; also RSS secondary	
NEW WAYPOINT		2009-305T15:37:00		000T05:48:00	2009-305T21:25:00	XBAND to Earth	NEG_Y to 49.06/57.77		
Begin Custom		2009-305T15:37:00		000T00:00:01	2009-305T15:37:01				
RSS_120SA_OCCIN001_PRIME	M	2009-305T15:37:00	LUB_E120_Enceladus-000T16:04:58	000T01:39:00	2009-305T17:16:00	XBAND to Earth	NEG_Y to 49.06/57.77	Pick up at XBAND to Earth, NEG_Y to 49.06/57.77; Hand off at ISS_NAC to Enceladus, NEG_X to NSP.	
CIRS_120EN_FP13DKMAP001_PRIME	M, U, V	2009-305T17:16:00	LUB_E120_Enceladus-000T14:25:58	000T00:43:00	2009-305T17:59:00	CIRS_FP3 to Enceladus (0.0,0.0,-1.822 deg. offset)	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at ISS_NAC to Enceladus, NEG_X to NSP.	
ISS_120EN_PLMSCCEL002_PRIME	C, M, U, V	2009-305T17:59:00	LUB_E120_Enceladus-000T13:42:58	000T00:45:00	2009-305T18:44:00	ISS_NAC to Enceladus	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at ISS_NAC to Enceladus, NEG_X to NSP.	
RSS_120SA_OCCOUT001_PRIME	M	2009-305T18:44:00	LUB_E120_Enceladus-000T12:57:58	000T02:02:00	2009-305T20:46:00	XBAND to Earth	NEG_Y to 49.06/57.77	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at XBAND to Earth, NEG_Y to 49.06/57.77.	
End Custom		2009-305T20:46:00		000T00:00:01	2009-305T20:46:01				
SP_120EA_WAYPTURN405_PRIME	M	2009-305T20:46:00		000T00:15:00	2009-305T21:01:00	XBAND to Earth	POS_X to 275.0/65.0	part 1 of 2 part turn to WP	
SP_120EN_WAYPTURN405_PRIME	M	2009-305T21:01:00		000T00:24:00	2009-305T21:25:00	ISS_NAC to Enceladus	NEG_X to NSP	part 2 of 2 part turn to WP	
NEW WAYPOINT		2009-305T21:25:00		001T05:15:00	2009-307T02:40:00	ISS_NAC to Enceladus	NEG_X to NSP		
ISS_120EN_PLMHRHP001_PRIME	C, M, U, V	2009-305T21:25:00		000T00:49:00	2009-305T22:34:00	ISS_NAC to Enceladus	NEG_X to NSP	turn NAC to plume	
ISS_120EN_PLMHRHP002_PRIME	C, M, U, V	2009-305T22:34:00		000T02:58:00	2009-306T01:12:00	ISS_NAC to Enceladus	NEG_X to NSP		
SP_120NA_DEADTIME306_PRIME	M	2009-306T01:12:00		000T00:01:58	2009-306T01:13:58	ISS_NAC to Enceladus	NEG_X to NSP		
Begin Custom		2009-306T01:13:58	GMB_E120_Enceladus-000T06:28:00	000T00:00:01	2009-306T01:13:59				
RADAR_120EN_SCATTRAD001_PRIME	M	2009-306T01:13:58	GMB_E120_Enceladus-000T06:28:00	000T05:28:00	2009-306T06:41:58	NEG_Z to Enceladus	PIC	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at NEG_Z to Enceladus, NEG_X to SC_RAM.	
Periapse R = 3.201 Rs, lat ...		2009-306T04:38:59		000T00:00:01	2009-306T04:38:59				
ENGR_120SC_ORSRCS305_PRIME	M	2009-306T06:41:58	GMB_E120_Enceladus-000T01:00:00	000T00:01:00	2009-306T06:42:58	NEG_Z to Enceladus	NEG_X to SC_RAM	Pick up at NEG_Z to Enceladus, NEG_X to SC_RAM; Hand off at NEG_Z to Enceladus, NEG_X to SC_RAM, deadband set to (0.5,0.5,0.5)	
INMS_120EN_ENCEL7001_PRIME	C, I, M, U	2009-306T06:42:58	GMB_E120_Enceladus-000T00:59:00	000T01:21:00	2009-306T08:03:58	NEG_X to SC_RAM	NEG_Y to North_Pole_Dir	Pick up at NEG_Z to Enceladus, NEG_X to SC_RAM; Hand off at CIRS_FP3 to 183.03/4.775, NEG_X to North_Pole_Dir.	
Begin Dual Playback Science		2009-306T07:26:58	GMB_E120_Enceladus-000T00:15:00	000T00:00:01	2009-306T07:26:59				
120EN (t) E7 ENCELADUS O...		2009-306T07:41:58		000T00:00:01	2009-306T07:41:59				
End Dual Playback Science		2009-306T07:56:58	GMB_E120_Enceladus+000T00:15:00	000T00:00:01	2009-306T07:56:59				
CIRS_120EN_FP35MAP001_PRIME	I, M, U, V	2009-306T08:03:58	GMB_E120_Enceladus+000T00:22:00	000T00:10:00	2009-306T08:13:58	CIRS_FP3 to 183.03/4.775	NEG_X to North_Pole_Dir	Pick up at CIRS_FP3 to 183.03/4.775, NEG_X to North_Pole_Dir; Hand off at CIRS_FP3 to 183.03/4.775, NEG_X to North_Pole_Dir.	
UVIS_120EN_ICYMAP003_PRIME	C, M, V	2009-306T08:13:58	GMB_E120_Enceladus+000T00:32:00	000T01:28:00	2009-306T09:41:58	UVIS_FUV to Saturn	NEG_X to NSP	Pick up at CIRS_FP3 to 183.03/4.775, NEG_X to North_Pole_Dir; Hand off at NEG_Y to Enceladus, NEG_X to NSP. S&ER-3	
ENGR_120SC_DFPVBIAS306_PPS	C, M, U, V	2009-306T09:41:58	GMB_E120_Enceladus+000T02:00:00	000T02:15:00	2009-306T10:03:03	NEG_Y to Enceladus	NEG_X to NSP	Pick up at NEG_Y to Enceladus, NEG_X to NSP; Hand off at NEG_Y to Enceladus, NEG_X to NSP.	
CIRS_120EN_FP3DAYMAP001_PRIME	M, U, V	2009-306T10:03:03	GMB_E120_Enceladus+000T02:22:00	000T01:38:00	2009-306T11:41:58	CIRS_FP3 to Enceladus (2.972,0.0,-0.427 deg. offset)	NEG_X to NSP	Pick up at NEG_Y to Enceladus, NEG_X to NSP; Hand off at ISS_NAC to Enceladus, NEG_X to NSP.	
End Custom		2009-306T11:41:58	GMB_E120_Enceladus+000T04:00:00	000T00:00:01	2009-306T11:41:59				
SP_120NA_DEADTIME406_PRIME	M	2009-306T11:41:59	GMB_E120_Enceladus+000T04:00:01	000T00:02:00	2009-306T11:43:59	ISS_NAC to Enceladus	NEG_X to NSP		
VIMS_120EN_ICYLON003_PRIME	C, M, U	2009-306T11:44:00		000T02:20:00	2009-306T14:04:00	ISS_NAC to Enceladus	NEG_X to NSP		
UVIS_120TE_ICYLON001_PRIME	C, I, M, V	2009-306T14:04:00		000T02:16:00	2009-306T16:20:00	ISS_NAC to Tethys	NEG_X to NSP		
SP_120EA_DLTURN306_PRIME	M	2009-306T16:20:00		000T00:40:00	2009-306T17:00:00	XBAND to Earth	NEG_Y to NEP		
SP_120EA_C70METN0306_PRIME	C, E, M, R	2009-306T17:00:00		000T09:00:00	2009-307T02:00:00	XBAND to Earth	NEG_Y to NEP	NEG_Y to NEP needed for safe DL and following WP turn	
Pointer Reset in preparatio...		2009-307T02:00:00		000T00:00:01	2009-307T02:00:01				
SP_120EN_WAYPTURN307_PRIME	M	2009-307T02:00:00		000T00:40:00	2009-307T02:40:00	ISS_NAC to Enceladus	POS_X to NSP	safe WP	
NEW WAYPOINT		2009-307T02:40:00		000T10:35:00	2009-307T13:15:00	ISS_NAC to Enceladus	POS_X to NSP		
UVIS_120D1_ICYSTARE001_PRIME	M	2009-307T02:40:00		000T06:00:00	2009-307T08:40:00	UVIS_FUV to Dione	NEG_Z to 32.1/83.1		
NAV_120SK_OPNAV071_PRIME	M	2009-307T08:40:00		000T00:54:00	2009-307T09:34:00	ISS_NAC to Satellites	POS_X to NSP		
NAV_120EA_DLTURN071_PRIME	M	2009-307T09:34:00		000T00:01:00	2009-307T09:35:00	XBAND to Earth	POS_X to NSP		
SP_120EA_M70METN0307_PRIME	M	2009-307T09:35:00		000T03:00:00	2009-307T12:35:00	XBAND to Earth	Rolling	POS_X to NSP; CRPC; rolling required	
E8 Flyby Segment		2009-324T11:37:00		001T13:45:00	2009-326T01:22:00				
SP_121D1_WAYPTURN324_PRIME	M	2009-324T11:37:00		000T00:30:00	2009-324T12:07:00	NEG_Y to 5.0/25.0 (0.0,20.0,0.0 deg. offset)	POS_X to NSP	First part of a two-part turn	
SP_121D1_WAYPTURN424_PRIME	M	2009-324T12:07:00		000T00:15:00	2009-324T12:22:00	NEG_Y to Dione (0.0,20.0,0.0 deg. offset)	POS_X to NSP	Second part of a two-part turn	
NEW WAYPOINT		2009-324T12:22:00		000T01:53:00	2009-324T14:15:00	NEG_Y to Dione (0.0,20.0,0.0 deg. offset)	POS_X to NSP		
UVIS_121D1_ICYLON001_PRIME	C, M, V	2009-324T12:22:00		000T01:24:00	2009-324T13:46:00	ISS_NAC to Dione (0.0,20.0,0.0 deg. offset)	POS_X to NSP		
SP_121EN_WAYPTURN324_PRIME	M, V	2009-324T13:46:00		000T00:29:00	2009-324T14:15:00	NEG_Y to Enceladus (0.0,-10.0,0.0 deg. offset)	NEG_X to NEP		
NEW WAYPOINT		2009-324T14:15:00		001T02:15:00	2009-325T16:30:00	NEG_Y to Enceladus (0.0,-10.0,0.0 deg. offset)	NEG_X to NEP		
ISS_121EN_PLMHRHP001_PRIME	C, M, R, U, V	2009-324T14:15:00		000T05:09:00	2009-324T19:24:00	ISS_NAC to Enceladus (0.0,-69.813,0.0 deg. offset)	NEG_X to North_Pole_Dir		
RSS_121SA_OCCOUT001_PRIME	M	2009-324T19:24:00	LUB_E121_Enceladus-000T06:45:50	000T02:36:00	2009-324T22:00:00	XBAND to Earth	NEG_Y to 49.06/57.77		
SP_121NA_DEADTIME324_PRIME	M	2009-324T22:00:00		000T00:05:50	2009-324T22:05:50	NEG_Y to Enceladus (0.0,-10.0,0.0 deg. offset)	NEG_X to NEP		
VIMS_121EN_ENCEL001_PRIME	C, I, M, U	2009-324T22:05:50	GMB_E121_Enceladus-000T04:04:00	000T02:04:00	2009-325T00:09:50	NEG_Y to Enceladus	NEG_X to NEP		
Begin Custom		2009-325T00:09:50	GMB_E121_Enceladus-000T02:00:00	000T01:23:01	2009-325T01:32:51				
CIRS_121EN_FP13DKMAP001_PRIME	M, U, V	2009-325T00:09:50	GMB_E121_Enceladus-000T02:00:00	000T01:23:00	2009-325T01:32:50	NEG_Y to Enceladus	NEG_X to NEP	Pick up at NEG_Y to Enceladus (0.0,-10.0,0.0 deg. offset), NEG_X to NEP; Hand off at ISS_NAC to Enceladus (0.071,-10.0,-0.906 deg. offset), POS_Z to 302.97/9.98.	
ISS_121EN_PLMHR001_PRIME	C, M, U, V	2009-325T01:32:50	GMB_E121_Enceladus-000T00:37:00	000T00:30:00	2009-325T02:02:50	ISS_NAC to Enceladus	PIC	Pick up at ISS_NAC to Enceladus (0.071,-10.0,-0.906 deg. offset), POS_Z to 302.97/9.98; Hand off at ISS_NAC to Enceladus (0.688,0.0,3.953 deg. offset), POS_Z to 302.97/9.98.	
ENGR_121SC_ORSRCS325_PRIME	C, M	2009-325T02:02:50	GMB_E121_Enceladus-000T00:07:00	000T00:01:00	2009-325T02:03:50			Pick up at ISS_NAC to Enceladus (0.69,0.0,3.95 deg. offset), POS_Z to 302.97/9.98; Hand off at ISS_NAC to Enceladus (0.69,0.0,3.95 deg. offset), POS_Z to 302.97/9.98, deadbands (0.5, 0.5, 0.5)	
CIRS_121EN_FP3HIRE5001_PRIME	I, M, U, V	2009-325T02:03:50	GMB_E121_Enceladus-000T00:06:00	000T02:36:00	2009-325T04:39:50	CIRS_FP3 to Enceladus	POS_Z to 302.97/9.98	Pick up at ISS_NAC to Enceladus (0.69,0.0,3.95 deg. offset), POS_Z to 302.97/9.98; Hand off at ISS_NAC to Enceladus, POS_Z to 302.97/9.98.	
121EN (t) E8 ENCELADUS I...		2009-325T02:09:50		000T00:00:01	2009-325T02:09:51				
ENGR_121SC_DFPVBIAS325_PPS	C, I, M, U, V	2009-325T04:39:50	GMB_E121_Enceladus+000T02:30:00	000T00:21:05	2009-325T05:00:55			Pick up at ISS_NAC to Enceladus (0.69,0.0,3.95 deg. offset), POS_Z to 302.97/9.98; Hand off at ISS_NAC to Enceladus (0.69,0.0,3.95 deg. offset), POS_Z to 302.97/9.8, deadbands (2,2,2)	
CIRS_121EN_FP3DAYMAP002_PRIME	I, M, R, U, V	2009-325T05:01:50	GMB_E121_Enceladus+000T02:52:00	000T01:38:00	2009-325T06:39:50	ISS_NAC to Enceladus	POS_Z to 302.97/9.98	Pick up at ISS_NAC to Enceladus (0.69,0.0,3.95 deg. offset), POS_Z to 302.97/9.98; Hand off at NEG_Y to Enceladus (0.0,-10.0,0.0 deg. offset), NEG_X to NEP.	
Periapse R = 3.202 Rs, lat ...		2009-325T05:15:03		000T00:00:01	2009-325T05:15:04				
End Custom		2009-325T06:39:50	GMB_E121_Enceladus+000T04:30:00	000T00:00:01	2009-325T06:39:51				
UVIS_121EN_ICYSTARE002_PRIME	C, I, M, R, V	2009-325T06:39:50	GMB_E121_Enceladus+000T04:30:00	000T01:00:00	2009-325T07:39:50	UVIS_FUV to Enceladus	NEG_X to 19.8/82.5		
SP_121NA_DEADTIME325_PRIME	M, R	2009-325T07:39:50	GMB_E121_Enceladus+000T05:30:00	000T00:05:10	2009-325T07:45:00	NEG_Y to Enceladus (0.0,-10.0,0.0 deg. offset)	NEG_X to NEP		
SP_121EA_DLTURN325_PRIME	M, R	2009-325T07:45:00		000T00:40:00	2009-325T08:25:00	XBAND to Earth	POS_X to NSP		
SP_121EA_M70METN0325_PRIME	E, M, R	2009-325T08:25:00		000T02:10:00	2009-325T10:35:00	XBAND to Earth	POS_X to NSP		
SP_121EA_G70METN0325_PRIME	M, R	2009-325T10:35:00		000T05:10:00	2009-325T15:45:00	XBAND to Earth	POS_X to NSP		
SP_121RH_WAYPTURN325_PRIME	M	2009-325T15:45:00		000T00:26:00	2009-325T16:11:00	ISS_NAC to Rhea (0.0,3.0,0.0 deg. offset)	POS_X to NSP	First part of a two-part turn	
SP_121RH_WAYPTURN425_PRIME	M	2009-325T16:11:00		000T00:19:00	2009-325T16:30:00	ISS_NAC to Rhea (0.0,3.0,0.0 deg. offset)	POS_X to NSP	Second part of a two-part turn	
NEW WAYPOINT		2009-325T16:30:00		000T10:22:00	2009-326T02:52:00	ISS_NAC to Rhea (0.0,3.0,0.0 deg. offset)	POS_X to NSP		
UVIS_121RH_ICYEXO001_PRIME	C, I, M, V	2009-325T17:26:00		000T00:56:00	2009-325T17:26:00	UVIS_FUV to 78.635/-8.202			

SP 121EA DLTURN425_PRIME	M	2009-325T19:26:00		00000:35:00	2009-325T20:01:00	XBAND to Earth	POS X to NSP		
SP 121EA C70METN0325_PRIME	M	2009-325T20:01:00		00000:21:00	2009-326T01:22:00	XBAND to Earth	Rolling/SRU	NEG X to NEP; CRPC; rolling required	
Rhea Flyby Segment R2		2010-060T19:04:00		002T10:00:00	2010-063T05:04:00				
SP 127EA S58IVP060_PRIME	M	2010-060T19:04:00		00000:06:00	2010-060T19:10:00	XBAND to Earth	NEG Y to 320.6/-10.8	S58 IVP Gap	
SP 127EN WAYPTURN060_PRIME	M	2010-060T19:10:00		00000:45:00	2010-060T19:55:00	ISS_NAC to 336.4/-3.0	NEG X to NSP		
NEW WAYPOINT		2010-060T19:55:00		001T16:24:00	2010-062T12:19:00	ISS_NAC to 336.4/-3.0	NEG X to NSP		
ISS 127EN PLMPHSA001_PRIME	C, M, U, V	2010-060T19:55:00		00007:04:00	2010-061T02:59:00	ISS_NAC to Enceladus	PIC		
UVIS 127EN ICYPLU001_PRIME	C, M, V	2010-061T02:59:00		00002:07:00	2010-061T05:06:00	NEG_Y to Enceladus	NEG_X to NSP		
ISS 127EN PLMPHSA002_PRIME	C, M, U, V	2010-061T05:06:00		00000:30:00	2010-061T05:36:00	ISS_NAC to Enceladus	PIC		
SP 127EA DLTURN061_PRIME	M	2010-061T05:36:00		00000:38:00	2010-061T06:14:00	XBAND to Earth	POS X to NSP		
SP 127EA G70METN061_PRIME	C, M	2010-061T06:14:00		00003:35:00	2010-061T09:49:00	XBAND to Earth	Rolling		
SP 127EN WAYPTURN061_PRIME	C, M	2010-061T09:49:00		00000:41:00	2010-061T10:30:00	ISS_NAC to 336.4/-3.0	NEG_X to NSP		
ISS 127EN PLMPHSA003_PRIME	C, M, U, V	2010-061T10:30:00		00002:30:00	2010-061T13:00:00	ISS_NAC to Enceladus	PIC		
SP 127NA DEADTIME061_PRIME	M	2010-061T13:00:00		00000:15:36	2010-061T13:15:36	ISS_NAC to 336.4/-3.0	NEG_X to NSP		
Begin Custom		2010-061T13:15:36	GMB E127_Rhea-000T04:25:00	00000:00:01	2010-061T13:15:37				
RADAR 127RH SCATTRAD001_PRIME	M	2010-061T13:15:36	GMB E127_Rhea-000T04:25:00	00003:40:00	2010-061T16:55:36	NEG_Z to Rhea	PIC	Pick up at ISS_NAC to 336.4/-3.0, NEG_X to NSP; Hand off at NEG_Z to Rhea, NEG_X to SC_RAM.	
CAPS 127RH RHEAPT001_PRIME	M	2010-061T16:55:36	GMB E127_Rhea-000T04:25:00	00001:05:00	2010-061T18:00:36	POS_X to COROT (0.0,-20.0,-30.0 deg. offset)	POS_Z to NSP	Pick up at NEG_Z to Rhea, NEG_X to SC_RAM; Hand off at POS_X to COROT (0.0,-20.0,-30.0 deg. offset), NEG_Z to NSP.	
127RH (I) R2_RHEA Inbound...		2010-061T17:40:36		00000:00:01	2010-061T17:40:37				
VIMS 127RH RHEA001_PRIME	C, I, M, U	2010-061T18:00:36	GMB E127_Rhea+000T00:20:00	00000:50:00	2010-061T18:50:36	ISS_NAC to Rhea	POS_X to COROT	Pick up at POS_X to COROT (0.0,-20.0,-30.0 deg. offset), POS_Z to NSP; Hand off at CIRS_FP1 to Rhea, NEG_X to NSP.	
CIRS 127RH FP1SECLN001_PRIME	C, I, M, U, V	2010-061T18:50:36	GMB E127_Rhea+000T01:10:00	00003:10:00	2010-061T22:00:36	CIRS_FP1 to Rhea	NEG_X to NSP	Pick up at CIRS_FP1 to Rhea, NEG_X to NSP; Hand off at ISS_NAC to 336.4/-3.0, NEG_X to NSP.	
End Custom		2010-061T22:00:36	GMB E127_Rhea+000T04:20:00	00000:00:01	2010-061T22:00:37				
SP 127NA DEADTIME461_PRIME	M	2010-061T22:00:36	GMB E127_Rhea+000T04:20:00	00000:04:24	2010-061T22:05:00	ISS_NAC to 336.4/-3.0	NEG_X to NSP		
UVIS 127SA USUNOCC001_PRIME	M	2010-061T22:05:00		00004:10:00	2010-062T02:15:00	UVIS_SOL_OFF to Sun	NEG_X to 9.71/-5.71		
SP 127EA DLTURN062_PRIME	M	2010-062T02:15:00		00000:39:00	2010-062T02:54:00	XBAND to Earth	POS_X to NEP		
SP 127EA G70METN062_PRIME	C, E, M	2010-062T02:54:00		00009:25:00	2010-062T12:19:00	XBAND to Earth	5 Hr Delayed Rolling	2:54-6:24: POS_X to NEP. 6:24-11:24: Rolling. 11:24-11:54: POS_X to NEP. 11:54-12:19: RWD to POS_X to NSP	
Periapse R = 2.915 Rs, lat ...		2010-062T06:02:29		00000:00:01	2010-062T06:02:30				
SP 127EA RWDTURN062_PRIME	C, M	2010-062T11:54:00		00000:25:00	2010-062T12:19:00	XBAND to Earth	POS_X to NSP	RETURN TO SOST PTG. Roll from POS_X to NEP to POS_X to NSP.	
NEW WAYPOINT		2010-062T12:19:00		000T17:45:00	2010-063T06:04:00	XBAND to Earth	POS_X to NSP		
ISS 127HE ROTCOLR003_PRIME	C, M, U, V	2010-062T12:20:00		00002:40:00	2010-062T15:00:00	UVIS_FUV to Helene	POS_Z to 285.929/-41.759	UVIS_FUV to Helene, Pos_Z to 285.929/-41.759	
127HE (I) HI_HELENE Outbo...		2010-062T13:40:41		00000:00:01	2010-062T13:40:42				
NAV 127SK OPNAV621_PRIME	M	2010-062T15:00:00		00000:59:00	2010-062T15:59:00	ISS_NAC to Satellites	POS_X to NSP		
NAV 127EA DLTURN621_PRIME	M	2010-062T15:59:00		00000:01:00	2010-062T16:00:00	XBAND to Earth (0.0,0.0,14.0 deg. offset)	POS_X to NSP		
SP 127EA C70METN062_PRIME	C, E, M	2010-062T16:00:00		00003:34:00	2010-062T19:34:00	XBAND to Earth (0.0,0.0,14.0 deg. offset)	POS_X to NSP	Pointing agreement w/CAPS	
SP 127EA M34HEFN062_PRIME	C, M	2010-062T19:34:00		00009:30:00	2010-063T05:04:00	XBAND to Earth (0.0,0.0,14.0 deg. offset)	POS_X to NSP	agreement with CAPS	
Dione Flyby Segment D2		2010-096T16:34:00		001T17:30:00	2010-098T10:04:00				
SP 129EA WAYPTURN096_PRIME	M	2010-096T16:34:00		00000:10:00	2010-096T16:44:00	XBAND to Earth	POS_X to NSP	safe WP	
NEW WAYPOINT		2010-096T16:44:00		000T15:33:11	2010-097T08:17:11	XBAND to Earth	POS_X to NSP		
CAPS 129SA RINGSATPTG001_PRIME	M	2010-096T16:44:00		00005:07:00	2010-096T21:51:00	XBAND to Earth	POS_Y to COROT		
Begin Custom		2010-096T21:51:00		00000:00:01	2010-096T21:51:01	XBAND to Earth	POS_X to NSP		
UVIS 129SA USUNOCC001_PRIME	M, V	2010-096T21:51:00		00003:34:00	2010-097T01:25:00	UVIS_SOL_OFF to Sun	POS_X to 356.79/-4.82	Pick up at XBAND to Earth, POS_X to NSP; Hand off at ISS_NAC to Dione (-0.23,0.0,-0.088 deg. offset), NEG_X to NSP.	
ISS 129DI PLUMSEAR001_PRIME	C, M, V	2010-097T01:25:00		00000:10:00	2010-097T01:35:00	ISS_NAC to Dione (-0.23,0.0,-0.088 deg. offset)	NEG_X to NSP	Pick up at ISS_NAC to Dione (-0.23,0.0,-0.088 deg. offset), NEG_X to NSP; Hand off at ISS_NAC to Dione (-0.23,0.0,-0.088 deg. offset), NEG_X to NSP.	
SP 129NA DEADTIME097_PRIME	M	2010-097T01:35:00		00000:10:11	2010-097T01:45:11	ISS_NAC to Dione (-0.23,0.0,-0.088 deg. offset)	NEG_X to NSP	Pick up at ISS_NAC to Dione (-0.23,0.0,-0.088 deg. offset), NEG_X to NSP; Hand off at ISS_NAC to Dione (-0.23,0.0,-0.088 deg. offset), NEG_X to NSP.	
CIRS 129DI FP1DRKMAP001_PRIME	M, U, V	2010-097T01:45:11	GMB E129_Dione-000T03:31:00	00002:46:00	2010-097T04:31:11	CIRS_FP1 to Dione	NEG_X to NSP	Pick up at ISS_NAC to Dione (-0.23,0.0,-0.088 deg. offset), NEG_X to NSP; Hand off at CIRS_FP1 to Dione, NEG_X to SC_RAM.	
CAPS 129DI DIONEPTG001_PRIME	C, I, M, U, V	2010-097T04:31:11	GMB E129_Dione-000T04:45:00	00001:00:00	2010-097T05:31:11	POS_X to COROT (0.0,-20.0,-30.0 deg. offset)	POS_Z to NSP	Pick up at CIRS_FP1 to Dione, NEG_X to SC_RAM; Hand off at POS_X to COROT (0.0,-20.0,-30.0 deg. offset), POS_Z to NSP.	
129DI (I) D2_DIONE Inbound...		2010-097T05:16:10		00000:00:01	2010-097T05:16:11				
UVIS 129DI ICYMAP002_PRIME	C, I, M, V	2010-097T05:31:11	GMB E129_Dione+000T00:15:00	00001:00:00	2010-097T06:31:11	ISS_NAC to Dione	NEG_X to NSP	Pick up at POS_X to COROT (0.0,-20.0,-30.0 deg. offset), POS_Z to NSP; Hand off at ISS_NAC to Dione, NEG_X to NSP.	
ISS 129DI REGMAP001_PRIME	C, M, U, V	2010-097T06:31:11	GMB E129_Dione+000T01:15:00	00001:45:00	2010-097T08:16:11	ISS_NAC to Dione	NEG_X to 32.9/83.4	Pick up at ISS_NAC to Dione, NEG_X to NSP; Hand off at ISS_NAC to Dione, NEG_X to NSP.	
SP 129DI WAYPTURN097_PRIME	M, V	2010-097T08:16:11	GMB E129_Dione+000T03:00:00	00000:01:00	2010-097T08:17:11	ISS_NAC to Dione	NEG_X to NSP	Pick up at ISS_NAC to Dione, NEG_X to NSP; Hand off at ISS_NAC to Dione, NEG_X to NSP, safe WP	
NEW WAYPOINT		2010-097T08:17:11		001T02:26:49	2010-098T10:44:00	ISS_NAC to Dione	NEG_X to NSP		
End Custom		2010-097T08:17:11	GMB E129_Dione+000T03:01:00	00000:00:01	2010-097T08:17:12	NEG_Y to Dione	NEG_X to NSP		
SP 129NA DEADTIME497_PRIME	M, V	2010-097T08:17:11	GMB E129_Dione+000T03:01:00	00000:13:59	2010-097T08:31:10	ISS_NAC to Dione	NEG_X to NSP		
VIMS 129DI DIONE001_PRIME	C, I, M, U, V	2010-097T08:31:10		00001:20:00	2010-097T09:51:10	ISS_NAC to Dione	NEG_X to 29.8/83.5		
CIRS 129DI FP3DAYMAP001_PRIME	I, M, U, V	2010-097T09:51:10		00001:08:50	2010-097T11:00:00	CIRS_FP3 to Dione	NEG_X to NSP		
SP 129DI SITATWP097_PRIME	C, M, U, V	2010-097T11:00:00		00002:30:00	2010-097T13:30:00	ISS_NAC to Dione	NEG_X to NSP		
Periapse R = 3.525 Rs, lat ...		2010-097T12:53:14		00000:00:01	2010-097T12:53:15				
ISS 129JA ROTCOLR003_PRIME	C, M, U, V	2010-097T13:30:00		00002:15:00	2010-097T15:45:00	UVIS_FUV to Janus (0.0,17.188,0.0 deg. offset)	NEG_X to 54.832/-13.659	UVIS_FUV to Janus, NEG_X to 54.832/-13.659	
ISS 129EN PLMHRP001_PRIME	C, M, U, V	2010-097T15:45:00		00001:35:00	2010-097T17:20:00	ISS_NAC to Enceladus	NEG_X to North Pole Dir		
SP 129EA DLTURN097_PRIME	M	2010-097T17:20:00		00000:40:00	2010-097T18:00:00	XBAND to Earth	NEG_X to NEP		
SP 129EA M70METN097_PRIME	E, M, R	2010-097T18:00:00		00009:00:00	2010-098T03:00:00	XBAND to Earth	Rolling		
SP 129EA G34BWGN098_PRIME	C, M, R	2010-098T03:00:00		00007:04:00	2010-098T10:04:00	XBAND to Earth	Rolling		
E9 Flyby Segment		2010-117T07:47:00		001T17:16:00	2010-119T01:03:00				
RSS 130SA OCCIN001_PRIME	M	2010-117T07:47:00		00001:35:00	2010-117T09:22:00	XBAND to Earth	NEG_Y to 97.0/-68.2		
RSS 130EN WITHERMAL001_PRIME	M	2010-117T09:22:00		00002:24:00	2010-117T11:46:00	XBAND to Earth	NEG_Y to 97.0/-68.2		
RSS 130SA OCCOUT001_PRIME	M	2010-117T11:46:00		00002:14:00	2010-117T14:00:00	XBAND to Earth	NEG_Y to 97.0/-68.2		
RSS 130EN WGRAVITY001_PRIME	M	2010-117T14:00:00		001T02:03:00	2010-118T16:03:00	XBAND to Earth	NEG_Y to 97.0/-68.2		
Periapse R = 3.529 Rs, lat ...		2010-117T21:41:01		00000:00:01	2010-117T21:41:01				
130EN (I) E9_ENCELADUS Ou...		2010-118T00:10:17		00000:00:01	2010-118T00:10:18				
SP 130EA M70METN0118_PRIME	C, E, M, R	2010-118T16:03:00		00009:00:00	2010-119T01:03:00	XBAND to Earth	Rolling/SRU		
E10 Flyby Segment		2010-137T13:31:00		001T17:44:00	2010-139T07:15:00				
SP 131EA S60IVP137_PRIME	M	2010-137T13:31:00		00000:06:00	2010-137T13:37:00	XBAND to Earth	NEG_Y to 268.58/-7.36	S60 IVP Gap	
NEW WAYPOINT		2010-137T13:37:00		00005:29:05	2010-137T19:06:05	XBAND to Earth	NEG_Y to 268.58/-7.36		
UVIS 131DI ICYSTARE001_PRIME	I, M	2010-137T14:02:00		00004:41:10	2010-137T18:43:10	UVIS_FUV to Dione	NEG_X to NSP	Point up to Dione. Pick up at Xband to Earth, NEG_Y to 268.58/-7.36; Hand off at ISS_NAC to 100/0, NEG_X to NSP	
SP 131EN WAYPTURN137_PRIME	M, U, V	2010-137T18:43:10		00000:22:55	2010-137T19:06:05	ISS_NAC to Enceladus	NEG_X to NSP	Pick up at ISS_NAC to 100/0, NEG_X to NSP	
NEW WAYPOINT		2010-137T19:06:05		000T19:53:55	2010-138T15:00:00	ISS_NAC to Enceladus	NEG_X to NSP		
ISS 131EN PLMHRP001_PRIME	M, U, V	2010-137T19:06:05		00004:01:55	2010-137T23:08:00	ISS_NAC to Enceladus	NEG_X to NSP		
UVIS 131SA USUNOCC001_PRIME	M, V	2010-137T23:08:00		00003:08:00	2010-138T02:16:00	UVIS_SOL_OFF to Sun	POS_X to 10.5/-6.0		
SP 131NA DEADTIME139_PRIME	M	2010-138T02:16:00		00000:05:39	2010-138T02:21:39	ISS_NAC to Enceladus	NEG_X to NSP		
Begin Custom		2010-138T02:21:39	GMB E131_Enceladus-000T03:43:00	00000:00:01	2010-138T02:21:40	ISS_NAC to Enceladus	NEG_X to NSP		
CIRS 131DI FP3SECLN001_PRIME	C, I, M, U	2010-138T02:21:39	GMB E131_Enceladus-000T03:43:00	00001:34:00	2010-138T03:55:39	CIRS_FP3 to Dione	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at CIRS_FP3 to Enceladus, NEG_X to NSP.	
CIRS 131EN FP1DRKMAP001_PRIME	I, M, U, V	2010-138T03:55:39	GMB E131_Enceladus-000T02:09:00	00000:29:00	2010-138T04:24:39	CIRS_FP1 to Enceladus (-0.302,0.0,0.274 deg. offset)	NEG_X to NSP	Pick up at CIRS_FP3 to Enceladus, NEG_X to NSP; Hand off at ISS_NAC to Enceladus, NEG_X to NSP.	
UVIS 131EN ICYPLU001_PRIME	M, V	2010-138T04:24:39	GMB E131_Enceladus-000T01:40:00	00000:56:00	2010-138T05:20:39	ISS_FUV to Enceladus	NEG_X to NSP	Pick up at ISS_NAC to Encel	

131EN (t) E10 ENCELADUS In...		2010-138T06:04:39		000T00:00:01	2010-138T06:04:40				
End Dual Playback Science f...		2010-138T06:10:34	GMB_E131_Enceladus+000T00:05:55	000T00:00:01	2010-138T06:10:35				
ISS_131EN_ENCEL001_PRIME	C, M, U, V	2010-138T06:20:39	GMB_E131_Enceladus+000T00:16:00	000T00:44:00	2010-138T07:04:39	ISS_NAC to Enceladus (0.0,-30.0,0.0 deg. offset)	NEG_Z to NSP	Pick up at UVIS_SOL_OFF to Sun, NEG_Z to NSP; Hand off at ISS_NAC to Enceladus (0.0,-30.0,0.0 deg. offset), NEG_Z to NSP. ISS_NAC to Enceladus	
VIMS_131EN_ENCEL001_PRIME	C, I, M, U	2010-138T07:04:39	GMB_E131_Enceladus+000T01:00:00	000T00:31:00	2010-138T07:35:39	ISS_NAC to Enceladus (0.0,-60.0,0.0 deg. offset)	NEG_Z to NSP	Pick up at ISS_NAC to Enceladus (0.0,-30.0,0.0 deg. offset), NEG_Z to NSP; Hand off at ISS_NAC to Enceladus (0.0,-60.0,0.0 deg. offset), NEG_Z to NSP.	
ISS_131EN_ENCEL002_PRIME	C, M, U, V	2010-138T07:35:39	GMB_E131_Enceladus+000T01:31:00	000T00:20:00	2010-138T07:55:39	ISS_NAC to Enceladus	NEG_X to NSP	Pick up at ISS_NAC to Enceladus (0.0,-60.0,0.0 deg. offset), NEG_Z to NSP; Hand off at ISS_NAC to Enceladus, NEG_X to NSP. ISS_NAC to Enceladus	
VIMS_131EN_ENCEL002_PRIME	C, I, M, U	2010-138T07:55:39	GMB_E131_Enceladus+000T01:51:00	000T01:09:00	2010-138T09:04:39	ISS_NAC to Enceladus	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at ISS_NAC to Enceladus, NEG_X to 351.226/79.427.	
Periapse R = 3.518 Rs, lat ...		2010-138T08:31:30		000T00:00:01	2010-138T08:31:31				
GMS_131EN_FP3DAYMAP001_PRIME	I, M, U, V	2010-138T09:04:39	GMB_E131_Enceladus+000T03:00:00	000T02:00:00	2010-138T11:04:39	CIRS_FP3 to Enceladus (0.137,0.0,0.203 deg. offset)	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to 351.226/79.427; Hand off at ISS_NAC to Enceladus, NEG_X to NSP.	
End Custom		2010-138T11:04:39	GMB_E131_Enceladus+000T05:00:00	000T00:00:01	2010-138T11:04:40	ISS_NAC to Enceladus	NEG_X to NSP		
SP_131NA_DEADTIME138_PRIME	M	2010-138T11:04:39	GMB_E131_Enceladus+000T05:00:00	000T00:05:21	2010-138T11:10:00	ISS_NAC to Enceladus	NEG_X to NSP		
UVIS_131EN_ICVATM002_PRIME	M	2010-138T11:10:00		000T03:13:00	2010-138T14:23:00	UVIS_FUV to Enceladus	NEG_Z to 130.1/18.6	See observation description. Duration of 4 hours allows for 30 min slew to and from Enceladus, and 3 integration sites.	
SP_131EA_DLTURN138_PRIME	M	2010-138T14:23:00		000T00:37:00	2010-138T15:00:00	XBAND to Earth	NEG_X to 73.759/78.296		
NEW WAYPOINT		2010-138T15:00:00		000T16:55:00	2010-139T07:55:00	XBAND to Earth	NEG_X to 73.759/78.296		
SP_131EA_M70METNON138_PRIME	C, M, R	2010-138T15:00:00		000T09:00:00	2010-139T00:00:00	XBAND to Earth	NEG_X to 73.759/78.296		
Pointer Reset in preparatio...		2010-139T00:00:00		000T00:00:01	2010-139T00:00:01				
SP_131EA_G34BWGNON138_PRIME	C, M, R	2010-139T00:00:00		000T07:15:00	2010-139T07:15:00	XBAND to Earth	NEG_X to 73.759/78.296		
E11 Flyby Segment		2010-225T07:49:00		002T00:00:00	2010-225T07:49:00				
SP_136EA_WAYPTTURN225_PRIME	M	2010-225T07:49:00		000T00:40:00	2010-225T08:29:00	XBAND to Earth	NEG_X to NSP		
NEW WAYPOINT		2010-225T08:29:00		001T23:46:00	2010-227T08:15:00	XBAND to Earth	NEG_X to NSP		
ISS_136T1_M30R1CLD225_PRIME	C, M, V	2010-225T08:29:00	E136_M30R1CLD225+000T00:00:00	000T02:00:00	2010-225T10:29:00	CIRS_FP3 to Titan	NEG_X to NSP		
ISS_136D1_PLUMSEAR001_PRIME	C, M, U, V	2010-225T10:29:00		000T02:21:00	2010-225T12:50:00	ISS_NAC to Dione	NEG_X to 309.012/-24.568	Stay at Dione; do not return to WP at request end (ISS internal handoff to Enceladus plume)	
ISS_136EN_PLMRLHP001_PRIME	C, M, U, V	2010-225T12:50:00		000T02:10:00	2010-225T15:00:00	ISS_NAC to Enceladus	NEG_X to NSP	Pickup at Dione	
ISS_136EN_PLMSCCL001_PRIME	C, M, U, V	2010-225T15:00:00		000T01:30:00	2010-225T16:00:00	ISS_NAC to Enceladus	NEG_X to NSP	handoff at WP	
CIRS_136DJ_FP3SECLN001_PRIME	C, I, M, U, V	2010-225T16:00:00		000T02:55:00	2010-225T18:55:00	CIRS_FP3 to Dione (-0.099,0.0,0.17 deg. offset)	NEG_X to NSP	Hand off to CIRS_136EN_DRKPLUME001; PBV: ISS_NAC to Enceladus with (0.044,-20.001,0.242) deg offset, SBV NEG_X to NSP	
CIRS_136EN_DRKPLUME001_PRIME	I, M, U, V	2010-225T18:55:00		000T00:35:00	2010-225T19:30:00	ISS_NAC to Enceladus (0.044,-20.001,0.242 deg. offset)	NEG_X to NSP	Pick up from CIRS_136EN_FP3SECLN001; PBV: ISS_NAC to Enceladus with (0.044,-20.001,0.242) deg offset, SBV NEG_X to NSP	
SP_136NA_DEADTIME225_PRIME	M	2010-225T19:30:00		000T00:04:59	2010-225T19:34:59	XBAND to Earth	NEG_X to NSP		
Begin Custom		2010-225T19:34:59	GMB_E136_Enceladus-000T02:56:00	000T00:00:01	2010-225T19:35:00	XBAND to Earth	NEG_X to NSP		
ISS_136EN_PLMRLHP002_PRIME	C, M, U, V	2010-225T19:34:59	GMB_E136_Enceladus-000T02:56:00	000T01:55:00	2010-225T21:29:59	ISS_NAC to Enceladus	POS_X to NSP	Pick up at XBAND to Earth, NEG_X to NSP; Hand off at CIRS_FP3 to Enceladus, POS_X to NSP.	
CIRS_136EN_HIRES001_PRIME	C, I, M, U, V	2010-225T21:29:59	GMB_E136_Enceladus-000T01:01:00	000T03:00:00	2010-226T00:29:59	CIRS_FP3 to Enceladus	POS_X to NSP	Pick up at CIRS_FP3 to Enceladus, POS_X to NSP; Hand off at CIRS_FP3 to Enceladus, NEG_X to NEP.	
136EN (t) E11 ENCELADUS In...		2010-225T22:30:59		000T00:00:01	2010-225T22:31:00				
UVIS_136ST_URBETORIO01_PRIME	M, U, V	2010-226T00:29:59	GMB_E136_Enceladus+000T01:59:00	000T01:45:00	2010-226T02:14:59	UVIS_HSP to 78.634/-8.202	NEG_X to NSP	Pick up at CIRS_FP3 to Enceladus, NEG_X to NEP; Hand off at ISS_NAC to Enceladus, NEG_X to NSP.	
Periapse R = 3.457 Rs, lat ...		2010-226T01:04:02		000T00:00:01	2010-226T01:04:03				
VIMS_136EN_ENCEL001_PRIME	C, I, M, U	2010-226T02:14:59	GMB_E136_Enceladus+000T03:44:00	000T00:45:00	2010-226T02:59:59	ISS_NAC to Enceladus	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at XBAND to Earth, NEG_X to NSP.	
End Custom		2010-226T02:59:59	GMB_E136_Enceladus+000T04:29:00	000T00:00:01	2010-226T03:00:00	XBAND to Earth	NEG_X to NSP		
SP_136NA_DEADTIME226_PRIME	M	2010-226T03:00:00		000T00:05:00	2010-226T03:05:00	XBAND to Earth	NEG_X to NSP		
SP_136EA_C70METNON226_PRIME	M	2010-226T03:05:00		000T02:25:00	2010-226T05:30:00	XBAND to Earth	NEG_X to NSP		
ISS_136TE_TETHYS001_PRIME	C, M, U, V	2010-226T05:30:00		000T07:00:00	2010-226T12:30:00	ISS_NAC to Tethys	NEG_X to 89.949/51.62	ISS_NAC to Tethys, NEG_X to 89.949/51.620	
SP_136EA_M70METNON226_PRIME	M	2010-226T12:30:00		000T05:15:00	2010-226T17:45:00	XBAND to Earth	NEG_X to NSP		
SP_136EA_G34BWGNON226_PRIME	M	2010-226T17:45:00		000T03:34:00	2010-226T21:19:00	XBAND to Earth	NEG_X to NSP		
ENGR_136SC_KPTYBIAS226_PRIME	M	2010-226T21:19:00		000T01:30:00	2010-226T22:49:00	XBAND to Earth	NEG_X to NSP		
SP_136EA_C70METNON426_PRIME	C, M	2010-226T22:49:00		000T09:00:00	2010-227T07:49:00	XBAND to Earth	NEG_X to NSP		
SOST_139 Segment		2010-288T04:02:00		003T00:00:00	2010-291T04:02:00				
VIMS_139DI_DIONE001_PRIME	C, I, U	2010-288T04:02:00		000T14:18:00	2010-288T18:20:00	VIMS_IR to Dione	POS_X to 258.0/-74.5		
SP_139EA_C34HEFOTB288_PRIME	C, E, N	2010-288T18:20:00		000T09:00:00	2010-289T03:20:00	XBAND to Earth		NEG_X to 271.983 / 76.769 for RBOT	
ISS_139EN_PLMSCCL001_PIE	C, U, V	2010-289T03:20:00		000T03:55:00	2010-289T07:15:00	ISS_NAC to Enceladus	POS_X to NSP	Custom pickup and hand off with SP	
SP_139OT_WAYPTTURN289_PRIME	M	2010-289T08:21:00		000T00:25:00	2010-289T08:46:00	ISS_NAC to 35.0/-3.0	NEG_X to NSP	Custom pickup from ISS	
NEW WAYPOINT		2010-289T08:46:00		000T15:29:00	2010-290T00:15:00	ISS_NAC to 35.0/-3.0	NEG_X to NSP		
VIMS_139SA_OMICETOC001_PIE	C	2010-289T08:46:00		000T02:30:00	2010-289T11:16:00	CIRS_FP3 to 34.836/-2.978	PIC		
CIRS_139MI_MIMAS001_PRIME	I, M, U, V	2010-289T11:16:00		000T05:59:00	2010-289T17:15:00	CIRS_FU1 to Mimas (0.231,0.0,-0.088 deg. offset)	NEG_X to NSP		
ISS_139PL_PALENCLOS001_PIE	C, U, V	2010-289T17:15:00		000T01:30:00	2010-289T18:45:00	UVIS_FLV to Pallene	PIC	SOST PIE	
Periapse R = 4.101 Rs, lat ...		2010-289T17:56:40		000T00:00:01	2010-289T17:56:41				
VIMS_139SA_ALPHAOC001_PIE	C, E	2010-289T18:45:00		000T02:30:00	2010-289T21:45:00	CIRS_FP3 to 141.897/-8.659	NEG_X to NSP	Custom handoff to SP	
SP_139DI_WAYPTTURN289_PRIME	M	2010-289T23:30:00		000T00:45:00	2010-290T00:15:00	ISS_NAC to Dione	POS_X to 111.0/-57.0		
NEW WAYPOINT		2010-290T00:15:00		000T03:55:00	2010-290T03:50:00	ISS_NAC to Dione	POS_X to 111.0/-57.0		
CIRS_139DI_DIONE001_PRIME	I, U, V	2010-290T00:15:00		000T01:30:00	2010-290T01:45:00	CIRS_FP3 to Dione (0.0,0.0,-0.231 deg. offset)	POS_X to 111.0/-57.0	High spectral resolution scan/stare	
ISS_139DI_REGMAP001_PIE	C, U, V	2010-290T01:45:00		000T01:30:00	2010-290T03:15:00	ISS_NAC to Dione	POS_X to 111.0/-57.0	SOST PIE	
SP_139EA_DLTURN490_PRIME	M	2010-290T03:15:00		000T00:35:00	2010-290T03:50:00	XBAND to Earth	POS_X to NEP		
NEW WAYPOINT		2010-290T03:50:00		000T01:40:00	2010-290T05:30:00	XBAND to Earth	POS_X to NEP		
SP_139RH_WAYPTTURN290_PRIME	M	2010-290T04:55:00		000T00:35:00	2010-290T05:30:00	ISS_NAC to Rhea	POS_X to 129.2/-66.3		
NEW WAYPOINT		2010-290T05:30:00		000T03:40:00	2010-290T09:10:00	ISS_NAC to Rhea	POS_X to 129.2/-66.3		
CIRS_139RH_RHEA001_PRIME	I, U, V	2010-290T05:30:00		000T01:30:00	2010-290T07:00:00	CIRS_FP3 to Rhea	POS_X to 129.2/-66.3		
ISS_139RH_REGMAP001_PIE	C, U, V	2010-290T07:00:00		000T01:30:00	2010-290T08:30:00	ISS_NAC to Rhea	POS_X to 129.2/-66.3	no longer custom, rhea is waypoint	
SP_139EA_DLTURN290_PRIME	M	2010-290T08:30:00		000T00:40:00	2010-290T09:10:00	XBAND to Earth	POS_X to NEP		
NEW WAYPOINT		2010-290T09:10:00		000T19:50:00	2010-291T05:00:00	XBAND to Earth	POS_X to NEP		
ENGR_139SC_KPTYBIAS290_PRIME	C	2010-290T13:32:00		000T01:30:00	2010-290T15:02:00	POS_Z to DELTA_H (0.0,0.0,0.42.0 deg. offset)	NEG_X to Sun		
SP_139EA_G34HEFNON290_PRIME	C	2010-290T15:02:00		000T04:00:00	2010-290T19:02:00	XBAND to Earth	POS_X to NEP		
SP_139EA_C70METNON290_PRIME	C	2010-290T19:02:00		000T09:00:00	2010-291T04:02:00	XBAND to Earth	POS_X to NEP		
Enceladus Flyby E12 Segment		2010-331T19:20:00		004T06:01:00	2010-336T01:21:00				
ISS_141HY_FLYBY001_PRIME	C, U, V	2010-331T19:20:00		000T15:01:00	2010-332T10:21:00	ISS_NAC to Hyperion	NEG_Z to NEP	Initial pointing is ISS_NAC to Hyperion, NEG_Z to 166.449/42.63 for RBOT.	
SP_141EA_G34B26OTB332_PRIME	C, E, N	2010-332T10:21:00		000T09:00:00	2010-332T19:21:00	XBAND to Earth		4 Hr Rolling NEG_Y to Saturn (0.0,-9.5)(change to RA/DEC equiv), MIMI	
ISS_141HY_FLYBY002_PRIME	C, U, V	2010-332T19:21:00		000T05:05:00	2010-333T00:26:00	ISS_NAC to Hyperion	NEG_X to NEP		
SP_141EA_DLTURN333_PRIME	M	2010-333T00:26:00		000T00:40:00	2010-333T01:06:00	XBAND to Earth	NEG_X to NEP		
NEW WAYPOINT		2010-333T01:06:00		001T02:46:00	2010-334T03:52:00	XBAND to Earth	NEG_X to NEP		
SP_141EA_YBIAS333_PRIME	M	2010-333T01:06:00		000T01:30:00	2010-333T02:36:00	XBAND to Earth	NEG_X to NEP		
SP_141EA_M70METNON333_PRIME	C, R	2010-333T02:36:00		000T09:00:00	2010-333T11:36:00	XBAND to Earth	Rolling	NEG_X to NEP or NSP, CAPS	
UVIS_141RH_ICYLON001_PRIME	C, V	2010-333T11:36:00		000T10:58:00	2010-333T22:34:00	UVIS_FUV to Rhea	POS_X to 190.145/86.599		
CDA_141OT_RINGSHAD001_PIE	R	2010-333T22:34:00		000T03:58:55	2010-334T02:13:00	NEG_Z to Earth (-27.614,-77.816,9.031 deg. offset)	NEG_X to NEP	NEG_X to (24.10), CDA Art : 125 deg	
SP_141SA_WAYPTTURN334_PRIME	R	2010-334T03:13:00		000T00:15:00	2010-334T03:13:00	XBAND to Earth	POS_X to 286.0/-33.0	part 1 of 2	
SP_141SA_WAYPTTURN434_PRIME	R	2010-334T03:28:00		000T00:24:00	2010-334T03:52:00	XBAND to Earth	POS_X to NEP	part 2 of 2	
NEW WAYPOINT		2010-334T03:52:00		002T10:59:00	2010-336T14:51:00	XBAND to Earth	POS_X to NEP		
SP_141EN_DEADTIME334_PRIME	R	2010-334T03:52:00		000T00:01:59	2010-334T03:53:59	XBAND to Earth	POS_X to NEP		
SP_141EA_M348WGRSS334_PRIME	R	2010-334T03:53:59	GMB_E141_Enceladus_E12-000T08:00:00	000T03:00:00	2010-334T06:53:59	XBAND to Earth	POS_X to NEP	RSS Gravity PIE	
Begin Custom		2010-334T06:53:59	GMB_E141_Enceladus_E12-000T05:00:00	000T00:00:01	2010-334T06:54:00	XBAND to Earth	POS_X to NEP		

ISS 141EN PLMHPH001 PIE	C, M, U, V	2010-334T06:53:59	GMB E141 ENCELADUS E12-000T05:00:00	000T02:30:00	2010-334T09:23:59	ISS_NAC to Enceladus	NEG X to NSP	Pick up at XBAND to Earth, POS X to NEP; Hand off at ISS_NAC to Enceladus, NEG X to NSP. SOST PIE
CIRS 141EN DRKMAP001_PRIME	M, U	2010-334T09:23:59	GMB E141 ENCELADUS E12-000T02:30:00	000T01:00:00	2010-334T10:23:59	CIRS FP1 to Enceladus	NEG X to NSP	Pick up at ISS_NAC to Enceladus, NEG X to NSP; Hand off at XBAND to Earth, ISS_NAC to 285.0/-60.0
Periapse R = 3.567 Rs, lat ...		2010-334T09:32:59		000T00:00:01	2010-334T09:33:00			
RSS 141EN GRAVITY02 PIE	C, I, M, U	2010-334T10:23:59	GMB E141 ENCELADUS E12-000T01:30:00	000T03:00:00	2010-334T11:23:59	XBAND to Earth	ISS_NAC to 285.0/-60.0	Pick up at XBAND to Earth, ISS_NAC to 285.0/-60.0; Hand off at XBAND to Earth, ISS_NAC to 285.0/-60.0
141EN (t) E12 ENCELADUS Du...		2010-334T11:53:59		000T00:00:01	2010-334T11:54:00			
CIRS 141EN DAYMAP001_PRIME	I, M, U, V	2010-334T13:23:59	GMB E141 ENCELADUS E12+000T01:30:00	000T01:00:00	2010-334T14:23:59	CIRS FP3 to Enceladus	POS X to NEP	Pick up at XBAND to Earth, ISS_NAC to 285.0/-60.0; Hand off at ISS_NAC to Enceladus, POS X to NEP.
VIMS 141EN ENCELADUS001 PIE	C, I, M, U	2010-334T14:23:59	GMB E141 ENCELADUS E12+000T02:30:00	000T02:30:00	2010-334T16:53:59	ISS_NAC to Enceladus	POS X to NEP	Pick up at ISS_NAC to Enceladus, POS X to NEP; Hand off at XBAND to Earth, POS X to NEP.
End Custom		2010-334T16:53:59	GMB E141 ENCELADUS E12+000T05:00:00	000T00:00:01	2010-334T16:54:00	XBAND to Earth	POS X to NEP	
SP 141EA C34BWRSS334_PRIME	M, R	2010-334T16:53:59	GMB E141 ENCELADUS E12+000T05:00:00	000T03:00:00	2010-334T19:53:59	XBAND to Earth	POS X to NEP	RSS Gravity PIE
SP 141EN DEADTIME434_PRIME		2010-334T19:53:59	GMB E141 ENCELADUS E12+000T08:00:00	000T00:02:01	2010-334T19:56:00	XBAND to Earth	POS X to NEP	
UVIS 141EN ICYLN001_PRIME	C, I, V	2010-334T19:56:00		000T06:40:00	2010-335T02:36:00	ISS_NAC to Enceladus	POS X to 108.457/-30.825	
SP 141EA M34HEFOTP335_PRIME	C, E, N	2010-335T02:36:00		000T08:55:00	2010-335T11:31:00	XBAND to Earth	POS X to NEP	POS X to NEP or NSP (changed to RA/DEC equiv), CAPS
ISS 141OT RHEAL4335_PRIME		2010-335T11:36:00		000T04:45:00	2010-335T16:21:00	ISS_NAC to Rocks	NEG Z to Earth	
SP 141EA C70METOTB335_PRIME	E, N	2010-335T16:21:00		000T09:00:00	2010-336T01:21:00	XBAND to Earth	6-Hr Rolling	same as OTP pass, CAPS
Enceladus Flyby E13 Segment		2010-354T00:23:00		002T02:00:00	2010-356T02:23:00			
SP 142TI WAYPTTURN354_PRIME		2010-354T00:23:00		000T04:40:00	2010-354T01:03:00	ISS_NAC to Titan	POS X to 168.227/-62.426	new waypoint attitude accommodates S65 RBOT strategy
NEW WAYPOINT		2010-354T01:03:00		000T03:12:00	2010-354T04:15:00	ISS_NAC to Titan	POS X to 168.227/-62.426	
ISS 142TI M60R1CLD354_PRIME	C, V	2010-354T01:03:00	E142 M60R1CLD354+000T00:00:00	000T02:00:00	2010-354T03:03:00	ISS_NAC to Titan	POS X to 168.227/-62.426	
SP 142DI WAYPTTURN354_PRIME		2010-354T03:40:00		000T00:35:00	2010-354T04:15:00	ISS_NAC to Dione	POS X to 223.7/-83.5	
NEW WAYPOINT		2010-354T04:15:00		000T11:00:00	2010-354T15:15:00	ISS_NAC to Dione	POS X to 223.7/-83.5	
VIMS 142DI DIONE001_PRIME	C, I, U	2010-354T04:15:00		000T03:57:00	2010-354T08:12:00	ISS_NAC to Dione	POS X to 223.7/-83.5	any rot friendly secondary
VIMS 142DI DIONE002_PRIME	C, U	2010-354T08:12:00		000T02:18:00	2010-354T10:30:00	ISS_NAC to Dione	POS X to 223.7/-83.5	any rot friendly secondary
CIRS 142DI FP3NITE001_PRIME	I, V	2010-354T10:30:00		000T03:55:00	2010-354T14:25:00	CIRS FP1 to Dione	POS X to 223.7/-83.5	
ISS 142DI REGMAP001_PRIME	C, V	2010-354T14:25:00		000T00:30:00	2010-354T14:55:00	ISS_NAC to Dione	POS X to 223.7/-83.5	
SP 142EN WAYPTTURN354_PRIME		2010-354T14:55:00		000T00:20:00	2010-354T15:15:00	ISS_NAC to Enceladus	POS X to 185.1/-47.1	
NEW WAYPOINT		2010-354T15:15:00		000T12:05:00	2010-355T03:20:00	ISS_NAC to Enceladus	POS X to 185.1/-47.1	
ISS 142EN PLMHPH001 PIE	C, U, V	2010-354T15:15:00		000T04:40:00	2010-354T19:55:00	ISS_NAC to Enceladus	NEG X to NSP	SOST PIE
CIRS 142EN NITEMAP001_PRIME	I, M, U, V	2010-354T19:55:00		000T00:40:00	2010-354T20:35:00	ISS_NAC to Enceladus	POS X to 185.1/-47.1	
SP 142EN DEADTIME354_PRIME	M	2010-354T20:35:00		000T00:07:00	2010-354T20:42:00	NEG Y to Enceladus	POS X to 185.1/-47.1	
VIMS 142SA ALPORIC001 PIE	C, M	2010-354T20:42:00	GMB E142 ENCELADUS E13-000T04:26:26	000T02:03:00	2010-354T22:45:00	CIRS FPB to 88.793/7.407	POS X to 185.1/-47.1	POS Z to NSP is an acceptable secondary for CIRS.
Begin Custom		2010-354T22:45:00	GMB E142 ENCELADUS E13-000T02:23:26	000T00:00:01	2010-354T22:45:01	ISS_NAC to Enceladus	NEG X to 185.1/-47.1	
ISS 142EN PLMHPH002 PIE	C, M, U, V	2010-354T22:45:00	GMB E142 ENCELADUS E13-000T02:23:26	000T01:30:00	2010-355T00:15:00	ISS_NAC to Enceladus	NEG X to NSP	Pick up at ISS_NAC to Enceladus, POS X to 185.1/-47.1; Hand off at ISS_NAC to Enceladus, POS X to 185.1/-47.1. SOST PIE
Periapse R = 3.578 Rs, lat ...		2010-354T22:49:02		000T00:00:01	2010-354T22:49:00			
INMS 142EN ENCEL3001_PRIME	M, U	2010-355T00:15:00	GMB E142 ENCELADUS E13-000T00:53:26	000T01:58:40	2010-355T02:13:40	NEG X to SC RAM	POS Y to COROT	Pick up at ISS_NAC to Enceladus, POS X to 185.1/-47.1; Hand off at ISS_NAC to Enceladus, NEG Z to 88.0/-25.6.
Begin Dual Playback Science...		2010-355T00:53:26	GMB E142 ENCELADUS E13-000T00:15:00	000T00:00:01	2010-355T00:53:27			
142EN (t) E13 ENCELADUS Du...		2010-355T01:08:26		000T00:00:01	2010-355T01:08:27			
End Dual Playback Science f...		2010-355T01:23:26	GMB E142 ENCELADUS E13+000T00:15:00	000T00:00:01	2010-355T01:23:27			
ISS 142EN ORSCA001 PIE	C, U, V	2010-355T02:13:40	GMB E142 ENCELADUS E13+000T01:05:14	000T01:01:20	2010-355T03:15:00	ISS_NAC to Enceladus	NEG Z to 88.0/-25.6	Pick up at ISS_NAC to Enceladus, NEG Z to 88.0/-25.6; Hand off at ISS_NAC to Enceladus, NEG Z to 88.0/-25.6.
SP 142EN WAYPTTURN355_PRIME		2010-355T03:15:00	GMB E142 ENCELADUS E13+000T02:06:34	000T00:05:00	2010-355T03:20:00	ISS_NAC to Enceladus	NEG Z to 88.0/-25.6	Pick up at ISS_NAC to Enceladus, NEG Z to 88.0/-25.6; Hand off at ISS_NAC to Enceladus, NEG Z to 88.0/-25.6.
NEW WAYPOINT		2010-355T03:20:00		000T04:45:00	2010-355T08:05:00	ISS_NAC to Enceladus	NEG Z to 88.0/-25.6	
End Custom		2010-355T03:20:00	GMB E142 ENCELADUS E13+000T02:11:34	000T00:00:01	2010-355T03:20:01	ISS_NAC to Enceladus	NEG Z to 88.0/-25.6	
SP 142EN DEADTIME355_PRIME		2010-355T03:20:00	GMB E142 ENCELADUS E13+000T02:11:34	000T00:05:00	2010-355T03:25:00	NEG Y to Enceladus	NEG Z to 88.0/-25.6	
VIMS 142EN ENCEL001 PIE	C, I, U	2010-355T03:25:00		000T03:35:00	2010-355T07:00:00	ISS_NAC to Enceladus	NEG Z to 88.0/-25.6	secondary not critical
SP 142EA DLTURN355_PRIME		2010-355T07:11:30		000T00:22:30	2010-355T07:34:00	NEG Y to Enceladus	POS X to NEP	initiate downlink turn 11 minutes, 30 seconds later per S65 RBOT strategy
SP 142EA DLTURN455_PRIME		2010-355T07:34:00		000T00:31:00	2010-355T08:05:00	XBAND to Earth	POS X to 243.881/83.903	add -18-degree offset to downlink attitude per S65 RBOT strategy
NEW WAYPOINT		2010-355T08:05:00		000T18:33:00	2010-356T02:38:00	XBAND to Earth	POS X to 243.881/83.903	
ENGR 142SC KPTYBIAS355_PRIME		2010-355T08:05:00		000T01:30:00	2010-355T09:35:00	POS Z to DELTA H (0.0,0.0,20.001 deg. offset)	NEG X to Sun	
SP 142EA G34HEFNON355_PRIME	E	2010-355T09:35:00		000T04:48:00	2010-355T14:23:00	XBAND to Earth	POS X to 243.881/83.903	add -18-degree offset to downlink per S65 RBOT strategy
SP 142EA C70METNON355_PRIME	C	2010-355T14:23:00		000T11:00:00	2010-356T01:23:00	XBAND to Earth	POS X to 243.881/83.903	add -18-degree offset to downlink per S65 RBOT strategy
Pointer Reset in preparatio...		2010-356T01:23:00		000T00:00:01	2010-356T01:23:01			
SP 142EA M70METNON356_PRIME	C	2010-356T01:23:00		000T01:00:00	2010-356T02:23:00	XBAND to Earth	POS X to 243.881/83.903	add -18-degree offset to downlink per S65 RBOT strategy
SATURN 143_Rhea Flyby R3...		2011-009T09:11:00		003T08:15:00	2011-012T17:26:00			Rhea R3 flyby was part of a Saturn TWT segment, I have deleted all lines except the min Rhea block
SP 143EA WAYPTTURN010_PRIME		2011-010T09:41:00		000T04:40:00	2011-010T10:21:00	ISS_NAC to Saturn	NEG X to 39.8/83.6	Saturn TWT segment
NEW WAYPOINT		2011-010T10:21:00		001T19:35:00	2011-012T05:56:00	ISS_NAC to Saturn	NEG X to 39.8/83.6	Saturn TWT segment
Periapse R = 3.578 Rs, lat ...		2011-010T16:13:38		000T00:00:01	2011-010T16:13:39			Saturn TWT segment
SP 143SA DEADTIME011_PRIME	M	2011-011T04:03:00		000T00:05:25	2011-011T04:08:25	ISS_NAC to Saturn	NEG X to 39.8/83.6	Begin R3 flyby block
Begin Custom		2011-011T04:08:25		000T00:00:01	2011-011T04:08:26	ISS_NAC to Saturn	NEG X to 39.8/83.6	
CAPS 143RH RHEAPT001 PIE	I, M, U	2011-011T04:08:25	GMB E143 RHEA R3-000T00:45:00	000T01:24:00	2011-011T05:32:25	NEG X to Dust RAM (40.0,0.0,0.0 deg. offset)	POS Y to COROT	Pick up at ISS_NAC to Saturn, NEG X to 39.8/83.6; Hand off at ISS_NAC to Rhea, NEG X to 39.8/83.6.
Begin Dual Playback Science		2011-011T04:20:25	GMB E143 RHEA R3-000T00:33:00	000T00:00:01	2011-011T04:20:26			
143RH (t) R3 RHEA Outbound...		2011-011T04:53:25		000T00:00:01	2011-011T04:53:26			
End Dual Playback Science		2011-011T05:26:25	GMB E143 RHEA R3+000T00:33:00	000T00:00:01	2011-011T05:26:26			
ISS 143RH RHEA001 PIE	C, M, U	2011-011T05:32:25	GMB E143 RHEA R3+000T00:39:00	000T04:06:00	2011-011T09:38:25	ISS_NAC to Rhea	NEG X to 39.8/83.6	Pick up at ISS_NAC to Rhea, NEG X to 39.8/83.6; Hand off at ISS_NAC to Saturn, NEG X to 39.8/83.6.
End Custom		2011-011T09:38:25		000T00:00:01	2011-011T09:38:26	ISS_NAC to Saturn	NEG X to 39.8/83.6	
SP 143SA DEADTIME411_PRIME		2011-011T09:38:25	GMB E143 RHEA R3+000T04:45:00	000T00:04:35	2011-011T09:43:00	ISS_NAC to Saturn	NEG X to 39.8/83.6	
SP 143EA DLTURN011_PRIME		2011-011T09:43:00		000T00:40:00	2011-011T10:23:00	XBAND to Earth	NEG X to 281.664/47.792	Saturn TWT segment
SOST 144 Segment		2011-029T15:29:00		003T16:15:00	2011-033T07:44:00			
UVIS 144DI ICYSTARE001_PRIME	C, I	2011-029T15:29:00		000T12:50:00	2011-030T04:19:00	UVIS_FUV to Dione	NEG X to 79.9/15.0	
SP 144EA DLTURN030_PRIME		2011-030T04:19:00		000T00:40:00	2011-030T04:59:00	XBAND to Earth	POS X to NEP	
NEW WAYPOINT		2011-030T04:59:00		000T11:50:00	2011-030T16:49:00	XBAND to Earth	POS X to NEP	
ENGR 144SC KPTYBIAS030_PRIME		2011-030T04:59:00		000T01:30:00	2011-030T06:29:00	POS Z to DELTA H	NEG X to Sun	
SP 144EA G34B24NON030_PRIME	C, R	2011-030T06:29:00		000T09:00:00	2011-030T15:29:00	XBAND to Earth	POS X to NEP	Removed roll due to RBOT
SP 144EN DEADTIME030_PRIME		2011-030T15:29:00		000T00:40:00	2011-030T16:09:00	XBAND to Earth	POS X to NEP	
SP 144EN WAYPTTURN030_PRIME	V	2011-030T16:09:00	LMB E144 Peri-000T10:41:17	000T00:40:00	2011-030T16:49:00	ISS_NAC to Enceladus	NEG X to 75.5/62.3	Custom hand-off to ISS_NAC to Enceladus, NEG X to NSP
NEW WAYPOINT		2011-030T16:49:00		001T05:15:00	2011-031T22:04:00	ISS_NAC to Enceladus	NEG X to 75.5/62.3	
ISS 144EN PLMHPH001 PIE	C, U, V	2011-030T16:49:00	LMB E144 Peri-000T10:01:17	000T03:36:00	2011-030T20:25:00	ISS_NAC to Enceladus	NEG X to NSP	SOST PIE; Pick-up at ISS_NAC to Enceladus, NEG X to NSP; Handoff to ISS_NAC to Enceladus, NEG X to 57.172/76.8
CIRS 144MI MIMAS001_PRIME	I, M, U, V	2011-030T20:25:00	LMB E144 Peri-000T06:25:17	000T07:35:00	2011-031T04:00:00	ISS_NAC to Mimas	NEG X to 75.5/62.3	Pick-up at ISS_NAC to Enceladus, NEG X to 57.172/76.8; Handoff to waypoint
Periapse R = 3.559 Rs, lat ...		2011-031T02:50:17		000T00:00:01	2011-031T02:50:18			
ISS 144EN PLMHPH002 PIE	C, U, V	2011-031T04:00:00	LMB E144 Peri+000T01:09:43	000T01:30:00	2011-031T05:30:00	ISS_NAC to Enceladus	NEG X to 110.305/68.633	SOST PIE
ISS 144EN ENCEL001 PIE	C, U, V	2011-031T05:30:00	LMB E144 Peri+000T02:39:43	000T02:00:00	2011-031T07:30:00	ISS_NAC to Enceladus	NEG X to 75.5/62.3	
Begin Custom		2011-031T07:30:00	LMB E144 Peri+000T04:39:43	000T00:00:01	2011-031T07:30:01	ISS_NAC to Enceladus	NEG X to 75.5/62.3	
ISS 144MI MIMAS001 PIE	C, E, U, V	2011-031T07:30:00	LMB E144 Peri+000T04:39:43	000T01:30:00	2011-031T09:00:00	ISS_NAC to Mimas	POS X to 266.6/-68.7	Pick up at ISS_NAC to Enceladus, NEG X to 75.5



SP 144EA DEADTIME031_PRIME			2011-031T22:04:00	LMB E144 Peri+000T19:13:43	000T00:40:00	2011-031T22:44:00	XBAND to Earth	POS X to NEP	
SP 144EA M70METOTP031_PRIME	C, E, N		2011-031T22:44:00		000T09:00:00	2011-032T07:44:00	XBAND to Earth	POS X to NEP	Removed roll due to RBOT
ISS 1440T LSMIMAS032_PRIME	C, V		2011-032T08:29:00		000T03:40:00	2011-032T12:09:00	ISS_NAC to Rocks (0.0,-16.0,0.0 deg. offset)	NEG Z to Earth	No return to WP (ISS-internal hand-off)
ISS 1440T MIMASL4032_PRIME	C, V		2011-032T12:09:00		000T03:20:00	2011-032T15:29:00	ISS_NAC to Rocks (0.0,-16.0,0.0 deg. offset)	NEG Z to Earth	Pick-up at Mimas-L4 attitude (ISS-internal hand-off)
SP 144EA M34BWGOTB032_PRIME	C, N		2011-032T12:44:00		000T09:00:00	2011-033T07:44:00	XBAND to Earth	4 Hr Rolling	same as OTP pass, CAPS
SOST 153 Segment			2011-256T07:32:00		002T09:15:00	2011-258T16:47:00			
SP 153SA WAYPTTURN256_PRIME			2011-256T07:32:00		000T00:24:00	2011-256T07:56:00	ISS_NAC to Saturn	POS X to NEP	pt 1 of 2
SP 153SA WAYPTTURN456_PRIME			2011-256T07:56:00		000T00:41:00	2011-256T08:37:00	ISS_NAC to Saturn	NEG X to 40.0/64.0	pt 2 of 2
NEW WAYPOINT			2011-256T08:37:00		000T21:40:00	2011-257T06:17:00	ISS_NAC to Saturn	NEG X to 40.0/64.0	
ISS 153EN PLMMPMR001_PIE	C, U		2011-256T08:37:00		000T03:23:00	2011-256T12:00:00	ISS_NAC to Enceladus	NEG X to NSP	SOST PIE
UVIS 153SA_ENAUROFOOT001_PRIME			2011-256T12:00:00		000T06:00:00	2011-256T18:00:00	UVIS_FUV to Saturn	NEG X to 95.992/67.159	
Begin Custom			2011-256T18:35:00		000T00:00:01	2011-256T18:35:01			
IDA 1530T_RINGSHAD001_PIE			2011-256T18:35:01		000T03:24:59	2011-256T22:00:00	NEG_Z to Earth (-20.0,-80.0,0.0 deg. offset)	NEG X to 2.0/3.0	Pick up at ISS_NAC to Saturn, NEG_X to 40.0/64.0; Hand off at ISS_NAC to 238.8/64.9, NEG_X to 4.0/15.0.
ISS 153EN_ENCELO01_PIE	C, U, V		2011-256T22:00:00		000T03:00:00	2011-257T01:00:00	ISS_NAC to Enceladus	POS X to 220.8/-82.2	Pick up at ISS_NAC to 238.8/64.9, NEG_X to 4.0/15.0; Hand off at ISS_NAC to 340.0/-30.0, POS_X to 220.8/-82.2.
Periapse R = 3.231 Rs, lat ...			2011-256T23:01:16		000T00:00:01	2011-256T23:01:17			
ISS 153PL_PALLEN001_PIE	C, U, V		2011-257T01:00:00		000T01:30:00	2011-257T02:30:00	ISS_NAC to Pallene	POS X to 220.8/-82.2	Pick up at ISS_NAC to 340.0/-30.0, POS_X to 220.8/-82.2; Hand off at ISS_NAC to Pallene, NEG_X to 56.1/82.3.
GRS 153TE_PACMAN001_PRIME	I, U, V		2011-257T02:30:00		000T03:07:00	2011-257T05:37:00	GRS_FP3 to Tethys	NEG X to NEP	Pick up at ISS_NAC to Pallene, NEG_X to 56.1/82.3; Hand off at ISS_NAC to Saturn, NEG_X to 40.0/64.0.
End Custom			2011-257T05:37:00		000T00:00:01	2011-257T05:37:01			
SP 153EA_DLTURN257_PRIME			2011-257T05:37:00		000T00:30:00	2011-257T06:07:00	XBAND to Earth (0.0,0.0,40.0 deg. offset)	POS X to NEP	pt 1 of 2
SP 153EA_DLTURN457_PRIME			2011-257T06:07:00		000T00:10:00	2011-257T06:17:00	XBAND to Earth	POS X to NEP	pt 2 of 2
NEW WAYPOINT			2011-257T06:17:00		001T11:19:00	2011-258T17:30:00	XBAND to Earth	POS X to NEP	
ENGR 153SC_KPTYBIAS257_PRIME			2011-257T06:17:00		000T01:30:00	2011-257T07:47:00	POS_Z to DELTA_H (0.0,0.0,-76.998 deg. offset)	NEG X to Sun	
SP 153EA_M34BWGNON257_PRIME	C, E		2011-257T07:47:00		000T09:00:00	2011-257T16:47:00	XBAND to Earth	Rolling	POS X to NEP or NSP, CAPS
GRS 153TE_PACMAN002_PRIME	U		2011-257T16:47:00		000T04:00:00	2011-257T20:47:00	GRS_FP3 to Tethys	NEG X to NEP	
ISS 153TI_M60R2CLD257_PRIME	C, V		2011-257T20:47:00	E153 M60R2CLD257+000T00:00:00	000T01:30:00	2011-257T22:17:00	ISS_NAC to Titan	POS X to 267.659/33.531	
SP 153EA_C70METNON257_PRIME			2011-257T22:17:00		000T09:30:00	2011-258T07:47:00	XBAND to Earth	Rolling	
SP 153EA_M34BWGOTP258_PRIME	C, N		2011-258T07:47:00		000T08:40:00	2011-258T16:27:00	XBAND to Earth	4 Hr Rolling	POS X to NEP or NSP (changed to RA/DEC equiv), CAPS
Enceladus Flyby E14 Segment			2011-273T23:17:00		002T23:45:00	2011-276T23:02:00			
SP 154DI_WAYPTTURN273_PRIME			2011-273T23:17:00		000T00:45:00	2011-274T00:02:00	ISS_NAC to Dione	NEG X to 12.4/66.9	Actually turning to 9.403/64.076 for RBOT
NEW WAYPOINT			2011-274T00:02:00		000T06:58:00	2011-274T07:00:00	ISS_NAC to Dione	NEG X to 12.4/66.9	
ISS 154DI_WISPYMOV001_PRIME	C, U, V		2011-274T00:02:00		000T06:18:00	2011-274T06:20:00	ISS_NAC to Dione	NEG X to 9.403/64.076	
SP 154EN_WAYPTTURN274_PRIME			2011-274T06:20:00		000T00:40:00	2011-274T07:00:00	ISS_NAC to Enceladus	NEG X to 80.9/53.2	
NEW WAYPOINT			2011-274T07:00:00		000T13:55:00	2011-274T20:55:00	ISS_NAC to Enceladus	NEG X to 80.9/53.2	
SP 154EN_DEADTIME274_PRIME			2011-274T07:00:00		000T00:15:00	2011-274T07:15:00	ISS_NAC to Enceladus	NEG X to 80.9/53.2	
Begin Custom			2011-274T07:15:00	GMB_E154_ENCELADUS_E14-000T06:37:26	000T00:00:01	2011-274T07:15:01	ISS_NAC to Enceladus	NEG X to 80.9/53.2	
ISS 154EN_PLMHPR001_PIE	C, M, U, V		2011-274T07:15:00	GMB_E154_ENCELADUS_E14-000T06:37:26	000T04:45:00	2011-274T12:00:00	ISS_NAC to Enceladus	NEG X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to 80.9/53.2; Hand off at ISS_NAC to Enceladus, NEG_X to NSP. SOST PIE
INMS 154EN_ENCL14001_PIE	C, E, M		2011-274T12:00:00	GMB_E154_ENCELADUS_E14-000T15:52:26	000T02:19:26	2011-274T14:19:26	NEG_X to SC_RAM	ISS_NAC to 352.872/83.38	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at NEG_X to SC_RAM, ISS_NAC to 39.3/83.38. Collaborative Rider(s): CIRIS.
Begin Dual Playback Science...			2011-274T13:37:26	GMB_E154_ENCELADUS_E14-000T00:15:00	000T00:00:01	2011-274T13:37:27			
154EN (t) E14 ENCELADUS In...			2011-274T13:52:26		000T00:00:01	2011-274T13:52:27			
End Dual Playback Science f...			2011-274T14:07:26	GMB_E154_ENCELADUS_E14+000T00:15:00	000T00:00:01	2011-274T14:07:27			
CIRIS 154EN_FP15CLX001_PIE	C, E, I, M, U, V		2011-274T14:19:26	GMB_E154_ENCELADUS_E14+000T00:27:00	000T03:40:34	2011-274T18:00:00	CIRIS_FP1 to Enceladus (0.0,-26.929,0.0 deg. offset)	NEG X to NEP	Pick up at NEG_X to SC_RAM, ISS_NAC to 39.3/83.38; Hand off at CIRIS_FP1 to Enceladus (0.0,-26.929,0.0 deg. offset), NEG_X to NEP. Collaborative Rider(s): ISS.
Periapse R = 3.250 Rs, lat ...			2011-274T16:52:54		000T00:00:01	2011-274T16:52:55			
ISS 154EN_ENCELADUS001_PRIME	C, U, V		2011-274T18:00:00	GMB_E154_ENCELADUS_E14+000T04:07:34	000T02:00:00	2011-274T20:00:00	ISS_NAC to Enceladus	NEG X to 91.316/59.026	Pick up at CIRIS_FP1 to Enceladus (0.0,-26.929,0.0 deg. offset), NEG_X to NEP; Hand off at ISS_NAC to Enceladus, NEG_X to 80.9/53.2.
End Custom			2011-274T20:00:00	GMB_E154_ENCELADUS_E14+000T06:07:34	000T00:00:01	2011-274T20:00:01	ISS_NAC to Enceladus	NEG X to 80.9/53.2	
SP 154EN_DEADTIME474_PRIME			2011-274T20:00:00	GMB_E154_ENCELADUS_E14+000T06:07:34	000T00:15:00	2011-274T20:15:00	ISS_NAC to Enceladus	NEG X to 80.9/53.2	
SP 154DI_WAYPTTURN474_PRIME			2011-274T20:15:00		000T00:40:00	2011-274T20:55:00	ISS_NAC to Dione	POS X to 223.4/-83.6	Actually turning to 309.301/-81.826 for RBOT. ISS will pick up from this attitude.
NEW WAYPOINT			2011-274T20:55:00		000T15:52:00	2011-275T12:47:00	ISS_NAC to Dione	POS X to 223.4/-83.6	
ISS 154DI_GLOCOLO01_PRIME	C, M, U, V		2011-274T20:55:00		000T14:52:00	2011-275T11:47:00	ISS_NAC to Dione	POS X to 223.4/-83.6	(1) Interrupt tracking every ~3 hrs for ~20 min. (2) Don't kill our data volume!!
SP 154EA_DLTURN275_PRIME			2011-275T11:47:00		000T01:00:00	2011-275T12:47:00	XBAND to Earth	POS X to NSP	
NEW WAYPOINT			2011-275T12:47:00		000T23:45:00	2011-276T12:32:00	XBAND to Earth	POS X to NEP	
ENGR 154SC_KPTYBIAS275_PRIME			2011-275T12:47:00		000T01:30:00	2011-275T14:37:00	NEG_Z to DELTA_H (0.0,0.0,-49.999 deg. offset)	NEG X to Sun	
SP 154EA_G70METNON275_PRIME	C, E, R		2011-275T14:37:00		000T09:00:00	2011-275T23:37:00	XBAND to Earth	Rolling	POS X to NEP or NSP, CAPS
Pointer Reset in preparatio...			2011-275T23:37:00		000T00:00:01	2011-275T23:37:01			
SP 154EA_C70METNON275_PRIME	C, R		2011-275T23:37:00		000T01:00:00	2011-276T00:17:00	XBAND to Earth	Rolling	POS X to NEP or NSP, CAPS
ISS 1540T_ENCEL4276_PRIME	C, V		2011-276T00:17:00		000T05:30:00	2011-276T05:47:00	ISS_NAC to Rocks (0.0,-10.0,0.0 deg. offset)	NEG_Z to Earth	No return to WP (ISS-internal hand-off)
ISS 1540T_TITANL4276_PRIME	V		2011-276T05:47:00		000T06:05:00	2011-276T11:52:00	ISS_NAC to Rocks (0.0,-10.0,0.0 deg. offset)	NEG_Z to Earth	Pick-up at Enceladus-L4 attitude (ISS-internal hand-off)
SP 154EA_DLTURN276_PRIME			2011-276T11:52:00		000T00:40:00	2011-276T12:32:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	MIMI pointing, rolling
NEW WAYPOINT			2011-276T12:32:00		000T11:28:00	2011-277T00:00:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP 154EA_YBIAS276_PRIME			2011-276T12:32:00		000T01:30:00	2011-276T14:02:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP 154EA_G34HEFNON276_PRIME	C, E		2011-276T14:02:00		000T09:00:00	2011-276T23:02:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	3 Hr Rolling	NEG_Y to Saturn (0.0,-9.5), MIMI
Enceladus Flyby E15 Segment			2011-291T14:46:00		001T13:45:00	2011-293T04:31:00			
SP 155EA_WAYPTTURN291_PRIME			2011-291T14:46:00		000T00:40:00	2011-291T15:26:00	XBAND to Earth	POS X to 270.77/72.4	
NEW WAYPOINT			2011-291T15:26:00		000T11:04:00	2011-292T02:30:00	XBAND to Earth	POS X to 270.77/72.4	
ISS 155TI_M60R2CLD291_PRIME	C, V		2011-291T15:26:00	E155 M60R2CLD291+000T00:00:00	000T01:30:00	2011-291T16:56:00	ISS_NAC to Titan	POS X to 142.774/15.511	
ISS 155TI_CLOUD01_PRIME	C, V		2011-291T23:50:00		000T02:00:00	2011-292T01:50:00	ISS_NAC to Titan	POS X to 220.77/-83.7	
SP 155EN_WAYPTTURN292_PRIME			2011-292T01:50:00		000T00:40:00	2011-292T02:30:00	ISS_NAC to Enceladus	NEG X to 61.9/78.3	
NEW WAYPOINT			2011-292T02:30:00		000T10:06:00	2011-292T12:36:00	ISS_NAC to Enceladus	NEG X to 61.9/78.3	
ISS 155EN_PLMHPR001_PIE	C, U, V		2011-292T02:30:00		000T04:10:00	2011-292T06:40:00	ISS_NAC to Enceladus	NEG X to NSP	SOST PIE
SP 155EN_DEADTIME292_PRIME	M		2011-292T06:40:00		000T00:05:00	2011-292T06:45:00	NEG_Y to Enceladus	NEG X to 61.9/78.3	
Begin Custom			2011-292T06:45:00	GMB_E155_ENCELADUS_E15-000T02:37:12	000T00:00:01	2011-292T06:45:01	ISS_NAC to Enceladus	NEG X to 61.9/78.3	
ISS 155EN_ENCELO02_PIE	C, M, U, V		2011-292T06:45:00	GMB_E155_ENCELADUS_E15-000T02:37:12	000T02:03:00	2011-292T08:48:00	ISS_NAC to Enceladus	NEG X to 61.9/78.3	Pick up at ISS_NAC to Enceladus, NEG_X to 61.9/78.3; Hand off at ISS_NAC to Enceladus (0.0,60.0,0.0 deg. offset), POS_Z to NSP.
UVIS 155EN_ICYEXO01_PRIME	C, I, M		2011-292T08:48:00	GMB_E155_ENCELADUS_E15-000T00:34:12	000T00:42:00	2011-292T09:30:00	UVIS_FUV to 84.05/-1.202	NEG_Z to 174.9/-33.0	Pick up at ISS_NAC to Enceladus (0.0,60.0,0.0 deg. offset), POS_Z to NSP; Hand off at UVIS_FUV to 84.05/-1.202, NEG_Z to 174.9/-33.0. Actual occ is from 09:23 to 09:25.
Begin Dual Playback Science...			2011-292T09:18:00	GMB_E155_ENCELADUS_E15-000T00:04:12	000T00:00:01	2011-292T09:18:01			
155EN (t) E15 ENCELADUS In...			2011-292T09:22:12		000T00:00:01	2011-292T09:22:13			
End Dual Playback Science f...			2011-292T09:30:00	GMB_E155_ENCELADUS_E15+000T00:07:48	000T00:00:01	2011-292T09:30:01			
CIRIS 155EN_ENCELADUS001_PRIME	C, I, M, U, V		2011-292T09:30:00	GMB_E155_ENCELADUS_E15+000T00:07:48	000T02:20:00	2011-292T11:50:00	CIRIS_FP1 to Enceladus	NEG_Z to 174.9/-33.0	Pick up at UVIS_FUV to 84.05/-1.202, NEG_Z to 174.9/-33.0; Hand off at ISS_NAC to Enceladus, NEG_X to 61.9/78.3.
End Custom			2011-292T11:50:00	GMB_E155_ENCELADUS_E15+000T02:27:48	000T00:00:01	2011-292T11:50:01	ISS_NAC to Enceladus	NEG X to 61.9/78.3	
SP 155EN_DEADTIME492_PRIME			2011-292T11:50:00	GMB_E155_ENCELADUS_E15+000T02:27:48	000T00:06:00	2011-292T11:56:00	NEG_Y to Enceladus	NEG X to 61.9/78.3	
SP 155EA_DLTURN292_PRIME			2011-292T11:56:00		000T00:20:00	2011-292T12:16:00	POS X to 158.46/		

SP_155EA_C70METN0292_PRIME	C, R	2011-292T14:06:00		000T05:25:00	2011-292T19:31:00	XBAND to Earth	POS_X to NEP	POS_X to NEP or NSP, CAPS
Pointer Reset in preparatio...		2011-292T19:31:00		000T00:00:01	2011-292T19:31:01			
SP_155EA_C70METN0292_PRIME	C, E, M, R	2011-292T19:31:00		000T06:00:00	2011-293T01:31:00	XBAND to Earth	Rolling/SRU	POS_X to NEP or NSP, CAPS
Enceladus Flyby E16 Segment		2011-309T21:17:00		002T06:15:00	2011-312T03:32:00			
SP_156EN_WAYPTTURN309_PRIME		2011-309T21:17:00		000T00:30:00	2011-309T21:47:00	ISS_NAC to Enceladus	POS_X to NEP	pt 1 of 2
SP_156EN_WAYPTTURN409_PRIME		2011-309T21:47:00		000T00:23:00	2011-309T22:10:00	ISS_NAC to Enceladus	NEG_X to 90.0/17.0	pt 2 of 2
NEW WAYPOINT		2011-309T22:10:00		000T21:37:00	2011-310T19:47:00	ISS_NAC to Enceladus	NEG_X to 90.0/17.0	
SP_156EN_DEADTIME309_PRIME		2011-309T22:10:00		000T00:05:00	2011-309T22:15:00	ISS_NAC to Enceladus	NEG_X to 90.0/17.0	
Begin Custom		2011-309T22:15:00	GMB_E156_ENCENLADUS_E16-000T06:43:53	000T00:00:01	2011-309T22:15:01			
ISS_156EN_PLMHPHR001_PIE	C, U, V	2011-309T22:15:00	GMB_E156_ENCENLADUS_E16-000T06:43:53	000T02:00:00	2011-310T00:15:00	ISS_NAC to Enceladus	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to 90.0/17.0; Hand off at ISS_NAC to Enceladus, NEG_X to NSP, SOST_PIE
CIRS_156EN_ENCENLADUS001_PRIME	I, V	2011-310T00:15:00	GMB_E156_ENCENLADUS_E16-000T06:43:53	000T02:42:00	2011-310T02:57:00	CIRS_FP3 to Enceladus (0.057,-2.005,0.143 deg. offset)	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at NEG_Z to Enceladus, NEG_X to 90.0/17.0.
RADAR_156EN_ENCENLADUS001_PIE	M	2011-310T02:57:00	GMB_E156_ENCENLADUS_E16-000T02:01:53	000T01:22:10	2011-310T04:19:10	NEG_Z to Enceladus	POS_Y to North_Pole_Dir	Pick up at NEG_Z to Enceladus, NEG_X to 90.0/17.0; Hand off at NEG_Z to Enceladus, POS_Y to North_Pole_Dir.
RADAR_156EN_ENCENLADUS002_PIE	M	2011-310T04:19:10	GMB_E156_ENCENLADUS_E16-000T00:39:43	000T00:31:19	2011-310T04:50:29	NEG_Z to Enceladus	POS_Y to North_Pole_Dir	Pick up at NEG_Z to Enceladus, POS_Y to North_Pole_Dir; Hand off at NEG_Z to Enceladus, POS_Y to North_Pole_Dir.
ENGR_156SC_RADRCS310_PRIME	M	2011-310T04:50:29	GMB_E156_ENCENLADUS_E16-000T00:08:24	000T00:01:00	2011-310T04:51:29	NEG_Z to Enceladus	POS_Y to North_Pole_Dir	Pick up at NEG_Z to Enceladus, POS_Y to North_Pole_Dir; Hand off at NEG_Z to Enceladus, POS_Y to North_Pole_Dir, deadband=(2,2,20)
Begin Dual Playback Science...		2011-310T04:51:29	GMB_E156_ENCENLADUS_E16-000T00:07:24	000T00:00:01	2011-310T04:51:30			
RADAR_156EN_ENCENLADUS001_PIE	M	2011-310T04:51:29	GMB_E156_ENCENLADUS_E16-000T00:07:24	000T00:44:24	2011-310T05:35:53	NEG_Z to Enceladus	NEG_X to SC_RAM	Pick up at NEG_Z to Enceladus, POS_Y to North_Pole_Dir, Hand off at NEG_Z to Enceladus, NEG_X to North_Pole_Dir.
156EN (I) E16_ENCENLADUS Int...		2011-310T04:58:53		000T00:00:01	2011-310T04:58:54			
End Dual Playback Science f...		2011-310T05:35:53	GMB_E156_ENCENLADUS_E16-000T00:37:00	000T00:00:01	2011-310T05:35:54			
ENGR_156SC_URADRIBAS310_PPS	M	2011-310T05:35:53	GMB_E156_ENCENLADUS_E16-000T00:37:00	000T00:20:59	2011-310T05:36:52	NEG_Z to Enceladus	NEG_X to North_Pole_Dir	Pick up at NEG_Z to Enceladus, NEG_X to North_Pole_Dir; Hand off at NEG_Z to Enceladus, NEG_X to North_Pole_Dir, Deadband=(2, 2, 2)
RADAR_156EN_ENCELOUTB001_PIE	M	2011-310T05:56:58	GMB_E156_ENCENLADUS_E16-000T00:58:05	000T01:24:07	2011-310T07:21:05	NEG_Z to Enceladus	NEG_X to North_Pole_Dir	Pick up at NEG_Z to Enceladus, NEG_X to North_Pole_Dir; Hand off at NEG_Z to Enceladus, NEG_X to 90.0/17.0.
ISS_156EN_ENCELO01_PRIME	C, U, V	2011-310T07:21:09	GMB_E156_ENCENLADUS_E16-000T02:22:16	000T03:29:56	2011-310T10:51:05	ISS_NAC to Enceladus	NEG_X to 90.0/17.0	Pick up at NEG_Z to Enceladus, NEG_X to 90.0/17.0; Hand off at ISS_NAC to Enceladus, NEG_X to 90.0/17.0.
Periapse R = 3.260 Rs, lat ...		2011-310T07:58:12		000T00:00:01	2011-310T07:58:13			
End Custom		2011-310T10:51:05	GMB_E156_ENCENLADUS_E16-000T05:52:12	000T00:00:01	2011-310T10:51:06			
SP_156EN_DEADTIME310_PRIME		2011-310T10:51:06	GMB_E156_ENCENLADUS_E16-000T05:52:13	000T00:01:54	2011-310T10:53:00	ISS_NAC to Enceladus	NEG_X to 90.0/17.0	
UVIS_156D01_ICYSTARE001_PRIME	C, I, V	2011-310T10:53:00		000T05:14:00	2011-310T16:07:00	ISS_NAC to Dione	NEG_X to NSP	Target to center of illuminated crescent
UVIS_156IC_ALPVIR002_PRIME	V	2011-310T16:07:00		000T03:00:00	2011-310T19:07:00	UVIS_FUV to 201.298/-11.161	POS_X to 288.4/13.97	
SP_156EA_DLTRN310_PRIME		2011-310T19:07:00		000T00:30:00	2011-310T19:37:00	XBAND to Earth (0.0,0.0,-40.0 deg. offset)	POS_X to NEP	pt 1 of 2
SP_156EA_DLTRN410_PRIME		2011-310T19:37:00		000T00:10:00	2011-310T19:47:00	XBAND to Earth	POS_X to NEP	pt 2 of 2
NEW WAYPOINT		2011-310T19:47:00		001T08:25:00	2011-312T04:12:00	XBAND to Earth	POS_X to NEP	
SP_156EA_C70METSEQ310_PRIME	C, E	2011-310T19:47:00		000T07:30:00	2011-311T03:17:00	XBAND to Earth	Rolling	POS_X to NEP or NSP, CAPS
Pointer Reset in preparatio...		2011-311T03:17:00		000T00:00:01	2011-311T03:17:01			
SP_156EA_M70METN0311_PRIME	C	2011-311T04:47:00		000T03:00:00	2011-311T07:47:00	XBAND to Earth	Rolling	POS_X to NEP, CAPS
ISS_156OT_LSENC311_PRIME	V	2011-311T07:47:00		000T04:23:00	2011-311T12:10:00	ISS_NAC to Rocks	NEG_Z to Earth	No return to WP (ISS-internal hand-off). No science preference for secondary axis.
ISS_156OT_LSRHEA311_PRIME	V	2011-311T12:10:00		000T04:52:00	2011-311T17:02:00	ISS_NAC to Rocks	NEG_Z to Earth	Pick-up at Enceladus L5 point (ISS-internal hand-off). No science preference for secondary axis.
ENGR_156SC_KPTYBIAS311_PRIME		2011-311T17:02:00		000T01:30:00	2011-311T18:32:00	NEG_Z to DELTA_H (0.0,0.0,45.0 deg. offset)	NEG_X to Sun	
SP_156EA_C34HEFSEQ311_PRIME	C	2011-311T18:32:00		000T09:00:00	2011-312T03:32:00	XBAND to Earth	Rolling	POS_X to NEP or NSP, CAPS
Dione Flyby D3 Segment		2011-344T11:50:00		002T16:15:00	2011-347T04:05:00			
SP_158EA_WAYPTTURN344_PRIME		2011-344T11:50:00		000T00:10:00	2011-344T12:00:00	XBAND to Earth	POS_X to NSP	
NEW WAYPOINT		2011-344T12:00:00		000T07:00:00	2011-344T19:00:00	XBAND to Earth	POS_X to NSP	
UVIS_158IC_ALPVIR001_PRIME	V	2011-344T12:00:00		000T03:00:00	2011-344T15:00:00	UVIS_FUV to Star	POS_X to 200.0/79.0	
SP_158TI_WAYPTTURN344_PRIME		2011-344T18:30:00		000T00:30:00	2011-344T19:00:00	ISS_NAC to Titan	NEG_X to Sun	
NEW WAYPOINT		2011-344T19:00:00		000T06:05:00	2011-345T01:05:00	ISS_NAC to Titan	NEG_X to Sun	
ISS_158TI_MUTUALLEVE001_PRIME	V	2011-344T19:00:00		000T03:00:00	2011-344T22:00:00	ISS_NAC to Titan	NEG_X to Sun	
ISS_158TI_M150R2HZ345_PRIME	C, V	2011-344T22:00:00	E158_M150R2HZ344+000T00:00:00	000T02:00:00	2011-345T00:00:00	ISS_NAC to Titan	NEG_X to Sun	
SP_158EA_DLTRN345_PRIME		2011-345T00:00:00		000T01:05:00	2011-345T01:05:00	XBAND to Earth	POS_X to 193.0/81.0	POS_X to NSP as RA/Dec
NEW WAYPOINT		2011-345T01:05:00		003T04:06:24	2011-348T05:11:24	XBAND to Earth	POS_X to 193.0/81.0	
ENGR_158SC_KPTYBIAS345_PRIME		2011-345T01:05:00		000T01:30:00	2011-345T02:35:00	POS_Z to DELTA_H (0.0,0.0,-29.994 deg. offset)	NEG_X to Sun	
SP_158EA_M34BWGN0345_PRIME	C, R	2011-345T02:35:00		000T09:00:00	2011-345T11:35:00	XBAND to Earth	POS_X to 193.0/81.0	POS_X to NSP, CAPS
UVIS_158SA_ENAURFOO01001_PIE	M, V	2011-345T11:35:00		000T10:10:00	2011-345T21:45:00	UVIS_FUV to Saturn	NEG_X to 95.992/67.159	
EDA_158OT_RINGSHAD001_PIE	R	2011-345T21:45:00		000T03:15:00	2011-346T01:00:00	NEG_Z to Earth (-100.0,0.0,-80.0 deg. offset)	POS_X to NSP	
SP_158EA_DEADTIME346_PRIME	R	2011-346T01:00:00		000T00:09:22	2011-346T01:09:22	XBAND to Earth	POS_X to 193.0/81.0	
Begin Custom		2011-346T01:09:22	GMB_E158_DIONE_D3-000T08:30:00	000T00:00:01	2011-346T01:09:23	XBAND to Earth	POS_X to 193.0/81.0	
SP_158EA_C34BWGRSS346_PRIME	R	2011-346T01:09:22	GMB_E158_DIONE_D3-000T08:30:00	000T01:25:38	2011-346T02:35:00	XBAND to Earth	POS_X to 193.0/81.0	Pick up at XBAND to Earth, POS_X to 193.0/81.0; Hand off at XBAND to Earth, POS_X to 193.0/81.0. POS_X to NSP as RA/Dec
Periapse R = 3.241 Rs, lat ...		2011-346T02:00:19		000T00:00:01	2011-346T02:00:20			
SP_158EA_M34BWGRSS346_PRIME	R	2011-346T02:35:00	GMB_E158_DIONE_D3-000T07:04:22	000T01:34:22	2011-346T04:09:22	XBAND to Earth	POS_X to 193.0/81.0	Pick up at XBAND to Earth, POS_X to 193.0/81.0; Hand off at XBAND to Earth, POS_X to 193.0/81.0.
ISS_158EN_ENCELO01_PRIME	C, U, V	2011-346T04:09:22	GMB_E158_DIONE_D3-000T05:30:00	000T02:30:00	2011-346T06:39:22	ISS_NAC to Enceladus (0.0,-45.835,0.0 deg. offset)	NEG_X to Sun	Pick up at XBAND to Earth, POS_X to 193.0/81.0; Hand off at CIRS_FP1 to Dione, NEG_X to Sun. Collaborative Rider(s): CIRS, UVIS
CIRS_158DI_DIONE001_PRIME	I, M, U, V	2011-346T06:39:22	GMB_E158_DIONE_D3-000T03:00:00	000T01:30:00	2011-346T08:09:22	CIRS_FP3 to Dione	NEG_X to Sun	Pick up at CIRS_FP1 to Dione, NEG_X to Sun; Hand off at XBAND to Earth, NEG_X to 337.38/-2.71. Collaborative Rider(s): INMS
RSS_158DI_GRAVITY002_PIE	M	2011-346T08:09:22	GMB_E158_DIONE_D3-000T01:30:00	000T03:00:00	2011-346T11:09:22	XBAND to Earth	NEG_X to 337.38/-2.71	Pick up at XBAND to Earth, NEG_X to 337.38/-2.71; Hand off at XBAND to Earth, NEG_X to 337.38/-2.71. Collaborative Rider(s): INMS
158DI (t) D3_DIONE Outbound...		2011-346T09:39:22		000T00:00:01	2011-346T09:39:23			
ISS_158DI_REGMAP001_PRIME	C, M, U, V	2011-346T11:09:22	GMB_E158_DIONE_D3+000T01:30:00	000T03:30:00	2011-346T14:39:22	ISS_NAC to Dione	NEG_Z to Earth	Pick up at XBAND to Earth, NEG_X to 337.38/-2.71; Hand off at XBAND to Earth, POS_X to 193.0/81.0. Collaborative Rider(s): INMS, UVIS
SP_158EA_G34BWGRSS346_PRIME	R	2011-346T14:39:22	GMB_E158_DIONE_D3+000T05:00:00	000T03:00:38	2011-346T17:40:00	XBAND to Earth	POS_X to 193.0/81.0	Pick up at XBAND to Earth, POS_X to 193.0/81.0; Hand off at XBAND to Earth, POS_X to 193.0/81.0.
End Custom		2011-346T17:39:22	GMB_E158_DIONE_D3+000T08:00:00	000T00:00:01	2011-346T17:39:23	XBAND to Earth	POS_X to 193.0/81.0	
SP_158EA_DEADTIME446_PRIME	R	2011-346T17:39:59	GMB_E158_DIONE_D3+000T08:00:37	000T00:00:01	2011-346T17:40:00	XBAND to Earth	POS_X to 193.0/81.0	
SP_158EA_C70METN0346_PRIME	C, E, R	2011-346T17:40:00		000T08:20:00	2011-347T02:00:00	XBAND to Earth	POS_X to 193.0/81.0	CAPS, POS_X to NSP as RA/Dec
ENGR_158SC_KPTYBIAS347_PRIME		2011-347T02:35:00		000T01:30:00	2011-347T04:05:00	NEG_Z to DELTA_H (0.0,0.0,74.998 deg. offset)	NEG_X to Sun	
SOST_162 Segment		2012-068T20:01:00		002T10:00:00	2012-071T06:01:00			
SP_162TI_WAYPTTURN068_PRIME		2012-068T20:01:00		000T00:40:00	2012-068T20:41:00	ISS_NAC to Titan	POS_X to 216.5/-83.7	
NEW WAYPOINT		2012-068T20:41:00		001T01:00:00	2012-069T21:41:00	ISS_NAC to Titan	POS_X to 216.5/-83.7	
ISS_162OT_JARROT033_PRIME	V	2012-068T20:41:00		000T09:35:00	2012-069T06:16:00	UVIS_FUV to Rocks	POS_X to 216.5/-83.7	No return to WP (team-internal hand-off)
ISS_162OT_MUNROT036_PRIME	V	2012-069T06:16:00		000T09:35:00	2012-069T15:51:00	UVIS_FUV to Rocks	POS_X to 216.5/-83.7	Pick-up at Jarnsaxa (team-internal hand-off)
ISS_162TI_M30R1CLD068_PRIME	C	2012-069T15:51:00	E162_M30R1CLD068+000T00:00:00	000T02:00:00	2012-069T17:51:00	ISS_NAC to Titan	POS_X to 216.5/-83.7	
SP_162EA_DLTRN069_PRIME		2012-069T17:51:00		000T00:25:00	2012-069T18:16:00	XBAND to Earth	NEG_X to NEP	
SP_162EA_C70METN069_PRIME	N	2012-069T18:16:00		000T03:00:00	2012-069T21:16:00	XBAND to Earth	NEG_X to NEP	NEG_X to NEP or NSP (changed to RA/DEC equiv), CAPS
SP_162DR_WAYPTTURN069_PRIME	M, N	2012-069T21:16:00		000T00:25:00	2012-069T21:41:00	XBAND to Dust_RAM (0.0,0.0,-5.0 deg. offset)	POS_Y to NEP	
NEW WAYPOINT		2012-069T21:41:00		000T08:54:00	2012-070T06:35:00	XBAND to Dust_RAM (0.0,0.0,-5.0 deg. offset)	POS_Y to NEP	
MP_162DR_DUSTHAZRD001_PRIME	C, M, N	2012-069T22:14:00		000T02:11:00	2012-070T00:25:00	XBAND to Dust_RAM (0.0,0.0,-5.0 deg. offset)	POS_Y to NEP	
SP_162EA_DLTRN070_PRIME	C, N	2012-070T00:25:00		000T00:21:00	2012-070T00:46:00	XBAND to Earth	NEG_X to NSP	
SP_162EA_M34BWGOTP069_PRIME	C, E, N	2012-070T00:46:00		000T05:15:00	2012-070T06:01:00	XBAND to Earth	NEG_X to NSP	
Periapse R = 3.245 Rs, lat ...		2012-070T02:13:20		000T00:00:01	2012-070T02:13:21			
SP_162EN_WAYPTTURN070_PRIME		2012-070T06:01:00		000T00:34:00	2012-070T06:35:00	ISS_NAC to Enceladus	NEG_Z to 123.6/-6.6	
NEW WAYPOINT		2012-070T06:35:00		000T03:50:00	2012-070T10:25:00	ISS_NAC to Enceladus	NEG_Z to 123.6/-	

ISS 162EN ENCEL001 PRIME	C, U, V	2012-070706:35:00		000T01:40:00	2012-070708:15:00	ISS_NAC to Enceladus	NEG_Z to 123.6/-6.6	Collaborative Rider(s): CIR5, UVIS
ISS 162TI_M30R2CLD070 PRIME	C, V	2012-070708:15:00	E162_M30R2CLD070+000T00:00:00	000T01:30:00	2012-070709:45:00	ISS_NAC to Titan (0.006,-5.0,0.0 deg. offset)	NEG_Z to 123.6/-6.6	No Preference to secondary pointing
SP 162RH_WAYPTTURN070 PRIME		2012-070709:45:00		000T00:40:00	2012-070710:25:00	ISS_NAC to Rhea	POS_X to 230.5/-82.4	
<b>NEW WAYPOINT</b>		<b>2012-070710:25:00</b>		<b>000T20:35:00</b>	<b>2012-071107:00:00</b>	<b>ISS_NAC to Rhea</b>	<b>POS_X to 230.5/-82.4</b>	
CIR5 162RH_RHEA001 PRIME	J, U, V	2012-070710:25:00		000T04:35:00	2012-070715:00:00	CIR5_FP1 to Rhea	POS_X to 230.5/-82.4	
ISS 162RH_REGMAP001 PIE	C, M, U, V	2012-070715:00:00		000T01:30:00	2012-070716:30:00	ISS_NAC to Rhea	POS_X to 230.5/-82.4	Collaborative Rider(s): UVIS. 2 min. dwell
ISS 162RH_RHEARINGS001 PRIME	C, M, U, V	2012-070716:30:00		000T01:50:00	2012-070718:20:00	ISS_NAC to Rhea	POS_X to 230.5/-82.4	
SP 162EA_DLTURIN470 PRIME		2012-070718:20:00		000T00:31:00	2012-070718:51:00	XBAND to Earth	NEG_X to NSP	Use 30 seconds turn margin, not 2 minutes (late secondary change after timeline integrated).
SP 162EA_C70METNON070 PRIME		2012-070718:51:00		000T02:10:00	2012-070721:01:00	XBAND to Earth	NEG_X to NSP	One 360 degree roll added to cover JTM 312 window for sun sensor checkout per AACS directions
SP 162EA_M34BWGOTB070 PRIME	C, E, N	2012-070721:01:00		000T09:00:00	2012-071106:01:00	XBAND to Earth	NEG_X to NSP	same as OTP pass, CAPS
Enceladus Flyby E17 Segment		2012-08618:47:00		002T23:45:00	2012-08918:32:00			
SP 163TI_WAYPTTURN086 PRIME		2012-08618:47:00		000T00:40:00	2012-08619:27:00	ISS_NAC to Titan	NEG_X to 38.7/83.8	
<b>NEW WAYPOINT</b>		<b>2012-08619:27:00</b>		<b>000T06:10:00</b>	<b>2012-087701:37:00</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to 38.7/83.8</b>	
ISS 163TI_M60R2CLD086 PRIME	C, V	2012-08619:27:00	E163_M60R2CLD086+000T00:00:00	000T01:30:00	2012-08620:57:00	ISS_NAC to Titan	NEG_X to 38.7/83.8	
ISS 1630T_LSTITAN086 PRIME	V	2012-08620:57:00		000T04:00:00	2012-087700:57:00	ISS_NAC to Rocks	NEG_X to 38.7/83.8	
SP 163EA_DLTURN087 PRIME		2012-087700:57:00		000T00:40:00	2012-087701:37:00	XBAND to Earth	NEG_X to NEP	
<b>NEW WAYPOINT</b>		<b>2012-087701:37:00</b>		<b>000T08:08:00</b>	<b>2012-087709:45:00</b>	<b>XBAND to Earth</b>	<b>NEG_X to NEP</b>	
ENGR 163SC_KPTVBIAS087 PRIME		2012-087701:37:00		000T01:30:00	2012-087703:07:00	POS_Z to DELTA_H (0.0,0.0,29.998 deg. offset)	NEG_X to Sun	
SP 163EA_G34HEFN087 PRIME		2012-087703:07:00		000T06:00:00	2012-087709:07:00	XBAND to Earth	NEG_X to NEP	
SP 163EN_WAYPTTURN087 PRIME		2012-087709:07:00		000T00:23:00	2012-087709:30:00	NEG_Y to 40.0/-20.0	NEG_X to 73.5/75.5	pt 1 of 2
SP 163EN_WAYPTTURN487 PRIME		2012-087709:30:00		000T00:15:00	2012-087709:45:00	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	pt 2 of 2
<b>NEW WAYPOINT</b>		<b>2012-087709:45:00</b>		<b>000T15:45:00</b>	<b>2012-088701:30:00</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_X to 73.5/75.5</b>	
ISS 163EN_PLMHPPH001 PIE	C, U, V	2012-087709:45:00		000T05:10:00	2012-087714:55:00	ISS_NAC to Enceladus	NEG_X to NSP	SOST PIE
SP 163EN_DEADTIME087 PRIME		2012-087714:55:00		000T00:10:00	2012-087715:05:00	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	
<b>Begin Custom</b>		<b>2012-087715:05:00</b>	<b>GMB_E163_ENCELADUS_E17-000T03:25:09</b>	<b>000T00:00:01</b>	<b>2012-087715:05:01</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_X to 73.5/75.5</b>	
CIR5 163EN_ENCEL001 PRIME	M, V	2012-087715:05:00	GMB_E163_ENCELADUS_E17-000T03:25:09	000T02:25:00	2012-087717:30:00	CIR5_FP3 to Enceladus	NEG_X to 73.5/75.5	Pick up at ISS_NAC to Enceladus, NEG_X to 73.5/75.5; Hand off at ISS_NAC to Enceladus, NEG_X to 73.5/75.5.
NIMS 163EN_ENCEL17001 PIE	C, E, M	2012-087717:30:00	GMB_E163_ENCELADUS_E17-000T01:00:09	000T02:00:00	2012-087719:30:00	NEG_X to SC RAM	NEG_Y to North Pole Dir	Pick up at ISS_NAC to Enceladus, NEG_X to 73.5/75.5; Hand off at ISS_NAC to Enceladus, NEG_X to 73.5/75.5.
Begin Dual Playback Science...		2012-087718:15:09	GMB_E163_ENCELADUS_E17-000T00:15:00	000T00:00:01	2012-087718:15:10			
163EN (t) E17 ENCELADUS In...		2012-087718:30:09		000T00:00:01	2012-087718:30:10			
End Dual Playback Science f...		2012-087718:37:57	GMB_E163_ENCELADUS_E17+000T00:07:48	000T00:00:01	2012-087718:37:58			
ISS 163EN_ENCELADUS001 PIE	C, M, U, V	2012-087719:30:00	GMB_E163_ENCELADUS_E17+000T00:59:51	000T01:30:00	2012-087721:00:00	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	Pick up at ISS_NAC to Enceladus, NEG_X to 73.5/75.5; Hand off at ISS_NAC to Enceladus, NEG_X to 73.5/75.5. Collaborative Rider(s): UVIS
SP 163EN_DEADTIME487 PRIME		2012-087721:00:00	GMB_E163_ENCELADUS_E17+000T02:29:51	000T00:10:00	2012-087721:10:00	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	Pick up at ISS_NAC to Enceladus, NEG_X to 73.5/75.5; Hand off at ISS_NAC to Enceladus, NEG_X to 73.5/75.5.
ISS 163IA_JANUS001 PIE	C, V	2012-087721:10:00		000T03:40:00	2012-088700:50:00	ISS_NAC to Janus	NEG_X to 33.4/86.3	Pick up at ISS_NAC to Enceladus, NEG_X to 73.5/75.5; Hand off at ISS_NAC to Enceladus, NEG_X to 73.5/75.5.
Periapse R = 3.253 Rs, lat ...		2012-087721:31:39		000T00:00:01	2012-087721:31:40			
<b>End Custom</b>		<b>2012-088700:50:00</b>		<b>000T00:00:01</b>	<b>2012-088700:50:01</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_X to 73.5/75.5</b>	
SP 163DI_WAYPTTURN088 PRIME		2012-088700:50:00		000T00:40:00	2012-088701:30:00	NEG_Y to Dione	POS_X to 238.8/-77.4	
<b>NEW WAYPOINT</b>		<b>2012-088701:30:00</b>		<b>000T07:32:00</b>	<b>2012-088709:02:00</b>	<b>NEG_Y to Dione</b>	<b>POS_X to 238.8/-77.4</b>	
RADAR_163DI_SCATTRAD001 PRIME		2012-088701:30:00		000T02:50:00	2012-088704:20:00	NEG_Z to Dione	NEG_X to NSP	use -X to NSP and +Y to NSP for two polarizations. RBOT Handoff NEG_Y to 287.877/3.696, POS_X to 238.8/-77.4
ISS 163DI_REGMAP001 PIE	C, U, V	2012-088704:40:00		000T03:34:00	2012-088708:14:00	ISS_NAC to Dione	POS_X to 238.8/-77.4	RBOT pickup at NEG_Y to 287.877/3.696; POS_X to 238.8/-77.4 Collaborative Rider(s): UVIS
SP 163EA_DLTURN088 PRIME		2012-088708:14:00		000T00:26:00	2012-088708:40:00	XBAND to Earth	POS_X to 238.8/-77.4	pt 1 of 2
SP 163EA_DLTURN488 PRIME		2012-088708:40:00		000T00:22:00	2012-088709:02:00	XBAND to Earth	POS_X to NEP	pt 2 of 2
<b>NEW WAYPOINT</b>		<b>2012-088709:02:00</b>		<b>000T12:10:00</b>	<b>2012-088721:12:00</b>	<b>XBAND to Earth</b>	<b>POS_X to NEP</b>	
ENGR 163SC_KPTVBIAS088 PRIME		2012-088709:02:00		000T01:30:00	2012-088710:32:00	POS_Z to DELTA_H (0.0,0.0,-4.999 deg. offset)	NEG_X to Sun	
SP 163EA_C70METSEQ088 PRIME	C, E, M	2012-088710:32:00		000T09:00:00	2012-088719:32:00	XBAND to Earth	Rolling	POS_X to NEP or NSP, CAPS
Pointer Reset in preparatio...		2012-088719:32:00		000T00:00:01	2012-088719:32:01			
SP 163EA_M70METNON088 PRIME	C	2012-088719:32:00		000T01:00:00	2012-088720:32:00	XBAND to Earth	Rolling	POS_X to NEP or NSP, CAPS
SP 163RH_WAYPTTURN088 PRIME		2012-088720:32:00		000T00:40:00	2012-088721:12:00	NEG_Y to Rhea	POS_Z to 221.8/-83.5	RBOT Handoff at NEG_Y to Rhea (0.0, 17.0, 0.0 deg. offset); POS_Z to 221.8/-83.5
<b>NEW WAYPOINT</b>		<b>2012-088721:12:00</b>		<b>000T10:50:00</b>	<b>2012-089708:02:00</b>	<b>NEG_Y to Rhea</b>	<b>POS_Z to 221.8/-83.5</b>	
ISS 163TI_M60R2CLD088 PRIME	C, V	2012-088721:12:00	E163_M60R2CLD088+000T00:00:00	000T01:30:00	2012-088722:42:00	ISS_NAC to Titan (0.006,-10.0,0.0 deg. offset)	POS_Z to 221.8/-83.5	RBOT pickup at NEG_Y to Rhea (0.0, 17.0, 0.0 deg. offset); POS_Z to 221.8/-83.5
ISS 1630T_LSRHEA088 PRIME	J, U, V	2012-088722:42:00		000T03:33:00	2012-089702:15:00	ISS_NAC to Rocks	POS_Z to 221.8/-83.5	
CIR5 163RH_RHEA001 PRIME	J, U, V	2012-089702:15:00		000T00:45:00	2012-089703:00:00	NEG_Y to Rhea	POS_Z to 221.8/-83.5	Collaborative Rider(s): UVIS
ISS 163RH_SATCAL001 PRIME	C, U, V	2012-089703:00:00		000T01:00:00	2012-089704:00:00	ISS_NAC to Rhea	NEG_Z to North Pole Dir	Collaborative Rider(s): UVIS
RADAR_163SA_ENGTST107 PRIME		2012-089704:00:00		000T03:22:00	2012-089707:22:00	NEG_Z to Saturn (0.0,0.0,-28.0 deg. offset)	NEG_Y to 221.8/-83.5	
SP 163EA_DLTURN089 PRIME		2012-089707:22:00		000T00:40:00	2012-089708:02:00	XBAND to Earth	POS_X to NEP	
<b>NEW WAYPOINT</b>		<b>2012-089708:02:00</b>		<b>000T11:10:00</b>	<b>2012-089719:12:00</b>	<b>XBAND to Earth</b>	<b>POS_X to NEP</b>	
SP 163EA_YGAP089 PRIME		2012-089708:02:00		000T01:30:00	2012-089709:32:00	XBAND to Earth	POS_X to NEP	
SP 163EA_C70METSEQ089 PRIME	C	2012-089709:32:00		000T09:00:00	2012-089718:32:00	XBAND to Earth	Rolling	POS_X to NEP or NSP, CAPS
Enceladus Flyby E18 Segment		2012-10417:33:00		002T23:45:00	2012-10717:18:00			
SP 164EN_WAYPTTURN104 PRIME		2012-10417:33:00		000T00:40:00	2012-10418:13:00	ISS_NAC to Enceladus	NEG_X to 92.9/36.6	
<b>NEW WAYPOINT</b>		<b>2012-10418:13:00</b>		<b>001T19:35:00</b>	<b>2012-106107:48:00</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_X to 92.9/36.6</b>	
ISS 164TI_M90R2CLD104 PRIME	C, V	2012-10418:13:00	E164_M90R2CLD104+000T00:00:00	000T01:30:00	2012-10419:43:00	ISS_NAC to Titan	NEG_X to 92.9/36.6	
ISS 1640T_LSRHEA104 PRIME		2012-10419:43:00		000T04:00:00	2012-10423:43:00	ISS_NAC to Rocks	NEG_X to 27.4/81.486	handoff secondary at NEG_X to 71.624, 31.160
SP 164EN_DEADTIME104 PRIME		2012-10423:43:00		000T00:05:00	2012-10423:48:00	ISS_NAC to Enceladus	NEG_X to 92.9/36.6	
VIMS 164EN_ENCELPLW001 PRIME	C	2012-10423:48:00	GMB_E164_ENCELADUS_E18-000T14:13:38	000T05:27:00	2012-105705:25:00	ISS_NAC to Enceladus	NEG_X to 71.624/31.160	pick up secondary at NEG_X to 71.624, 31.160 and hand off secondary at NEG_X to 87.715, 38.775
ISS 164EN_PLMHPPM001 PIE	C, U, V	2012-105705:15:00	GMB_E164_ENCELADUS_E18-000T08:46:38	000T05:20:00	2012-105710:35:00	ISS_NAC to Enceladus	NEG_X to 87.715/38.775	pick up secondary at NEG_X to 87.715, 38.775
CIR5 164EN_ENCEL001 PIE	M, U, V	2012-105710:35:00	GMB_E164_ENCELADUS_E18-000T03:26:38	000T02:25:00	2012-105713:00:00	CIR5_FP3 to Enceladus	NEG_X to 92.9/36.6	
NIMS 164EN_ENCEL18001 PIE	C, E, I, M, U, V	2012-105713:00:00	GMB_E164_ENCELADUS_E18-000T01:01:38	000T02:00:00	2012-105715:00:00	NEG_X to SC RAM	NEG_Y to 322.0/81.0	
Begin Dual Playback Science...		2012-105713:41:38	GMB_E164_ENCELADUS_E18-000T00:20:00	000T00:00:01	2012-105713:41:39			
164EN (t) E18 ENCELADUS In...		2012-105714:01:38		000T00:00:01	2012-105714:01:39			
End Dual Playback Science f...		2012-105714:21:38	GMB_E164_ENCELADUS_E18+000T00:20:00	000T00:00:01	2012-105714:21:39			
CIR5 164EN_ENCEL002 PRIME	M, U, V	2012-105715:00:00	GMB_E164_ENCELADUS_E18+000T00:58:22	000T01:55:00	2012-105716:55:00	CIR5_FP3 to Enceladus	NEG_X to 92.9/36.6	
SP 164EN_DEADTIME105 PRIME		2012-105716:55:00		000T00:05:00	2012-105717:00:00	ISS_NAC to Enceladus	NEG_X to 92.9/36.6	
<b>Begin Custom</b>		<b>2012-105717:00:00</b>		<b>000T00:00:01</b>	<b>2012-105717:00:01</b>			
VIMS 164SA_ALPCMIOCC001 PIE	C	2012-105717:00:00		000T02:40:00	2012-105719:40:00	VIMS_IR to 114.825/5.225	PIC	Pick up at ISS_NAC to Enceladus, NEG_X to 92.9/36.6; Hand off at ISS_NAC to Tethys, POS_X to 264.0/68.0. Collaborative Rider(s): CIR5.
Periapse R = 3.253 Rs, lat ...		2012-105717:03:11		000T00:00:01	2012-105717:03:12			
CIR5 164TE_TETHYS001 PRIME	U, V	2012-105719:40:00		000T00:50:00	2012-105720:30:00	CIR5_FP1 to Tethys	POS_X to 264.0/68.0	Pick up at ISS_NAC to Tethys, POS_X to 264.0/68.0; Hand off at ISS_NAC to Tethys, POS_X to 264.0/68.0.
ISS 164TE_TETHYS001 PIE	C, U, V	2012-105720:30:00		000T04:00:00	2012-106700:30:00	ISS_NAC to Tethys	POS_X to 264.0/68.0	Pick up at ISS_NAC to Tethys, POS_X to 264.0/68.0; Hand off at ISS_NAC to Tethys, POS_X to 264.0/68.0. Collaborative Rider(s): CIR5, UVIS
CIR5 164TE_TETHYS002 PRIME	U, V	2012-106700:30:00		000T02:00:00	2012-106702:30:00	CIR5_FP1 to Tethys	POS_X to 264.0/68.0	Pick up at ISS_NAC to Tethys, POS_X to 264.0/68.0; Hand off at ISS_NAC to Tethys, POS_X to 264.0/68.0.
VIMS 164TE_TETHYS001 PRIME	C, I, M, U	2012-106702:30:00		000T04:30:00	2012-106707:00:00	ISS_NAC to Tethys	POS_X to 264.0/68.0	Pick up at ISS_NAC to Tethys, POS_X to 264.0/68.0; Hand off at ISS_NAC to Tethys, POS_X to 264.0/68.0. Collaborative Rider(s): CIR5
SP								

SP 164EA M70METN016 PRIME	C		2012-106T18:18:00		000T01:40:00	2012-106T19:58:00	XBAND to Earth	Rolling	POS X to NEP or NSP, CAPS
SP 164RH WAYPTTURN106 PRIME			2012-106T19:58:00		000T00:40:00	2012-106T20:38:00	ISS_NAC to Rhea	NEG X to NSP	
<b>NEW WAYPOINT</b>			<b>2012-106T20:38:00</b>		<b>000T10:10:00</b>	<b>2012-107T06:48:00</b>	<b>ISS_NAC to Rhea</b>	<b>NEG X to NSP</b>	
ISS 164TI M90R2CLD106 PRIME	C, V		2012-106T20:38:00	E164 M90R2CLD106-000T00:00:00	000T01:30:00	2012-106T22:08:00	ISS_NAC to Titan	NEG X to 155.652/82.248	No Preference to secondary pointing
CIRS 164RH RHEA001 PRIME	U, V		2012-106T22:08:00		000T01:30:00	2012-106T23:38:00	CIRS FP3 to Rhea	NEG X to NSP	Collaborative Rider(s): UVIS
ISS 164OT RHEA14106 PRIME	U, V		2012-106T23:38:00		000T06:30:00	2012-107T06:08:00	ISS_NAC to Rocks	NEG X to 337.849/81.474	
SP 164EA DLTURN107 PRIME			2012-107T06:08:00		000T00:34:30	2012-107T06:42:30	XBAND to Earth (0.0,0.0,20.0 deg. offset)	POS X to NEP	pt 1 of 2
SP 164EA DLTURN407 PRIME			2012-107T06:42:30		000T00:05:30	2012-107T06:48:00	XBAND to Earth	POS X to NEP	pt 2 of 2
<b>NEW WAYPOINT</b>			<b>2012-107T06:48:00</b>		<b>000T11:12:00</b>	<b>2012-107T18:00:00</b>	<b>XBAND to Earth</b>	<b>POS X to NEP</b>	
SP 164EA YGAP107 PRIME			2012-107T06:48:00		000T01:30:00	2012-107T08:18:00	XBAND to Earth	POS X to NEP	
SP 164EA C34BWGNON107 PRIME	C, R		2012-107T08:18:00		000T06:35:00	2012-107T14:53:00	XBAND to Earth	Rolling	POS X to NEP or NSP, CAPS
Enceladus Flyby E19 Segment			2012-122T10:02:00		002T23:45:00	2012-125T09:47:00			
ISS 165OT YMIROTA065 PRIME			2012-122T10:02:00		000T09:45:00	2012-122T19:47:00	UVIS_FUV to Rocks	NEG Z to Earth	
VIMS 165SU SOLARPORT001 PRIME			2012-122T19:47:00		000T03:00:00	2012-122T22:47:00	VIMS_IR_SOL to Sun	NEG X to NSP	
SP 165EA DEADTIME122 PRIME			2012-122T22:47:00		000T00:14:29	2012-122T23:01:29	XBAND to Earth	NEG X to NSP	
ISS 165EN PLMHPMR001 PIE	C, R, U, V		2012-122T23:01:29	GMB E165 ENCELADUS E19-000T10:30:00	000T02:30:00	2012-123T01:31:29	ISS_NAC to Enceladus	NEG X to NSP	SOST PIE
SP 165EA G34BWGRSS123 PRIME	R		2012-123T01:31:29	GMB E165 ENCELADUS E19-000T08:00:00	000T03:00:00	2012-123T04:31:29	XBAND to Earth	NEG X to NSP	RSS gravity wing PIE; 2ry is NEG X to NSP
<b>Begin Custom</b>			<b>2012-123T04:31:29</b>	<b>GMB E165 ENCELADUS E19-000T05:00:00</b>	<b>000T00:00:01</b>	<b>2012-123T04:31:30</b>	<b>XBAND to Earth</b>	<b>NEG X to NSP</b>	
ISS 165EN PLMHPMR002 PRIME	C, U, V		2012-123T04:31:29	GMB E165 ENCELADUS E19-000T05:00:00	000T01:33:31	2012-123T06:05:00	ISS_NAC to Enceladus	Pick up at XBAND to Earth, NEG X to NSP; Hand off at NEG Y to Enceladus, NEG X to NSP. SOST PIE	
CIRS 165EN ENCELADUS001 PRIME	M		2012-123T06:05:00	GMB E165 ENCELADUS E19-000T03:26:29	000T01:56:29	2012-123T08:21:29	CIRS FP3 to Enceladus	NEG X to NSP	Pick up at NEG Y to Enceladus, NEG X to NSP; Hand off at XBAND to Earth, NEG Y to 113.63/-2.61.
SP 165EA C34BWGRSS123 PRIME	M, R		2012-123T08:01:29	GMB E165 ENCELADUS E19-000T01:30:00	000T03:00:00	2012-123T11:01:29	XBAND to Earth	NEG Y to 113.63/-2.61	Pick up at XBAND to Earth, NEG Y to 113.63/-2.61; Hand off at XBAND to Earth, NEG Y to 113.63/-2.61. 2ry NEG_Y to corrot (as RA/Dec) for MAPS; No CDA articulation
165EN (t) E19 ENCELADUS In...			2012-123T09:31:29		000T00:00:01	2012-123T09:31:30			
CIRS 165EN ENCELADUS002 PRIME	I, U		2012-123T11:01:29	GMB E165 ENCELADUS E19+000T01:30:00	000T03:00:00	2012-123T14:01:29	ISS_NAC to Enceladus	NEG X to NSP	Pick up at XBAND to Earth, NEG Y to 113.63/-2.61; Hand off at XBAND to Earth, NEG X to NSP.
Periapse R = 3.245 Rs, lat ...			2012-123T12:33:44		000T00:00:01	2012-123T12:33:45			
<b>End Custom</b>			<b>2012-123T14:01:29</b>	<b>GMB E165 ENCELADUS E19+000T04:30:00</b>	<b>000T00:00:01</b>	<b>2012-123T14:01:30</b>	<b>XBAND to Earth</b>	<b>NEG X to NSP</b>	
SP 165EA C34BWGRSS423 PRIME	R		2012-123T14:01:29	GMB E165 ENCELADUS E19+000T04:30:00	000T03:00:00	2012-123T17:01:29	XBAND to Earth	NEG X to NSP	RSS gravity wing PIE; 2ry is NEG X to NSP
SP 165EA DEADTIME123 PRIME			2012-123T17:01:29	GMB E165 ENCELADUS E19+000T07:30:00	000T00:13:31	2012-123T17:15:00	XBAND to Earth	NEG X to NSP	
SP 165DI WAYPTTURN123 PRIME			2012-123T17:15:00		000T00:34:00	2012-123T17:49:00	ISS_NAC to Dione (0.0,20.0,0.0 deg. offset)	NEG X to NSP	
<b>NEW WAYPOINT</b>			<b>2012-123T17:49:00</b>		<b>000T07:13:00</b>	<b>2012-124T01:02:00</b>	<b>ISS_NAC to Dione (0.0,20.0,0.0 deg. offset)</b>	<b>NEG X to NSP</b>	
CIRS 165DI DIONE001 PIE	I, U, V		2012-123T17:49:00		000T02:13:00	2012-123T20:02:00	CIRS FP1 to Dione (0.0,20.0,0.0 deg. offset)	NEG X to NSP	Collaborative Rider(s): ISS
ISS 165DI REGMAP001 PIE	C, U, V		2012-123T20:02:00		000T04:09:00	2012-124T00:11:00	ISS_NAC to Dione (0.0,20.0,0.0 deg. offset)	NEG X to NSP	Collaborative Rider(s): UVIS. 2 min. dwells
SP 165EA DLTURN124 PRIME	R		2012-124T00:11:00		000T00:42:00	2012-124T00:53:00	XBAND to Earth (0.0,0.0,20.0 deg. offset)	POS X to NEP	part 1 of 2
SP 165EA DLTURN424 PRIME	R		2012-124T00:53:00		000T00:09:00	2012-124T01:02:00	XBAND to Earth	POS X to NEP	part 2 of 2 (2ry for CAPS as per DLWG)
<b>NEW WAYPOINT</b>			<b>2012-124T01:02:00</b>		<b>001T09:25:00</b>	<b>2012-125T10:27:00</b>	<b>XBAND to Earth</b>	<b>POS X to NEP</b>	
SP 165EA G70METN0124 PRIME	C, E, M, R		2012-124T01:02:00		000T08:45:00	2012-124T09:47:00	XBAND to Earth	Rolling	POS X to NEP or NSP, CAPS
ENGR 165SC RWABIAS124 PRIME	C		2012-124T09:47:00		000T01:30:00	2012-124T11:17:00	NEG Z to Earth	POS X to NEP	
UVIS 165IC ALPVIR001 PRIME			2012-124T11:17:00		000T03:00:00	2012-124T14:17:00	UVIS_FUV to 201.298/-11.162	POS X to 239.845/75.841	
ISS 165OT YMIROTB065 PRIME			2012-124T14:17:00		000T09:00:00	2012-124T23:17:00	UVIS_FUV to Rocks	NEG Z to Earth	RA/Dec approx. 148/+21.8 deg; turns approx. 25 min
SP 165EA YGAP424 PRIME			2012-124T23:17:00		000T01:30:00	2012-125T00:47:00	XBAND to Earth	POS X to NEP	
SP 165EA G34HEFNON125 PRIME	C		2012-125T03:17:00		000T06:30:00	2012-125T09:47:00	XBAND to Earth	Rolling/SRU	POS X to NEP or NSP, CAPS
SOST 166 Segment			2012-141T01:16:00		001T07:15:00	2012-142T08:31:00			
SP 166EA WAYPTTURN141 PRIME			2012-141T01:16:00		000T00:01:00	2012-141T01:17:00	XBAND to Earth	NEG X to NSP	
<b>NEW WAYPOINT</b>			<b>2012-141T01:17:00</b>		<b>001T07:54:00</b>	<b>2012-142T09:11:00</b>	<b>XBAND to Earth</b>	<b>NEG X to NSP</b>	
<b>Begin Custom</b>			<b>2012-141T01:17:00</b>		<b>000T00:00:01</b>	<b>2012-141T01:17:01</b>	<b>XBAND to Earth</b>	<b>NEG X to NSP</b>	
CIRS 166TE TETHYS001 PIE	I, U, V		2012-141T01:17:00		000T05:17:00	2012-141T06:34:00	NEG_Y to Tethys	POS_Z to 213.5/-81.5	Pick up at XBAND to Earth, NEG_X to NSP; Hand off at ISS_NAC to Tethys (0.0,-34.377,0.0 deg. offset), NEG_X to Sun. Collaborative Rider(s): ISS
Periapse R = 3.222 Rs, lat ...			2012-141T06:26:25		000T00:00:01	2012-141T06:26:26			
ISS 166ME METHONE001 PIE	C, U, V		2012-141T06:34:00		000T01:52:00	2012-141T08:26:00	ISS_NAC to Methone	NEG X to NSP	Pick up at ISS_NAC to Tethys (0.0,-34.377,0.0 deg. offset), NEG_X to Sun; Hand off at ISS_NAC to Methone, NEG_X to NSP. Collaborative Rider(s): CIRS, UVIS.
166ME (nt) METHONE Outbow...			2012-141T06:56:42		000T00:00:01	2012-141T06:56:43			
CAPS 166SA EINMAGPTG001 PIE	M, U		2012-141T08:26:00		000T03:00:00	2012-141T11:26:00	UVIS_FUV to 201.298/-11.162 (-2.005,0.0,0.0 deg. offset)	POS_X to 302.0/-43.0	Pick up at ISS_NAC to Methone, NEG_X to NSP; Hand off at POS_Y to COROT, NEG_X to North_Pole_Dir. Collaborative Rider(s): UVIS. Combined CAPS pointing with a UVIS calibration
CAPS 166SA EINMAGPTG002 PIE	M, U		2012-141T11:26:00		000T10:35:00	2012-141T22:01:00	POS_Y to COROT	NEG X to NSP	Pick up at POS_Y to COROT, NEG_X to NSP; Hand off at XBAND to Earth, NEG_X to NSP. Collaborative Rider(s): UVIS.
<b>End Custom</b>			<b>2012-141T22:01:00</b>		<b>000T00:00:01</b>	<b>2012-141T22:01:01</b>	<b>XBAND to Earth</b>	<b>NEG X to NSP</b>	
ENGR 166SC KPTYBIAS141 PRIME			2012-141T22:01:00		000T01:30:00	2012-141T23:31:00	POS_Z to DELTA_H	NEG X to Sun	
SP 166EA G70METN01341 PRIME	C, E		2012-141T23:31:00		000T09:00:00	2012-142T08:31:00	XBAND to Earth	NEG X to NSP	
SOST 177 Segment			2012-357T11:34:00		002T00:00:00	2012-359T11:34:00			
SP 177RH WAYPTTURN357 PRIME			2012-357T11:34:00		000T00:40:00	2012-357T12:14:00	ISS_NAC to Rhea	NEG X to 330.6/10.2	
<b>NEW WAYPOINT</b>			<b>2012-357T12:14:00</b>		<b>000T21:56:00</b>	<b>2012-358T10:10:00</b>	<b>ISS_NAC to Rhea</b>	<b>NEG X to 330.6/10.2</b>	
ISS 177OT SURROT015 PRIME			2012-357T12:14:00		000T06:31:00	2012-357T18:45:00	UVIS_FUV to Rocks	POS_Z to Sun	
CIRS 177RH SPOLSCAN001 PRIME	U, V		2012-357T18:45:00		000T01:00:00	2012-357T19:45:00	CIRS FP3 to Rhea	NEG X to 330.6/10.2	
<b>Begin Custom</b>			<b>2012-357T19:45:00</b>		<b>000T00:00:01</b>	<b>2012-357T19:45:01</b>			
<b>RADAR 177RH SCATTRAD001 PIE</b>			<b>2012-357T19:45:00</b>		<b>000T02:00:00</b>	<b>2012-357T21:45:00</b>	<b>NEG_Z to Rhea</b>	<b>NEG X to 330.6/10.2</b>	<b>Pick up at ISS_NAC to Rhea, NEG_X to 330.6/10.2; Hand off at NEG_Z to Rhea, NEG_X to 330.6/10.2.</b>
ISS 177RH RHEA001 PIE	C, E, M, U, V		2012-357T21:45:00		000T04:15:00	2012-358T02:00:00	ISS_NAC to Rhea	NEG_X to 330.6/10.2	Pick up at NEG_Z to Rhea, NEG_X to 330.6/10.2; Hand off at ISS_NAC to Rhea, NEG_X to 330.6/10.2. Collaborative Rider(s): CIRS, UVIS.
ISS 177EN PLMHPMR001 PIE	U, V		2012-358T02:00:00		000T02:00:00	2012-358T04:00:00	ISS_NAC to Enceladus	NEG X to NSP	Pick up at ISS_NAC to Rhea, NEG_X to 330.6/10.2; Hand off at ISS_NAC to Enceladus, NEG_X to 330.6/10.2. SOST PIE
<b>RADAR 177DI SCATTRAD001 PRIME</b>			<b>2012-358T04:00:00</b>		<b>000T02:00:00</b>	<b>2012-358T06:00:00</b>	<b>NEG_Z to Dione</b>	<b>NEG X to 330.6/10.2</b>	<b>Pick up at ISS_NAC to Enceladus, NEG_X to 330.6/10.2; Hand off at NEG_Z to Dione, NEG_X to 330.6/10.2.</b>
ISS 177DI_GLOC001 PRIME	C, U, V		2012-358T06:00:00		000T01:30:00	2012-358T07:30:00	ISS_NAC to Dione	POS_X to NEP	Pick up at NEG_Z to Dione, NEG_X to 330.6/10.2; Hand off at ISS_NAC to Dione, POS_X to NEP. Collaborative Rider(s): CIRS
UVIS 177IC ALPVIR001 PRIME			2012-358T07:30:00		000T02:35:00	2012-358T10:05:00	UVIS_FUV to Star	POS_X to 252.214/72.271	Pick up at ISS_NAC to Dione, POS_X to NEP; Hand off at XBAND to Earth, POS_X to NEP.
Periapse R = 7.424 Rs, lat ...			2012-358T08:30:16		000T00:00:01	2012-358T08:30:17			
SP 177EA DLTURN358 PRIME			2012-358T10:05:00		000T00:05:00	2012-358T10:10:00	XBAND to Earth	POS_X to NEP	Pick up at XBAND to Earth, POS_X to NEP; Hand off at XBAND to Earth, POS_X to NEP.
<b>NEW WAYPOINT</b>			<b>2012-358T10:10:00</b>		<b>001T02:00:00</b>	<b>2012-359T12:10:00</b>	<b>XBAND to Earth</b>	<b>POS_X to NEP</b>	
<b>End Custom</b>			<b>2012-358T10:10:00</b>		<b>000T00:00:01</b>	<b>2012-358T10:10:01</b>			
SP 177EA YGAP358 PRIME			2012-358T10:10:00		000T01:30:00	2012-358T11:40:00	XBAND to Earth	POS_X to NEP	
SP 177EA G34HEFNON358 PRIME	C, R		2012-358T11:40:00		000T05:54:00	2012-358T17:34:00	XBAND to Earth	3_Hr Rolling	CAPS_POS_X to NEP or NSP, SID suspend
SP 177EA C34HEFNON358 PRIME	C, R		2012-358T17:34:00		000T09:00:00	2012-359T02:34:00	XBAND to Earth	Rolling/SRU	CAPS_POS_X to NEP or NSP, SID suspend
SP 177EA M70METN01359 PRIME	E		2012-359T02:34:00		000T09:00:00	2012-359T11:34:00	XBAND to Earth	Rolling/SRU	CAPS_POS_X to NEP or NSP, SID suspend
SOST 183 R4 Segment			2013-067T14:29:00		002T00:00:00	2013-069T14:29:00			
ISS 183OT HYRROT067 PRIME	R, U		2013-067T14:29:00		000T16:37:00	2013-068T07:06:00	UVIS_FUV to Rocks (0.0,-3.0,0.0 deg. offset)	NEG Z to Earth	
SP 183EA DEADTIME068 PRIME	R		2013-068T07:06:00		000T00:04:00	2013-068T07:10:00	XBAND to Earth	NEG Y to 297.0/44.0	
SP 183EA G34BWGNON068 PRIME	R		2013-068T07:10:00	GMB E183 RHEA R4-000T11:07:27	000T03:00:00	2013-068T10:10:00	XBAND to Earth	NEG Y to 297.0/44.0	RSS 183RH GRAVITY001 PIE
<b>Begin Custom</b>			<b>2013-068T10:10:00</b>	<b>GMB E183 RHEA R4-000T08:07:27</b>	<b>000T00:00:01</b>	<b>2013-068T10:10:01</b>			
ISS 183OT HYRSUP069 PRIME	U, V		2013-068T10:10:00	GMB E183 RHEA R4-000T08:07:27	000T04:35:00	2013-068T14:45:00	UVIS_FUV to Rocks (0.0,-3.0,0.0 deg. offset)	NEG Z to Earth	Pick up at XBAND to Earth, NEG_Y to 297.0/44.0; Hand off at CIRS_FP1 to Rhea, POS_X to 163.5/-9.5.
CIRS 183RH SOUTHPOLE001 PRIME	I, U, V		2013-068T14:45:00	GMB E183 RHEA R4-000T03:32:27	000T02:02:27	2013-068T16:47:27	CIRS_FP3 to Rhea (0.093,0.0,0.0 deg. offset)	POS_X to 163.5/-9.5	Pick up at CIRS_FP1 to Rhea, POS_X to 163.5/-9.5; Hand off at XBAND to Earth, NEG_Y to 0.0/-69.8.



RSS_183RH_GRAVITY002_PIE	C, I, M, U, V	2013-068T16:47:27	GMB_E183_RHEA_R4-000T01:30:00	000T03:00:00	2013-068T19:47:27	XBAND to Earth	NEG_Y to 0.0/-69.8	Pick up at XBAND to Earth, NEG_Y to 0.0/-69.8; Hand off at XBAND to Earth, NEG_Y to 0.0/-69.8. Collaborative Rider(s): CIRS, UVIS
183RH (t) R4 RHEA Inbound...		2013-068T18:17:27		000T00:00:01	2013-068T18:17:28			
ISS_183RH_REGMAP001_PRIME	C, U, V	2013-068T19:47:27	GMB_E183_RHEA_R4+000T01:30:00	000T03:30:00	2013-068T23:17:27	ISS_NAC to Rhea	POS_X to 163.5/-9.5	Pick up at XBAND to Earth, NEG_Y to 0.0/-69.8; Hand off at XBAND to Earth, NEG_Y to 297.0/44.0. Collaborative Rider(s): CIRS, UVIS. 2 min. dwell; 4 min. dwell for footprints near terminator
<b>End Custom</b>		<b>2013-068T23:17:27</b>	<b>GMB_E183_RHEA_R4+000T05:00:00</b>	<b>000T00:00:01</b>	<b>2013-068T23:17:28</b>			
SP_183EA_M34BWGNON068_PRIME	R	2013-068T23:17:27	GMB_E183_RHEA_R4+000T05:00:00	000T03:00:00	2013-069T02:17:27	XBAND to Earth	NEG_Y to 297.0/44.0	RSS_183RH_GRAVITY003_PIE
ISS_183RH_GLOCOLO01_PRIME	C, U, V	2013-069T02:17:27	GMB_E183_RHEA_R4+000T08:00:00	000T02:50:33	2013-069T05:08:00	ISS_NAC to Rhea	POS_X to 163.5/-9.5	Collaborative Rider(s): CIRS
Periapse R = 8.032 Rs, lat ...		2013-069T03:40:05		000T00:00:01	2013-069T03:40:06			
SP_183EA_DEADTIME069_PRIME		2013-069T05:08:00		000T00:01:01	2013-069T05:09:00	XBAND to Earth	NEG_X to 297.0/44.0	
SP_183EA_DLTURN069_PRIME		2013-069T05:09:00		000T00:20:00	2013-069T05:29:00	XBAND to Earth	POS_X to NEP	
SP_183EA_G70METN069_PRIME	C, R	2013-069T05:29:00		000T09:00:00	2013-069T14:29:00	XBAND to Earth	POS_X to NEP	CAPS_POS_X to NEP or NSP. SID suspend
SOST_214 Segment		2015-100T20:13:00		002T00:00:00	2015-102T20:13:00			
ISS_2140T_PAASUPA058_PRIME	V	2015-100T20:13:00		000T08:27:00	2015-101T04:40:00	UVIS_FUV to Rocks	NEG_Z to Sun	
SP_214TE_WAYPTTURN101_PRIME		2015-101T04:40:00		000T00:20:00	2015-101T05:00:00	NEG_Y to Tethys	NEG_Z to 126.1/42.9	
<b>NEW WAYPOINT</b>		<b>2015-101T05:00:00</b>		<b>000T16:46:30</b>	<b>2015-101T21:46:30</b>	<b>NEG_Y to Tethys</b>	<b>NEG_Z to 126.1/42.9</b>	
CIRS_214TE_FP3SCAN001_PRIME	U, V	2015-101T05:00:00		000T01:00:00	2015-101T06:00:00	CIRS_FP3 to Tethys	NEG_Z to 126.1/42.9	
ISS_214TE_GLOCOLOR001_PRIME	C, U, V	2015-101T06:00:00		000T00:45:00	2015-101T06:45:00	ISS_NAC to Tethys	NEG_Z to 126.1/42.9	Collaborative Rider(s): CIRS
CIRS_214TE_FP3SCAN002_PRIME	U, V	2015-101T06:45:00		000T03:15:00	2015-101T10:00:00	CIRS_FP3 to Tethys	NEG_Z to 126.1/42.9	
ISS_214TE_UVSTARE001_PRIME	C, U, V	2015-101T10:00:00		000T00:45:00	2015-101T10:45:00	ISS_NAC to Tethys	NEG_Z to 126.1/42.9	Collaborative Rider(s): CIRS
CIRS_214TE_FP3SCAN003_PRIME	M, U, V	2015-101T10:45:00		000T03:45:00	2015-101T14:30:00	CIRS_FP3 to Tethys	NEG_Z to 126.1/42.9	
ISS_214TE_UVMOSAIC001_PRIME	C, U, V	2015-101T14:30:00		000T00:45:00	2015-101T15:15:00	ISS_NAC to Tethys	NEG_Z to 126.1/42.9	Collaborative Rider(s): CIRS
CIRS_214TE_FP3SCAN001_PRIME	V	2015-101T15:15:00		000T00:45:00	2015-101T16:00:00	CIRS_FP1 to Tethys	NEG_Z to 126.1/42.9	
ISS_214TE_TETHYS001_PIE	C, U, V	2015-101T16:00:00		000T01:30:00	2015-101T17:30:00	ISS_NAC to Tethys	NEG_Z to 126.1/42.9	Collaborative Rider(s): CIRS, UVIS
Periapse R = 5.582 Rs, lat ...		2015-101T17:09:07		000T00:00:01	2015-101T17:09:08			
CIRS_214TE_SCAN001_PIE	U, V	2015-101T17:30:00		000T01:00:00	2015-101T18:30:00	CIRS_FP1 to Tethys	NEG_Z to 126.1/42.9	Collaborative Rider(s): UVIS
ISS_214TE_TETHYS002_PIE	C, U, V	2015-101T18:30:00		000T01:30:00	2015-101T20:00:00	ISS_NAC to Tethys	NEG_Z to 126.1/42.9	Collaborative Rider(s): CIRS, UVIS
CIRS_214TE_SCAN002_PIE	U, V	2015-101T20:00:00		000T01:30:00	2015-101T21:30:00	CIRS_FP1 to Tethys	NEG_Z to 126.1/42.9	
SP_214DI_WAYPTTURN101_PRIME		2015-101T21:30:00		000T00:16:30	2015-101T21:46:30	NEG_Y to Dione	NEG_X to 33.0/84.3	Actual pointing is to an RADEC per RBOT
<b>NEW WAYPOINT</b>		<b>2015-101T21:46:30</b>		<b>000T03:38:30</b>	<b>2015-102T01:25:00</b>	<b>NEG_Y to Dione</b>	<b>NEG_X to 33.0/84.3</b>	
ENGR_2145C_RWABIAS001_AACS		2015-101T21:47:40		000T00:10:42	2015-101T21:58:22			
CIRS_214DI_FP3SCAN001_PRIME	U, V	2015-101T22:00:00		000T01:00:00	2015-101T23:00:00	CIRS_FP3 to Dione	NEG_X to 33.0/84.3	
ISS_214DI_REGMAP001_PRIME	C, U, V	2015-101T23:00:00		000T01:00:00	2015-102T00:00:00	ISS_NAC to Dione	NEG_X to 33.0/84.3	Collaborative Rider(s): CIRS
CIRS_214DI_FP3SCAN002_PRIME	U, V	2015-102T00:00:00		000T01:00:00	2015-102T01:00:00	CIRS_FP3 to Dione	NEG_X to 33.0/84.3	
SP_2145T_WAYPTTURN102_PRIME		2015-102T01:00:00		000T00:25:00	2015-102T01:25:00	NEG_Y to 201.3/-13.0	NEG_X to 33.0/84.3	
<b>NEW WAYPOINT</b>		<b>2015-102T01:25:00</b>		<b>000T08:18:00</b>	<b>2015-102T09:43:00</b>	<b>NEG_Y to 201.3/-13.0</b>	<b>NEG_X to 33.0/84.3</b>	
UVIS_214IC_ALPVR001_PRIME	V	2015-102T01:25:00		000T01:40:00	2015-102T03:05:00	UVIS_FUV to 201.298/-11.161	NEG_X to 33.0/84.3	
ISS_2140T_PAASUPB058_PRIME	U, V	2015-102T03:05:00		000T06:18:00	2015-102T09:23:00	UVIS_FUV to Rocks	NEG_X to 33.0/84.3	
SP_214EA_DLTURN102_PRIME		2015-102T09:23:00		000T00:20:00	2015-102T09:43:00	XBAND to Earth	NEG_X to 40.6/83.5	DLWG attitude for MIMI (this is NEG_X to NSP)
<b>NEW WAYPOINT</b>		<b>2015-102T09:43:00</b>		<b>000T11:10:00</b>	<b>2015-102T20:53:00</b>	<b>XBAND to Earth</b>	<b>NEG_X to 40.6/83.5</b>	
ENGR_2145C_KPTYBIAS102_PRIME		2015-102T09:43:00		000T01:30:00	2015-102T11:13:00	NEG_Z to DELTA_H (0.0,0.0,-17.001 deg. offset)	NEG_X to Sun	
SP_214EA_C70METN0102_PRIME	C	2015-102T11:13:00		000T09:00:00	2015-102T20:13:00	XBAND to Earth	Rolling/SRU	MIMI.NEG_X to 40.6/83.5 (NSP) or NEP.SRU.
SOST_215 Segment		2015-129T08:15:00		002T09:45:00	2015-131T18:00:00			
SP_215EN_WAYPTTURN129_PRIME	M	2015-129T08:15:00		000T00:40:00	2015-129T08:55:00	ISS_NAC to Enceladus	NEG_X to NSP	
<b>NEW WAYPOINT</b>		<b>2015-129T08:55:00</b>		<b>000T22:50:00</b>	<b>2015-130T07:45:00</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_X to NSP</b>	
<b>CDA_215DR_ICLSNICRY001_PIE</b>	<b>M</b>	<b>2015-129T08:55:00</b>		<b>000T07:50:00</b>	<b>2015-129T16:45:00</b>	<b>NEG_X to NSP</b>	<b>NEG_Z to 279.3/-6.7</b>	
CIRS_215DI_DIONE001_PIE	I, U, V	2015-129T16:45:00		000T01:30:00	2015-129T18:15:00	CIRS_FP1 to Dione	NEG_X to 335.83/-14.827	Collaborative Rider(s): ISS
Periapse R = 4.113 Rs, lat ...		2015-129T18:03:00		000T00:00:01	2015-129T18:03:01			
CIRS_215TE_TETHYS001_PRIME	I, U, V	2015-129T18:15:00		000T04:05:00	2015-129T22:20:00	CIRS_FP1 to Tethys	NEG_X to NSP	
CIRS_215PO_POLYDEU001_PRIME	I, U, V	2015-129T22:20:00		000T02:10:00	2015-130T00:30:00	ISS_NAC to Polydeuces	NEG_X to 56.044/3.774	Collaborative Rider(s): ISS
ISS_215EN_PLMHPMR001_PIE	M, U, V	2015-130T00:30:00		000T06:35:00	2015-130T07:05:00	ISS_NAC to Enceladus	NEG_X to NSP	SOST_PIE
SP_215EA_DLTURN130D_PRIME	M	2015-130T07:05:00		000T00:40:00	2015-130T07:45:00	XBAND to Earth	NEG_Y to 140.28/1.07	
<b>NEW WAYPOINT</b>		<b>2015-130T07:45:00</b>		<b>001T01:15:00</b>	<b>2015-131T09:00:00</b>	<b>XBAND to Earth</b>	<b>NEG_Y to 140.28/1.07</b>	
SP_215EA_YGAP130_PRIME		2015-130T07:45:00		000T01:30:00	2015-130T09:15:00	XBAND to Earth	NEG_Y to 140.28/1.07	
SP_215EA_C70METN0130_PRIME	C	2015-130T09:15:00		000T08:25:00	2015-130T17:40:00	XBAND to Earth	Rolling	MIMI.
<b>CDA_215DR_INCLSCAN001_PIE</b>	<b>M</b>	<b>2015-130T18:15:00</b>		<b>000T04:10:00</b>	<b>2015-130T22:25:00</b>	<b>NEG_X to NSP</b>	<b>NEG_Z to 288.7/2.4</b>	
ISS_2150T_KIVOC136_PRIME	V	2015-130T22:25:00		000T10:30:00	2015-131T08:55:00	UVIS_FUV to Rocks (0.0,-13.002,0.0 deg. offset)	NEG_Z to Earth	
SP_215EA_DLTURN131_PRIME		2015-131T08:55:00		000T00:05:00	2015-131T09:00:00	XBAND to Earth	NEG_Y to 161.81/3.35	
<b>NEW WAYPOINT</b>		<b>2015-131T09:00:00</b>		<b>000T09:30:00</b>	<b>2015-131T18:30:00</b>	<b>XBAND to Earth</b>	<b>NEG_Y to 161.81/3.35</b>	
SP_215EA_C34HEFOTP131_PRIME	C, E, N	2015-131T09:00:00		000T09:00:00	2015-131T18:00:00	XBAND to Earth	4 Hr Rolling	MIMI.OTP.
Dione Flyby D4 Segment		2015-166T15:30:00		002T23:59:00	2015-169T15:29:00			
SP_217SA_WAYPTTURN166_PRIME		2015-166T15:30:00		000T00:40:00	2015-166T16:10:00	ISS_NAC to Saturn	NEG_X to NSP	
<b>NEW WAYPOINT</b>		<b>2015-166T16:10:00</b>		<b>001T00:14:00</b>	<b>2015-167T16:24:00</b>	<b>ISS_NAC to Saturn</b>	<b>NEG_X to NSP</b>	
<b>Begin Custom</b>		<b>2015-166T16:10:00</b>		<b>000T00:00:01</b>	<b>2015-166T16:10:01</b>			
ISS_2170T_TARPHA001_PRIME	U, V	2015-166T16:10:00		000T04:30:00	2015-166T20:40:00	UVIS_FUV to Rocks	NEG_X to NSP	Pick up at ISS_NAC to Saturn, NEG_X to NSP; Hand off at ISS_NAC to Rhea, NEG_X to NSP.
CIRS_217RH_RHEA001_PRIME	I, U, V	2015-166T20:40:00		000T02:00:00	2015-166T22:40:00	ISS_NAC to Rhea	NEG_X to NSP	Pick up at ISS_NAC to Rhea, NEG_X to NSP; Hand off at ISS_NAC to Rhea, NEG_X to NSP. Collaborative Rider(s): ISS
ISS_2170T_TARPHA002_PRIME	M, U, V	2015-166T22:40:00		000T05:00:00	2015-167T03:40:00	UVIS_FUV to Rocks	NEG_X to NSP	Pick up at ISS_NAC to Rhea, NEG_X to NSP; Hand off at ISS_NAC to Polydeuces, NEG_X to NSP.
ISS_217PO_POLYDU001_PIE	C, M, U, V	2015-167T03:40:00		000T03:00:00	2015-167T06:40:00	ISS_NAC to Polydeuces	NEG_X to NSP	Pick up at ISS_NAC to Polydeuces, NEG_X to NSP; Hand off at ISS_NAC to Rocks, NEG_X to NSP.
ISS_2170T_TARPHA003_PRIME	E, U, V	2015-167T06:40:00		000T03:04:00	2015-167T09:44:00	UVIS_FUV to Rocks	NEG_X to NSP	Pick up at ISS_NAC to Rocks, NEG_X to NSP; Hand off at ISS_NAC to Saturn, NEG_X to NSP.
<b>End Custom</b>		<b>2015-167T09:44:00</b>		<b>000T00:00:01</b>	<b>2015-167T09:44:01</b>			
CIRS_217SA_LIMBINT001_PIE	I, R, U, V	2015-167T09:44:00		000T06:00:00	2015-167T15:44:00	CIRS_FP8 to Saturn	NEG_X to NSP	PIE
Periapse R = 4.124 Rs, lat ...		2015-167T12:44:16		000T00:00:01	2015-167T12:44:17			
SP_217DI_WAYPTTURN167_PRIME	R	2015-167T15:44:00		000T00:40:00	2015-167T16:24:00	ISS_NAC to Dione	POS_X to 291.6/48.6	RWA CMT rate violation at CA
<b>NEW WAYPOINT</b>		<b>2015-167T16:24:00</b>		<b>000T10:16:00</b>	<b>2015-168T02:40:00</b>	<b>ISS_NAC to Dione</b>	<b>POS_X to 291.6/48.6</b>	
ISS_217DI_REGMAP001_PRIME	C, E, R, U, V	2015-167T16:24:00		000T01:06:00	2015-167T17:30:00	ISS_NAC to Dione	POS_X to 291.6/48.6	
INMS_217DI_DIONE4002_PIE	M, R	2015-167T17:30:00		000T05:00:00	2015-167T22:30:00	XBAND to Earth	NEG_X to Dust_RAM	Collaborative Rider(s): CDA, RSS. Include quiescent time at start and end.
SP_217EA_M70METN0167_PRIME	M, R	2015-167T18:25:00		000T03:25:00	2015-167T21:50:00	XBAND to Earth	NEG_X to Dust_RAM	Collaborative Rider(s): CDA, RSS
217DI (t) D4 DIONE Outbou...		2015-167T20:11:52		000T00:00:01	2015-167T20:11:53			
CIRS_217DI_DIONE001_PRIME	I, M, U, V	2015-167T22:30:00		000T03:30:00	2015-168T02:00:00	CIRS_FP1 to Dione	POS_X to 291.6/48.6	Collaborative Rider(s): ISS
SP_217EA_DLTURN168_PRIME		2015-168T02:00:00		000T00:21:00	2015-168T02:21:00	XBAND to Earth (0.0,0.0,40.0 deg. offset)	NEG_Y to 148.0/2.0	pt 1 of 2
SP_217EA_DLTURN368_PRIME		2015-168T02:21:00		000T00:19:00	2015-168T02:40:00	XBAND to Earth	NEG_Y to 148.0/2.0	pt 2 of 2
<b>NEW WAYPOINT</b>		<b>2015-168T02:40:00</b>		<b>002T13:14:00</b>	<b>2015-170T15:54:00</b>	<b>XBAND to Earth</b>	<b>NEG_Y to 148.0/2.0</b>	
ISS_2170T_ALBROTA070_PRIME	U, V	2015-168T02:40:00		000T03:50:00	2015-168T06:30:00	UVIS_FUV to Rocks (-0.082,0.0,0.0 deg. offset)	NEG_Z to Earth	
SP_217EA_C70METN0168_PRIME	R	2015-168T06:30:00		000T02:05:00	2015-168T08:35:00	XBAND to Earth	Rolling	CAPS.NEG_X to 40.6/83.5 (NSP) or NEP.
SP_217EA_C34BWGRSS168_PRIME	C, R	2015-168T08:35:00		000T08:25:00	2015-168T17:00:00	XBAND to Earth	Rolling	CAPS.NEG_X to 40.6/83.5 (NSP) or NEP.
SP_217EA_M70METN0168_PRIME	C	2015-168T17:00:00		000T01:30:00	2015-168T18:30:00	XBAND to Earth	NEG_Y to 148.0/2.0	
ISS_2170T_ALBROT071_PRIME	U, V							

SP 217EA YGAP169 PRIME			2015-169T04:59:00		000T00:30:00	2015-169T05:29:00	XBAND to Earth	NEG_Y to 148.0/2.0	
SP 217EA C70METNON169 PRIME	C		2015-169T05:29:00		000T04:15:00	2015-169T09:44:00	XBAND to Earth	Rolling	CAPS.NEG_X to 40.6/83.5 (NSP) or NEP.
SP 217EA C34HEFNON169 PRIME	C		2015-169T09:44:00		000T05:45:00	2015-169T15:29:00	XBAND to Earth	Rolling	CAPS.NEG_X to 40.6/83.5 (NSP) or NEP.
Dione Flyby D5 Segment			2015-229T04:53:00		002T00:00:00	2015-231T04:53:00			
CIRS 220DI COMPGLOB01 PRIME	C, R, U, V		2015-229T04:53:00		000T04:00:00	2015-229T08:53:00	CIRS FP1 to Dione	NEG_X to NSP	
SP 220EA C34BWGRSS229 PRIME	R		2015-229T08:53:00		000T03:01:00	2015-229T11:54:00	XBAND to Earth	POS_Y to NEP	RSS Gravity001
CIRS 220DI FP3SCAN001 PRIME	I, M, U, V		2015-229T11:54:00		000T03:59:00	2015-229T15:53:00	CIRS FP3 to Dione	NEG_X to NSP	
SP 220EA DLTURN229 PRIME	R		2015-229T15:53:00		000T00:10:00	2015-229T16:03:00	XBAND to Earth	NEG_Y to 85.5/-69.7	
NEW WAYPOINT			2015-229T16:03:00		000T07:30:00	2015-229T23:33:00	XBAND to Earth	NEG_Y to 85.5/-69.7	
SP 220EA M34BWGRSS229 PRIME	R		2015-229T16:03:00		000T02:25:00	2015-229T18:28:00	XBAND to Earth	NEG_Y to 85.5/-69.7	RSS Gravity002
ISS 220EA DIONEDRAG001 PRIME	C, R, U, V		2015-229T18:28:00		000T00:10:00	2015-229T18:38:00	XBAND to Earth	NEG_Y to 85.5/-69.7	Collaborative Rider(s): CIRS. Gravity002 PIE, part 2 - NO pointing commands allowed
220DI (t) D5 DIONE Inbound...			2015-229T18:33:26		000T00:00:01	2015-229T18:33:27			
SP 220EA M34BWGRSS429 PRIME	R		2015-229T18:38:00		000T02:16:00	2015-229T20:54:00	XBAND to Earth	NEG_Y to 85.5/-69.7	RSS Gravity002
Begin Custom			2015-229T20:54:00		000T00:00:01	2015-229T20:54:01			
CIRS 220DI_FP1SCAN001_PRIME	I, U, V		2015-229T20:54:00		000T01:23:00	2015-229T22:17:00	CIRS_FP1 to Dione	NEG_Z to NSP	Pick up at XBAND to Earth, NEG_Y to 85.5/-69.7; Hand off at CIRS_FP1 to Dione, NEG_Z to NSP. Collaborative Rider(s): UVIS.
CIRS 220TE FP1SCAN001 PRIME	I, U, V		2015-229T22:17:00		000T00:56:00	2015-229T23:13:00	CIRS_FP1 to Tethys	NEG_Z to NSP	Pick up at CIRS_FP1 to Dione, NEG_Z to NSP; Hand off at CIRS_FP1 to Tethys, NEG_Z to NSP.
SP 220EA DLTURN429 PRIME	R		2015-229T23:13:00		000T00:20:00	2015-229T23:33:00	XBAND to Earth	POS_X to NSP	Pick up at CIRS_FP1 to Tethys, NEG_Z to NSP; Hand off at XBAND to Earth, POS_X to NSP.
NEW WAYPOINT			2015-229T23:33:00		000T03:31:00	2015-230T03:04:00	XBAND to Earth	POS_X to NSP	
End Custom			2015-229T23:33:00		000T00:00:01	2015-229T23:33:01			
SP 220EA G34BWGRSS229 PRIME	R		2015-229T23:33:00		000T03:01:00	2015-230T02:34:00	XBAND to Earth	POS_X to NSP	RSS Gravity003
Periapse R = 4.704 Rs, lat ...			2015-230T01:24:13		000T00:00:01	2015-230T01:24:14			
SP 220EA WAYPTTURN230 PRIME			2015-230T02:34:00		000T00:30:00	2015-230T03:04:00	ISS_NAC to Enceladus	NEG_Z to 37.6/83.6	
NEW WAYPOINT			2015-230T03:04:00		000T15:19:00	2015-230T18:23:00	ISS_NAC to Enceladus	NEG_Z to 37.6/83.6	
ISS 220EN ENCELNP001 PRIME	C, U, V		2015-230T03:04:00		000T00:30:00	2015-230T03:34:00	ISS_NAC to Enceladus	NEG_Z to 37.6/83.6	
UVIS 220EN_ICYLON001 PRIME	C, V		2015-230T03:34:00		000T01:30:00	2015-230T05:04:00	UVIS_FUV to Enceladus	NEG_Z to 37.6/83.6	Point and stare
CIRS 220EN_FP3SCAN001 PRIME	U, V		2015-230T05:04:00		000T01:00:00	2015-230T06:04:00	CIRS_FP3 to Enceladus	NEG_Z to 37.6/83.6	
ISS 220OT BESPOLA058 PRIME	V		2015-230T06:04:00		000T00:56:00	2015-230T07:00:00	UVIS_FUV to Rocks	NEG_Z to 37.6/83.6	
ISS 220EN_PLMHPMR001 PIE	C, M, U, V		2015-230T07:00:00		000T02:00:00	2015-230T09:00:00	ISS_NAC to Enceladus	POS_X to 265.0/41.0	Secondary for CDA
ISS 220OT BESPOLB058 PRIME	M, V		2015-230T09:00:00		000T05:43:00	2015-230T14:43:00	UVIS_FUV to Rocks	NEG_Z to 37.6/83.6	
CIRS 220TE COMPGLOB001 PRIME	C, U, V		2015-230T14:43:00		000T03:00:00	2015-230T17:43:00	CIRS_FP1 to Tethys	NEG_Z to 37.6/83.6	
SP 220EA DLTURN230 PRIME	R		2015-230T17:43:00		000T00:40:00	2015-230T18:23:00	XBAND to Earth	NEG_Y to 144.0/2.0	
NEW WAYPOINT			2015-230T18:23:00		000T11:10:00	2015-231T05:33:00	XBAND to Earth	NEG_Y to 144.0/2.0	
SP 220EA G70METNON230 PRIME	C, R		2015-230T20:13:00		000T05:10:00	2015-231T01:23:00	XBAND to Earth	6 Hr Rolling	
ENGR 220SC KPTYBIAS231 PRIME	C, R		2015-231T04:13:00		000T00:37:02	2015-231T04:50:02	POS_Z to DELTA_H (0.0,0.0,-34.0 deg. offset)	NEG_X to Sun	
SOST 221 Segment			2015-251T09:50:00		002T17:30:00	2015-254T03:20:00			
SP 221DI WAYPTTURN251 PRIME			2015-251T09:50:00		000T00:40:00	2015-251T10:30:00	ISS_NAC to Dione	NEG_X to 29.6/83.1	
NEW WAYPOINT			2015-251T10:30:00		000T08:30:00	2015-251T19:00:00	ISS_NAC to Dione	NEG_X to 29.6/83.1	
ISS 221DI_REGMAP001 PIE	C, E, U, V		2015-251T10:30:00		000T04:30:00	2015-251T15:00:00	ISS_NAC to Dione	NEG_X to 29.6/83.1	2 min. dwells
CIRS 221DI_DIONE001 PIE	U, V		2015-251T15:00:00		000T03:35:00	2015-251T18:35:00	ISS_NAC to Dione	NEG_X to 29.6/83.1	Nancy's RBOT friendly secondary is good for CIRS.
SP 221EN WAYPTTURN251 PRIME			2015-251T18:35:00		000T00:25:00	2015-251T19:00:00	ISS_NAC to Enceladus	NEG_X to NSP	
NEW WAYPOINT			2015-251T19:00:00		000T15:30:00	2015-252T10:30:00	ISS_NAC to Enceladus	NEG_X to NSP	
ISS 221EN_PLMHPMR001 PIE	U, V		2015-251T19:00:00		000T01:30:00	2015-251T20:30:00	ISS_NAC to Enceladus	NEG_X to NSP	
ISS 221EN_ENCELADUS001 PIE	C, U		2015-251T20:30:00		000T02:00:00	2015-251T22:30:00	ISS_NAC to Enceladus	NEG_X to NSP	Collaborative Rider(s): CIRS
Periapse R = 4.695 Rs, lat ...			2015-251T21:41:22		000T00:00:01	2015-251T21:41:23			
ISS 221EN_PLMHPMR002 PIE	U, V		2015-251T22:30:00		000T01:40:00	2015-252T00:10:00	ISS_NAC to Enceladus	NEG_X to NSP	
SP 221EA DLTURN252 PRIME			2015-252T00:10:00		000T00:40:00	2015-252T00:50:00	XBAND to Earth	NEG_X to 274.0/72.0	same secondary as OTP in Saturn. 34.4min
SP 221EA_C70METOTB251 PRIME	C, E, M, N		2015-252T00:50:00		000T09:00:00	2015-252T09:50:00	XBAND to Earth	NEG_X to 274.0/72.0	same secondary as OTP in Saturn Segment. Old secondary was for CAPS.
SP 221SA WAYPTTURN252 PRIME	M		2015-252T09:50:00		000T00:40:00	2015-252T10:30:00	ISS_NAC to Saturn	NEG_X to NSP	
NEW WAYPOINT			2015-252T10:30:00		001T06:35:00	2015-253T17:05:00	ISS_NAC to Saturn	NEG_X to NSP	
CIRS 221DI_COMPGLOB001 PRIME	C, I, V		2015-252T10:30:00		000T05:00:00	2015-252T15:30:00	CIRS_FP1 to Dione	NEG_X to NSP	
ISS 221EN_PLMHPMR001 PRIME	U, V		2015-252T15:30:00		000T02:30:00	2015-252T18:00:00	ISS_NAC to Enceladus	NEG_X to NSP	
ISS 221OT_GREROT027 PRIME	V		2015-252T18:00:00		000T19:55:00	2015-253T13:55:00	ISS_NAC to Rocks	NEG_X to Earth	
ISS 221EN_PLMHPMR002 PRIME	U, V		2015-253T13:55:00		000T02:30:00	2015-253T16:25:00	ISS_NAC to Enceladus	NEG_X to NSP	
SP 221EA DLTURN253 PRIME			2015-253T16:25:00		000T00:40:00	2015-253T17:05:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
NEW WAYPOINT			2015-253T17:05:00		000T10:40:00	2015-254T03:45:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
ENGR 221SC_KPTYBIAS253 PRIME			2015-253T16:47:00		000T00:31:48	2015-253T17:18:48	NEG_Z to DELTA_H (0.0,0.0,-18.0 deg. offset)	NEG_X to Sun	
SP 221EA_G34B26SEQ253 PRIME	C, R		2015-253T18:35:00		000T04:05:00	2015-253T22:40:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	Rolling	MIMI.NEG_Y to Saturn (0.0,-9.5).CIRS heating.
SP 221EA_G70METSQ253 PRIME	C, R		2015-253T22:40:00		000T04:40:00	2015-254T03:20:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	Rolling	MIMI.NEG_Y to Saturn (0.0,-9.5).CIRS heating.
Enceladus Flyby E20 Segment			2015-286T17:31:00		002T14:00:00	2015-289T07:31:00			
SP 223SA WAYPTTURN286 PRIME			2015-286T17:31:00		000T00:15:00	2015-286T17:46:00	ISS_NAC to Saturn	NEG_X to NSP	Waypoint bad at 10:39-10:44, enceladus in SRU
NEW WAYPOINT			2015-286T17:46:00		001T01:00:00	2015-287T18:46:00	ISS_NAC to Saturn	NEG_X to NSP	
ISS 2230T_HATPOLA027 PRIME	M		2015-286T17:46:00		000T07:24:00	2015-287T01:10:00	UVIS_FUV to Rocks	NEG_X to NEP	
CIRS 223DI_DIONE001 PRIME	I, M, U, V		2015-287T01:10:00		000T05:50:00	2015-287T07:00:00	CIRS_FP3 to Dione	NEG_X to NSP	
Begin Custom			2015-287T07:00:00		000T00:00:01	2015-287T07:00:01			
ISS 223EN_ENCEL001 PIE	C, M, U, V		2015-287T07:00:00		000T06:15:00	2015-287T13:15:00	ISS_NAC to Enceladus	NEG_X to NSP	Pick up at ISS_NAC to Saturn, NEG_X to NSP; Hand off at ISS_NAC to Enceladus, NEG_X to NSP. Collaborative Rider(s): CIRS, UVIS
223EN (t) E20 ENCELADUS In...			2015-287T10:41:30		000T00:00:01	2015-287T10:41:31			
CDA_223DR_PALLEN001 PRIME	M, V		2015-287T13:15:00		000T03:40:00	2015-287T16:55:00	ISS_NAC to Enceladus (20.0,-40.0,-10.0 deg. offset)	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to NSP; Hand off at NEG_Y to Enceladus (20.0,-40.0,-10.0 deg. offset), NEG_X to NSP.
Periapse R = 2.903 Rs, lat ...			2015-287T14:06:02		000T00:00:01	2015-287T14:06:03			
ISS 223EN_PLUJTL001 PIE	C, M, U, V		2015-287T16:55:00		000T01:15:00	2015-287T18:10:00	ISS_NAC to Enceladus (0.0,0.0,-3.7 deg. offset)	NEG_X to NSP	Pick up at NEG_Y to Enceladus (20.0,-40.0,-10.0 deg. offset), NEG_X to NSP; Hand off at ISS_NAC to Saturn, NEG_X to NSP.
End Custom			2015-287T18:10:00		000T00:00:01	2015-287T18:10:01			
SP 223EA DLTURN287 PRIME	M		2015-287T18:10:00		000T00:36:00	2015-287T18:46:00	XBAND to Earth	NEG_X to NEP	
NEW WAYPOINT			2015-287T18:46:00		000T12:05:00	2015-288T06:51:00	XBAND to Earth	NEG_X to NEP	
ENGR 223SC_KPTYBIAS287 PRIME	M		2015-287T18:46:00		000T01:30:00	2015-287T20:16:00	POS_Z to DELTA_H (0.0,0.0,-17.001 deg. offset)	NEG_X to Sun	
SP 223EA_G34BWGNON287 PRIME	E, M		2015-287T20:16:00		000T02:15:00	2015-287T22:31:00	XBAND to Earth	NEG_X to NEP	
SP 223EA_C70METNON287 PRIME	C, M		2015-287T22:31:00		000T07:20:00	2015-288T05:51:00	XBAND to Earth	Rolling	MIMI
SP 223OT WAYPTTURN288 PRIME			2015-288T06:51:00		000T00:20:00	2015-288T06:51:00	ISS_NAC to 84.05/-1.202	POS_Z to 174.9/-33.0	
NEW WAYPOINT			2015-288T06:51:00		000T09:19:00	2015-288T16:10:00	ISS_NAC to 84.05/-1.202	POS_Z to 174.9/-33.0	
UVIS 223ST_ZETAORIO01 PIE			2015-288T06:51:00		000T01:27:00	2015-288T08:18:00	UVIS_FUV to 84.05/-1.202 (0.0,78.521,0.0 deg. offset)	POS_Z to 174.9/-33.0	
ISS 223EN_PLUJTL002 PIE	C, U, V		2015-288T08:18:00		000T07:12:00	2015-288T15:30:00	ISS_NAC to Enceladus	NEG_X to NSP	
SP 223EA DLTURN288 PRIME			2015-288T15:30:00		000T00:40:00	2015-288T16:10:00	XBAND to Earth	NEG_X to 165.0/3.5	MIMI
NEW WAYPOINT			2015-288T16:10:00		000T15:40:00	2015-289T07:50:00	XBAND to Earth	NEG_X to 165.0/3.5	
ISS 223OT_HATPOLB028 PRIME	V		2015-288T16:10:00		000T04:51:00	2015-288T21:01:00	UVIS_FUV to Rocks	NEG_Z to Sun	
SP 223EA_YGAP288 PRIME			2015-288T21:01:00		000T01:30:00	2015-288T22:31:00	XBAND to Earth	NEG_X to 165.0/3.5	
SP 223EA_C70METNON288 PRIME	C		2015-288T22:31:00		000T06:00:00	2015-289T04:31:00	XBAND to Earth	Rolling	

Enceladus Flyby E21 Segment		2015-301T00:30:00		002T06:15:00	2015-303T06:45:00				
SP 224EN WAYPTTURN301 PRIME	M	2015-301T00:30:00		000T00:40:00	2015-301T01:10:00	ISS_NAC to Enceladus	NEG_X to NEP	cannot be at waypoint during c/a due to RWA CMT. possible SRU issue with turn.	
<b>NEW WAYPOINT</b>		<b>2015-301T01:10:00</b>		<b>000T20:35:00</b>	<b>2015-301T21:45:00</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_X to NEP</b>		
ISS 224OT BESPOLA061 PRIME	M, V	2015-301T01:10:00		000T05:00:00	2015-301T06:10:00	UVIS_FUV to Rocks	NEG_X to NEP		
CDA 224DR DUST001 PRIME	M	2015-301T06:10:00		000T05:00:00	2015-301T11:10:00	NEG_Z to Sun (0.0,0.0,30.0 deg. offset)	NEG_X to Dust_RAM		
ISS 224EN ENCEL001 PRIME	C, M, U, V	2015-301T11:10:00		000T02:20:00	2015-301T13:30:00	ISS_NAC to Enceladus	NEG_X to NEP	Collaborative Rider(s): CIRS	
Periapse R = 2.903 Rs, lat ...		2015-301T11:55:50		000T00:00:01	2015-301T11:55:51				
INMS_224EN_ENCEL21001_PIE	C, I, M, U, V	2015-301T13:30:00	GMB_E224_ENCELADUS_E21-000T01:52:43	000T04:00:00	2015-301T17:30:00	NEG_X to SC_RAM	NEG_Y to 88.4/34.6	NEG_X to SCRAM for closest approach only. Remainder of observation will be at NEG_X to COROT ram or within 40 degrees of COROT ram due to heating.	
Begin high value science		2015-301T15:17:43	GMB_E224_ENCELADUS_E21-000T00:05:00	000T00:00:01	2015-301T15:17:44				
224EN (t) E21 ENCELADUS Ou...		2015-301T15:22:43		000T00:00:01	2015-301T15:22:44				
End High value data		2015-301T15:57:43	GMB_E224_ENCELADUS_E21+000T00:35:00	000T00:00:01	2015-301T15:57:44				
CDA 224DR DUST002 PRIME	M	2015-301T17:30:00		000T02:30:00	2015-301T20:00:00	NEG_Z to Sun (0.0,0.0,30.0 deg. offset)	NEG_X to Dust_RAM		
ISS 224EN PLUMED01 PIE	M, U, V	2015-301T20:00:00		000T01:09:00	2015-301T21:09:00	ISS_NAC to Enceladus	NEG_X to NSP		
SP 224EA DLTURN301 PRIME	M	2015-301T21:09:00		000T00:36:00	2015-301T21:45:00	XBAND to Earth	POS_X to NEP		
<b>NEW WAYPOINT</b>		<b>2015-301T21:45:00</b>		<b>000T09:40:00</b>	<b>2015-302T07:25:00</b>	<b>XBAND to Earth</b>	<b>POS_X to NEP</b>		
SP 224EA C34BWGOTP301 PRIME	C, E, M, N	2015-301T21:45:00		000T08:30:00	2015-302T06:15:00	XBAND to Earth	POS_X to NEP	POS_X to NEP	
SP 224ST WAYPTTURN302 PRIME		2015-302T06:45:00		000T00:40:00	2015-302T07:25:00	ISS_NAC to 84.05/-1.202	POS_Z to 174.9/-33.0	same as UVIS attitude, but with ISS_NAC instead of UVIS_FUV	
<b>NEW WAYPOINT</b>		<b>2015-302T07:25:00</b>		<b>000T05:45:00</b>	<b>2015-302T13:10:00</b>	<b>ISS_NAC to 84.05/-1.202</b>	<b>POS_Z to 174.9/-33.0</b>		
ISS 224EN PLMHPMR001 PRIME	U, V	2015-302T07:25:00		000T02:55:00	2015-302T10:00:00	ISS_NAC to Enceladus	NEG_X to NSP		
UVIS 224ST ZETAORI001 PIE	V	2015-302T10:00:00		000T02:45:00	2015-302T12:45:00	UVIS_FUV to 84.05/-1.202	POS_Z to 174.9/-33.0		
SP 224EA DLTURN302 PRIME		2015-302T12:45:00		000T00:25:00	2015-302T13:10:00	XBAND to Earth	POS_X to NEP		
<b>NEW WAYPOINT</b>		<b>2015-302T13:10:00</b>		<b>000T18:15:00</b>	<b>2015-303T07:25:00</b>	<b>XBAND to Earth</b>	<b>POS_X to NEP</b>		
ISS 224O1 BESPOLB070 PRIME	V	2015-302T13:10:00		000T08:35:00	2015-302T21:45:00	UVIS_FUV to Rocks	NEG_Z to Sun		
SP 224EA C70METOTB302 PRIME	C, N	2015-302T21:45:00		000T08:30:00	2015-303T06:15:00	XBAND to Earth	Rolling	POS_X to NEP.same secondary as OTP pass.OTB.	
Reset Pointers		2015-303T06:15:00		000T00:00:01	2015-303T06:15:01				
Enceladus Flyby E22 Segment		2015-353T03:44:00		002T04:00:00	2015-355T07:44:00				
SP 228EN WAYPTTURN353 PRIME		2015-353T03:44:00		000T00:25:00	2015-353T04:09:00	ISS_NAC to Enceladus	NEG_Z to Earth		
<b>NEW WAYPOINT</b>		<b>2015-353T04:09:00</b>		<b>000T22:26:00</b>	<b>2015-354T02:35:00</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_Z to Earth</b>		
<b>Begin Custom</b>		<b>2015-353T04:09:00</b>		<b>000T00:00:01</b>	<b>2015-353T04:09:01</b>				
CIRS 228RH COMPLBL002 PRIME	C, M, U, V	2015-353T04:09:00		000T04:00:00	2015-353T08:09:00	CIRS_FP1 to Rhea	NEG_X to 208.0/70.0	Pick up at ISS_NAC to Enceladus, NEG_Z to Earth; Hand off at CIRS_FP1 to Rhea, NEG_X to 208.0/70.0.	
CDA 228DR RADCOM001 PRIME	V	2015-353T08:09:00		000T03:51:00	2015-353T12:00:00	NEG_X to NSP	NEG_Z to 295.7/1.7	Pick up at CIRS_FP1 to Rhea, NEG_X to 208.0/70.0; Hand off at CIRS_FP1 to Rhea, NEG_X to 208.0/70.0.	
ISS 228AG_AEGAEON001_PIE	C, M, U, V	2015-353T12:00:00		000T01:30:00	2015-353T13:30:00	ISS_NAC to Rocks	POS_Z to 140.0/50.0	Pick up at CIRS_FP1 to Rhea, NEG_X to 208.0/70.0; Hand off at ISS_NAC to Rocks, NEG_X to NSP. Collaborative Rider(s): CIRS	
228AG (nt) AEGAEON Inbound...		2015-353T12:59:11		000T00:00:01	2015-353T12:59:12				
CIRS 228DI DIONE001 PRIME	M, U, V	2015-353T13:30:00	GMB_E228_ENCELADUS_E22-000T04:19:17	000T01:15:00	2015-353T14:45:00	CIRS_FP3 to Dione	NEG_X to NSP	Pick up at ISS_NAC to Rocks, NEG_X to NSP; Hand off at ISS_NAC to Enceladus, NEG_Z to Earth.	
Periapse R = 2.566 Rs, lat ...		2015-353T14:09:06		000T00:00:01	2015-353T14:09:07				
<b>End Custom</b>		<b>2015-353T14:45:00</b>		<b>000T00:00:01</b>	<b>2015-353T14:45:01</b>				
CIRS 228EN ENCELINB001 PIE	E, I, M, U, V	2015-353T14:45:00	GMB_E228_ENCELADUS_E22-000T03:04:17	000T02:20:00	2015-353T17:05:00	ISS_NAC to Enceladus	NEG_Z to Earth	Collaborative Rider(s): ISS. include mosaics for ISS	
CIRS 228EN ALPBOOC001 PIE	M, U, V	2015-353T17:05:00	GMB_E228_ENCELADUS_E22-000T00:44:17	000T00:18:00	2015-353T17:23:00	VIMS_IR to 213.915/19.183	NEG_Z to Earth	Arcturus plume occultation for VIMS	
CIRS 228EN ENCELOUTB001 PIE	E, I, M, U, V	2015-353T17:23:00	GMB_E228_ENCELADUS_E22-000T00:26:17	000T02:52:00	2015-353T20:15:00	ISS_NAC to Enceladus	NEG_Z to Earth	Collaborative Rider(s): ISS	
228EN (t) E22 ENCELADUS Ou...		2015-353T17:49:17		000T00:00:01	2015-353T17:49:18				
ISS 228EN PLUMED01 PIE	M, U, V	2015-353T20:15:00		000T02:00:00	2015-353T22:15:00	ISS_NAC to Enceladus	NEG_X to NSP	SOST PIE	
SP 228EA DLTURN353 PRIME	M	2015-353T22:15:00		000T00:17:00	2015-353T22:32:00	XBAND to Earth	POS_X to NEP		
SP 228EA C70METNON353 PRIME	M	2015-353T22:32:00		000T03:37:00	2015-354T02:09:00	XBAND to Earth	POS_X to NEP		
SP 228OT WAYPTTURN354 PRIME	M	2015-354T02:09:00		000T00:26:00	2015-354T02:35:00	ISS_NAC to 84.054/-1.202	POS_Z to 174.9/-33.0		
<b>NEW WAYPOINT</b>		<b>2015-354T02:35:00</b>		<b>000T10:47:00</b>	<b>2015-354T13:22:00</b>	<b>ISS_NAC to 84.054/-1.202</b>	<b>POS_Z to 174.9/-33.0</b>		
ISS 228EN PLUMED02 PIE	M, U, V	2015-354T02:35:00		000T02:00:00	2015-354T04:35:00	ISS_NAC to Enceladus	NEG_X to NSP	SOST PIE	
CIRS 228DI COMPLBL001 PRIME	C, I, M, U, V	2015-354T04:35:00		000T05:00:00	2015-354T09:35:00	CIRS_FP1 to Dione	NEG_X to NSP	Collaborative Rider(s): ISS	
UVIS 228ST EPSORI001 PIE	M, V	2015-354T09:35:00		000T03:25:00	2015-354T13:00:00	UVIS_FUV to 84.054/-1.202	POS_Z to 174.9/-33.0		
SP 228EA DLTURN354 PRIME	M	2015-354T13:00:00		000T00:22:00	2015-354T13:32:00	XBAND to Earth	NEG_Y to 191.0/5.6		
<b>NEW WAYPOINT</b>		<b>2015-354T13:32:00</b>		<b>000T19:02:00</b>	<b>2015-355T08:24:00</b>	<b>XBAND to Earth</b>	<b>NEG_Y to 191.0/5.6</b>		
ISS 228OT HATSID026 PRIME	M, V	2015-354T13:32:00		000T05:22:00	2015-354T18:44:00	UVIS_FUV to Rocks	NEG_Z to Earth		
ENGR 228SC KPTYBIAS354 PRIME		2015-354T18:44:00		000T01:30:00	2015-354T20:14:00	POS_Z to DELTA_H (0.0,0.0,76.998 deg. offset)	NEG_X to Sun		
SP 228EA C70METNON354 PRIME	C, E	2015-354T20:14:00		000T06:15:00	2015-355T02:29:00	XBAND to Earth	Rolling		
SP 228EA M70METNON355 PRIME	C	2015-355T05:14:00		000T02:30:00	2015-355T07:44:00	XBAND to Earth	NEG_Y to 191.0/5.6		
SOST 230 Segment		2016-014T02:16:00		001T09:45:00	2016-015T12:01:00				
SP 230EN WAYPTTURN014 PRIME	M	2016-014T02:16:00		000T00:36:00	2016-014T02:52:00	ISS_NAC to Enceladus	NEG_X to NSP	CIRS heating	
<b>NEW WAYPOINT</b>		<b>2016-014T02:52:00</b>		<b>000T11:20:00</b>	<b>2016-014T14:12:00</b>	<b>ISS_NAC to Enceladus</b>	<b>NEG_X to NSP</b>		
ISS 230EN ENCEL001 PIE	C, M, U, V	2016-014T02:52:00		000T01:08:00	2016-014T04:00:00	ISS_NAC to Enceladus	NEG_X to NSP	Collaborative Rider(s): CIRS	
ISS 230MI MIMAS001 PIE	C, M, U, V	2016-014T04:00:00		000T03:00:00	2016-014T07:00:00	ISS_NAC to Mimas	NEG_X to NSP	Collaborative Rider(s): CIRS	
Periapse R = 2.566 Rs, lat ...		2016-014T06:56:21		000T00:00:01	2016-014T06:56:22				
ISS 230DA DAPHNIS001 PIE	C, M, U, V	2016-014T07:00:00		000T02:00:00	2016-014T09:00:00	ISS_NAC to Daphnis	NEG_X to NSP	Collaborative Rider(s): CIRS	
ISS 230EN PLUMED01 PIE	M, U, V	2016-014T09:00:00		000T02:00:00	2016-014T11:00:00	ISS_NAC to Enceladus (0.017, -30.998, 0.037 deg. offset)	NEG_X to NSP	SOST PIE	
ISS 230TL TELEST0001 PRIME	C, M, U, V	2016-014T11:00:00		000T02:00:00	2016-014T13:00:00	ISS_NAC to Telesto	NEG_X to NSP	Collaborative Rider(s): CIRS	
ISS 230EN PLUMED02 PRIME	C, M, U, V	2016-014T13:00:00		000T00:59:00	2016-014T13:59:00	ISS_NAC to Enceladus (-0.011, 16.002, 0.049 deg. offset)	NEG_X to NSP	SOST PIE	
SP 230ST WAYPTTURN414 PRIME	M	2016-014T13:59:00		000T00:13:00	2016-014T14:12:00	ISS_NAC to 84.054/-1.202	POS_Z to 174.9/-33.0		
<b>NEW WAYPOINT</b>		<b>2016-014T14:12:00</b>		<b>000T08:29:00</b>	<b>2016-014T22:41:00</b>	<b>ISS_NAC to 84.054/-1.202</b>	<b>POS_Z to 174.9/-33.0</b>		
CIRS 230TE COMPLBL001 PRIME	C, I, M, U, V	2016-014T14:12:00		000T04:00:00	2016-014T18:12:00	CIRS_FP1 to Tethys	NEG_Z to 16.79/30.22	Collaborative Rider(s): ISS	
ISS 230OT NARSUP054 PRIME	M, V	2016-014T18:12:00		000T02:53:00	2016-014T21:05:00	UVIS_FUV to Rocks	POS_X to 236.0/13.0		
UVIS 230ST EPSORI001 PIE	M, V	2016-014T21:05:00		000T01:10:00	2016-014T22:15:00	UVIS_FUV to 84.054/-1.202	POS_Z to 174.9/-33.0		
SP 230EA DLTURN014 PRIME	M	2016-014T22:15:00		000T00:26:00	2016-014T22:41:00	XBAND to Earth	NEG_X to NEP		
<b>NEW WAYPOINT</b>		<b>2016-014T22:41:00</b>		<b>000T14:00:00</b>	<b>2016-015T12:41:00</b>	<b>XBAND to Earth</b>	<b>NEG_X to NEP</b>		
SP 230EA C70METNON14 PRIME	M	2016-014T22:41:00		000T03:50:00	2016-015T02:31:00	XBAND to Earth	NEG_X to NEP	Added downlink.	
ENGR 230SC KPTYBIAS015 PRIME	M	2016-015T02:31:00		000T01:30:00	2016-015T04:01:00	NEG_Z to DELTA_H (0.0,0.0,24.999 deg. offset)	NEG_X to Sun		
SP 230EA M70METNON15 PRIME	C, E, M	2016-015T04:01:00		000T03:10:00	2016-015T07:11:00	XBAND to Earth	Rolling	CAPS_NEG_X to 40.6/83.5 (NSP) or NEP.	
SP 230EA M34BWGNON15 PRIME	C, M	2016-015T07:11:00		000T04:20:00	2016-015T11:31:00	XBAND to Earth	Rolling	CAPS_NEG_X to 40.6/83.5 (NSP) or NEP.	
SOST 246 Segment		2016-296T01:01:00		002T06:30:00	2016-298T07:31:00				
SP 246SA WAYPTTURN296 PRIME		2016-296T01:01:00		000T00:28:00	2016-296T01:29:00	UVIS_FUV to Saturn	POS_Z to 192.0/38.0		
<b>NEW WAYPOINT</b>		<b>2016-296T01:29:00</b>		<b>000T13:47:00</b>	<b>2016-296T15:16:00</b>	<b>UVIS_FUV to Saturn</b>	<b>POS_Z to 192.0/38.0</b>		
UVIS 246EN ICYLN001 PIE		2016-296T01:29:00		000T02:11:00	2016-296T03:40:00	UVIS_FUV to Enceladus	POS_Z to 192.0/38.0		
ISS 246RH GLOCOLN02 PRIME	C, U, V	2016-296T03:40:00		000T01:05:00	2016-296T04:45:00	ISS_NAC to Rhea	POS_Z to 192.0/38.0	Collaborative Rider(s): CIRS. Team-internal hand-off: No return to WP.	
ISS 246DI GLOCOLN03 PRIME	C, U, V	2016-296T04:45:00		000T01:25:00	2016-296T06:10:00	ISS_NAC to Dione	POS_Z to 192.0/38.0	Collaborative Rider(s): CIRS. Team-internal hand-off: Pick-up at Rhea.	
UVIS 246ST URZETCEN001 PIE	C	2016-296T06:10:00		000T05:40:00	2016-296T11:50:00	UVIS_FUV to 208.885/-47.288	POS_Z to 192.0/38.0		
ISS 246TE GLOCOLN04 PRIME	C, U, V	2016-296T11:50:00		000T01:40:00	2016-296T13:30:00	UVIS_FUV to Tethys	POS_Z to 192.0/38.0	Collaborative Rider(s): CIRS. Internal handoff, no return to waypoint	
ISS 246EN GLOCOLN05 PRIME	C, U, V	2016-296T13:30:00		000T01:16:00	2016-296T14:46:00	UVIS_FUV to Enceladus	POS_Z to 192.0/38.0	Collaborative Rider(s): CIRS. Team internal pickup at ISS_NAC to Tethys, POS_Z to 192/38	
SP 246EA DLTURN296 PRIME		2016-296T14:46:00		000T00:30:00	2016-296T15:16:00	XBAND to Earth	NEG_Y to 336.2/14.6		

NEW WAYPOINT		2016-296T15:16:00		001T05:45:00	2016-297T21:01:00	XBAND to Earth	NEG_Y to 336.2/14.6	
ENGR_246SC_KPTYBIAS296_PRIME		2016-296T15:16:00		000T01:30:00	2016-296T16:46:00	POS_Z to DELTA_H (0,0,0.0,-90.0 deg. offset)	NEG_X to Sun	
SP_246EA_G34HEFNON296_PRIME	C	2016-296T16:46:00		000T04:15:00	2016-296T21:01:00	XBAND to Earth	Rolling	secondary is NEG_Y to 336.2/14.6
Begin Custom		2016-296T21:01:00		000T00:00:01	2016-296T21:01:01			
ISS_246TE_GLOCOLN006_PRIME	C, U, V	2016-296T21:01:00		000T01:30:00	2016-296T22:31:00	ISS_NAC to Tethys	NEG_Z to Sun	Pick up at XBAND to Earth, NEG_Y to 336.2/14.6; Hand off at ISS_NAC to Tethys, NEG_Z to Sun. Collaborative Rider(s): CIRS
CIRS_246MI_COMPGLBL001_PRIME	C, I, M, U, V	2016-296T22:31:00		000T07:29:00	2016-297T06:00:00	CIRS_FP1 to Mimas	PIC	
Periapse R = 5.622 Rs, lat ...		2016-297T03:39:57		000T00:00:01	2016-297T03:39:58			
CIRS_246RI_TDIFSOUTH001_PIE	C, E, U	2016-297T06:00:00		000T03:00:00	2016-297T09:00:00	CIRS_FP1 to Rings	NEG_Z to Sun	Pick up at ISS_NAC to Mimas, NEG_Z to Sun; Hand off at ISS_NAC to Dione, NEG_Z to Sun.
ISS_246DI_PLUMSEAR001_PRIME	C, U, V	2016-297T09:00:00		000T03:45:00	2016-297T12:45:00	ISS_NAC to Dione	NEG_Z to Sun	Pick up at ISS_NAC to Dione, NEG_Z to Sun; Hand off at ISS_NAC to Dione, NEG_Z to Sun.
CIRS_246RH_COMPGLBL001_PRIME	C, U, V	2016-297T12:45:00		000T08:11:00	2016-297T20:56:00	CIRS_FP1 to Rhea	NEG_Z to Sun	Pick up at ISS_NAC to Dione, NEG_Z to Sun; Hand off at XBAND to Earth, NEG_Y to 170.0/5.0.
SP_246EA_DLTURN297_PRIME		2016-297T20:56:00		000T00:05:00	2016-297T21:01:00	XBAND to Earth	NEG_Y to 170.0/5.0	Pick up at XBAND to Earth, NEG_Y to 170.0/5.0; Hand off at XBAND to Earth, NEG_Y to 170.0/5.0.
NEW WAYPOINT		2016-297T21:01:00		000T10:59:00	2016-298T08:00:00	XBAND to Earth	NEG_Y to 170.0/5.0	
End Custom		2016-297T21:01:00		000T00:00:01	2016-297T21:01:01			
ENGR_246SC_KPTYBIAS297_PRIME		2016-297T21:01:00		000T01:30:00	2016-297T22:31:00	NEG_Z to DELTA_H (0,0,0.0,8.0 deg. offset)	NEG_X to Sun	
SP_246EA_C70METNQN297_PRIME	C	2016-297T22:31:00		000T09:00:00	2016-298T07:31:00	XBAND to Earth	Rolling	
SOST_250 Segment		2016-331T05:43:00		002T23:45:00	2016-334T05:28:00			
SP_250SA_WAYPTTURN331_PRIME		2016-331T05:43:00		000T00:40:00	2016-331T06:23:00	ISS_NAC to Saturn	POS_X to 191.5/34.4	RBOT friendly
NEW WAYPOINT		2016-331T06:23:00		000T23:06:00	2016-332T05:29:00	ISS_NAC to Saturn	POS_X to 191.5/34.4	
ISS_250OT_SUTSUP046_PRIME		2016-331T06:23:00		000T02:20:00	2016-331T08:43:00	UVIS_FUV to Rocks	POS_Z to Earth	
CIRS_250RI_ETACAROC001_PRIME	C, V	2016-331T08:43:00		000T11:17:00	2016-331T20:00:00	UVIS_FP3 to 161.262/-59.686	POS_X to SC_N Orbit Pole	
UVIS_250DI_ICYLON001_PRIME	C, I, V	2016-331T20:00:00		000T02:30:00	2016-331T22:30:00	UVIS_FUV to Dione	POS_X to 191.5/34.4	Collaborative Rider(s): CIRS, ISS, VIMS
UVIS_250TE_ICYLON001_PRIME	C, I, V	2016-331T22:30:00		000T02:30:00	2016-332T01:00:00	UVIS_FUV to Tethys	POS_X to NEP	Collaborative Rider(s): CIRS, ISS, VIMS
CIRS_250EN_NORTHPOLE001_PRIME	U, V	2016-332T01:00:00		000T02:00:00	2016-332T03:00:00	CIRS_FP3 to Enceladus	POS_X to 191.5/34.4	Collaborative Rider(s): VIMS
RADAR_250EN_ENCEL001_PIE		2016-332T03:00:00		000T02:00:00	2016-332T05:00:00	NEG_Z to Enceladus (0,0,0.0,-17.0 deg. offset)	NEG_Y to Saturn	
SP_250EN_WAYPTTURN332_PRIME		2016-332T05:00:00		000T00:29:00	2016-332T05:29:00	ISS_NAC to Enceladus	NEG_Z to Sun	
NEW WAYPOINT		2016-332T05:29:00		000T04:46:00	2016-332T10:15:00	ISS_NAC to Enceladus	NEG_Z to Sun	
ISS_250EN_ENCELNPOL001_PIE	C, E, M, U, V	2016-332T05:29:00		000T01:46:00	2016-332T07:15:00	ISS_NAC to Enceladus	NEG_Z to Sun	Collaborative Rider(s): CIRS, VIMS
CIRS_250EN_ENCELSPOL001_PRIME	I, M, U, V	2016-332T07:15:00		000T02:40:00	2016-332T09:55:00	CIRS_FP3 to Enceladus	NEG_Z to Sun	Collaborative Rider(s): ISS, VIMS
Periapse R = 3.621 Rs, lat ...		2016-332T07:53:59		000T00:00:01	2016-332T07:54:00			
SP_250EA_DLTURN332_PRIME		2016-332T09:55:00		000T00:20:00	2016-332T10:15:00	XBAND to Earth	NEG_X to 325.95/-23.94	
NEW WAYPOINT		2016-332T10:15:00		001T01:25:00	2016-333T11:40:00	XBAND to Earth	NEG_X to 325.95/-23.94	
SP_250EA_M34UNQOTP332_PRIME	C, E, N	2016-332T10:15:00		000T09:00:00	2016-332T19:15:00	XBAND to Earth	4 Hr Rolling	Was CAPS, is NEG_X to 325.95/-23.94 from DLWG
SP_250EA_G70METOTB332_PRIME	C, M, N	2016-332T19:15:00		000T03:35:00	2016-332T22:50:00	XBAND to Earth	Rolling	CAPS.same secondary as OTP pass.OTB.
SP_250EA_C70METOTB332_PRIME	C, M, N, R	2016-332T22:50:00		000T05:10:00	2016-333T04:00:00	XBAND to Earth	2 Hr Rolling	same secondary as OTP pass.OTB.
RSS_250RI_OCC001_PIE	N	2016-333T04:00:00		000T07:22:00	2016-333T11:22:00	XBAND to Earth	NEG_X to 325.95/-23.94	
SP_250EA_DLTURN333_PRIME		2016-333T11:22:00		000T00:18:00	2016-333T11:40:00	XBAND to Earth	NEG_Y to 166.0/0.0	
NEW WAYPOINT		2016-333T11:40:00		000T18:28:00	2016-334T06:08:00	XBAND to Earth	NEG_Y to 166.0/0.0	
ISS_250OT_SUTROT048_PRIME		2016-333T11:40:00		000T08:18:00	2016-333T19:58:00	UVIS_FUV to Rocks	NEG_Z to Sun	
ENGR_250SC_KPTYBIAS333_PRIME		2016-333T19:58:00		000T01:30:00	2016-333T21:28:00	POS_Z to DELTA_H (0,0,0.0,-9.0 deg. offset)	NEG_X to Sun	
SP_250EA_C34BWGNON333_PRIME	C, R	2016-333T21:28:00		000T06:40:00	2016-334T04:08:00	XBAND to Earth	Rolling	MIMI, NEG_Y to Saturn (0,0,-9.5).
SOST_258_259 Segment		2017-025T19:45:00		006T11:54:00	2017-032T07:39:00			
SP_258EA_DLTURN025_PRIME		2017-025T19:45:00		000T00:20:00	2017-025T20:05:00	XBAND to Earth	NEG_Y to 153.0/-41.0	
NEW WAYPOINT		2017-025T20:05:00		005T12:11:00	2017-031T08:16:00	XBAND to Earth	NEG_Y to 153.0/-41.0	
ISS_258OT_TAQROTAD048_PRIME	U, V	2017-025T20:05:00		000T03:25:00	2017-025T23:30:00	UVIS_FUV to Rocks	NEG_Z to 54.0/-13.0	Team-internal handoff at Enceladus. In case of severe RBOT problems on DOY205/026, this request has lowest priority.
ISS_258EN_PLUMED001_PRIME	U, V	2017-025T23:30:00		000T09:00:00	2017-026T08:30:00	ISS_NAC to Enceladus	NEG_X to NSP	SOST
ISS_258OT_PAAPOLA112_PRIME	V	2017-026T08:30:00		000T07:16:00	2017-026T15:46:00	UVIS_FUV to Rocks	NEG_Z to 54.0/-13.0	Team-internal pickup at Enceladus.
SP_258EA_YGAP026_PRIME		2017-026T15:46:00		000T01:30:00	2017-026T17:16:00	XBAND to Earth	NEG_Y to 153.0/-41.0	
SP_258EA_C34BWGSEQ026_PRIME	C	2017-026T17:16:00		000T09:00:00	2017-027T02:16:00	XBAND to Earth	Rolling	
ISS_258OT_TAQROTBD048_PRIME	V	2017-027T02:16:00		000T06:22:00	2017-027T08:38:00	UVIS_FUV to Rocks	NEG_Z to 54.0/-13.0	Team-internal handoff at Tarqeq.
Apoapse Per = 7.2 d, inc = ...		2017-027T07:24:51		000T00:00:01	2017-027T07:24:52			
ISS_259OT_PAAPOLB111_PRIME	V	2017-027T08:38:00		000T07:00:00	2017-027T15:38:00	UVIS_FUV to Rocks	NEG_Z to 54.0/-13.0	Team-internal pickup at Tarqeq. Two-way turn from Tarqeq to Paaliaq via Messier 7 (RA/Dec = 268.46 deg/-34.79 deg).
SP_259EA_C70METSEQ027_PRIME		2017-027T15:38:00		000T02:25:00	2017-027T18:03:00	XBAND to Earth	Rolling	MIMI, NEG_Y to Saturn (0,0,-9.5)
SP_259EA_C34BWGSEQ027_PRIME	C	2017-027T18:03:00		000T05:30:00	2017-028T02:08:00	XBAND to Earth	Rolling	MIMI, NEG_Y to Saturn (0,0,-9.5)
ISS_259OT_ALBPOL064_PRIME	U, V	2017-028T02:08:00		000T13:30:00	2017-028T15:38:00	UVIS_FUV to Rocks (-0.082,0,0.0 deg. offset)	NEG_Z to Earth	
SP_259EA_YGAP028_PRIME		2017-028T15:38:00		000T01:30:00	2017-028T17:08:00	XBAND to Earth	NEG_Y to 153.0/-41.0	
SP_259EA_C34BWGSEQ028_PRIME	C	2017-028T17:08:00		000T09:00:00	2017-029T02:08:00	XBAND to Earth	Rolling/SRU	SRU, MIMI, NEG_Y to Saturn (0,0,-9.5)
ISS_259TI_M90R2CLD029_PRIME	C, V	2017-029T02:08:00	E259 M90R2CLD029+000T00:00:00	000T01:30:00	2017-029T03:38:00	ISS_NAC to Titan	NEG_Z to 54.0/-13.0	Team-internal Handoff at ISS_NAC to Titan/NEG_Z to 54/-13
ISS_259OT_PAAPOLC106_PRIME	V	2017-029T03:38:00		000T08:58:00	2017-029T12:36:00	UVIS_FUV to Rocks	NEG_Z to 54.0/-13.0	Team-internal pickup at Titan, handoff at Paaliaq.
ISS_259OT_TAQROTCD048_PRIME	V	2017-029T12:36:00		000T01:18:00	2017-029T13:54:00	UVIS_FUV to Rocks	NEG_Z to 54.0/-13.0	Team-internal pickup at Paaliaq. In case of severe RBOT problems on DOY029, this request has lowest priority.
ENGR_259SC_KPTYBIAS029_PRIME		2017-029T13:54:00		000T01:30:00	2017-029T15:24:00	NEG_Z to DELTA_H (0,0,0.0,90.0 deg. offset)	NEG_X to Sun	
SP_259EA_G70METSEQ029_PRIME	C	2017-029T15:24:00		000T02:45:00	2017-029T18:09:00	XBAND to Earth	Rolling/SRU	SRU, MIMI, NEG_Y to Saturn (0,0,-9.5)
SP_259EA_C34BWGSEQ029_PRIME	C	2017-029T18:09:00		000T04:10:00	2017-029T22:19:00	XBAND to Earth	Rolling/SRU	SRU, MIMI, NEG_Y to Saturn (0,0,-9.5)
SP_259EA_C70METSEQ029_PRIME	C	2017-029T23:43:00		000T03:55:00	2017-030T03:38:00	XBAND to Earth	Rolling/SRU	SRU, MIMI, NEG_Y to Saturn (0,0,-9.5)
Begin Custom		2017-030T03:38:00		000T00:00:01	2017-030T03:38:01			
ISS_259EN_ENCELNP001_PRIME	C, U, V	2017-030T03:38:00		000T02:40:00	2017-030T06:18:00	ISS_NAC to Enceladus	NEG_Z to Sun	Pick up at XBAND to Earth, NEG_Y to 153.0/-41.0; Hand off at ISS_NAC to Enceladus, NEG_Z to Sun. Collaborative Rider(s): CIRS
ISS_259TE_TETHYS001_PRIME	C, U, V	2017-030T06:18:00		000T01:27:00	2017-030T07:45:00	ISS_NAC to Tethys	NEG_Z to Sun	Pick up at ISS_NAC to Enceladus, NEG_Z to Sun; Hand off at ISS_NAC to Tethys, NEG_Z to Sun. Collaborative Rider(s): CIRS
UVIS_259SA_AURSLW001_PIE	C, V	2017-030T07:45:00		000T11:00:00	2017-030T18:45:00	UVIS_FUV to Saturn	POS_Z to NSP	Pick up at ISS_NAC to Tethys, NEG_Z to Sun; Hand off at ISS_NAC to Tethys, NEG_Z to Sun.
ISS_259TE_REDTETHYS001_PIE	C, M, U, V	2017-030T18:45:00		000T00:37:00	2017-030T19:22:00	ISS_NAC to Tethys	NEG_Z to Sun	Pick up at ISS_NAC to Tethys, NEG_Z to Sun; Hand off at ISS_NAC to Tethys, NEG_Z to Sun. Collaborative Rider(s): CIRS
ISS_259EP_EPIMETHEU001_PIE	C, M, U, V	2017-030T19:22:00		000T01:50:00	2017-030T21:12:00	ISS_NAC to Epimetheus	NEG_Z to Sun	Pick up at ISS_NAC to Tethys, NEG_Z to Sun; Hand off at ISS_NAC to Mimas, NEG_Z to Sun. Collaborative Rider(s): CIRS, UVIS
259EP (t) E2 EPIMETHEUS I ...		2017-030T21:02:28		000T00:00:01	2017-030T21:02:29			
ISS_259MI_MIMASSPO01_PRIME	C, M, U, V	2017-030T21:12:00		000T02:08:00	2017-030T23:20:00	ISS_NAC to Mimas	NEG_Z to Sun	Pick up at ISS_NAC to Mimas, NEG_Z to Sun; Hand off at ISS_NAC to 140.0/63.25, NEG_Z to Sun. Collaborative Rider(s): CIRS
Periapse R = 2.466 Rs, lat ...		2017-030T21:23:31		000T00:00:01	2017-030T21:23:32			
CIRS_259EN_SP004_PIE	I, U, V	2017-030T23:20:00		000T08:40:00	2017-031T08:00:00	ISS_NAC to 140.0/63.25	NEG_Z to Sun	Pick up at ISS_NAC to 140.0/63.25, NEG_Z to Sun; Hand off at CIRS_FP3 to Enceladus, NEG_Z to Sun. Collaborative Rider(s): ISS
SP_259EA_DLTURN031_PRIME		2017-031T08:00:00		000T00:16:00	2017-031T08:16:00	XBAND to Earth	NEG_Y to NSP	Pick up at CIRS_FP3 to Enceladus, NEG_Z to Sun; Hand off at XBAND to Earth, NEG_Y to NSP.
NEW WAYPOINT		2017-031T08:16:00		001T00:03:00	2017-032T08:19:00	XBAND to Earth	NEG_Y to NSP	
End Custom		2017-031T08:16:00		000T00:00:01	2017-031T08:16:01			
SP_259EA_M34HEFNON031_PRIME	C, M	2017-031T08:16:00		000T03:00:00	2017-031T11:16:00	XBAND to Earth	Rolling	MAG Range 1 - Roll Requested. SRU.
CIRS_259RH_COMPGLBL001_PRIME	V	2017-031T11:16:00		000T05:00:00	2017-031T16:16:00	CIRS_FP1 to Rhea	NEG_Z to Earth	
ISS_259OT_TAQROTBD048_PRIME	V	2017-031T16:16:00		000T03:00:00	2017-031T19:16:00	UVIS_FUV to Rocks	POS_X to NEP	
SP_259EA_YGAP031_PRIME		2017-031T19:16:00		000T01:30:00	2017-031T20:46:00	XBAND to Earth	NEG_Y to NSP	
SP_259EA_C34BWGNON031_PRIME		2017-031T20:46:00		000T01:40:00	2017-031T22:26:00	XBAND to Earth	Rolling	MIMI, NEG_Y to Saturn (0,0,-9.5)
SP_259EA_C70METSEQ031_PRIME		2017-031T23:46:00		000T04:00:00	2017-032T03:46:00	XBAND to Earth	Rolling	
SP_259EA_M70METNQN032_PRIME	C, E	2017-032T03:46:00		000T03:53:00	2017-032T07:39:00	XBAND to Earth	Rolling/Bias	



SOST_276 Segment		2017-149T11:59:00		002T06:23:00	2017-151T18:22:00				
SP_276RA_WAYPTTURN149_PRIME		2017-149T11:59:00		000T00:25:00	2017-149T12:24:00	ISS_NAC to 93.0/9.0	NEG_X to NEP		
NEW WAYPOINT		2017-149T12:24:00		000T13:35:00	2017-150T01:59:00	ISS_NAC to 93.0/9.0	NEG_X to NEP		
ISS_276EN_PLUMED01_PIE	C, U, V	2017-149T12:24:00		000T01:51:00	2017-149T14:15:00	ISS_NAC to Enceladus	NEG_X to NEP	SOST PIE	
UVIS_276ST_URGAMOR001_PRIME	C	2017-149T14:15:00		000T04:15:00	2017-149T18:30:00	UVIS_HSP to 81.283/6.35	NEG_X to NEP		
ISS_276TI_M150R2HZ149_PRIME	C, V	2017-149T18:30:00	E276_M150R2HZ149+000T00:00:00	000T01:30:00	2017-149T20:00:00	ISS_NAC to Titan	NEG_X to NEP		
ISS_276EN_PLUMED02_PIE	C, U, V	2017-149T20:00:00		000T05:19:00	2017-150T01:19:00	ISS_NAC to Enceladus	NEG_X to NEP	SOST PIE	
SP_276EA_DLTURN150_PRIME		2017-150T01:19:00		000T00:40:00	2017-150T01:59:00	XBAND to Earth	NEG_X to NEP		
NEW WAYPOINT		2017-150T01:59:00		002T05:45:00	2017-152T07:44:00	XBAND to Earth	NEG_X to NEP		
ENGR_276SC_KPTYBIAS150_PRIME		2017-150T01:59:00		000T01:30:00	2017-150T03:29:00	NEG_Z to DELTA_H (0.0,0.0,-80.0 deg. offset)	NEG_X to Sun		
SP_276EA_G70METNON150_PRIME	C	2017-150T03:29:00		000T08:30:00	2017-150T11:59:00	XBAND to Earth	Rolling		
ISS_276IA_LOWPHASE011_PRIME	C, U, V	2017-150T11:59:00		000T02:52:00	2017-150T14:51:00	UVIS_FUV to Iapetus	NEG_X to NEP	Collaborative Rider(s): CIRs	
UVIS_276EN_ICYEXO001_PIE	C, J, V	2017-150T14:51:00		000T01:04:00	2017-150T15:55:00	UVIS_FUV to 84.687/-2.6	POS_X to 352.0/-50.0	Collaborative Rider(s): CIRs, ISS. Actual occ is from 15:23:34.7 to 15:24:30.3.	
ISS_276OT_BEBPOLO50_PRIME	U, V	2017-150T15:55:00		000T17:27:00	2017-151T09:22:00	UVIS_FUV to Rocks	NEG_Z to Earth		
SP_276EA_C34BWGNON151_PRIME	C	2017-151T09:22:00		000T09:00:00	2017-151T18:22:00	XBAND to Earth	Rolling/Bias	No YGAP per ISS request for full rotation period for Bebio. Rolling/bias, at apoapse.	
SOST_286 Segment		2017-212T14:16:00		002T16:56:00	2017-215T07:12:00				
Begin Custom		2017-212T14:16:00		000T00:00:01	2017-212T14:16:01				
UVIS_286SA_AURSLW001_PIE	C, M, V	2017-212T14:16:00		000T14:53:00	2017-213T05:09:00	UVIS_FUV to Saturn	POS_Z to NSP	Pick up at XBAND to Earth (0.0,0.0,-9.5 deg. offset), NEG_Y to Saturn; Hand off at POS_X to 280.0/60.0, VIMS_IR to Saturn.	
VIMS_286SA_AURSTARE001_PRIME	C, M, U	2017-213T05:09:00		000T04:20:00	2017-213T09:29:00	VIMS_IR to Saturn	NEG_X to NSP	Pick up at POS_X to 280.0/60.0, VIMS_IR to Saturn; Hand off at CIRs_FP3 to Enceladus, NEG_X to Sun.	
Periapse R = 1.046 Rs, lat ...		2017-213T06:09:11		000T00:00:01	2017-213T06:09:12				
Begin Dual Playback Science		2017-213T09:29:00		000T00:00:01	2017-213T09:29:01				
CIRs_286EN_SPOLE001_PRIME	I, U, V	2017-213T09:29:00		000T03:40:00	2017-213T13:09:00	CIRs_FP3 to Enceladus	NEG_X to Sun	Pick up at CIRs_FP3 to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun. Collaborative Rider(s): ISS	
End Dual Playback Science		2017-213T13:09:00		000T00:00:01	2017-213T13:09:01				
CIRs_286EN_SP007_PIE	I, U, V	2017-213T13:09:00		000T03:11:00	2017-213T16:20:00	ISS_NAC to Enceladus	NEG_X to Sun	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at ISS_NAC to Enceladus, NEG_X to Sun. Collaborative Rider(s): ISS	
ISS_286DI_PLUMESAR011_PRIME	C, U, V	2017-213T16:20:00		000T05:05:00	2017-213T21:25:00	UVIS_FUV to Dione	NEG_X to NSP	Pick up at ISS_NAC to Enceladus, NEG_X to Sun; Hand off at XBAND to Earth, NEG_X to 177.0/16.0.	
SP_286EA_DLTURN213_PRIME		2017-213T21:25:00		000T00:02:00	2017-213T21:27:00	XBAND to Earth	NEG_X to 177.0/16.0	Pick up at XBAND to Earth, NEG_X to 177.0/16.0; Hand off at XBAND to Earth, NEG_X to 177.0/16.0.	
NEW WAYPOINT		2017-213T21:27:00		001T00:00:00	2017-214T21:27:00	XBAND to Earth	NEG_X to 177.0/16.0		
End Custom		2017-213T21:27:00		000T00:00:01	2017-213T21:27:01				
SP_286EA_YGAP213_PRIME		2017-213T21:27:00		000T01:30:00	2017-213T22:57:00	XBAND to Earth	NEG_X to 77.0/16.0		
SP_286EA_G70METNON213_PRIME	C	2017-214T00:57:00		000T06:30:00	2017-214T07:27:00	XBAND to Earth	Rolling	CDA prograde NEG_X to 177/16	
Pointer Reset		2017-214T07:27:00		000T00:00:01	2017-214T07:27:01				
ISS_286EN_PLUMED01_PIE	C, U, V	2017-214T07:27:00		000T12:48:00	2017-214T20:15:00	ISS_NAC to Enceladus	NEG_X to NSP	Team-internal handoff: Pickup at WP, handoff at ISS_NAC to Enceladus (NEG_X to NSP)	
ISS_286DI_PLUMESAR012_PRIME	C, U, V	2017-214T20:15:00		000T01:06:00	2017-214T21:21:00	UVIS_FUV to Dione	NEG_X to NSP	Team-internal handoff: Pickup at ISS_NAC to Enceladus (NEG_X to NSP), handoff at WP.	
SP_286EA_DLTURN214_PRIME		2017-214T21:21:00		000T00:06:00	2017-214T21:27:00	XBAND to Earth	NEG_X to 171.0/1.0	CDA prograde NEG_X to 171/1	
NEW WAYPOINT		2017-214T21:27:00		000T10:25:00	2017-215T07:52:00	XBAND to Earth	NEG_X to 171.0/1.0		
ENGR_286SC_KPTYBIAS214_PRIME		2017-214T21:27:00		000T01:30:00	2017-214T22:57:00	NEG_Z to DELTA_H (0.0,0.0,90.0 deg. offset)	NEG_X to Sun		
SP_286EA_G70METNON214_PRIME	C	2017-215T00:57:00		000T06:15:00	2017-215T07:12:00	XBAND to Earth	Rolling	CDA Prograde NEG_X to 171/1	