

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
Sequence S72, length = 73 days		2012-024T22:55:00		072T12:52:00	2012-097T11:47:00			
SATURN_160 Segment		2012-024T22:55:00		004T23:46:00	2012-029T22:41:00			
SP_160EA_S72IVP024_PRIME		2012-024T22:55:00		000T00:06:00	2012-024T23:01:00	XBAND to Earth	NEG_Y to 295.7/11.7	S72 IVP Gap
SP_160EA_WAYPTTURN024_PRIME	I	2012-024T23:01:00		000T00:40:00	2012-024T23:41:00	ISS_NAC to Saturn	NEG_X to 45.4/82.1	
NEW WAYPOINT		2012-024T23:41:00		000T22:45:00	2012-025T22:26:00	ISS_NAC to Saturn	NEG_X to 45.4/82.1	
ISS_160TI_M90R3CLD024_PRIME	C, I, V	2012-024T23:41:00	E160_M90R3CLD024+000T00:00:00	000T01:30:00	2012-025T01:11:00	ISS_NAC to Titan	NEG_X to 45.4/82.1	No Preference to secondary pointing
NAV_160SK_OPNAV251_PRIME		2012-025T01:11:00		000T01:30:00	2012-025T02:41:00	ISS_NAC to Satellites	NEG_X to 45.4/82.1	Starts at waypoint, ends at same waypoint
UVIS_160SA_EUVFUV002_PRIME	I	2012-025T02:41:00		000T16:00:00	2012-025T18:41:00	UVIS_FUV to Saturn	NEG_X to 45.4/82.1	
VIMS_160SA_REGMAP001_PRIME	I	2012-025T18:41:00		000T03:05:00	2012-025T21:46:00	ISS_NAC to Saturn	NEG_X to 45.4/82.1	
SP_160EA_DLTURN025_PRIME		2012-025T21:46:00		000T00:40:00	2012-025T22:26:00	XBAND to Earth	NEG_Y to 298.3/-4.9	
NEW WAYPOINT		2012-025T22:26:00		000T11:10:00	2012-026T09:36:00	XBAND to Earth	NEG_Y to 298.3/-4.9	
SP_160EA_YBIAS025_PRIME	E	2012-025T22:26:00		000T01:30:00	2012-025T23:56:00	XBAND to Earth	NEG_Y to 298.3/-4.9	
SP_160EA_M34HEFNON025_PRIME	C	2012-025T23:56:00		000T09:00:00	2012-026T08:56:00	XBAND to Earth	5 Hr Rolling	NEG_Y to Saturn (0.0,-9.5), MIMI
SP_160EA_WAYPTTURN026_PRIME		2012-026T08:56:00		000T00:40:00	2012-026T09:36:00	ISS_NAC to Saturn	NEG_X to 45.4/82.1	
NEW WAYPOINT		2012-026T09:36:00		001T02:35:00	2012-027T12:11:00	ISS_NAC to Saturn	NEG_X to 45.4/82.1	
ISS_160SA_EMASCAN002_PRIME	C, V	2012-026T09:36:00		000T14:55:00	2012-027T00:31:00	ISS_NAC to Saturn	NEG_X to NSP	
CIRS_160SA_FIRMAP001_PRIME		2012-027T00:31:00		000T11:00:00	2012-027T11:31:00	CIRS_FP1 to Saturn	NEG_X to 45.4/82.1	
SP_160EA_DLTURN027_PRIME		2012-027T11:31:00		000T00:40:00	2012-027T12:11:00	XBAND to Earth	NEG_Y to 300.0/-10.0	
NEW WAYPOINT		2012-027T12:11:00		000T11:10:00	2012-027T23:21:00	XBAND to Earth	NEG_Y to 300.0/-10.0	
SP_160EA_YBIAS027_PRIME	E	2012-027T12:11:00		000T01:30:00	2012-027T13:41:00	XBAND to Earth	NEG_Y to 300.0/-10.0	
SP_160EA_C70METNON027_PRIME	C	2012-027T13:41:00		000T09:00:00	2012-027T22:41:00	XBAND to Earth	Rolling/SRU	NEG_X to NEP or NSP, CAPS - changed to allow a safe turn
SP_160EA_WAYPTTURN027_PRIME		2012-027T22:41:00		000T00:40:00	2012-027T23:21:00	ISS_NAC to Saturn (0.0,0.0,10.0 deg. offset)	NEG_X to 45.4/82.1	
NEW WAYPOINT		2012-027T23:21:00		001T13:40:00	2012-029T13:01:00	ISS_NAC to Saturn (0.0,0.0,10.0 deg. offset)	NEG_X to 45.4/82.1	
VIMS_160SA_DEEPPDYNO01_PIE	C, M	2012-027T23:21:00		000T11:00:00	2012-028T10:21:00	ISS_NAC to Saturn	NEG_X to NSP	PIE
RADAR_160SA_GLOBALMAP002_PIE		2012-028T10:51:00		000T14:00:00	2012-029T00:51:00	NEG_Z to Saturn	POS_Y to NSP	
Periapse R = 4.418 Rs, lat ...		2012-028T18:29:57		000T00:00:01	2012-028T18:29:58			
VIMS_160SA_DEEPPDYNO02_PIE	M	2012-029T01:21:00		000T11:00:00	2012-029T12:21:00	ISS_NAC to Saturn	NEG_X to NSP	PIE
SP_160EA_DLTURN029_PRIME		2012-029T12:21:00		000T00:25:00	2012-029T12:46:00	XBAND to Earth	NEG_Y to NEP	
SP_160EA_DLTURN429_PRIME		2012-029T12:46:00		000T00:15:00	2012-029T13:01:00	XBAND to Earth	POS_X to NEP	
NEW WAYPOINT		2012-029T13:01:00		000T10:20:00	2012-029T23:21:00	XBAND to Earth	POS_X to NEP	
SP_160EA_YBIAS029_PRIME	E	2012-029T13:01:00		000T00:40:00	2012-029T13:41:00	XBAND to Earth	POS_X to NEP	
SP_160EA_C70METNON029_PRIME	C, E	2012-029T13:41:00		000T09:00:00	2012-029T22:41:00	XBAND to Earth	POS_X to NEP	POS_X to NEP or NSP, CAPS
Titan Flyby T81 Segment		2012-029T22:41:00		001T23:00:00	2012-031T21:41:00			
SP_160TI_WAYPTTURN029_PRIME		2012-029T22:41:00		000T00:40:00	2012-029T23:21:00	NEG_Y to Titan	POS_X to 276.0/-25.0	
NEW WAYPOINT		2012-029T23:21:00		001T05:50:00	2012-031T05:11:00	NEG_Y to Titan	POS_X to 276.0/-25.0	
SP_160NA_DEADTIME029_PRIME		2012-029T23:21:00		000T00:15:01	2012-029T23:36:01	NEG_Y to Titan	POS_X to 276.0/-25.0	
CIRS_160TI_FIRNADCMP001_PRIME	I, V	2012-029T23:36:01	GMB_E160_TITAN_T81+000T14:03:47	000T05:03:47	2012-030T04:39:48	CIRS_FP1 to Titan	PIC	
UVIS_160TI_EUVFUV001_PRIME	C, V	2012-030T04:39:48	GMB_E160_TITAN_T81+000T09:00:00	000T06:45:00	2012-030T11:24:48	UVIS_FUV to Titan	POS_X to 276.0/-25.0	
ISS_160TI_HIRES001_PRIME	C, M, V	2012-030T11:24:48	GMB_E160_TITAN_T81+000T02:15:00	000T05:00:00	2012-030T16:24:48	ISS_NAC to Titan	NEG_X to Sun	
160TI (t) T81 TITAN Outbou...		2012-030T13:39:48		000T00:00:01	2012-030T13:39:49			
Begin Dual Playback Science		2012-030T14:24:48	GMB_E160_TITAN_T81+000T00:45:00	000T00:00:01	2012-030T14:24:49			
End Dual Playback Science		2012-030T16:09:48	GMB_E160_TITAN_T81+000T02:30:00	000T00:00:01	2012-030T16:09:49			
UVIS_160TI_EUVFUV002_PRIME	C, V	2012-030T16:24:48	GMB_E160_TITAN_T81+000T02:45:00	000T06:15:00	2012-030T22:39:48	UVIS_FUV to Titan	POS_X to 276.0/-25.0	No Preference to secondary pointing
CIRS_160TI_FIRNADCMP002_PRIME	I, V	2012-030T22:39:48	GMB_E160_TITAN_T81+000T09:00:00	000T05:36:13	2012-031T04:16:01	CIRS_FP1 to Titan	PIC	
SP_160NA_DEADTIME031_PRIME		2012-031T04:16:01	GMB_E160_TITAN_T81+000T14:36:13	000T00:14:59	2012-031T04:31:00	NEG_Y to Titan	POS_X to 276.0/-25.0	
SP_160NA_DLTURN031_PRIME		2012-031T04:31:00		000T00:40:00	2012-031T05:11:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
NEW WAYPOINT		2012-031T05:11:00		000T17:09:00	2012-031T22:20:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP_160EA_YBIAS031_PRIME	E	2012-031T05:11:00		000T01:30:00	2012-031T06:41:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP_160EA_G70METNON031_PRIME	C	2012-031T06:41:00		000T10:00:00	2012-031T16:41:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	Rolling/SRU	NEG_Y to Saturn (0.0,-9.5), MIMI
Pointer reset in preparatio...		2012-031T16:41:00		000T00:00:01	2012-031T16:41:01			
SP_160EA_C34HEFNON031_PRIME	C	2012-031T16:41:00		000T05:00:00	2012-031T21:41:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	Rolling	NEG_Y to Saturn (0.0,-9.5), MIMI/MAPS
XD_160_161 Segment		2012-031T21:41:00		017T17:18:00	2012-049T14:59:00			
SP_160SA_WAYPTTURN031_PRIME	M	2012-031T21:41:00		000T00:39:00	2012-031T22:20:00	NEG_Z to Titan	NEG_X to NTP	
NEW WAYPOINT		2012-031T22:20:00		000T07:07:00	2012-032T05:27:00	NEG_Z to Titan	NEG_X to NTP	
RADAR_160TI_RADIOCAL013_PRIME	M	2012-032T05:27:00		000T02:37:00	2012-032T03:57:00	NEG_Z to Titan	NEG_X to NTP	
SP_160EA_DLTURN032_PRIME	M	2012-032T04:42:00		000T00:45:00	2012-032T05:27:00	XBAND to Earth	NEG_X to 298.4/-3.0	
NEW WAYPOINT		2012-032T05:27:00		005T10:55:00	2012-037T16:22:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_YBIAS032_PRIME	E, M	2012-032T05:27:00		000T01:30:00	2012-032T06:57:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_G34B26NON032_PRIME	C, M, R	2012-032T06:57:00		000T09:00:00	2012-032T15:57:00	XBAND to Earth	6 Hr Rolling	NEG_X to (298.4/-3.0), CDA
CIRS_160TI_TEA002_PRIME	I, M, V	2012-032T15:57:00		001T07:30:00	2012-032T23:27:00	CIRS_FP2 to Titan	NEG_X to NTP	Collaborative Rider(s): ISS. no mosaics: Titan fits inside NAC
SP_160EA_M70METOTP033_PRIME	C, N	2012-033T23:27:00		000T09:00:00	2012-034T08:27:00	XBAND to Earth	4 Hr Rolling	NEG_X to (298.4, -3.0), CDA

CIRS_160TI_TEA003_PRIME	I, V	2012-034T08:27:00		000T15:00:00	2012-034T23:27:00	CIRS_FPB to Titan	NEG_Z to NTP	Collaborative Rider(s): ISS. no mosaics: Titan fits inside NAC
SP_160EA_M34BWGOTB034_PRIME	C, N	2012-034T23:27:00		000T09:00:00	2012-035T08:27:00	XBAND to Earth	4 Hr Rolling	same as OTP pass, CDA
CIRS_160TI_TEA004_PRIME	I, V	2012-035T08:27:00		000T20:45:00	2012-036T05:12:00	CIRS_FPB to Titan	NEG_Z to NTP	Collaborative Rider(s): ISS. no mosaics: Titan fits inside NAC
SP_160EA_YBIAS036_PRIME	E	2012-036T05:12:00		000T01:30:00	2012-036T06:42:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_G70METNON036_PRIME	C	2012-036T06:42:00		000T09:00:00	2012-036T15:42:00	XBAND to Earth	6 Hr Rolling	NEG_X to (298.4, -3.0), CDA
CDA_160DR_ISD0041003_PRIME		2012-036T15:42:00		000T13:30:00	2012-037T05:12:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_YBIAS037_PRIME	E	2012-037T05:12:00		000T01:30:00	2012-037T06:42:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_G34BWGNON037_PRIME	C	2012-037T06:42:00		000T04:00:00	2012-037T10:42:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to YBIASCALS
ENGR_160SC_YBIASCAL001_AACS	C	2012-037T10:42:00		000T01:30:00	2012-037T12:12:00	POS_Z to DELTA_H	NEG_X to Sun	
SP_160EA_G34BWGNON437_PRIME	C	2012-037T12:12:00		000T01:00:00	2012-037T13:12:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to YBIASCALS
ENGR_160SC_YBIASCAL002_AACS	C	2012-037T13:12:00		000T01:30:00	2012-037T14:42:00	POS_Z to DELTA_H	NEG_X to Sun	
SP_160EA_G34BWGNON537_PRIME	C	2012-037T14:42:00		000T01:00:00	2012-037T15:42:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to YBIASCALS
SP_160SA_WAYPTTURN037_PRIME	I	2012-037T15:42:00		000T00:40:00	2012-037T16:22:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
NEW WAYPOINT		2012-037T16:22:00		000T12:50:00	2012-038T05:12:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
ISS_160TI_M60R3CLD037_PRIME	C, I, V	2012-037T16:22:00	E160_M60R3CLD037+000T00:00:00	000T01:30:00	2012-037T17:52:00	ISS_NAC to Titan	NEG_X to 35.5/82.3	
ISS_160OT_SATELLORB006_PRIME	I, V	2012-037T17:52:00		000T01:00:00	2012-037T18:52:00	ISS_NAC to Satellites	NEG_X to 35.5/82.3	Must point within 30 deg of Saturn Center off R Ansa
ISS_160OT_LSTITAN037_PRIME	I, R, V	2012-037T18:52:00		000T09:40:00	2012-038T04:32:00	ISS_NAC to Rocks	NEG_X to 35.5/82.3	Must point within 30 deg of Saturn Center off R Ansa
SP_160EA_DLTRN038_PRIME	R	2012-038T04:32:00		000T00:40:00	2012-038T05:12:00	XBAND to Earth	NEG_X to 298.4/-3.0	
NEW WAYPOINT		2012-038T05:12:00		000T11:10:00	2012-038T16:22:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_YBIAS038_PRIME	E, R	2012-038T05:12:00		000T01:30:00	2012-038T06:42:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_G34BWGNON038_PRIME	C, M, R	2012-038T06:42:00		000T09:00:00	2012-038T15:42:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to RSS USOPIM
SP_160SA_WAYPTTURN038_PRIME	I, M	2012-038T15:42:00		000T00:40:00	2012-038T16:22:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
NEW WAYPOINT		2012-038T16:22:00		000T12:50:00	2012-039T05:12:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
ISS_160OT_SATELLORB007_PRIME	I, M, V	2012-038T16:22:00		000T01:00:00	2012-038T17:22:00	ISS_NAC to Satellites	NEG_X to 35.5/82.3	Must point within 30 deg of Saturn Center off R Ansa
CIRS_160TI_TEA005_PRIME	I, M, V	2012-038T17:22:00		000T11:10:00	2012-039T04:32:00	CIRS_FPB to Titan	NEG_X to NTP	Collaborative Rider(s): ISS. no mosaics: Titan fits inside NAC
SP_160EA_DLTRN039_PRIME	M	2012-039T04:32:00		000T00:40:00	2012-039T05:12:00	XBAND to Earth	NEG_X to 298.4/-3.0	
NEW WAYPOINT		2012-039T05:12:00		003T10:56:00	2012-042T16:08:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_YBIAS039_PRIME	E, M	2012-039T05:12:00		000T01:30:00	2012-039T06:42:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_G34HEFNON039_PRIME	C, E, M	2012-039T06:42:00		000T09:00:00	2012-039T15:42:00	XBAND to Earth	Rolling	NEG_X to (298.4, -3.0), CDA
ENGR_160SC_GYROCAB001_AACS	M	2012-039T15:42:00		000T04:00:00	2012-039T19:42:00	XBAND to Earth	NEG_X to 298.4/-3.0	
CDA_160DR_ISD0041004_PRIME	M	2012-039T19:42:00		000T09:16:00	2012-040T04:58:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_YBIAS040_PRIME	E, M	2012-040T04:58:00		000T01:30:00	2012-040T06:28:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_160EA_G34BWGNON040_PRIME	C, E, M	2012-040T06:28:00		000T09:00:00	2012-040T15:28:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AACS 2 of 3 Rule
Apoapse Per = 23.5 d, inc ...		2012-040T12:16:16		000T00:00:01	2012-040T12:16:17			
CDA_161DR_ISD0041001_PRIME		2012-040T15:28:00		000T07:00:00	2012-040T22:28:00	XBAND to Earth	NEG_X to 298.4/-3.0	
MAG_161SU_CALROLL001_PRIME		2012-040T22:28:00		000T08:00:00	2012-041T06:28:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	Rolling	
SP_161EA_G34B26OTPO41_PRIME	C, N	2012-041T06:28:00		000T09:00:00	2012-041T15:28:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AACS 2 of 3 Rule
CDA_161DR_ISD0041002_PRIME	M	2012-041T15:28:00		000T15:00:00	2012-042T06:28:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_G34HEFOTB042_PRIME	C, M, N	2012-042T06:28:00		000T09:00:00	2012-042T15:28:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AACS 2 of 3 Rule
SP_161SA_WAYPTTURN042_PRIME	I, M	2012-042T15:28:00		000T00:40:00	2012-042T16:08:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
NEW WAYPOINT		2012-042T16:08:00		000T12:50:00	2012-043T04:58:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
ISS_161OT_SATELLORB003_PRIME	I, M, V	2012-042T16:08:00		000T01:00:00	2012-042T17:08:00	ISS_NAC to Satellites	NEG_X to 35.5/82.3	Must point within 30 deg of Saturn Center off L Ansa
CIRS_161TI_TEA001_PRIME	I, M, V	2012-042T17:08:00		000T11:10:00	2012-043T04:18:00	CIRS_FPB to Titan	NEG_X to NTP	Collaborative Rider(s): ISS. no mosaics: Titan fits inside NAC
SP_161EA_DLTRN043_PRIME	M	2012-043T04:18:00		000T00:40:00	2012-043T04:58:00	XBAND to Earth	NEG_X to 298.4/-3.0	
NEW WAYPOINT		2012-043T04:58:00		001T17:56:00	2012-044T22:54:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_YBIAS043_PRIME	E, M	2012-043T04:58:00		000T01:30:00	2012-043T06:28:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_G34BWGNON043_PRIME	C, M	2012-043T06:28:00		000T09:00:00	2012-043T15:28:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AACS 2 of 3 Rule
CDA_161DR_ISD0041003_PRIME	M	2012-043T15:28:00		000T13:15:00	2012-044T04:43:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_YBIAS044_PRIME	E	2012-044T04:43:00		000T01:30:00	2012-044T06:13:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_G34HEFNON044_PRIME	C	2012-044T06:13:00		000T09:00:00	2012-044T15:13:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AACS 2 of 3 Rule
SP_161SA_WAYPTTURN044_PRIME	I	2012-044T22:54:00		000T00:40:00	2012-044T22:54:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
NEW WAYPOINT		2012-044T22:54:00		000T05:49:00	2012-045T04:43:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
NAV_161SK_OPNAV441_PRIME	I, V	2012-044T22:54:00		000T01:30:00	2012-045T00:24:00	ISS_NAC to Satellites	NEG_X to 35.5/82.3	Starts at waypoint, ends at same waypoint
ISS_161TI_M90R3CLD044_PRIME	C, I, V	2012-045T00:24:00	E161_M90R3CLD044+000T00:00:00	000T01:30:00	2012-045T01:54:00	ISS_NAC to Titan	NEG_X to 35.5/82.3	
ISS_161OT_SATELLORB005_PRIME	I, V	2012-045T01:54:00		000T02:06:00	2012-045T04:00:00	ISS_NAC to Satellites	NEG_X to 35.5/82.3	Must point within 30 deg of Saturn Center off L Ansa
SP_161EA_DLTRN045_PRIME		2012-045T04:00:00		000T00:43:00	2012-045T04:43:00	XBAND to Earth	NEG_X to 298.4/-3.0	

NEW WAYPOINT		2012-045T04:43:00		002T03:40:00	2012-047T08:23:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_YBIAS045_PRIME	E	2012-045T04:43:00		000T01:30:00	2012-045T06:13:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_G70METNON045_PRIME	C	2012-045T06:13:00		000T09:00:00	2012-045T15:13:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AAC5 2 of 3 Rule
CDA_161DR_ISD0041004_PRIME		2012-045T15:13:00		000T06:00:00	2012-045T21:13:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_YBIAS046_PRIME	E	2012-045T21:13:00		000T01:30:00	2012-045T22:43:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_M34BWGNON045_PRIME		2012-045T22:43:00		000T09:00:00	2012-046T07:43:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AAC5 2 of 3 Rule
CAPS_161CO_IONCALPTG001_PRIME		2012-046T07:43:00		000T04:00:00	2012-046T11:43:00	ISS_NAC to Saturn (-30.0,0.0,0.0 deg. offset)	NEG_X to 35.5/82.3	Secondary axis and offsets TBD for RBOT
CAPS_161CO_LLACORPTG002_PRIME		2012-046T11:43:00		000T11:00:00	2012-046T22:43:00	ISS_NAC to Saturn (-30.0,0.0,0.0 deg. offset)	NEG_X to 35.5/82.3	Secondary axis and TBD offsets for MIMI and RBOT
SP_161EA_M34HEFOTP046_PRIME	C, M, N	2012-046T22:43:00		000T09:00:00	2012-047T07:43:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AAC5 2 of 3 Rule
SP_161SA_WAYPTTURN047_PRIME	I, M	2012-047T07:43:00		000T00:40:00	2012-047T08:23:00	ISS_NAC to Saturn	NEG_Z to 35.5/82.3	
NEW WAYPOINT		2012-047T08:23:00		000T14:06:00	2012-047T22:29:00	ISS_NAC to Saturn	NEG_Z to 35.5/82.3	
ISS_161TI_M120RZH047_PRIME	C, I, M, V	2012-047T08:23:00	E161_M120RZH047+000T00:00:00	000T01:30:00	2012-047T09:53:00	ISS_NAC to Titan	NEG_Z to 35.5/82.3	
CIRS_161SA_COMPSIT001_PRIME	I, M, V	2012-047T09:53:00		000T12:00:00	2012-047T21:53:00	CIRS_FP1 to Saturn	NEG_Z to NSP	
SP_161EA_DLTRUN047_PRIME	M	2012-047T21:53:00		000T00:36:00	2012-047T22:29:00	XBAND to Earth	NEG_X to 298.4/-3.0	
NEW WAYPOINT		2012-047T22:29:00		000T09:41:00	2012-048T08:10:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_161EA_M34BWGOTB047_PRIME	C, E, M, N	2012-047T22:29:00		000T09:00:00	2012-048T07:29:00	XBAND to Earth	NEG_X to 298.4/-3.0	No Roll due to AAC5 2 of 3 Rule
SP_161SA_WAYPTTURN048_PRIME	I, M	2012-048T07:29:00		000T00:41:00	2012-048T08:10:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
NEW WAYPOINT		2012-048T08:10:00		000T20:19:00	2012-049T04:29:00	ISS_NAC to Saturn	NEG_X to 35.5/82.3	
ISS_161RE_ERNGVERT001_PRIME	C, I, M, V	2012-048T08:10:00		000T06:00:00	2012-048T14:10:00	ISS_NAC to Rings	NEG_X to 35.5/82.3	Must point within 30 deg of Saturn Center off L Ansa
ISS_161RE_ERNGVERT002_PRIME	C, I, M, V	2012-048T14:20:00		000T13:20:00	2012-049T03:40:00	ISS_NAC to Rings	NEG_X to 35.5/82.3	Violates AAC5 2 of 3 Rule. Per XDTWT negotiation, delete if RBOT violations occur.
SP_161EA_DLTRUN049_PRIME	M	2012-049T03:40:00		000T00:49:00	2012-049T04:29:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
NEW WAYPOINT		2012-049T04:29:00		000T11:10:00	2012-049T15:39:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP_161EA_YBIAS049_PRIME	E, M	2012-049T04:29:00		000T01:30:00	2012-049T05:59:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP_161EA_G70METNON049_PRIME	C, M	2012-049T05:59:00		000T09:00:00	2012-049T14:59:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	Rolling/SRU	NEG_Y to Saturn (0.0,-9.5), MIMI T82 integration assumes use of this secondary and offset
Titan Flyby T82 Segment		2012-049T14:59:00		001T16:45:00	2012-051T07:44:00			
SP_161TI_WAYPTTURN049_PRIME		2012-049T14:59:00		000T00:40:00	2012-049T15:39:00	NEG_Y to Titan	NEG_Z to Earth	
NEW WAYPOINT		2012-049T15:39:00		001T05:05:00	2012-050T20:44:00	NEG_Y to Titan	NEG_Z to Earth	
SP_161TI_DEADTIME049_PRIME		2012-049T15:39:00		000T00:15:00	2012-049T15:54:00	NEG_Y to Titan	NEG_Z to Earth	
CIRS_161TI_MIDIRTMAP001_PRIME	I, V	2012-049T15:54:00	GMB_E161_TITAN_T82-000T16:49:17	000T04:49:17	2012-049T20:43:17	CIRS_FP8 to Titan	PIC	
CIRS_161TI_FIRNADCMPO01_PRIME	I, V	2012-049T20:43:17	GMB_E161_TITAN_T82-000T12:00:00	000T02:00:00	2012-049T22:43:17	CIRS_FP1 to Titan	PIC	
ISS_161TI_MONITORNA001_PRIME	C, V	2012-049T22:43:17	GMB_E161_TITAN_T82-000T10:00:00	000T01:00:00	2012-049T23:43:17	ISS_NAC to Titan	NEG_X to Sun	Collaborative Rider(s): VIMS
CIRS_161TI_MIRLMBINT001_PRIME	I, U, V	2012-049T23:43:17	GMB_E161_TITAN_T82-000T09:00:00	000T04:00:00	2012-050T03:43:17	CIRS_FP8 to Titan	PIC	
CIRS_161TI_FIRNADMAP001_PRIME	I, V	2012-050T03:43:17	GMB_E161_TITAN_T82-000T05:00:00	000T02:45:00	2012-050T06:28:17	CIRS_FP1 to Titan	PIC	
CIRS_161TI_FIRLMBINT001_PRIME	I, M, V	2012-050T06:28:17	GMB_E161_TITAN_T82-000T02:15:00	000T01:00:00	2012-050T07:28:17	CIRS_FP1 to Titan	PIC	
CIRS_161TI_FIRLMBBAER001_PRIME	I, M, U, V	2012-050T07:28:17	GMB_E161_TITAN_T82-000T01:15:00	000T00:30:00	2012-050T07:58:17	CIRS_FP1 to Titan	PIC	
CIRS_161TI_FIRLMBT001_PRIME	I, M, V	2012-050T07:58:17	GMB_E161_TITAN_T82-000T00:45:00	000T00:45:00	2012-050T08:43:17	CIRS_FP1 to Titan	PIC	
161TI (t) T82 TITAN Inboun...		2012-050T08:43:17		000T00:00:01	2012-050T08:43:18			
CIRS_161TI_FIRLMBT002_PRIME	I, M, V	2012-050T08:43:17	GMB_E161_TITAN_T82+000T00:00:00	000T00:45:00	2012-050T09:28:17	CIRS_FP1 to Titan	PIC	
CIRS_161TI_FIRLMBBAER002_PRIME	I, M, U, V	2012-050T09:28:17	GMB_E161_TITAN_T82+000T00:45:00	000T00:30:00	2012-050T09:58:17	CIRS_FP1 to Titan	PIC	
CIRS_161TI_FIRLMBINT002_PRIME	I, M, V	2012-050T09:58:17	GMB_E161_TITAN_T82+000T01:15:00	000T01:00:00	2012-050T10:58:17	CIRS_FP1 to Titan	PIC	
CIRS_161TI_FIRNADMAP002_PRIME	I, V	2012-050T10:58:17	GMB_E161_TITAN_T82+000T02:15:00	000T02:45:00	2012-050T13:43:17	CIRS_FP1 to Titan	PIC	Collaborative Rider(s): VIMS. CIRS to point at Senkyo (330W, 0N) for VIMS if possible for 15 mins at +2:15 to +2:30.
CIRS_161TI_MIRLMBMAP002_PRIME	I, U, V	2012-050T13:43:17	GMB_E161_TITAN_T82+000T05:00:00	000T04:00:00	2012-050T17:43:17	CIRS_FP8 to Titan	PIC	
CIRS_161TI_FIRNADCMPO02_PRIME	I, V	2012-050T17:43:17	GMB_E161_TITAN_T82+000T09:00:00	000T02:05:43	2012-050T19:49:00	CIRS_FP1 to Titan	PIC	
SP_161TI_DEADTIME050_PRIME		2012-050T19:49:00	GMB_E161_TITAN_T82+000T11:05:43	000T00:15:00	2012-050T20:04:00	NEG_Y to Titan	NEG_Z to Earth	
SP_161EA_DLTRUN050_PRIME		2012-050T20:04:00		000T00:40:00	2012-050T20:44:00	XBAND to Earth	NEG_X to NEP	
NEW WAYPOINT		2012-050T20:44:00		000T11:51:00	2012-051T08:35:00	XBAND to Earth	NEG_X to NEP	
SP_161EA_YBIAS050_PRIME	E	2012-050T20:44:00		000T01:30:00	2012-050T22:14:00	XBAND to Earth	NEG_X to NEP	
SP_161EA_M70METNON050_PRIME	C	2012-050T22:14:00		000T09:30:00	2012-051T07:44:00	XBAND to Earth	NEG_X to NEP	NEG_X to NEP or NSP, CAPS
MAG_161_162 Segment		2012-051T07:44:00		017T12:17:00	2012-068T20:01:00			
SP_161SA_WAYPTTURN051_PRIME	M	2012-051T07:44:00		000T00:43:00	2012-051T08:27:00	ISS_NAC to Saturn (0.0,25.0,10.0 deg. offset)	NEG_X to NSP	pt 1 of 2
SP_161SA_WAYPTTURN451_PRIME	M	2012-051T08:27:00		000T00:08:00	2012-051T08:35:00	ISS_NAC to Saturn (0.0,0.0,10.0 deg. offset)	NEG_X to NSP	pt 2 of 2
NEW WAYPOINT		2012-051T08:35:00		001T02:09:00	2012-052T10:44:00	ISS_NAC to Saturn (0.0,0.0,10.0 deg. offset)	NEG_X to NSP	
UVIS_161SA_AURSTARE001_PRIME	C, I, M	2012-051T08:35:00		000T09:10:00	2012-051T17:45:00	UVIS_FUV to Saturn	NEG_X to NSP	Collaborative Rider(s): CIRS
ISS_161EN_PLMHPMR001_PIE	M, U	2012-051T17:45:00		000T07:50:00	2012-052T01:35:00	ISS_NAC to Enceladus	NEG_X to NSP	Collaborative Rider(s): CIRS. SOST PIE. Combines two PIEs; sun in FOV 21:20-21:45
INIMS_161SA_RINGPLND001_PRIME	M	2012-052T01:35:00		000T02:02:00	2012-052T03:37:00	NEG_X to Dust_RAM	ISS_NAC to South Pole_Dir	

VIMS_161SA_ALPCMAOCC001_PIE	C, M	2012-052T03:37:00		000T03:44:00	2012-052T07:21:00	VIMS_IR to 101.287/-16.716	PIC	Collaborative Rider(s): CIRS
Periapse R = 3.231 Rs, lat ...		2012-052T05:22:33		000T00:00:01	2012-052T05:22:34			
VIMS_161SA_ALPHYAOCC001_PIE	C, M	2012-052T07:21:00		000T02:43:00	2012-052T10:04:00	VIMS_IR to 141.897/-8.659	PIC	Collaborative Rider(s): CIRS
SP_161EA_DLTURNO52_PRIME	M	2012-052T10:04:00		000T00:26:00	2012-052T10:30:00	XBAND to Earth (0.0,0.0,20.0 deg. offset)	POS_X to NSP	pt 1 of 2
SP_161EA_DLTURNA52_PRIME	M	2012-052T10:30:00		000T00:14:00	2012-052T10:44:00	XBAND to Earth	POS_X to NSP	pt 2 of 2
NEW WAYPOINT		2012-052T10:44:00		000T11:10:00	2012-052T11:54:00	XBAND to Earth	POS_X to NSP	
SP_161EA_YBIAS052_PRIME	E, M	2012-052T10:44:00		000T01:30:00	2012-052T12:14:00	XBAND to Earth	POS_X to NSP	
SP_161EA_C70METNON052_PRIME	C, E, M	2012-052T12:14:00		000T09:00:00	2012-052T21:14:00	XBAND to Earth	Rolling/SRU	NEG_X to NEP or NSP, CAPS
SP_161SA_WAYPTTURN052_PRIME	M	2012-052T21:14:00		000T00:40:00	2012-052T21:54:00	ISS_NAC to Saturn	NEG_Z to NSP	
NEW WAYPOINT		2012-052T21:54:00		003T22:36:00	2012-056T20:30:00	ISS_NAC to Saturn	NEG_Z to NSP	
CAPS_161SA_EQIMAGPTG001_PIE	M	2012-052T21:54:00		000T10:51:00	2012-053T08:45:00	ISS_NAC to Saturn (0.0,0.0,-22.5 deg. offset)	NEG_Z to NSP	
UVIS_161SA_AURSTARE002_PRIME	C, M	2012-053T08:45:00		000T12:49:00	2012-053T21:34:00	UVIS_FUV to Saturn	NEG_X to NSP	Collaborative Rider(s): CIRS
SP_161EA_DLTURNO53_PRIME	M	2012-053T21:34:00		000T00:40:00	2012-053T22:14:00	XBAND to Earth	POS_X to NSP	
SP_161EA_M34BWGOTP053_PRIME	C, M, N	2012-053T22:14:00		000T09:00:00	2012-054T07:14:00	XBAND to Earth	4_Hr_Rolling	update secondary during integration
SP_161SA_WAYPTTURN054_PRIME	I, M, V	2012-054T07:14:00		000T00:40:00	2012-054T07:54:00	ISS_NAC to Saturn	NEG_Z to NSP	
CAPS_161CO_LLACORPTG004_PRIME	M	2012-054T07:54:00		000T13:25:00	2012-054T21:19:00	ISS_NAC to Saturn (0.0,0.0,-22.5 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
SP_161EA_DLTURNO54_PRIME	M	2012-054T21:19:00		000T00:40:00	2012-054T21:59:00	XBAND to Earth	POS_X to NSP	
SP_161EA_M70METOTB054_PRIME	C, M, N	2012-054T21:59:00		000T09:00:00	2012-055T06:59:00	XBAND to Earth	Rolling	update secondary during integration
SP_161SA_WAYPTTURN055_PRIME	I, M, V	2012-055T06:59:00		000T00:40:00	2012-055T07:39:00	ISS_NAC to Saturn	NEG_Z to NSP	
ISS_161TI_M60R3CLD055_PRIME	C, I, M, V	2012-055T07:39:00	E161_M60R3CLD055+000T00:00:00	000T01:30:00	2012-055T09:09:00	ISS_NAC to Titan	NEG_Z to NSP	No Preference to secondary pointing
CAPS_161CO_LLACORPTG005_PRIME	I, M, V	2012-055T09:09:00		000T10:35:00	2012-055T19:44:00	ISS_NAC to Saturn (0.0,0.0,-22.5 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
NAV_161SK_OPNAV551_PRIME	M	2012-055T19:44:00		000T01:30:00	2012-055T21:14:00	ISS_NAC to Satellites	NEG_Z to NSP	Starts at waypoint, ends at same waypoint
CAPS_161CO_LLACORPTG006_PRIME	I, M, V	2012-055T21:14:00		000T22:36:00	2012-056T19:50:00	ISS_NAC to Saturn (0.0,0.0,-22.5 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
SP_161EA_DLTURNO56_PRIME	M	2012-056T19:50:00		000T00:40:00	2012-056T20:30:00	XBAND to Earth	POS_X to NSP	
NEW WAYPOINT		2012-056T20:30:00		012T00:11:00	2012-068T20:41:00	XBAND to Earth	POS_X to NSP	
SP_161EA_YBIAS056_PRIME	E, M	2012-056T20:30:00		000T01:30:00	2012-056T22:00:00	XBAND to Earth	POS_X to NSP	
SP_161EA_M34BWGNON056_PRIME	C, M	2012-056T22:00:00		000T09:00:00	2012-057T07:00:00	XBAND to Earth	Rolling	update secondary during integration
CAPS_161CO_LLACORPTG007_PRIME	M	2012-057T07:00:00		000T21:00:00	2012-058T04:00:00	NEG_X to Earth (0.0,-30.0,-10.0 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
SP_161EA_YBIAS058_PRIME	E, M	2012-058T04:00:00		000T01:30:00	2012-058T05:30:00	XBAND to Earth	POS_X to NSP	
SP_161EA_G70METNON058_PRIME	C, M	2012-058T05:30:00		000T09:00:00	2012-058T14:30:00	XBAND to Earth	Rolling	update secondary during integration
CAPS_161CO_LLACORPTG008_PRIME	M	2012-058T14:30:00		001T13:15:00	2012-060T03:45:00	NEG_X to Earth (0.0,-30.0,-15.0 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
SP_161EA_YBIAS060_PRIME	E, M	2012-060T03:45:00		000T01:30:00	2012-060T05:15:00	XBAND to Earth	POS_X to NSP	
SP_161EA_G34BWGNON060_PRIME	C, M	2012-060T05:15:00		000T09:00:00	2012-060T14:15:00	XBAND to Earth	Rolling/SRU	update secondary during integration
ISS_161TI_M90R3CLD060_PRIME	C, M, V	2012-060T14:15:00	E161_M90R3CLD060+000T00:00:00	000T01:30:00	2012-060T15:45:00	ISS_NAC to Titan	NEG_X to Sun	
CAPS_161CO_LLACORPTG009_PRIME	M	2012-060T15:45:00		001T12:00:00	2012-062T03:45:00	NEG_X to Earth (0.0,-30.0,-20.0 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
Apoapse Per = 17.9 d, inc ...		2012-061T03:51:08		000T00:00:01	2012-061T03:51:09			
SP_162EA_YBIAS062_PRIME	E, M	2012-062T03:45:00		000T01:30:00	2012-062T05:15:00	XBAND to Earth	POS_X to NSP	
SP_162EA_G70METNON062_PRIME	C, M	2012-062T05:15:00		000T09:00:00	2012-062T14:15:00	XBAND to Earth	Rolling/SRU	update secondary during integration
ISS_162TI_M120R2HZ062_PRIME	C, M, V	2012-062T14:15:00	E162_M120R2HZ062+000T00:00:00	000T01:30:00	2012-062T15:45:00	ISS_NAC to Titan	NEG_X to Sun	
ISS_162OT_THRRTO71_PRIME	M	2012-062T15:45:00		000T18:00:00	2012-063T09:45:00	UVIS_FUV to Rocks	NEG_Z to Earth	
MAG_162SU_CALROLL002_PRIME	M	2012-063T09:45:00		000T07:00:00	2012-063T16:45:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	Rolling	
CAPS_162CO_LLACORPTG002_PRIME	M	2012-063T16:45:00		000T10:45:00	2012-064T03:30:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
SP_162EA_YBIAS064_PRIME	E, M	2012-064T03:30:00		000T01:30:00	2012-064T05:00:00	XBAND to Earth	POS_X to NSP	
SP_162EA_G34BWGNON064_PRIME	C, M	2012-064T05:00:00		000T09:00:00	2012-064T14:00:00	XBAND to Earth	Rolling/SRU	update secondary during integration
CAPS_162CO_LLACORPTG003_PRIME	M	2012-064T14:00:00		000T22:00:00	2012-065T12:00:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
CAPS_162CO_IONCALPTG001_PRIME	M	2012-065T12:00:00		000T04:00:00	2012-065T16:00:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	NEG_Z to NSP	Secondary axis and offsets TBD for RBOT
UVIS_162SA_AURSTARE001_PRIME	I, M	2012-065T16:00:00		000T11:16:00	2012-066T03:16:00	UVIS_FUV to Saturn	NEG_X to NSP	Saturn is 105.7 deg. from Earth
SP_162EA_YBIAS066_PRIME	E, M	2012-066T03:16:00		000T01:30:00	2012-066T04:46:00	XBAND to Earth	POS_X to NSP	
SP_162EA_G70METNON066_PRIME	C, M	2012-066T04:46:00		000T09:00:00	2012-066T13:46:00	XBAND to Earth	Rolling/SRU	update secondary during integration
UVIS_162SA_AURSTARE002_PRIME	I, M	2012-066T13:46:00		000T11:15:00	2012-067T01:01:00	UVIS_FUV to Saturn	NEG_X to NSP	Saturn is 101.1 deg. from Earth
CAPS_162CO_LLACORPTG004_PRIME	M	2012-067T01:01:00		000T02:15:00	2012-067T03:16:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
SP_162EA_YBIAS067_PRIME	E, M	2012-067T03:16:00		000T01:30:00	2012-067T04:46:00	XBAND to Earth	POS_X to NSP	
SP_162EA_G34BWGNON067_PRIME	C, M	2012-067T04:46:00		000T09:00:00	2012-067T13:46:00	XBAND to Earth	Rolling/SRU	update secondary during integration
UVIS_162SA_AURSTARE003_PRIME	I, M	2012-067T13:46:00		000T11:15:00	2012-068T01:01:00	UVIS_FUV to Saturn	NEG_X to NSP	Saturn is 94.5 deg. from Earth

CAPS_162CO_LLACORPTG005_PRIME	M	2012-068T01:01:00		000T08:30:00	2012-068T09:31:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	NEG_Z to NSP	Secondary axis and TBD offsets for MIMI and RBOT
SP_162EA_YBIAS068_PRIME	E, M	2012-068T09:31:00		000T01:30:00	2012-068T11:01:00	XBAND to Earth	POS_X to NSP	
SP_162EA_C70METNON068_PRIME	C, M	2012-068T11:01:00		000T09:00:00	2012-068T20:01:00	XBAND to Earth	Rolling/SRU	update secondary during integration
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 Preference to secondary pointing. 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	No Preference to secondary pointing. Pick-up at Jarnsaxa (team-internal hand-off)
ISS_162TI_M30R1CLD068_PRIME	C, V	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	No Preference to secondary pointing
SP_162EA_DLTURN069_PRIME		2012-069T17:51:00		000T00:25:00	2012-069T18:16:00	XBAND to Earth	NEG_X to NEP	
SP_162EA_C34HEFNON069_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_DUSTHAZR001_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_DLTURN070_PRIME	C, N	2012-070T00:25:00		000T00:21:00	2012-070T00:46:00	XBAND to Earth	POS_X to NSP	
SP_162EA_M34BWGOTP069_PRIME	C, N	2012-070T00:46:00		000T05:15:00	2012-070T06:01:00	XBAND to Earth	POS_X to NSP	
Periapse R = 3.245 Rs, lat ...		2012-070T02:13:19		000T00:00:01	2012-070T02:13:20			
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/-6.6	
ISS_162EN_ENCELO01_PRIME	C, U, V	2012-070T06:35:00		000T01:40:00	2012-070T08:15:00	ISS_NAC to Enceladus	NEG_Z to 123.6/-6.6	Collaborative Rider(s): CIR5, UVIS. No Preference to secondary pointing
ISS_162TI_M30R2CLD070_PRIME	C, V	2012-070T08:15:00	E162_M30R2CLD070+000T00:00:00	000T01:30:00	2012-070T09:45:00	ISS_NAC to Titan	NEG_Z to 123.6/-6.6	No Preference to secondary pointing
SP_162RH_WAYPTTURN070_PRIME		2012-070T09:45:00		000T00:40:00	2012-070T10:25:00	ISS_NAC to Rhea	POS_X to 230.5/-82.4	
NEW WAYPOINT		2012-070T10:25:00		000T20:35:00	2012-071T07:00:00	ISS_NAC to Rhea	POS_X to 230.5/-82.4	
CIR5_162RH_RHEA001_PRIME	I, U, V	2012-070T10:25:00		000T04:35:00	2012-070T15:00:00	CIR5_FP1 to Rhea	POS_X to 230.5/-82.4	
ISS_162RH_REGMAP001_PIE	C, M, U, V	2012-070T15:00:00		000T01:30:00	2012-070T16:30:00	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	2012-070T16:30:00		000T01:50:00	2012-070T18:20:00	ISS_NAC to Rhea	POS_X to 230.5/-82.4	
SP_162EA_DLTURN470_PRIME		2012-070T18:20:00		000T00:31:00	2012-070T18:51:00	XBAND to Earth	POS_X to NSP	Use 30 seconds turn margin, not 2 minutes (late secondary change after timeline integrated).
SP_162EA_C70METNON070_PRIME		2012-070T18:51:00		000T02:10:00	2012-070T21:01:00	XBAND to Earth	POS_X to NSP	
SP_162EA_M70METOTB070_PRIME	C, N	2012-070T21:01:00		000T09:00:00	2012-071T06:01:00	XBAND to Earth	Rolling	same as OTP pass, CAPS
XD_162_163_Segment		2012-071T06:01:00		015T12:46:00	2012-086T18:47:00			
SP_162SA_WAYPTTURN071_PRIME	I	2012-071T06:01:00		000T00:59:00	2012-071T07:00:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
NEW WAYPOINT		2012-071T07:00:00		000T20:01:00	2012-072T03:01:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
UVIS_162IC_ALPVIR002_PRIME	I, V	2012-071T07:00:00		000T03:00:00	2012-071T10:00:00	UVIS_FUV to 201.298/-11.161	POS_X to 120.08/37.158	Delete activity if RBOT violation occurs per XDTWT negotiation.
CIR5_162SA_COMP5IT001_PRIME	I, V	2012-071T10:00:00		000T12:00:00	2012-071T22:00:00	CIR5_FP1 to Saturn	NEG_Z to 37.2/83.7	
ISS_162TI_M30R3CLD071_PRIME	C, I, V	2012-071T22:00:00	E162_M30R3CLD071+000T00:00:00	000T01:30:00	2012-071T23:30:00	ISS_NAC to Titan	NEG_Z to 37.2/83.7	
ISS_162EN_MUTUALEVE001_PRIME	I, V	2012-071T23:30:00		000T01:30:00	2012-072T01:00:00	ISS_NAC to Enceladus	NEG_Z to 37.2/83.7	ISS_NAC to Enceladus control of secondary axis not required
ISS_162OT_SATELLORB003_PRIME	I, V	2012-072T01:00:00		000T01:00:00	2012-072T02:00:00	ISS_NAC to Satellites	NEG_Z to 37.2/83.7	Must point within 15 deg of Saturn Center
SP_162EA_DLTURN072_PRIME		2012-072T02:00:00		000T01:01:00	2012-072T03:01:00	XBAND to Earth	NEG_Y to 295.5/11.5	
NEW WAYPOINT		2012-072T03:01:00		001T11:10:00	2012-073T14:11:00	XBAND to Earth	NEG_Y to 295.5/11.5	
SP_162EA_YBIAS072_PRIME	E	2012-072T03:01:00		000T01:30:00	2012-072T04:31:00	XBAND to Earth	NEG_Y to 295.5/11.5	
SP_162EA_G34HEFNON072_PRIME	C	2012-072T04:31:00		000T09:00:00	2012-072T13:31:00	XBAND to Earth	NEG_Y to 295.5/11.5	No Roll due to AAC5 2 of 3 Rule
CDA_162DR_RETROGRAD001_PRIME		2012-072T13:31:00		000T13:30:00	2012-073T03:01:00	XBAND to Earth	NEG_Y to 295.5/11.5	
SP_162EA_YBIAS073_PRIME	E	2012-073T03:01:00		000T01:30:00	2012-073T04:31:00	XBAND to Earth	NEG_Y to 295.5/11.5	
SP_162EA_G34B2GNON073_PRIME	C	2012-073T04:31:00		000T09:00:00	2012-073T13:31:00	XBAND to Earth	NEG_Y to 295.5/11.5	No Roll due to AAC5 2 of 3 Rule
SP_162SA_WAYPTTURN073_PRIME	I	2012-073T13:31:00		000T00:40:00	2012-073T14:11:00	ISS_NAC to Saturn	NEG_X to 37.2/83.7	
NEW WAYPOINT		2012-073T14:11:00		000T19:05:00	2012-074T09:16:00	ISS_NAC to Saturn	NEG_X to 37.2/83.7	
ISS_162TI_M60R3CLD073_PRIME	C, I, V	2012-073T14:11:00	E162_M60R3CLD073+000T00:00:00	000T01:30:00	2012-073T15:41:00	ISS_NAC to Titan	NEG_X to 37.2/83.7	
ISS_162OT_SATELLORB005_PRIME	I, V	2012-073T15:41:00		000T01:00:00	2012-073T16:41:00	ISS_NAC to Satellites	NEG_X to 37.2/83.7	Must point within 15 deg of Saturn Center
MAG_162SU_CALROLL001_PRIME	I, V	2012-073T16:41:00		000T08:00:00	2012-074T00:41:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	Rolling	
ISS_162TE_MUTUALEVE002_PRIME	I, V	2012-074T00:41:00		000T01:49:00	2012-074T02:30:00	ISS_NAC to Tethys	NEG_X to 37.2/83.7	ISS_NAC to Tethys control of secondary axis not required
SP_162EA_DLTURN074_PRIME		2012-074T08:30:00		000T00:46:00	2012-074T09:16:00	XBAND to Earth	NEG_Y to 295.5/11.5	

NEW WAYPOINT		2012-074T09:16:00		000T11:00:00	2012-074T20:16:00	XBAND to Earth	NEG_Y to 295.5/11.5	
SP_162EA_YBIAS074_PRIME	E	2012-074T09:16:00		000T01:30:00	2012-074T10:46:00	XBAND to Earth	NEG_Y to 295.5/11.5	
SP_162EA_C70METNON074_PRIME	C	2012-074T10:46:00		000T09:00:00	2012-074T19:46:00	XBAND to Earth	NEG_Y to 295.5/11.5	No Roll due to AAC5 2 of 3 Rule
SP_162SA_WAYPTTURN074_PRIME	I	2012-074T19:46:00		000T00:30:00	2012-074T20:16:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
NEW WAYPOINT		2012-074T20:16:00		001T00:30:00	2012-075T20:46:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
CIRS_162SA_MIRMAP001_PRIME	I, V	2012-074T20:16:00		000T23:00:00	2012-075T19:16:00	CIRS_FP3 to Saturn	NEG_Z to 37.2/83.7	
ISS_162OT_SATELLOR006_PRIME	I, V	2012-075T19:16:00		000T01:00:00	2012-075T20:16:00	ISS_NAC to Satellites	NEG_Z to 37.2/83.7	Must point within 15 deg of Saturn Center
SP_162EA_DLTURN075_PRIME		2012-075T20:16:00		000T00:30:00	2012-075T20:46:00	XBAND to Earth	NEG_Y to 296.5/3.0	
NEW WAYPOINT		2012-075T20:46:00		001T09:14:00	2012-077T06:00:00	XBAND to Earth	NEG_Y to 296.5/3.0	
SP_162EA_M34BWGOTP075_PRIME	C, N	2012-075T20:46:00		000T09:00:00	2012-076T05:46:00	XBAND to Earth	NEG_Y to 296.5/3.0	No Roll due to AAC5 2 of 3 Rule
CDA_162DR_ISD0043003_PRIME		2012-076T05:46:00		000T14:45:00	2012-076T20:31:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_162EA_M34HEFOTB076_PRIME	C, M, N	2012-076T20:31:00		000T09:00:00	2012-077T05:31:00	XBAND to Earth	NEG_Y to 296.5/3.0	No Roll due to AAC5 2 of 3 Rule
SP_162SA_WAYPTTURN077_PRIME	I, M	2012-077T05:31:00		000T00:29:00	2012-077T06:00:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
NEW WAYPOINT		2012-077T06:00:00		001T13:02:00	2012-078T19:02:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
ISS_162OT_SATELLOR008_PRIME	I, M, V	2012-077T06:00:00		000T01:00:00	2012-077T07:00:00	ISS_NAC to Satellites	NEG_Z to 37.2/83.7	Must point within 15 deg of Saturn Center
UVIS_162SA_MOS162APO002_PRIME	I, M, V	2012-077T07:00:00		001T08:00:00	2012-078T15:00:00	ISS_NAC to Saturn	NEG_Z to 37.25/83.6	Must point within 15 deg of Saturn center.
SP_162EA_DLTURN078_PRIME	M	2012-078T18:32:00		000T00:30:00	2012-078T19:02:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
NEW WAYPOINT		2012-078T19:02:00		000T10:58:00	2012-079T06:00:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
SP_162EA_YBIAS078_PRIME	E, M	2012-078T19:02:00		000T01:30:00	2012-078T20:32:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
SP_162EA_M70METNON078_PRIME	C, M	2012-078T20:32:00		000T09:00:00	2012-079T05:32:00	XBAND to Earth	Rolling/SRU	NEG_Y to Saturn (0,0,-9.5), MIMI
Apoapse Per = 17.8 d, inc....		2012-078T23:54:47		000T00:00:01	2012-078T23:54:48			
SP_163SA_WAYPTTURN079_PRIME	I, M	2012-079T05:32:00		000T00:28:00	2012-079T06:00:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
NEW WAYPOINT		2012-079T06:00:00		000T20:32:00	2012-080T02:32:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
UVIS_163SA_MOS162APO003_PRIME	I, M, V	2012-079T06:00:00		000T16:00:00	2012-079T22:00:00	ISS_NAC to Saturn	NEG_Z to 37.25/83.6	Must point within 15 deg of Saturn center.
ISS_163OT_SATELLOR001_PRIME	I, M, V	2012-079T22:00:00		000T01:00:00	2012-079T23:00:00	ISS_NAC to Satellites	NEG_Z to 37.2/83.7	Must point within 15 deg of Saturn Center
ISS_163TI_M90R2CLD079_PRIME	C, I, M, V	2012-080T00:30:00	E163_M90R2CLD079+000T00:00:00	000T01:30:00	2012-080T02:00:00	ISS_NAC to Titan	NEG_Z to 37.2/83.7	
SP_163EA_DLTURN080_PRIME	M, V	2012-080T02:00:00		000T00:32:00	2012-080T02:32:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
NEW WAYPOINT		2012-080T02:32:00		001T10:55:00	2012-081T13:27:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
SP_163EA_YBIAS080_PRIME	E, M	2012-080T02:32:00		000T01:30:00	2012-080T04:02:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
SP_163EA_G34HEFNON080_PRIME	C, E, M	2012-080T04:02:00		000T09:00:00	2012-080T13:02:00	XBAND to Earth	NEG_Y to 297.0/-2.0	No Roll due to ENGR PEM
CDA_163DR_ISD0043001_PRIME	M, R	2012-080T13:02:00		000T13:15:00	2012-081T02:17:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_163EA_YBIAS081_PRIME	E, R	2012-081T02:17:00		000T01:30:00	2012-081T03:47:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
SP_163EA_G34BWGNON081_PRIME	C, R	2012-081T03:47:00		000T02:00:00	2012-081T05:47:00	XBAND to Earth	NEG_Y to 297.0/-2.0	No Roll due to RSS Boresight
RSS_163EA_BORESIGHT002_PRIME	C, R	2012-081T05:47:00		000T01:00:00	2012-081T06:47:00	XBAND to Earth	PIC	
SP_163EA_G34BWG2ND081_PRIME	C, R	2012-081T06:47:00		000T06:00:00	2012-081T12:47:00	XBAND to Earth	NEG_Y to 297.0/-2.0	No Roll due to RSS Boresight
SP_163SA_WAYPTTURN081_PRIME	I	2012-081T12:47:00		000T00:40:00	2012-081T13:27:00	ISS_NAC to Saturn	NEG_X to 37.2/83.7	
NEW WAYPOINT		2012-081T13:27:00		000T12:50:00	2012-082T02:17:00	ISS_NAC to Saturn	NEG_X to 37.2/83.7	
ISS_163OT_TITANL4081_PRIME	I, V	2012-081T13:27:00		000T12:10:00	2012-082T01:37:00	ISS_NAC to Rocks	NEG_X to 37.2/83.7	Delete activity if RBOT violation occurs per XDTWT negotiation.
SP_163EA_DLTURN082_PRIME		2012-082T01:37:00		000T00:40:00	2012-082T02:17:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
NEW WAYPOINT		2012-082T02:17:00		001T11:13:00	2012-083T13:30:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
SP_163EA_YBIAS082_PRIME	E	2012-082T02:17:00		000T01:30:00	2012-082T03:47:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
SP_163EA_G34HEFNON082_PRIME	C	2012-082T03:47:00		000T09:00:00	2012-082T12:47:00	XBAND to Earth	Rolling/SRU	NEG_Y to Saturn (0,0,-9.5), MIMI
CDA_163DR_ISD0043002_PRIME		2012-082T12:47:00		000T13:30:00	2012-083T02:17:00	XBAND to Earth	NEG_X to 298.4/-3.0	
SP_163EA_YBIAS083_PRIME	E	2012-083T02:17:00		000T01:30:00	2012-083T03:47:00	XBAND to Earth	NEG_Y to 297.0/-2.0	
SP_163EA_G34B2GNON083_PRIME	C	2012-083T03:47:00		000T09:00:00	2012-083T12:47:00	XBAND to Earth	Rolling/SRU	NEG_Y to Saturn (0,0,-9.5), MIMI
SP_163SA_WAYPTTURN083_PRIME	I	2012-083T12:47:00		000T00:43:00	2012-083T13:30:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
NEW WAYPOINT		2012-083T13:30:00		000T20:32:00	2012-084T10:02:00	ISS_NAC to Saturn	NEG_Z to 37.2/83.7	
ISS_163OT_SATELLOR005_PRIME	I, V	2012-083T13:30:00		000T02:00:00	2012-083T15:30:00	ISS_NAC to Satellites	NEG_Z to 37.2/83.7	Must point within 15 deg of Saturn Center
NAV_163SK_OPNAV831_PRIME	I, V	2012-083T15:30:00		000T01:30:00	2012-083T17:00:00	ISS_NAC to Satellites	NEG_Z to 37.2/83.7	Starts at waypoint, ends at same waypoint
UVIS_163SA_MOS162APO004_PRIME	I, V	2012-083T17:00:00		000T16:00:00	2012-084T09:00:00	ISS_NAC to Saturn	NEG_Z to 37.25/83.6	Must point within 15 deg of Saturn center.
SP_163EA_DLTURN084_PRIME		2012-084T09:00:00		000T01:02:00	2012-084T10:02:00	XBAND to Earth	NEG_Y to 297.5/-7.0	
NEW WAYPOINT		2012-084T10:02:00		000T09:58:00	2012-084T20:00:00	XBAND to Earth	NEG_Y to 297.5/-7.0	
SP_163EA_C34BWGOTP084_PRIME	C, M, N	2012-084T10:02:00		000T09:00:00	2012-084T19:02:00	XBAND to Earth	4_Hr_Rolling	NEG_Y to Saturn (0,0,-9.5)(change to RA/DEC equiv), MIMI
SP_163SA_WAYPTTURN084_PRIME	I, M	2012-084T19:02:00		000T00:58:00	2012-084T20:00:00	ISS_NAC to Saturn	NEG_X to 37.2/83.7	
NEW WAYPOINT		2012-084T20:00:00		000T13:47:00	2012-085T09:47:00	ISS_NAC to Saturn	NEG_X to 37.2/83.7	

ISS_163OT_SATELLOR006_PRIME	I, M, V	2012-084T20:00:00		000T02:00:00	2012-084T22:00:00	ISS_NAC to Satellites	NEG_X to 37.2/83.7	Must point within 15 deg of Saturn Center
UVIS_163SA_AURSLEW002_PRIME	I, M, V	2012-084T22:00:00		000T11:00:00	2012-085T09:00:00	UVIS_FUV to Saturn	NEG_X to 37.2/83.7	
SP_163EA_DLTURNO85_PRIME	M	2012-085T09:00:00		000T00:47:00	2012-085T09:47:00	XBAND to Earth	NEG_Y to 297.5/-7.0	
NEW WAYPOINT		2012-085T09:47:00		000T22:30:00	2012-085T08:17:00	XBAND to Earth	NEG_Y to 297.5/-7.0	
SP_163EA_C34BWGOTB085_PRIME	C, E, M, N	2012-085T09:47:00		000T09:00:00	2012-085T18:47:00	XBAND to Earth	4 Hr Rolling	same as OTP pass, MIMI
ISS_163RI_PHOEBEH001_PRIME	M	2012-085T18:47:00		000T13:00:00	2012-086T07:47:00	ISS_NAC to 210.6/-7.75	NEG_X to Sun	Delete activity if RBOT violation occurs per XDTWT negotiation.
SP_163EA_DLTURNO86_PRIME	M	2012-086T07:47:00		000T00:30:00	2012-086T08:17:00	XBAND to Earth	NEG_X to NEP	
NEW WAYPOINT		2012-086T08:17:00		000T11:10:00	2012-086T19:27:00	XBAND to Earth	NEG_X to NEP	
SP_163EA_YBIAS086_PRIME	E, M	2012-086T08:17:00		000T01:30:00	2012-086T09:47:00	XBAND to Earth	NEG_X to NEP	
SP_163EA_C70METNON086_PRIME	C, M	2012-086T09:47:00		000T09:00:00	2012-086T18:47:00	XBAND to Earth	NEG_X to NEP	NEG_X to NEP or NSP, CAPS
Enceladus Flyby E17 Segment		2012-086T18:47:00		002T23:45:00	2012-089T18:32:00			
SP_163TI_WAYPTTURN086_PRIME		2012-086T18:47:00		000T00:40:00	2012-086T19:27:00	ISS_NAC to Titan	NEG_X to 38.7/83.8	
NEW WAYPOINT		2012-086T19:27:00		000T06:10:00	2012-087T01:37:00	ISS_NAC to Titan	NEG_X to 38.7/83.8	
ISS_163TI_M60R2CLD086_PRIME	C, V	2012-086T19:27:00	E163_M60R2CLD086+000T00:00:00	000T01:30:00	2012-086T20:57:00	ISS_NAC to Titan	NEG_X to 38.7/83.8	No Preference to secondary pointing
ISS_163OT_LSITAN086_PRIME	V	2012-086T20:57:00		000T04:00:00	2012-087T00:57:00	ISS_NAC to Rocks	NEG_X to 38.7/83.8	
SP_163EA_DLTURNO87_PRIME		2012-087T00:57:00		000T00:40:00	2012-087T01:37:00	XBAND to Earth	NEG_X to NEP	
NEW WAYPOINT		2012-087T01:37:00		000T08:08:00	2012-087T09:45:00	XBAND to Earth	NEG_X to NEP	
SP_163EA_YBIAS087_PRIME	E	2012-087T01:37:00		000T01:30:00	2012-087T03:07:00	XBAND to Earth	NEG_X to NEP	
SP_163EA_G34HEFNON087_PRIME		2012-087T03:07:00		000T06:00:00	2012-087T09:07:00	XBAND to Earth	NEG_X to NEP	
SP_163EN_WAYPTTURN087_PRIME		2012-087T09:07:00		000T00:23:00	2012-087T09:30:00	NEG_Y to 40.0/-20.0	NEG_X to 73.5/75.5	pt 1 of 2
SP_163EN_WAYPTTURN487_PRIME		2012-087T09:30:00		000T00:15:00	2012-087T09:45:00	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	pt 2 of 2
NEW WAYPOINT		2012-087T09:45:00		000T15:45:00	2012-088T01:30:00	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	
ISS_163EN_PLMHPPH001_PIE	C, U, V	2012-087T09:45:00		000T05:10:00	2012-087T14:55:00	ISS_NAC to Enceladus	NEG_X to NSP	SOST PIE
SP_163EN_DEADTIME087_PRIME		2012-087T14:55:00		000T00:10:00	2012-087T15:05:00	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	
Begin Custom		2012-087T15:05:00	GMB_E163_ENCELADUS_E17-000T03:25:09	000T00:00:01	2012-087T15:05:01	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	
CIRS_163EN_ENCEL001_PRIME	M, V	2012-087T15:05:00	GMB_E163_ENCELADUS_E17-000T03:25:09	000T02:25:00	2012-087T17:30:00	CIRS_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.
INMS_163EN_ENCEL17001_PIE	C, M	2012-087T17:30:00	GMB_E163_ENCELADUS_E17-000T01:00:09	000T02:00:00	2012-087T19:30:00	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...		2012-087T18:15:09	GMB_E163_ENCELADUS_E17-000T00:15:00	000T00:00:01	2012-087T18:15:10			
163EN (t) E17 ENCELADUS In...		2012-087T18:30:09		000T00:00:01	2012-087T18:30:10			
End Dual Playback Science f...		2012-087T18:37:57	GMB_E163_ENCELADUS_E17+000T00:07:48	000T00:00:01	2012-087T18:37:58			
ISS_163EN_ENCELADUS001_PIE	C, M, U, V	2012-087T19:30:00	GMB_E163_ENCELADUS_E17+000T00:59:51	000T01:30:00	2012-087T21:00:00	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	Collaborative Rider(s): UVIS. 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		2012-087T21:00:00	GMB_E163_ENCELADUS_E17+000T02:29:51	000T00:10:00	2012-087T21:10:00	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_163JA_JANUS001_PIE	C, V	2012-087T21:10:00		000T03:40:00	2012-088T00:50:00	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 ...		2012-087T21:31:38		000T00:00:01	2012-087T21:31:39			
End Custom		2012-088T00:50:00		000T00:00:01	2012-088T00:50:01	ISS_NAC to Enceladus	NEG_X to 73.5/75.5	
SP_163DI_WAYPTTURN088_PRIME		2012-088T00:50:00		000T00:40:00	2012-088T01:30:00	ISS_NAC to Dione	POS_X to 238.8/-77.4	
NEW WAYPOINT		2012-088T01:30:00		000T07:32:00	2012-088T09:02:00	NEG_Y to Dione	POS_X to 238.8/-77.4	
RADAR_163DI_SCATTRAD001_PRIME		2012-088T01:30:00		000T03:00:00	2012-088T04:30:00	NEG_Z to Dione	NEG_X to NSP	
ISS_163DI_REGMAP001_PIE	C, U, V	2012-088T04:30:00		000T03:44:00	2012-088T08:14:00	ISS_NAC to Dione	POS_X to 238.8/-77.4	Collaborative Rider(s): UVIS
SP_163EA_DLTURNO88_PRIME		2012-088T08:14:00		000T00:26:00	2012-088T08:40:00	XBAND to Earth	POS_X to 238.8/-77.4	pt 1 of 2
SP_163EA_DLTURNO88_PRIME		2012-088T08:40:00		000T00:22:00	2012-088T09:02:00	XBAND to Earth	POS_X to NEP	pt 2 of 2
NEW WAYPOINT		2012-088T09:02:00		000T12:10:00	2012-088T21:12:00	XBAND to Earth	POS_X to NEP	
SP_163EA_YBIAS088_PRIME	E	2012-088T09:02:00		000T01:30:00	2012-088T10:32:00	XBAND to Earth	POS_X to NEP	
SP_163EA_C70METSEQ088_PRIME	C, E, M	2012-088T10:32:00		000T09:00:00	2012-088T19:32:00	XBAND to Earth	Rolling	POS_X to NEP or NSP, CAPS
Pointer Reset in preparatio...		2012-088T19:32:00		000T00:00:01	2012-088T19:32:01			
SP_163EA_M70METNON088_PRIME	C	2012-088T19:32:00		000T01:00:00	2012-088T20:32:00	XBAND to Earth	Rolling	POS_X to NEP or NSP, CAPS
SP_163RH_WAYPTTURN088_PRIME		2012-088T20:32:00		000T00:40:00	2012-088T21:12:00	NEG_Y to Rhea	POS_Z to 221.8/-83.5	
NEW WAYPOINT		2012-088T21:12:00		000T10:50:00	2012-089T08:02:00	NEG_Y to Rhea	POS_Z to 221.8/-83.5	
ISS_163TI_M60R2CLD088_PRIME	C, V	2012-088T21:12:00	E163_M60R2CLD088+000T00:00:00	000T01:30:00	2012-088T22:42:00	ISS_NAC to Titan	POS_Z to 221.8/-83.5	No Preference to secondary pointing
ISS_163OT_LS9HEA088_PRIME	V	2012-088T22:42:00		000T03:33:00	2012-089T02:15:00	ISS_NAC to Rocks	POS_Z to 221.8/-83.5	
CIRS_163RH_RHEA001_PRIME	I, U, V	2012-089T02:15:00		000T00:45:00	2012-089T03:00:00	NEG_Y to Rhea	POS_Z to 221.8/-83.5	Collaborative Rider(s): UVIS
ISS_163RH_SATCAL001_PRIME	C, U, V	2012-089T03:00:00		000T01:00:00	2012-089T04:00:00	ISS_NAC to Rhea	NEG_Z to North_Pole_Dir	Collaborative Rider(s): UVIS

RADAR_163SA_ENGTST107_PRIME		2012-089T04:00:00		000T03:22:00	2012-089T07:22:00	NEG_Z to Saturn	NEG_Y to 221.8/-83.5	
SP_163EA_DLTURNO89_PRIME		2012-089T07:22:00		000T00:40:00	2012-089T08:02:00	XBAND to Earth	POS_X to NEP	
NEW WAYPOINT		2012-089T08:02:00		000T11:10:00	2012-089T19:12:00	XBAND to Earth	POS_X to NEP	
SP_163EA_YBIAS089_PRIME	E	2012-089T08:02:00		000T01:30:00	2012-089T09:32:00	XBAND to Earth	POS_X to NEP	
SP_163EA_C70METSEQ089_PRIME	C	2012-089T09:32:00		000T09:00:00	2012-089T18:32:00	XBAND to Earth	Rolling	POS_X to NEP or NSP, CAPS
XD_163_164 Segment		2012-089T18:32:00		007T17:15:00	2012-097T11:47:00			
SP_163EA_WAYPTTURN089_PRIME		2012-089T18:32:00		000T00:40:00	2012-089T19:12:00	XBAND to Earth	NEG_Y to 295.0/8.0	
NEW WAYPOINT		2012-089T19:12:00		002T09:43:00	2012-092T04:55:00	XBAND to Earth	NEG_Y to 295.0/8.0	
VIMS_163ST_ALPCENCAL001_PRIME		2012-089T19:12:00		000T07:00:00	2012-090T02:12:00	VIMS_IR to 219.901/-60.835	NEG_X to Sun	Violates AACS 2 of 3 Rule. May be deleted in sequence per XDTWT negotiation.
VIMS_163ST_FOMALHAUT001_PRIME		2012-090T07:32:00		000T07:00:00	2012-090T14:32:00	VIMS_IR to 344.12/-29.622	NEG_X to Sun	Violates AACS 2 of 3 Rule. May be deleted in sequence per XDTWT negotiation.
SP_163EA_M70METOTP090_PRIME	C, N	2012-090T19:32:00		000T09:00:00	2012-091T04:32:00	XBAND to Earth	4 Hr Rolling	NEG_Y to 295/8, MIMI
CAPS_163CO_LLACORPTG004_PRIME		2012-091T04:32:00		000T11:00:00	2012-091T15:32:00	XBAND to Earth	NEG_Y to 295.0/8.0	Secondary axis and TBD offsets for MIMI and RBOT
CAPS_163CO_IONCALPTG001_PRIME	M	2012-091T15:32:00		000T04:00:00	2012-091T19:32:00	XBAND to Earth	NEG_Y to 295.0/8.0	Secondary axis and offsets TBD for RBOT
SP_163EA_M34HEFOTB091_PRIME	C, M, N	2012-091T19:32:00		000T09:00:00	2012-092T04:32:00	XBAND to Earth	4 Hr Rolling	NEG_Y to 295/8, MIMI
SP_163SA_WAYPTTURN092_PRIME	I, M	2012-092T04:32:00		000T00:23:00	2012-092T04:55:00	ISS_NAC to Saturn	NEG_Z to NSP	
NEW WAYPOINT		2012-092T04:55:00		000T20:37:00	2012-093T01:32:00	ISS_NAC to Saturn	NEG_Z to NSP	
CIRS_163SA_MIRTMAP001_PRIME	I, M, V	2012-092T04:55:00		000T20:10:00	2012-093T01:05:00	CIRS_FP3 to Saturn	NEG_Z to NSP	
SP_163EA_DLTURNO93_PRIME	M	2012-093T01:05:00		000T00:27:00	2012-093T01:32:00	XBAND to Earth	NEG_X to 296.5/-4.5	
NEW WAYPOINT		2012-093T01:32:00		001T11:10:00	2012-094T12:42:00	XBAND to Earth	NEG_X to 296.5/-4.5	
SP_163EA_YBIAS093_PRIME	E, M	2012-093T01:32:00		000T01:30:00	2012-093T03:02:00	XBAND to Earth	NEG_X to 296.5/-4.5	
SP_163EA_G70METSEQ093_PRIME	C, M	2012-093T03:02:00		000T09:00:00	2012-093T12:02:00	XBAND to Earth	Rolling	NEG_X to (296.5, -4.5), CDA
CDA_163DR_ISD0044003_PRIME	M	2012-093T12:02:00		000T13:30:00	2012-094T01:32:00	XBAND to Earth	NEG_X to 296.5/-4.5	
SP_163EA_YBIAS094_PRIME	E	2012-094T01:32:00		000T01:30:00	2012-094T03:02:00	XBAND to Earth	NEG_X to 296.5/-4.5	
SP_163EA_G34BWGSEQ094_PRIME	C	2012-094T03:02:00		000T09:00:00	2012-094T12:02:00	XBAND to Earth	Rolling	NEG_X to (296.5, -4.5), CDA
SP_163SA_WAYPTTURN094_PRIME	I	2012-094T12:02:00		000T00:40:00	2012-094T12:42:00	ISS_NAC to Saturn	NEG_X to 37.3/83.7	
NEW WAYPOINT		2012-094T12:42:00		000T03:10:00	2012-094T15:52:00	ISS_NAC to Saturn	NEG_X to 37.3/83.7	
ISS_163TI_M90R2CLD094_PRIME	C, I, V	2012-094T12:42:00	E163_M90R2CLD094+000T00:00:00	000T01:30:00	2012-094T14:12:00	ISS_NAC to Titan	NEG_X to 37.3/83.7	
ISS_163OT_SATELLORB012_PRIME	I	2012-094T14:12:00		000T01:00:00	2012-094T15:12:00	ISS_NAC to Satellites	NEG_X to 37.3/83.7	Must point within 30 deg of Saturn Center off L Ansa
SP_163EA_DLTURNO94_PRIME		2012-094T15:12:00		000T00:40:00	2012-094T15:52:00	XBAND to Earth	NEG_X to 296.5/-4.5	
NEW WAYPOINT		2012-094T15:52:00		002T19:55:00	2012-097T11:47:00	XBAND to Earth	NEG_X to 296.5/-4.5	
ISS_163OT_THRPHA105_PRIME		2012-094T15:52:00		000T09:40:00	2012-095T01:32:00	UVIS_FUV to Rocks	NEG_Z to Earth	NEG_Z must point within 15 deg of Earth Center
SP_163EA_YBIAS095_PRIME	E	2012-095T01:32:00		000T01:30:00	2012-095T03:02:00	XBAND to Earth	NEG_X to 296.5/-4.5	
SP_163EA_G34HEFSEQ095_PRIME	C	2012-095T03:02:00		000T09:00:00	2012-095T12:02:00	XBAND to Earth	Rolling/SRU	NEG_X to (296.5, -4.5), CDA
CDA_163DR_ISD0044004_PRIME		2012-095T12:02:00		000T14:45:00	2012-096T02:47:00	XBAND to Earth	NEG_X to 296.5/-4.5	
SP_163EA_G34BWGOTP096_PRIME	C, N	2012-096T02:47:00		000T09:00:00	2012-096T11:47:00	XBAND to Earth	4 Hr Rolling	NEG_X to (296.5, -4.5), CDA
VIMS_163RI_EG60PHASE001_PRIME	C	2012-096T11:47:00		000T15:00:00	2012-097T02:47:00	VIMS_IR to Rings	NEG_Z to NSP	Must point within 30 deg of Saturn Center off L Ansa
Apoapse Per = 17.8 d, inc ...		2012-096T19:17:27		000T00:00:01	2012-096T19:17:28			
SP_164EA_G70METOTB097_PRIME	C, E, M, N	2012-097T02:47:00		000T09:00:00	2012-097T11:47:00	XBAND to Earth	4 Hr Rolling	NEG_X to 296.5/-4.5, CDA