

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End	Primary	Secondary	Comments
Sequence S99, length = 41 days		2017-104T14:55:00		040T18:02:00	2017-145T08:57:00			
SATURN_269_270 Segment		2017-104T14:55:00		004T06:17:00	2017-108T21:12:00			
SP_269EA_S99IVP098_PRIME		2017-104T14:55:00		000T00:06:00	2017-104T15:01:00	XBAND to Earth	NEG_X to 251.0/67.0	S99 IVP Gap
ENGR_269SC_KPTVBIAS104_PRIME		2017-104T15:01:00		000T01:30:00	2017-104T16:31:00	POS_Z to DELTA_H	NEG_X to Sun	
SP_269SA_WAYPTTURN104_PRIME		2017-104T16:31:00		000T00:40:00	2017-104T17:11:00	ISS_NAC to Saturn	POS_Z to 187.3/31.9	
NEW WAYPOINT		2017-104T17:11:00		000T17:52:00	2017-105T11:03:00	ISS_NAC to Saturn	POS_Z to 187.3/31.9	
ISS_269SA_LIMBINT001_PRIME	U, V	2017-104T17:11:00		000T03:00:00	2017-104T20:11:00	ISS_NAC to Saturn	POS_Z to 187.3/31.9	
VIMS_269SA_GLOBAL001_PRIME	C	2017-104T20:11:00		000T11:12:00	2017-105T07:23:00	ISS_NAC to Saturn	NEG_X to NSP	
ISS_269SA_LIMBINT002_PRIME	U, V	2017-105T07:23:00		000T03:00:00	2017-105T10:23:00	ISS_NAC to Saturn	POS_Z to 187.3/31.9	
SP_269EA_DLTRN105_PRIME		2017-105T10:23:00		000T00:40:00	2017-105T11:03:00	XBAND to Earth	NEG_X to 300.0/64.0	CDA. NEG_X to 300/64
NEW WAYPOINT		2017-105T11:03:00		000T11:10:00	2017-105T22:13:00	XBAND to Earth	NEG_X to 300.0/64.0	
SP_269EA_YGAP105_PRIME	E	2017-105T11:03:00		000T01:30:00	2017-105T12:33:00	ISS_NAC to Saturn	NEG_X to 300.0/64.0	
SP_269EA_C34BWGNON105_PRIME	C, R	2017-105T12:33:00		000T09:00:00	2017-105T21:33:00	XBAND to Earth	Rolling	CDA. NEG_X to 300/64.
SP_269SA_WAYPTTURN105_PRIME		2017-105T21:33:00		000T00:40:00	2017-105T22:13:00	ISS_NAC to Saturn	POS_Z to NSP	
NEW WAYPOINT		2017-105T22:13:00		000T12:50:00	2017-106T11:03:00	ISS_NAC to Saturn	POS_Z to NSP	
CIRS_269SA_MIRMAP001_PRIME		2017-105T22:13:00		000T12:10:00	2017-106T10:23:00	CIRS_FP3 to Saturn	POS_Z to NSP	
Apoapse Per = 7.2 d, inc = ...		2017-106T04:02:51		000T00:00:01	2017-106T04:02:52			
SP_270EA_DLTRN106_PRIME		2017-106T10:23:00		000T00:40:00	2017-106T11:03:00	XBAND to Earth (0.0,0.0,-14.5 deg. offset)	NEG_Y to Saturn	
NEW WAYPOINT		2017-106T11:03:00		000T11:10:00	2017-106T22:13:00	XBAND to Earth (0.0,0.0,-14.5 deg. offset)	NEG_Y to Saturn	
SP_270EA_YGAP106_PRIME	E	2017-106T11:03:00		000T01:30:00	2017-106T12:33:00	XBAND to Earth (0.0,0.0,-14.5 deg. offset)	NEG_Y to Saturn	
SP_270EA_C34BWGNON106_PRIME	C	2017-106T12:33:00		000T09:00:00	2017-106T21:33:00	XBAND to Earth (0.0,0.0,-14.5 deg. offset)	NEG_Y to Saturn	MIMI. NEG_Y to Saturn (0.0,-14.5).
SP_270SA_WAYPTTURN106_PRIME		2017-106T21:33:00		000T00:40:00	2017-106T22:13:00	ISS_NAC to Saturn	NEG_X to NSP	
NEW WAYPOINT		2017-106T22:13:00		001T13:59:00	2017-108T12:12:00	ISS_NAC to Saturn	NEG_X to NSP	
ISS_270SA_LIMBINT001_PRIME	U, V	2017-106T22:13:00		000T03:00:00	2017-107T01:13:00	ISS_NAC to Saturn	NEG_X to NSP	
CIRS_270SA_FIRMAP001_PRIME	V	2017-107T01:13:00		000T22:19:00	2017-107T23:32:00	CIRS_FP1 to Saturn	NEG_X to NSP	
UVIS_270SA_AURDSTARE001_PRIME	C, V	2017-107T23:32:00		000T06:00:00	2017-108T05:32:00	UVIS_FUV to Saturn_North_Pole	NEG_X to NSP	Collaborative Rider(s): VIMS
UVIS_270SA_AURDSLW001_PRIME	C, V	2017-108T05:32:00		000T06:00:00	2017-108T11:32:00	UVIS_FUV to Saturn_North_Pole	NEG_X to NSP	Collaborative Rider(s): VIMS
SP_270EA_DLTRN108_PRIME		2017-108T11:32:00		000T00:40:00	2017-108T12:12:00	XBAND to Earth	NEG_Y to 154.0/-44.2	
NEW WAYPOINT		2017-108T12:12:00		000T09:40:00	2017-108T21:52:00	XBAND to Earth	NEG_Y to 154.0/-44.2	
SP_270EA_C70METOTP108_PRIME	C, N	2017-108T12:12:00		000T09:00:00	2017-108T21:12:00	XBAND to Earth	NEG_Y to 154.0/-44.2	MIMI. NEG_Y to Saturn (0.0,-9.5)
RINGS_270 Segment		2017-108T21:12:00		002T15:18:00	2017-111T12:30:00			
SP_270SA_WAYPTTURN108_PRIME		2017-108T21:12:00		000T00:40:00	2017-108T21:52:00	ISS_NAC to Saturn	NEG_X to 187.0/32.0	RBOT
NEW WAYPOINT		2017-108T21:52:00		000T08:19:00	2017-109T06:11:00	ISS_NAC to Saturn	NEG_X to 187.0/32.0	
ISS_270T1_M90R2CLD108_PRIME	C, V	2017-108T21:52:00	E270_M90R2CLD108+000T00:00:00	000T01:30:00	2017-108T23:22:00	ISS_NAC to Titan	NEG_X to 187.0/32.0	No Preference to secondary pointing
ISS_270T01_SATELLORBO01_PRIME		2017-108T23:22:00		000T01:09:00	2017-109T00:31:00	ISS_NAC to Satellites	NEG_X to 187.0/32.0	
CIRS_270RA_UNSHADLIT001_PRIME	C, I, U	2017-109T00:31:00		000T05:00:00	2017-109T05:31:00	CIRS_FP1 to Rings	POS_X to 2.0/-34.7	
SP_270EA_DLTRN109_PRIME		2017-109T05:31:00		000T00:40:00	2017-109T06:11:00	XBAND to Earth	NEG_Y to 154.0/-44.2	MIMI attitude - same secondary as OTP.
NEW WAYPOINT		2017-109T06:11:00		000T17:09:00	2017-109T23:20:00	XBAND to Earth	NEG_Y to 154.0/-44.2	
SP_270EA_G34BWGOTB109_PRIME	C, E, M, N	2017-109T06:11:00		000T08:30:00	2017-109T14:41:00	XBAND to Earth	4_Hr_Rolling	MAG Range 1 & 2 - Roll Requested. SRU. Same secondary as OTP.
Begin Custom		2017-109T14:41:00		000T00:00:01	2017-109T14:41:01			
ISS_270RI_CPLTSTRKF001_PRIME	C, M, N, U, V	2017-109T14:41:00		000T01:26:00	2017-109T16:07:00	ISS_NAC to Rings	POS_Z to Saturn	Pick up at XBAND to Earth, NEG_Y to 154.0/-44.2; Hand off at ISS_NAC to 221.0/-75.0, POS_X to 350.5/-9.7. Beginning of Custom Period. Pick up at Waypoint of Xband to Earth, Neg Y to 154, -44.2. This might change due to heating issues. May be a long turn.
ISS_270RI_SUPRHRESL001_PIE	C, M, U, V	2017-109T16:07:00		000T01:00:00	2017-109T17:07:00	ISS_NAC to Rings	POS_Z to Saturn	Pick up at ISS_NAC to 221.0/-75.0, POS_X to 350.5/-9.7; Hand off at ISS_NAC to Rings, POS_Z to Saturn. Handoff to ISS_NAC to R_RAD_LON 123100/310/NODE, POS_Z to SATURN
Begin Dual Playback Science...		2017-109T16:14:00		000T00:00:01	2017-109T16:14:01			
INMS_270RI_FRINGATMO001_PIE	M	2017-109T17:07:00		000T01:12:30	2017-109T18:19:30	POS_X to COROT	NEG_Z to 60.0/16.0	Collaborative Rider(s): CDA. Collaborative Rider(s): CDA. Pick up at ISS_NAC to Rings, POS_Z to Saturn; Hand off at NEG_Y to 277.334/66.523, NEG_Z to 84.483/22.95. Collaborative Rider(s): CDA. Pick up at ISS_NAC to SATURN R_RAD_LON 123100/310/NODE; POS_Z to SATURN
End Dual Playback Science...		2017-109T17:54:24		000T00:00:01	2017-109T17:54:25			Handoff at NEG...
Periapse R = 2.442 Rs, lat ...		2017-109T18:05:18		000T00:00:01	2017-109T18:05:19			
ISS_270RI_SUPRHRESU001_PIE	C, M, U, V	2017-109T18:19:30		000T00:54:30	2017-109T19:14:00	ISS_NAC to Rings	NEG_Z to Sun	Pick up at NEG_Y to 277.334/66.523, NEG_Z to 84.483/22.95; Hand off at ISS_NAC to Rings, NEG_Z to Sun. Handoff to ISS_NAC to R_RAD_LON 129500/350/NODE, NEG_Z to Sun
VIMS_270SA_AURSTARE001_PIE	C, M	2017-109T19:14:00		000T03:46:00	2017-109T23:00:00	ISS_NAC to Saturn	NEG_Z to NSP	Pick up at ISS_NAC to Rings, NEG_Z to Sun; Hand off at ISS_NAC to Saturn, NEG_Z to NSP. Pickup at ISS_NAC to R_RAD_LON 129500/350/NODE, NEG_Z to Sun; handoff at ISS_NAC to SSCLON/-77.8 LAT, NEG_Z to NSP
SP_270SA_WAYPTTURN110_PRIME		2017-109T23:00:00		000T00:20:00	2017-109T23:20:00	ISS_NAC to Saturn (0.0,0.0,20.0 deg. offset)	NEG_Z to 187.0/32.0	Pick up at ISS_NAC to Saturn, NEG_Z to NSP; Hand off at ISS_NAC to Saturn (0.0,0.0,20.0 deg. offset), NEG_Z to 187.0/32.0. Pickup at ISS_NAC to SSCLON/-77.8 LAT
NEW WAYPOINT		2017-109T23:20:00		000T08:40:00	2017-110T08:00:00	ISS_NAC to Saturn (0.0,0.0,20.0 deg. offset)	NEG_Z to 187.0/32.0	
End Custom		2017-109T23:20:00		000T00:00:01	2017-109T23:20:01			
ISS_270RI_PROPRTREG003_PRIME	C	2017-109T23:20:00		000T02:00:00	2017-110T01:20:00	ISS_NAC to Rings	NEG_Z to 187.0/32.0	No Preference to secondary pointing. No Preference to secondary pointing
CIRS_270RC_PLATDARK001_PRIME	C, I, R, U, V	2017-110T01:20:00		000T06:00:00	2017-110T07:20:00	CIRS_FP3 to Rings	PIC	
SP_270EA_DLTRN110_PRIME	R	2017-110T07:20:00		000T00:40:00	2017-110T08:00:00	XBAND to Earth	NEG_X to NSP	Turn on RWA Slow
NEW WAYPOINT		2017-110T08:00:00		000T15:26:00	2017-110T23:26:00	XBAND to Earth	NEG_X to NSP	
SP_270EA_DEADTIME110_PRIME	R	2017-110T08:00:00		000T00:20:00	2017-110T08:20:00	XBAND to Earth	NEG_X to NSP	
RSS_270RI_OCC001_PRIME		2017-110T08:20:00	LMB_E270_Saturn_RSS_Occ_Ing-000T03:39:06	000T03:38:00	2017-110T11:58:00	XBAND to Earth	NEG_X to NSP	
RSS_270SA_OCC001_PRIME		2017-110T11:58:00	LMB_E270_Saturn_RSS_Occ_Ing-000T00:01:06	000T03:43:00	2017-110T15:41:00	XBAND to Earth	NEG_X to NSP	

SP_270EA_DEADTIME410_PRIME		2017-110715:41:00		000700:20:00	2017-110716:01:00	XBAND to Earth	NEG_X to NSP	
SP_270EA_YGAP110_PRIME	E	2017-110716:01:00		000701:30:00	2017-110717:31:00	XBAND to Earth	NEG_X to NSP	
SP_270EA_C70METNON110_PRIME	C, E	2017-110717:31:00		000705:25:00	2017-110722:56:00	XBAND to Earth	Rolling	
Pointer Reset in preparatio...		2017-110722:56:00		000700:00:01	2017-110722:56:01			
SP_270RI_WAYPTTURN110_PRIME		2017-110722:56:00		000700:30:00	2017-110723:26:00	ISS_NAC to L_ANSA_A	POS_X to 100.9/-67.4	no RBOT or Standard waypoints available
NEW WAYPOINT		2017-110723:26:00		000705:15:00	2017-111104:41:00	ISS_NAC to L_ANSA_A	POS_X to 100.9/-67.4	
ISS_270TI_M90R1CLD110_PRIME	C, V	2017-111023:26:00	E270_M90R1CLD110+000700:00:00	000702:00:00	2017-111101:26:00	ISS_NAC to Titan	POS_X to 100.9/-67.4	No Preference to secondary pointing
VIMS_270SA_ALPORIOCC001_PIE	C	2017-111101:26:00		000701:10:00	2017-111102:36:00	VIMS_IR to 88.793/7.407	POS_X to 100.9/-67.4	
ISS_270RI_DRING001_PRIME	C, U, V	2017-111102:36:00		000701:25:00	2017-111104:01:00	ISS_NAC to Rings	POS_X to 100.9/-67.4	No Preference to secondary pointing
SP_270EA_DLTURN111_PRIME		2017-111104:01:00		000700:40:00	2017-111104:41:00	XBAND to Earth	NEG_X to NSP	
NEW WAYPOINT		2017-111104:41:00		000708:29:00	2017-111113:10:00	XBAND to Earth	NEG_X to NSP	
SP_270EA_YGAP111_PRIME	E	2017-111104:41:00		000701:30:00	2017-111106:11:00	XBAND to Earth	NEG_X to NSP	
SP_270EA_G70METNON111_PRIME	C	2017-111106:11:00		000706:19:00	2017-111112:30:00	XBAND to Earth	Rolling	
T126_270_TOST Segment		2017-111112:30:00		004700:42:00	2017-111113:12:00			
SP_270TI_WAYPTTURN111_PRIME		2017-111112:30:00		000700:40:00	2017-111113:10:00	NEG_Y to Titan	NEG_X to NTP	
NEW WAYPOINT		2017-111113:10:00		001116:46:00	2017-113105:56:00	NEG_Y to Titan	NEG_X to NTP	
SP_270TI_DEADTIME111_PRIME		2017-111113:10:00		000700:14:58	2017-111113:24:58	NEG_Y to Titan	NEG_X to NTP	
CIRS_270TI_MIDIRMAP001_PRIME	I, V	2017-111113:24:58	GMB_E270_TITAN_T126-000716:43:09	000702:43:09	2017-111116:08:07	CIRS_FPB to Titan	PIC	
ISS_270TI_MONITORNA001_PRIME	C, V	2017-111116:08:07	GMB_E270_TITAN_T126-000714:00:00	000702:00:00	2017-111118:08:07	ISS_NAC to Titan	NEG_X to NTP	No Preference to secondary pointing
CIRS_270TI_FIRNADCP001_PRIME	I, U, V	2017-111118:08:07	GMB_E270_TITAN_T126-000712:00:00	000703:00:00	2017-111121:08:07	CIRS_FP1 to Titan	PIC	
ISS_270TI_GLOBMAP001_PRIME	C, V	2017-111121:08:07	GMB_E270_TITAN_T126-000709:00:00	000703:00:00	2017-112100:08:07	ISS_NAC to Titan	NEG_X to NTP	No Preference to secondary pointing
RADAR_270TI_T126INRAD001_PRIME		2017-112100:08:07	GMB_E270_TITAN_T126-000706:00:00	000703:45:00	2017-112103:53:07	NEG_Z to Titan	NEG_X to NTP	Use -X to NTP and -Y to NTP as secondary axis for two polarizations.
RADAR_270TI_T126INSC001_PRIME		2017-112103:53:07	GMB_E270_TITAN_T126-000702:15:00	000701:03:00	2017-112104:56:07	NEG_Z to Titan	NEG_Y to NTP	
RADAR_270TI_T126IHSAR001_PRIME		2017-112104:56:07	GMB_E270_TITAN_T126-000701:12:00	000700:41:00	2017-112105:37:07	NEG_Z to Titan	NEG_Y to NTP	
ENGR_270SC_RADRCS111_PRIME		2017-112105:37:07	GMB_E270_TITAN_T126-000700:31:00	000700:01:00	2017-112105:38:07	NEG_Z to Titan	NEG_Y to NTP	Deadband = (0.5,0.5,2.0)
RADAR_270TI_T126INALT001_PRIME		2017-112105:38:07	GMB_E270_TITAN_T126-000700:30:00	000700:15:00	2017-112105:53:07	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
Begin Dual Playback Science		2017-112105:53:07		000700:00:01	2017-112105:53:08			
RADAR_270TI_T126RASAR001_PRIME	M	2017-112105:53:07	GMB_E270_TITAN_T126-000700:15:00	000700:15:00	2017-112106:08:07	NEG_X to Titan_SC_RAM	NEG_Z to Titan	Ride-along at c/a.
270TI (h) T126 TITAN Outbou...		2017-112106:08:07		000700:00:01	2017-112106:08:08			
RADAR_270TI_T126OTSAR001_PRIME		2017-112106:08:07	GMB_E270_TITAN_T126+000700:00:00	000700:18:00	2017-112106:26:07	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
End Dual Playback Science		2017-112106:26:07	GMB_E270_TITAN_T126+000700:18:00	000700:00:01	2017-112106:26:08			
RADAR_270TI_T126OTAL001_PRIME		2017-112106:26:07	GMB_E270_TITAN_T126+000700:18:00	000700:12:00	2017-112106:38:07	NEG_Z to Titan	POS_Y to NTP	
ENGR_270SC_RADRWBIAS112_PPS		2017-112106:38:07	GMB_E270_TITAN_T126+000700:30:00	000700:22:00	2017-112107:00:07	NEG_Z to Titan	NEG_Y to NTP	
RADAR_270TI_T126OHSAR001_PRIME		2017-112107:00:07	GMB_E270_TITAN_T126+000700:52:00	000700:38:00	2017-112107:38:07	NEG_Z to Titan	POS_Y to NTP	
RADAR_270TI_T126OTSC001_PRIME		2017-112107:38:07	GMB_E270_TITAN_T126+000701:30:00	000701:05:00	2017-112108:43:07	NEG_Z to Titan	POS_Y to NTP	
RADAR_270TI_T126OTRAD001_PRIME		2017-112108:43:07	GMB_E270_TITAN_T126+000702:35:00	000703:25:00	2017-112112:08:07	NEG_Z to Titan	POS_Y to NTP	Use +Y to NTP and -X to NTP for polarizations.
VIMS_270TI_MEDRES001_PRIME	C, I	2017-112112:08:07	GMB_E270_TITAN_T126+000706:00:00	000703:00:00	2017-112115:08:07	VIMS_IR to Titan	NEG_X to NTP	No Preference to secondary pointing
VIMS_270TI_GLOBMAP002_PRIME	C, I	2017-112115:08:07	GMB_E270_TITAN_T126+000709:00:00	000704:00:00	2017-112119:08:07	VIMS_IR to Titan	NEG_X to NTP	No Preference to secondary pointing
CIRS_270TI_MIDIRMAP002_PRIME	I, U, V	2017-112119:08:07	GMB_E270_TITAN_T126+000713:00:00	000709:52:51	2017-113105:00:58	CIRS_FPB to Titan	PIC	Collaborative Rider(s): ISS
Apoapse Per = 6.4 d, inc =...		2017-113103:46:51		000700:00:01	2017-113103:46:52			
SP_271TI_DEADTIME113_PRIME		2017-113105:00:58	GMB_E270_TITAN_T126+000722:52:51	000700:15:02	2017-113105:16:00	NEG_Y to Titan	NEG_X to NTP	
SP_271EA_DLTURN113_PRIME		2017-113105:16:00		000700:40:00	2017-113105:56:00	XBAND to Earth	POS_X to NEP	Rolling downlink for Mag, +X to NEP chosen as secondary to avoid FR violations.
NEW WAYPOINT		2017-113105:56:00		000717:40:00	2017-113123:36:00	XBAND to Earth	POS_X to NEP	
SP_271EA_G70METNON113_PRIME	C, R	2017-113105:56:00		000708:30:00	2017-113114:26:00	XBAND to Earth	Rolling	
Pointer Reset in preparatio...		2017-113114:26:00		000700:00:01	2017-113114:26:01			
SP_271EA_C70METNON113_PRIME		2017-113114:26:00		000708:30:00	2017-113123:56:00	XBAND to Earth	Rolling	Required for NAV as backup tracking if preceding Goldstone goes down.
SP_271TI_WAYPTTURN113_PRIME		2017-113123:56:00		000700:40:00	2017-113123:36:00	NEG_Y to Titan	NEG_Z to NTP	
NEW WAYPOINT		2017-113123:36:00		000712:16:00	2017-114111:52:00	NEG_Y to Titan	NEG_Z to NTP	
CIRS_271TI_COMPMAP001_PRIME	I, U, V	2017-113123:36:00		000711:36:00	2017-114111:12:00	CIRS_FPB to Titan	NEG_Z to NTP	
SP_271EA_DLTURN114_PRIME		2017-114111:12:00		000700:40:00	2017-114111:52:00	XBAND to Earth	NEG_Y to 153.1/-45.1	NEG_Y to 153.1/-45.1
NEW WAYPOINT		2017-114111:52:00		000709:40:00	2017-114121:32:00	XBAND to Earth	NEG_Y to 153.1/-45.1	
SP_271EA_C34BWGOTP114_PRIME	C, E, N	2017-114111:52:00		000709:00:00	2017-114120:52:00	XBAND to Earth	NEG_Y to 153.1/-45.1	MIMI_NEG_Y to Saturn (0,0,-9.5)
SP_271TI_WAYPTTURN114_PRIME		2017-114120:52:00		000700:40:00	2017-114121:32:00	NEG_Y to Titan	NEG_X to NTP	
NEW WAYPOINT		2017-114121:32:00		000701:30:00	2017-114123:02:00	NEG_Y to Titan	NEG_X to NTP	
ISS_271TI_CLOUD001_PRIME		2017-114121:32:00		000700:50:00	2017-114122:22:00	ISS_NAC to Titan	NEG_X to NTP	No Preference to secondary pointing
SP_271EA_DLTURN114_PRIME		2017-114122:22:00		000700:40:00	2017-114123:02:00	XBAND to Earth	NEG_Y to 153.1/-45.1	
NEW WAYPOINT		2017-114123:02:00		000714:50:00	2017-115113:52:00	XBAND to Earth	NEG_Y to 153.1/-45.1	
SP_271EA_M34UNQOTB114_PRIME	C, N	2017-114123:02:00		000709:00:00	2017-115108:02:00	XBAND to Earth	NEG_Y to 153.1/-45.1	MIMI_NEG_Y to Saturn (0,0,-9.5)
SP_271EA_G70METNON115_PRIME	C, E	2017-115108:02:00		000705:10:00	2017-115113:12:00	XBAND to Earth	NEG_Y to 153.1/-45.1	MIMI_NEG_Y to Saturn (0,0,-9.5)
SATURN_271 Segment		2017-115113:12:00		004707:23:00	2017-119120:35:00			
SP_271SA_WAYPTTURN115_PRIME		2017-115113:12:00		000700:40:00	2017-115113:52:00	ISS_NAC to Saturn	POS_Z to NSP	
NEW WAYPOINT		2017-115113:52:00		001107:28:00	2017-116121:20:00	ISS_NAC to Saturn	POS_Z to NSP	
VIMS_271SA_NHEMMAP001_PRIME	C, I, U	2017-115113:52:00		000701:00:00	2017-115114:52:00	ISS_NAC to Saturn	POS_Z to NSP	
LUVIS_271SA_AURISLEW001_PRIME	V	2017-115114:52:00		000706:38:00	2017-115121:30:00	VIMS_IR to Saturn	POS_Z to NSP	Collaborative Rider(s): VIMS
VIMS_271SA_NHEMMAP002_PRIME	C, I, U	2017-115121:30:00		000701:00:00	2017-115122:30:00	ISS_NAC to Saturn	POS_Z to NSP	
VIMS_271SA_NPOLMOV001_PIE	C, I, U	2017-115122:30:00		000708:00:00	2017-116106:30:00	ISS_NAC to Saturn_North_Pole	POS_Z to NSP	
Begin Dual Playback Science...		2017-116106:30:00		000700:00:01	2017-116106:30:01			
Begin Custom		2017-116106:30:00		000700:00:01	2017-116106:30:01	ISS_NAC to Saturn	POS_Z to NSP	
ISS_271SA_HIRESWACS001_PIE	C, M, V	2017-116106:30:00		000702:20:00	2017-116108:50:00	ISS_NAC to Saturn	POS_X to NEP	Collaborative Rider(s): CIRS. Pick up at ISS_NAC to Saturn, POS_Z to NSP; Hand off at NEG_Z to Dust_RAM, POS_Y to Sun. Collaborative Rider(s): CIRS. No Preference to secondary pointing
SP_271DR_RAMAVOID116_PRIME	I, M, V	2017-116108:50:00		000700:20:00	2017-116109:10:00	NEG_Z to Dust_RAM	POS_Y to Sun	Collaborative Rider(s): ISS. Pick up at NEG_Z to Dust_RAM, POS_Y to Sun; Hand off at NEG_Z to Dust_RAM, POS_Y to Sun. Collaborative Rider(s): ISS
Dust Hazard (HGA-to-Dust-Ra...		2017-116108:57:16		000700:06:06	2017-116109:03:22	NEG_Z to Dust_RAM		

Periapse R = 1.047 Rs, lat ...		2017-116T09:03:34		000T00:00:01	2017-116T09:03:35				
ISS_271SA_HIRESWACS002_PIE	C, M, V	2017-116T09:10:00		000T01:54:00	2017-116T11:04:00	ISS_NAC to Saturn	NEG_X to NSP		Pick up at NEG_Z to Dust_RAM, POS_Y to Sun; Hand off at CIRS_FP8 to 47.677/32.739 (0.0,15,0.0,0.0 deg. offset), NEG_X to NSP.
CIRS_271SA_REGMAP001_PIE		2017-116T11:04:00		000T03:26:00	2017-116T14:30:00	CIRS_FP8 to Saturn	NEG_Z to NSP		Pick up at CIRS_FP8 to 47.677/32.739 (0.0,15,0.0,0.0 deg. offset), NEG_X to NSP; Hand off at ISS_NAC to Saturn (10.0,0.0,0.0 deg. offset), NEG_Z to NSP. slow scans ~885 to 905
End Dual Playback Science E...		2017-116T14:30:00		000T00:00:01	2017-116T14:30:01				
VIMS_271RI_HIPHASE001_PIE	C, I, U	2017-116T14:30:00		000T06:45:00	2017-116T21:15:00	VIMS_IR to Rings	NEG_X to NSP		Pick up at ISS_NAC to Saturn (10.0,0.0,0.0 deg. offset), NEG_Z to NSP; Hand off at ISS_NAC to Saturn (-15.0,0.0,0.0 deg. offset), NEG_X to NSP.
SP_271SA_WAYPTTURN116_PRIME		2017-116T21:15:00		000T00:05:00	2017-116T21:20:00	ISS_NAC to Saturn (-15.0,0.0,0.0 deg. offset)	NEG_X to NSP		Pick up at ISS_NAC to Saturn (-15.0,0.0,0.0 deg. offset), NEG_X to NSP; Hand off at ISS_NAC to Saturn (-15.0,0.0,0.0 deg. offset), NEG_X to NSP.
NEW WAYPOINT		2017-116T21:20:00		000T07:50:00	2017-117T05:10:00	ISS_NAC to Saturn (-15.0,0.0,0.0 deg. offset)	NEG_X to NSP		
End Custom		2017-116T21:20:00		000T00:00:01	2017-116T21:20:01	ISS_NAC to Saturn (-15.0,0.0,0.0 deg. offset)	NEG_X to NSP		
VIMS_271RI_SOLAROC001_PRIME	U	2017-116T21:20:00		000T01:40:00	2017-116T23:00:00	UVIS_SOL_OFF to Sun	NEG_X to 302.7/61.915		Collaborative Rider(s): UVIS
UVIS_271SA_AURNSTARE001_PRIME	C, I, V	2017-116T23:00:00		000T02:39:00	2017-117T01:39:00	UVIS_FUV to Saturn	NEG_X to NSP		Collaborative Rider(s): VIMS. S. Pole - NEG_Y to Sun = 12 deg. at start
VIMS_271SA_ALPORIOCC001_PIE	C	2017-117T01:39:00		000T01:10:00	2017-117T02:49:00	VIMS_IR to 88.793/7.407	NEG_X to NSP		
UVIS_271SA_AURSLEW002_PRIME	C	2017-117T02:49:00		000T01:58:00	2017-117T04:47:00	UVIS_FUV to Saturn	NEG_X to NSP		
SP_271EA_DLTURN117_PRIME		2017-117T04:47:00		000T00:23:00	2017-117T05:10:00	XBAND to Earth	NEG_X to NSP		
NEW WAYPOINT		2017-117T05:10:00		001T16:05:00	2017-118T21:15:00	XBAND to Earth	NEG_X to NSP		
SP_271EA_G70METNON117_PRIME	C, E	2017-117T05:42:00		000T06:30:00	2017-117T12:12:00	XBAND to Earth	Rolling/Bias		SRU. Request waiver of weekly maintenance to ensure the dual playback of mission critical ENGR data.
Pointer Reset in preparatio...		2017-117T12:12:00		000T00:00:01	2017-117T12:12:01				
SP_271EA_C70METNON117_PRIME	C, E	2017-117T12:12:00		000T05:33:00	2017-117T17:45:00	XBAND to Earth	Rolling/SRU		
ISS_271EN_PLUMEO01_PIE	C, U, V	2017-117T17:45:00		000T12:31:00	2017-118T06:16:00	ISS_NAC to Enceladus	NEG_X to NSP		SOST PIE
VIMS_271SA_GLOBMAP001_PRIME	C	2017-118T06:16:00		000T03:49:00	2017-118T10:05:00	ISS_NAC to Saturn	NEG_X to NSP		
SP_271EA_YGAP118_PRIME	E	2017-118T10:05:00		000T01:30:00	2017-118T11:35:00	XBAND to Earth	NEG_X to NSP		
SP_271EA_C34BWGNON118_PRIME	C, E	2017-118T11:35:00		000T09:00:00	2017-118T20:35:00	XBAND to Earth	Rolling		
SP_271SA_WAYPTTURN118_PRIME		2017-118T20:35:00		000T00:40:00	2017-118T21:15:00	ISS_NAC to Saturn	POS_Z to NSP		
NEW WAYPOINT		2017-118T21:15:00		000T12:50:00	2017-119T10:05:00	ISS_NAC to Saturn	POS_Z to NSP		
CIRS_271SA_COMPSTI001_PRIME	U, V	2017-118T21:15:00		000T10:40:00	2017-119T07:55:00	CIRS_FP1 to Saturn	POS_Z to NSP		
ISS_271SA_LIMBINT001_PRIME	U, V	2017-119T07:55:00		000T01:30:00	2017-119T09:25:00	ISS_NAC to Saturn	POS_Z to NSP		
SP_271EA_DLTURN119_PRIME		2017-119T09:25:00		000T00:40:00	2017-119T10:05:00	XBAND to Earth	NEG_X to NSP		
NEW WAYPOINT		2017-119T10:05:00		000T22:37:00	2017-120T08:42:00	XBAND to Earth	NEG_X to NSP		
SP_271EA_YGAP119_PRIME	E	2017-119T10:05:00		000T01:30:00	2017-119T11:35:00	XBAND to Earth	NEG_X to NSP		
SP_271EA_C70METNON119_PRIME	C	2017-119T11:35:00		000T09:00:00	2017-119T20:35:00	XBAND to Earth	Rolling		
Apoapse Per = 6.4 d, inc = ...		2017-119T14:22:49		000T00:00:01	2017-119T14:22:50				
XD_272_273 Segment		2017-119T20:35:00		007T07:44:00	2017-127T04:19:00				
MAG_272SU_LFCALROLL001_PRIME	I, U	2017-119T23:00:00		000T09:00:00	2017-120T08:00:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	Rolling		
SP_272EA_DLTURN120_PRIME		2017-120T08:00:00		000T00:42:00	2017-120T08:42:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		
NEW WAYPOINT		2017-120T08:42:00		000T08:54:00	2017-120T17:36:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		
SP_272EA_YGAP120_PRIME	E	2017-120T08:42:00		000T01:30:00	2017-120T10:12:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		
SP_272EA_C34BWGNON120_PRIME	C, R	2017-120T10:12:00		000T07:00:00	2017-120T17:12:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		MIMI. XBAND to EARTH (0.0, -9.5), NEG_Y to SA
SP_272SA_WAYPTTURN120_PRIME		2017-120T17:12:00		000T00:24:00	2017-120T17:36:00	ISS_NAC to Saturn	POS_Z to 185.8/33.1		
NEW WAYPOINT		2017-120T17:36:00		000T16:11:00	2017-121T09:47:00	ISS_NAC to Saturn	NEG_X to 185.8/33.1		
VIMS_272RI_ALPCMAOCC001_PRIME	I, U	2017-120T17:36:00		000T08:04:00	2017-121T01:40:00	VIMS_IR to 101.287/-16.716	NEG_X to 185.8/33.1		
ISS_272RF_FMOVIE001_PRIME	V	2017-121T01:40:00		000T07:48:00	2017-121T09:28:00	ISS_NAC to Rings	NEG_X to 185.8/33.1		No Preference to secondary pointing
SP_272EA_DLTURN121_PRIME		2017-121T09:28:00		000T00:19:00	2017-121T09:47:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		
NEW WAYPOINT		2017-121T09:47:00		000T11:03:00	2017-121T20:50:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		
SP_272EA_YGAP121_PRIME	E	2017-121T09:47:00		000T01:30:00	2017-121T11:17:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		
SP_272EA_C70METNON121_PRIME	C	2017-121T11:17:00		000T09:00:00	2017-121T20:17:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		MIMI. XBAND to EARTH (0.0, -9.5), NEG_Y to SA
SP_272SA_WAYPTTURN121_PRIME		2017-121T20:17:00		000T00:33:00	2017-121T20:50:00	ISS_NAC to Saturn	POS_Z to 185.8/33.1		
NEW WAYPOINT		2017-121T20:50:00		001T11:40:00	2017-123T08:30:00	ISS_NAC to Saturn	POS_Z to 185.8/33.1		
ISS_272TI_M150RZH121_PRIME	C, V	2017-121T20:50:00	E272_M150RZH121+000T00:00:00	000T01:30:00	2017-121T22:20:00	ISS_NAC to Titan	POS_Z to 185.8/33.1		No Preference to secondary pointing
CIRS_272RH_COMPLBL001_PRIME	C, I, U	2017-121T22:20:00		000T08:00:00	2017-122T06:20:00	CIRS_FP1 to Rhea	POS_Z to 185.8/33.1		
ISS_272RI_HIRESAFR001_PRIME		2017-122T06:20:00		000T01:00:00	2017-122T07:20:00	ISS_NAC to Rings	POS_Z to 185.8/33.1		
Begin Custom		2017-122T07:20:00		000T00:00:01	2017-122T07:20:01	ISS_NAC to Saturn	POS_Z to 185.8/33.1		
MAG_272SU_HFCALROLL001_PIE		2017-122T07:20:00		000T07:22:15	2017-122T14:42:15	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	Rolling		Pick up at ISS_NAC to Saturn, POS_Z to 185.8/33.1; Hand off at POS_Y to Sun, POS_X to North_Pole_Dir.
MAG_272OT_CALROLL001_PIE		2017-122T14:42:15		000T03:17:23	2017-122T17:59:38	POS_Y to Sun	Rolling		Pick up at POS_Y to Sun, POS_X to North_Pole_Dir; Hand off at POS_Y to Sun, POS_X to North_Pole_Dir.
MAG_272OT_CALROLL002_PIE	E	2017-122T17:59:38		000T02:53:31	2017-122T20:53:09	POS_X to SC_RAM (8.998,0.0,0.0 deg. offset)	Rolling		Pick up at POS_Y to Sun, POS_X to North_Pole_Dir; Hand off at POS_X to SC_RAM (-18.001,0.0,0.0 deg. offset), NEG_Y to Sun.
Periapse R = 1.047 Rs, lat ...		2017-122T19:42:14		000T00:00:01	2017-122T19:42:15				
MAG_272OT_CALROLL003_PIE	E	2017-122T20:53:09		000T03:49:06	2017-123T00:42:15	POS_X to SC_RAM	Rolling		Pick up at POS_X to SC_RAM (-18.001,0.0,0.0 deg. offset), NEG_Y to Sun; Hand off at POS_X to SC_RAM (-148.724,0.0,0.0 deg. offset), NEG_Y to Sun. Pick up at POS_X to SC_RAM (-148.724,0.0,0.0 deg. offset), NEG_Y to Sun; Hand off at ISS_NAC to Epimetheus, NEG_X to 184.7/33.0.
MAG_272OT_INTFLD001_PRIME		2017-123T00:42:15		000T00:42:45	2017-123T01:25:00	ISS_NAC to Epimetheus	NEG_X to 184.7/33.0		
ISS_272RI_HIPHASE001_PRIME	U, V	2017-123T01:25:00		000T07:00:00	2017-123T08:25:00	ISS_NAC to Rings	PIC		Pick up at ISS_NAC to Epimetheus, NEG_X to 184.7/33.0; Hand off at XBAND to Earth (0.0,0.0,-9.5 deg. offset), NEG_Y to Saturn. In custom fields: Pick-Up NAC to Epimetheus, NEG_X to 184.7/33. Hand-off XBAND to Earth (0.0,-9.5 deg offset), NEG_Y to Saturn
SP_272EA_DLTURN123_PRIME		2017-123T08:25:00		000T00:05:00	2017-123T08:30:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		Pick up at XBAND to Earth (0.0,0.0,-9.5 deg. offset), NEG_Y to Saturn.
NEW WAYPOINT		2017-123T08:30:00		003T20:29:00	2017-127T04:59:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn		

End Custom		2017-123T08:30:00		000T00:00:01	2017-123T08:30:01	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
ISS_2720T_BESUP069_PRIME		2017-123T08:30:00		000T04:13:00	2017-123T12:43:00	UVIS_FUV to Rocks	PIC	
SP_272EA_YGAP123_PRIME	E	2017-123T12:43:00		000T01:30:00	2017-123T14:13:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP_272EA_C70METN0123_PRIME	C	2017-123T14:13:00		000T08:00:00	2017-123T22:13:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	Rolling	SRU Score = 100. DOWNLINK MUST BE ROLLING for HGA-to-RAM
CIRS_272RC_COMPUNLC1001_PRIME	C, U, V	2017-123T22:13:00		000T06:00:00	2017-124T04:13:00	CIRS_FP1 to Rings	NEG_X to 184.7/33.0	Contingency per SC011! An earth-pointing rolling attitude allows the sun to
CIRS_272RC_COMPUNLC3001_PRIME	C, U, V	2017-124T04:13:00		000T05:35:00	2017-124T09:48:00	CIRS_FP1 to Rings	NEG_X to 184.7/33.0	be in all four quadrants of the sun sensors.
SP_272EA_YGAP124_PRIME	E	2017-124T09:48:00		000T01:30:00	2017-124T11:18:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP_272EA_C34BWGNON124_PRIME	C, R	2017-124T11:18:00		000T09:00:00	2017-124T20:18:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	Rolling	
ISS_272RI_FNTHPLE001_PRIME	V	2017-124T20:18:00		000T13:25:00	2017-125T09:43:00	ISS_NAC to Rings	NEG_X to 184.7/33.0	
SP_272EA_YGAP125_PRIME	E	2017-125T09:43:00		000T01:30:00	2017-125T11:13:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP_272EA_C34BWGNON125_PRIME	C, R	2017-125T11:13:00		000T09:00:00	2017-125T20:13:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	Rolling	
CIRS_2720T_STRALTCAL020_PRIME		2017-125T20:13:00		000T07:45:00	2017-126T03:58:00	CIRS_FPB to Retargetable	PIC	This request may be moved within the remaining FRPO XD segments.
Apoapse Per = 6.4 d, inc = ...		2017-126T00:59:43		000T00:00:01	2017-126T00:59:44			
CIRS_273RA_COMPLITA2001_PRIME	C, U, V	2017-126T03:58:00		000T06:00:00	2017-126T09:58:00	CIRS_FP1 to Rings	NEG_X to NSP	
SP_273EA_YGAP126_PRIME	E	2017-126T09:58:00		000T01:30:00	2017-126T11:28:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	
SP_273EA_C70METN0126_PRIME	C	2017-126T11:28:00		000T09:00:00	2017-126T20:28:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	MIMI. NEG_Y to Saturn (0.0,-9.5)
UVIS_273SA_AURSLW001_PRIME	C, V	2017-126T20:28:00		000T04:50:00	2017-127T01:18:00	UVIS_FUV to Saturn	POS_Z to NSP	
SP_273EA_M34BWGNON127_PRIME	R	2017-127T01:18:00		000T03:01:00	2017-127T04:19:00	XBAND to Earth (0.0,0.0,-9.5 deg. offset)	NEG_Y to Saturn	MIMI. NEG_Y to Saturn (0.0,-9.5)
TOST_273_IN Segment		2017-127T04:19:00		001T13:54:00	2017-128T18:13:00			
SP_273TI_WAYPTTURN127_PRIME		2017-127T04:19:00		000T00:40:00	2017-127T04:59:00	NEG_Y to Titan	NEG_Z to Sun	
NEW WAYPOINT		2017-127T04:59:00		001T03:27:00	2017-128T08:26:00	NEG_Y to Titan	NEG_Z to Sun	
ISS_273TI_LRMONITOR001_PRIME	C, V	2017-127T04:59:00		000T05:00:00	2017-127T09:59:00	ISS_NAC to Titan	NEG_Z to Sun	
ISS_273TI_LRMONITOR002_PRIME	C, V	2017-127T09:59:00		000T05:00:00	2017-127T14:59:00	ISS_NAC to Titan	NEG_Z to Sun	Collaborative Rider(s): CIRS
ISS_273TI_LRMONITOR003_PRIME	C, V	2017-127T14:59:00		000T04:03:00	2017-127T19:02:00	ISS_NAC to Titan	NEG_Z to Sun	Collaborative Rider(s): CIRS. NEG_Z to Sun for CIRS
CIRS_273TI_MDIRTMAP001_PRIME	I	2017-127T19:02:00		000T03:00:00	2017-127T22:02:00	CIRS_FPB to Titan	NEG_Z to Sun	Template A2: CIRS-ISS
273TI (nt) TITAN Inboun...		2017-127T20:32:14		000T00:00:01	2017-127T20:32:15			
ISS_273TI_LRMONITOR004_PRIME	C, V	2017-127T22:02:00		000T04:00:00	2017-128T02:02:00	ISS_NAC to Titan	NEG_Z to Sun	Collaborative Rider(s): CIRS. NEG_Z to Sun for CIRS
ISS_273TI_LRMONITOR005_PRIME	C, V	2017-128T02:02:00		000T04:44:00	2017-128T06:46:00	ISS_NAC to Titan	NEG_Z to Sun	Collaborative Rider(s): CIRS. NEG_Z to Sun for CIRS
ISS_273TI_TIPHA001_PIE	C, V	2017-128T06:46:00		000T01:00:00	2017-128T07:46:00	ISS_NAC to Titan	NEG_Z to Sun	NEG_Z to Sun for CIRS
SP_273EA_DLTURN128_PRIME		2017-128T07:46:00		000T00:40:00	2017-128T08:26:00	XBAND to Earth	NEG_Y to 127.0/-37.0	
NEW WAYPOINT		2017-128T08:26:00		001T12:46:00	2017-129T21:12:00	XBAND to Earth	NEG_Y to 127.0/-37.0	
SP_273EA_YGAP128_PRIME	E, R	2017-128T08:26:00		000T01:30:00	2017-128T09:56:00	XBAND to Earth	NEG_Y to 127.0/-37.0	
SP_273EA_C70METN0128_PRIME	C, R	2017-128T09:56:00		000T08:17:00	2017-128T18:13:00	XBAND to Earth	NEG_Y to 127.0/-37.0	MIMI. NEG_Y to Saturn (0.0,-9.5) RA/DEC
MAPS_273 Segment		2017-128T18:13:00		004T01:38:00	2017-132T19:51:00			
SP_273EA_C34BWGRSS128_PRIME	M, R	2017-128T18:13:00		000T03:45:00	2017-128T21:58:00	XBAND to Earth	Rolling	Collaborative Rider(s): CDA, MAG. MAG/RSS collaborative POST. RSS Gravity
SP_273EA_M34BWGRSS128_PRIME	M, R	2017-128T21:58:00		000T07:27:00	2017-129T05:25:00	XBAND to Earth	Rolling	Collaborative Rider(s): CDA, MAG. MAG/RSS collaborative POST. RSS Gravity
RSS_273RI_PERIOCC001_PRIME	C, M, R	2017-129T05:25:00		000T02:06:00	2017-129T07:31:00	XBAND to Earth	Rolling/SRU	Collaborative Rider(s): CDA, MAG. Roll initiated in previous SP request.
Periapse R = 1.043 Rs, lat ...		2017-129T06:16:39		000T00:00:01	2017-129T06:16:40			
SP_273EA_G34BWGRSS129_PRIME	C, M, R	2017-129T07:31:00		000T02:15:00	2017-129T09:46:00	XBAND to Earth	Rolling	Collaborative Rider(s): CDA, MAG. MAG/RSS collaborative POST. RSS Gravity
RSS_273RI_INGOCC001_PRIME	C, M, R	2017-129T09:46:00		000T05:06:00	2017-129T14:52:00	XBAND to Earth	NEG_X to NSP	Collaborative Rider(s): CDA
RSS_273RI_EGROCC001_PRIME	M, R	2017-129T14:52:00		000T05:40:00	2017-129T20:32:00	XBAND to Earth	NEG_X to NSP	Collaborative Rider(s): CDA
SP_273EA_WAYPTTURN129_PRIME		2017-129T20:32:00		000T00:40:00	2017-129T21:12:00	VIMS_IR to 88.79/7.41	NEG_X to NSP	
NEW WAYPOINT		2017-129T21:12:00		000T13:46:00	2017-130T10:58:00	VIMS_IR to 88.79/7.41	NEG_X to NSP	
273TI (nt) TITAN Outbou...		2017-129T21:09:02		000T00:00:01	2017-129T21:09:03			
ISS_273TI_M90R1CLD129_PRIME	C, V	2017-129T21:12:00		000T02:03:00	2017-129T23:15:00	ISS_NAC to Titan	NEG_X to NSP	No Preference to secondary pointing
VIMS_273SA_ALPORIOCC001_PIE		2017-129T23:15:00		000T01:10:00	2017-130T00:25:00	VIMS_IR to 88.793/7.407	NEG_X to NSP	No Preference to secondary pointing
UVIS_273SA_AURSTARE001_PRIME		2017-130T00:25:00		000T09:53:00	2017-130T10:18:00	UVIS_FUV to Saturn	NEG_X to NSP	
SP_273EA_DLTURN130_PRIME		2017-130T10:18:00		000T00:40:00	2017-130T10:58:00	XBAND to Earth	POS_X to 6.4/-23.3	
NEW WAYPOINT		2017-130T10:58:00		002T09:23:00	2017-132T20:21:00	XBAND to Earth	POS_X to 6.4/-23.3	
SP_273EA_C34BWGOTP130_PRIME	C, E, N	2017-130T10:58:00		000T09:00:00	2017-130T19:58:00	XBAND to Earth	4_Hr_Rolling	OTP. POS_X to 6.4/-23.3 (MIMI RADEC equivalent)
CDA_273DR_TITANREGN001_PRIME		2017-130T19:58:00		000T19:02:00	2017-131T15:00:00	XBAND to Earth (0.0,0.0,5.0 deg. offset)	POS_X to 6.4/-23.3	
ISS_2730T_BEBPOL065_PRIME	M	2017-131T15:00:00		000T18:21:00	2017-132T09:21:00	UVIS_FUV to Rocks	POS_Z to NSP	Collaborative Rider(s): CDA
SP_273EA_YGAP132_PRIME	E	2017-132T09:21:00		000T01:30:00	2017-132T10:51:00	XBAND to Earth	POS_X to 6.4/-23.3	
SP_273EA_C70METN0132_PRIME	C	2017-132T10:51:00		000T09:00:00	2017-132T19:51:00	XBAND to Earth	Rolling	
Apoapse Per = 6.4 d, inc = ...		2017-132T11:30:49		000T00:00:01	2017-132T11:30:50			
RINGS_274 Segment		2017-132T19:51:00		005T23:30:00	2017-138T19:21:00			
SP_274SA_WAYPTTURN132_PRIME		2017-132T19:51:00		000T00:30:00	2017-132T20:21:00	ISS_NAC to Saturn	NEG_X to 183.6/32.9	
NEW WAYPOINT		2017-132T20:21:00		002T01:48:00	2017-134T22:09:00	ISS_NAC to Saturn	NEG_X to 183.6/32.9	
MAG_274SU_LFCALROLL001_PRIME	U	2017-132T20:21:00		000T08:02:00	2017-133T04:23:00	NEG_X to Earth (0.0,0.0,-30.0 deg. offset)	Rolling	
CIRS_274RB_COMPLITB2001_PRIME	C, U, V	2017-133T04:23:00		000T08:00:00	2017-133T12:23:00	CIRS_FP1 to Rings	NEG_X to 183.6/32.9	No Preference to secondary pointing
VIMS_274SA_ALPCMAOCC001_PRIME	C, U, V	2017-133T12:23:00		000T01:19:00	2017-133T13:42:00	VIMS_IR to 101.287/-16.716	NEG_X to 183.6/32.9	
ISS_274RF_FMOVIE001_PRIME	C, U, V	2017-133T13:42:00		000T04:54:00	2017-133T18:36:00	ISS_NAC to Rings	NEG_X to 183.6/32.9	
VIMS_274RI_ALPCMAOCC001_PRIME	C, U	2017-133T18:36:00		000T05:27:00	2017-134T00:03:00	VIMS_IR to 101.287/-16.716	NEG_X to 183.6/32.9	
ISS_274RF_FMOVIE002_PRIME	C, U, V	2017-134T00:03:00		000T11:32:00	2017-134T11:35:00	ISS_NAC to Rings	NEG_X to 183.6/32.9	
SP_274EA_DLTURN134_PRIME		2017-134T11:35:00		000T00:40:00	2017-134T12:15:00	XBAND to Earth	POS_X to 6.4/-23.3	MIMI.
SP_274EA_C70METOTB134_PRIME	C, E, N	2017-134T12:15:00		000T09:14:00	2017-134T21:29:00	XBAND to Earth	POS_X to 6.4/-23.3	SEQ uplink pass. OTB, secondary matches OTP (MIMI equivalent)
SP_274SA_WAYPTTURN134_PRIME		2017-134T21:29:00		000T00:40:00	2017-134T22:09:00	ISS_NAC to Saturn	NEG_X to 183.3/32.9	
NEW WAYPOINT		2017-134T22:09:00		000T05:05:00	2017-135T03:14:00	ISS_NAC to Saturn	NEG_X to 183.3/32.9	
ISS_274TI_M150R2HZ134_PRIME	C, V	2017-134T22:09:00	E274_M150R2HZ134+000T00:00:00	000T01:30:00	2017-134T23:39:00	ISS_NAC to Titan	NEG_X to 183.3/32.9	No Preference to secondary pointing
VIMS_274RI_ALPCMACAL001_PRIME		2017-134T23:39:00		000T02:00:00	2017-135T01:39:00	VIMS_IR to 101.287/-16.716	NEG_X to 183.6/32.9	

ISS_274RI_PROPRETREG001_PRIME	C, U	2017-135T01:39:00	000T00:55:00	2017-135T02:34:00	ISS_NAC to Rings	NEG_X to 183.3/32.9	No Preference to secondary pointing. No Preference to secondary pointing
SP_274EA_DLTURN434_PRIME	R	2017-135T02:34:00	000T00:40:00	2017-135T03:14:00	XBAND to Earth	NEG_X to 50.78/-63.65	
NEW WAYPOINT		2017-135T03:14:00	001T16:55:00	2017-136T20:09:00	XBAND to Earth	NEG_X to 50.78/-63.65	
SP_274EA_YGAP135_PRIME	E, R	2017-135T03:14:00	000T01:30:00	2017-135T04:44:00	XBAND to Earth	NEG_X to 50.78/-63.65	
SP_274EA_G34BWGRSS135_PRIME	C, M, R	2017-135T04:44:00	000T06:00:00	2017-135T10:44:00	XBAND to Earth	NEG_X to 50.78/-63.65	Collaborative Rider(s): CDA, RSS Gravity
SP_274EA_C34BWGRSS135_PRIME	M, R	2017-135T10:44:00	000T05:09:00	2017-135T15:53:00	XBAND to Earth	NEG_X to 50.78/-63.65	Collaborative Rider(s): CDA, RSS Gravity
RSS_274RI_PERIOCC001_PRIME	M, R	2017-135T15:53:00	000T02:07:00	2017-135T18:00:00	XBAND to Earth	NEG_X to 50.78/-63.65	Collaborative Rider(s): CDA
Periapse R = 1.042 Rs, lat ...		2017-135T16:45:20	000T00:00:01	2017-135T16:45:21			
SP_274EA_C34BWGRSS535_PRIME	M, R	2017-135T18:00:00	000T02:16:00	2017-135T20:16:00	XBAND to Earth	NEG_X to 50.78/-63.65	Collaborative Rider(s): CDA, RSS Gravity
RSS_274RI_INGOCC001_PRIME	M, R	2017-135T20:16:00	000T04:52:00	2017-136T01:08:00	XBAND to Earth	NEG_X to 50.78/-63.65	Collaborative Rider(s): CDA
RSS_274RI_EGROCC001_PRIME	M, R	2017-136T01:08:00	000T05:51:00	2017-136T06:59:00	XBAND to Earth	NEG_X to 50.78/-63.65	Collaborative Rider(s): CDA
VIMS_274ST_STARCAL001_PRIME		2017-136T06:59:00	000T02:00:00	2017-136T08:59:00	VIMS_IR to 326.046/9.875	NEG_X to 50.78/-63.65	
SP_274EA_YGAP136_PRIME	E	2017-136T08:59:00	000T01:30:00	2017-136T10:29:00	XBAND to Earth	NEG_X to 50.78/-63.65	
SP_274EA_C34BWGSEQ136_PRIME	C	2017-136T10:29:00	000T09:00:00	2017-136T19:29:00	XBAND to Earth	Rolling	
SP_274EA_WAYPTTURN136_PRIME		2017-136T19:29:00	000T00:40:00	2017-136T20:09:00	ISS_NAC to Saturn	NEG_X to 182.5/32.8	
NEW WAYPOINT		2017-136T20:09:00	001T12:42:00	2017-138T08:51:00	ISS_NAC to Saturn	NEG_X to 182.5/32.8	
CIRS_274RI_COMPUNLCD001_PRIME	C, U, V	2017-136T20:09:00	000T07:00:00	2017-137T03:09:00	CIRS_FP1 to Rings	NEG_X to 182.5/32.8	
CIRS_274RI_ANSASTARE001_PRIME	C, I, U	2017-137T03:09:00	000T14:00:00	2017-137T17:09:00	CIRS_FP1 to Rings	NEG_X to 182.5/32.8	
ISS_274RI_FNTHPLE001_PRIME	C, U, V	2017-137T17:09:00	000T15:02:00	2017-138T08:11:00	ISS_NAC to Rings	NEG_X to 165.0/40.0	
SP_274EA_DLTURN138_PRIME		2017-138T08:11:00	000T00:40:00	2017-138T08:51:00	XBAND to Earth	NEG_Y to Saturn	CDA secondary
NEW WAYPOINT		2017-138T08:51:00	000T11:10:00	2017-138T20:01:00	XBAND to Earth	NEG_Y to Saturn	
SP_274EA_YGAP138_PRIME	E	2017-138T08:51:00	000T01:30:00	2017-138T10:21:00	XBAND to Earth	NEG_Y to Saturn	CDA secondary
SP_274EA_C70METSEQ138_PRIME	C	2017-138T10:21:00	000T09:00:00	2017-138T19:21:00	XBAND to Earth	Rolling	
SATURN_275 Segment		2017-138T19:21:00	004T16:53:00	2017-143T12:14:00			
SP_274EA_WAYPTTURN138_PRIME		2017-138T19:21:00	000T00:40:00	2017-138T20:01:00	ISS_NAC to Saturn	NEG_X to NSP	
NEW WAYPOINT		2017-138T20:01:00	000T12:50:00	2017-139T08:51:00	ISS_NAC to Saturn	NEG_X to NSP	
ISS_274SA_LIMBINT001_PRIME	U, V	2017-138T20:01:00	000T01:40:00	2017-138T21:41:00	ISS_NAC to Saturn	NEG_X to NSP	
VIMS_274SA_GLOBMAP001_PRIME	C, U	2017-138T21:41:00	000T10:30:00	2017-139T08:11:00	ISS_NAC to Saturn	NEG_X to NSP	
Apoapse Per = 6.4 d, inc = ...		2017-138T21:59:51	000T00:00:01	2017-138T21:59:52			
SP_275EA_DLTURN139_PRIME		2017-139T08:11:00	000T00:40:00	2017-139T08:51:00	XBAND to Earth	NEG_X to NSP	
NEW WAYPOINT		2017-139T08:51:00	000T11:04:00	2017-139T19:55:00	XBAND to Earth	NEG_X to NSP	
SP_275EA_YGAP139_PRIME	E	2017-139T08:51:00	000T01:30:00	2017-139T10:21:00	XBAND to Earth	NEG_X to NSP	
SP_275EA_C34BWGSEQ139_PRIME	C, R	2017-139T10:21:00	000T09:00:00	2017-139T19:21:00	XBAND to Earth	Rolling	
SP_275EA_WAYPTTURN139_PRIME		2017-139T19:21:00	000T00:34:00	2017-139T19:55:00	ISS_NAC to Saturn	POS_Z to NSP	
NEW WAYPOINT		2017-139T19:55:00	000T12:56:00	2017-140T08:51:00	ISS_NAC to Saturn	POS_Z to NSP	
VIMS_275SA_ALPCMAOCC001_PIE	U	2017-139T19:55:00	000T01:05:00	2017-139T21:00:00	UVIS_FUV to 101.287/-16.716 (0.258,0.0,0.0 deg. offset)	POS_Z to NSP	
CIRS_275SA_MIRTMAP001_PRIME	V	2017-139T21:00:00	000T11:11:00	2017-140T08:11:00	CIRS_FP3 to Saturn	POS_Z to NSP	
SP_275EA_DLTURN140_PRIME		2017-140T08:11:00	000T00:40:00	2017-140T08:51:00	XBAND to Earth	POS_X to 10.23/-33.96	
NEW WAYPOINT		2017-140T08:51:00	000T11:10:00	2017-140T20:01:00	XBAND to Earth	POS_X to 10.23/-33.96	
SP_275EA_YGAP140_PRIME	E	2017-140T08:51:00	000T01:30:00	2017-140T10:21:00	XBAND to Earth	POS_X to 10.23/-33.96	
SP_275EA_C70METSEQ140_PRIME	C	2017-140T10:21:00	000T09:00:00	2017-140T19:21:00	XBAND to Earth	POS_X to 10.23/-33.96	MIMI, NEG_Y to Saturn (0,0,-9.5)
SP_275EA_WAYPTTURN140_PRIME		2017-140T19:21:00	000T00:40:00	2017-140T20:01:00	ISS_NAC to Saturn	POS_Z to NSP	
NEW WAYPOINT		2017-140T20:01:00	000T17:56:00	2017-141T13:57:00	ISS_NAC to Saturn	POS_Z to NSP	
CIRS_275SA_MIRMAP001_PRIME	U, V	2017-140T20:01:00	000T12:00:00	2017-141T08:01:00	CIRS_FP3 to Saturn	POS_Z to NSP	
VIMS_275SA_NHEMMAPO01_PRIME	C, I, U	2017-141T08:01:00	000T05:03:00	2017-141T13:04:00	ISS_NAC to Saturn	POS_Z to NSP	
SP_275EA_DLTURN141_PRIME	R	2017-141T13:04:00	000T00:40:00	2017-141T13:44:00	XBAND to Earth	NEG_Y to NSP	
SP_275EA_DLTURN441_PRIME	R	2017-141T13:44:00	000T00:13:00	2017-141T13:57:00	XBAND to Earth	POS_X to 230.3/63.6	
NEW WAYPOINT		2017-141T13:57:00	001T03:47:00	2017-142T17:44:00	XBAND to Earth	POS_X to 230.3/63.6	
SP_275EA_YGAP141_PRIME	E, R	2017-141T13:57:00	000T01:17:00	2017-141T15:14:00	XBAND to Earth	POS_X to 230.3/63.6	
SP_275EA_C34BWGRSS141_PRIME	C, M, R	2017-141T15:14:00	000T03:45:00	2017-141T20:59:00	XBAND to Earth	POS_X to 230.3/63.6	Collaborative Rider(s): CDA, RSS Gravity
SP_275EA_M34BWGRSS141_PRIME	M, R	2017-141T20:59:00	000T05:23:00	2017-142T02:22:00	XBAND to Earth	POS_X to 230.3/63.6	Collaborative Rider(s): CDA, RSS Gravity
RSS_275RI_PERIOCC001_PRIME	M, R	2017-142T02:22:00	000T02:07:00	2017-142T04:29:00	XBAND to Earth	POS_X to 230.3/63.6	Collaborative Rider(s): CDA
Periapse R = 1.043 Rs, lat ...		2017-142T03:14:27	000T00:00:01	2017-142T03:14:28			
SP_275EA_G70METRSS142_PRIME	C, M, R	2017-142T04:29:00	000T02:18:00	2017-142T06:47:00	XBAND to Earth	POS_X to 230.3/63.6	Collaborative Rider(s): CDA, RSS Gravity
RSS_275RI_INGOCC001_PRIME	M, R	2017-142T06:47:00	000T04:35:00	2017-142T11:22:00	XBAND to Earth	POS_X to 230.3/63.6	Collaborative Rider(s): CDA
RSS_275RI_EGROCC001_PRIME	M, R	2017-142T11:22:00	000T05:57:00	2017-142T17:19:00	XBAND to Earth	POS_X to 230.3/63.6	Collaborative Rider(s): CDA
SP_275EA_WAYPTTURN142_PRIME		2017-142T17:19:00	000T00:25:00	2017-142T17:44:00	ISS_NAC to Saturn (-10.0,-8.0,0.0 deg. offset)	NEG_Z to NSP	
NEW WAYPOINT		2017-142T17:44:00	000T08:45:00	2017-143T02:29:00	ISS_NAC to Saturn (-10.0,-8.0,0.0 deg. offset)	NEG_Z to NSP	
UVIS_275SA_AURSLW001_PRIME		2017-142T17:44:00	000T03:54:00	2017-142T21:38:00	UVIS_FUV to Saturn	NEG_Z to NSP	
VIMS_275SA_ALPORIOCC002_PRIME		2017-142T21:38:00	000T01:10:00	2017-142T22:48:00	VIMS_IR to 88.793/7.407	POS_X to 1.899/-21.897	
UVIS_275SA_AURNSTARE001_PRIME	I	2017-142T22:48:00	000T03:16:00	2017-143T02:04:00	UVIS_FUV to Saturn	NEG_Z to NSP	
SP_275EA_DLTURN143_PRIME		2017-143T02:04:00	000T00:25:00	2017-143T02:29:00	XBAND to Earth	POS_X to NSP	
NEW WAYPOINT		2017-143T02:29:00	000T10:25:00	2017-143T12:54:00	XBAND to Earth	POS_X to NSP	
SP_275EA_YGAP143_PRIME	E	2017-143T02:29:00	000T01:30:00	2017-143T03:59:00	XBAND to Earth	POS_X to NSP	
SP_275EA_G70METSEQ143_PRIME	C	2017-143T03:59:00	000T08:15:00	2017-143T12:14:00	XBAND to Earth	Rolling	
TOST_275 Segment		2017-143T12:14:00	001T20:43:00	2017-145T08:57:00			
SP_275TI_WAYPTTURN143_PRIME		2017-143T12:14:00	000T00:40:00	2017-143T12:54:00	NEG_Y to Titan	NEG_X to Sun	
NEW WAYPOINT		2017-143T12:54:00	001T07:50:00	2017-144T20:44:00	NEG_Y to Titan	NEG_X to Sun	
ISS_275TI_LRMONITOR001_PRIME	C, V	2017-143T12:54:00	000T01:50:00	2017-143T14:44:00	ISS_NAC to Titan	NEG_X to Sun	
VIMS_275DI_HIPHASE001_PIE	C, I, U	2017-143T14:44:00	000T02:00:00	2017-143T16:44:00	ISS_NAC to Dione	NEG_X to Sun	Collaborative Rider(s): ISS, any robot friendly secondary
CIRS_275TI_MIRLMBINT001_PRIME	I, U, V	2017-143T16:44:00	000T06:34:00	2017-143T23:18:00	CIRS_FPB to Titan	PIC	
RADAR_275TI_ALTIMETRY001_PIE		2017-143T23:18:00	000T02:00:00	2017-144T01:18:00	NEG_Z to Titan	NEG_X to NTP	
275TI (nt) TITAN Outbou...		2017-144T00:18:12	000T00:00:01	2017-144T00:18:13			
CIRS_275TI_FIRNADMAP002_PRIME	U, V	2017-144T01:18:00	000T04:15:00	2017-144T05:33:00	CIRS_FP1 to Titan	NEG_X to Sun	
ISS_275TI_LRMONITOR002_PRIME	C, V	2017-144T05:33:00	000T01:00:00	2017-144T06:33:00	ISS_NAC to Titan	NEG_X to Sun	
CIRS_275TI_MIRLMBMAP002_PRIME	V	2017-144T06:33:00	000T04:00:00	2017-144T10:33:00	CIRS_FPB to Titan	PIC	

ISS_275TI_LRMONITOR003_PRIME	C, V	2017-144T10:33:00	000T01:00:00	2017-144T11:33:00	ISS_NAC to Titan	NEG_X to Sun	
CIRS_275TI_MIDIRTMAP002_PRIME	I, V	2017-144T11:33:00	000T04:00:00	2017-144T15:33:00	CIRS_FPB to Titan	NEG_X to Sun	Template A2: CIRS-ISS
ISS_275TI_LRMONITOR004_PRIME	C, V	2017-144T15:33:00	000T04:31:00	2017-144T20:04:00	ISS_NAC to Titan	NEG_X to Sun	
SP_275EA_DLTURN144_PRIME		2017-144T20:04:00	000T00:40:00	2017-144T20:44:00	XBAND to Earth	NEG_Y to 141.0/-53.0	MIMI Attitude (converted to RA/DEC secondary).
NEW WAYPOINT		2017-144T20:44:00	000T12:13:00	2017-145T08:57:00	XBAND to Earth	NEG_Y to 141.0/-53.0	
SP_275EA_M70METSEQ144_PRIME	C, R	2017-144T20:44:00	000T07:45:00	2017-145T04:29:00	XBAND to Earth	Rolling	
SP_275EA_G70METNON145_PRIME	C	2017-145T04:29:00	000T04:28:00	2017-145T08:57:00	XBAND to Earth	Rolling	
Apoapse Per = 6.5 d, inc =...		2017-145T08:50:37	000T00:00:01	2017-145T08:50:38			