

# **TOST: Clean up**

## **048TI (T34)**

Segment: 2007-199T00:51:00 – 2007-201T00:36:00

Titan C/A: 2007-200T00:41:02, Altitude = 1301 km

Epoch: GMB\_E048\_Titan34

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## High-Level Science Objectives

- ISS – T34 is unique in that it provides the only opportunity for ISS to observe the equatorial, central part of Titan's dark region at high resolution (better than 50 m/pixel). Moreover the phase angle is low (13-40 deg), which we expect to be best for imaging the surface.
- RSS - The bistatic scattering measurements at three radio wavelengths will determine the physical properties of Titan's surface, including reflectivity, dielectric constant, and roughness.

## C/A= 2007-200T00:41:02 @ 1301 km; Unilluminated Approach

Start Time	End Time	Prime Activity	Obs. Detail	Op Mode	TLM Mode	Comments
199T00:51	199T01:21	SP Turn to waypoint		DFPW Normal	S_N_ER_3	-Y Titan, -X to 330, -16.0
199T01:21	199T01:36	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
-23:03	-16:00	CIRS	Mid-IR T Map	DFPW Normal	S_N_ER_3	Template M (modified)
-16:00	-15:00	ISS		DFPW Normal	S_N_ER_3	Template M
-15:00	-13:00	CIRS		DFPW Normal	S_N_ER_3	Template M
-13:00	-09:00	VIMS	Cloud Map	DFPW Normal	S_N_ER_3	Template O
-09:00	-05:00	UVIS	EUVFUV	DFPW Normal	S_N_ER_3	Template P
-05:00	-03:51	UVIS	EUVFUV	DFPW Normal	S_N_ER_3	Template U
-03:51	-03:30	Transition to RCS	(0.5,0.5,0.5)	ORS/RCS	S_N_ER_3	Template U
-03:30	-03:00	UVIS		RSS3/RCS	S_N_ER_3	
-03:00	-01:38	ISS		RSS3/RCS	S_N_ER_3	
-01:38	-01:30	Turn (RSS pick up at WP)		RSS3/RCS	S_N_ER_3	
-01:30	-00:05	RSS - leave off at WP	Bistatic	RSS3/RCS	S&ER2 (from -0:30 to -0:05)	Secondary +Y to NSP for MAPS
-00:05	+00:29	ISS	High Res	RSS3/RCS	S_N_ER_3	ck TMC constraints
+00:29	+00:53	Transition to RWA		DFPW Normal	S_N_ER_3	
+00:53	+04:00	ISS	Regional Map	DFPW Normal	S_N_ER_3	Template J
+04:00	+05:00	CIRS		DFPW Normal	S_N_ER_3	Template J
+05:00	+08:36	ISS	Global Map	DFPW Normal	S_N_ER_3	Template H
+08:36	+09:00	ISS	WAC Photom	DFPW Normal	S_N_ER_3	Template H
+09:00	+14:11	CIRS		DFPW Normal	S_N_ER_3	Template C (modified)
200T14:51	200T15:06	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
200T15:06	200T15:36	SP Turn to downlink		DFPW Normal	S_N_ER_3	

## Power Issues

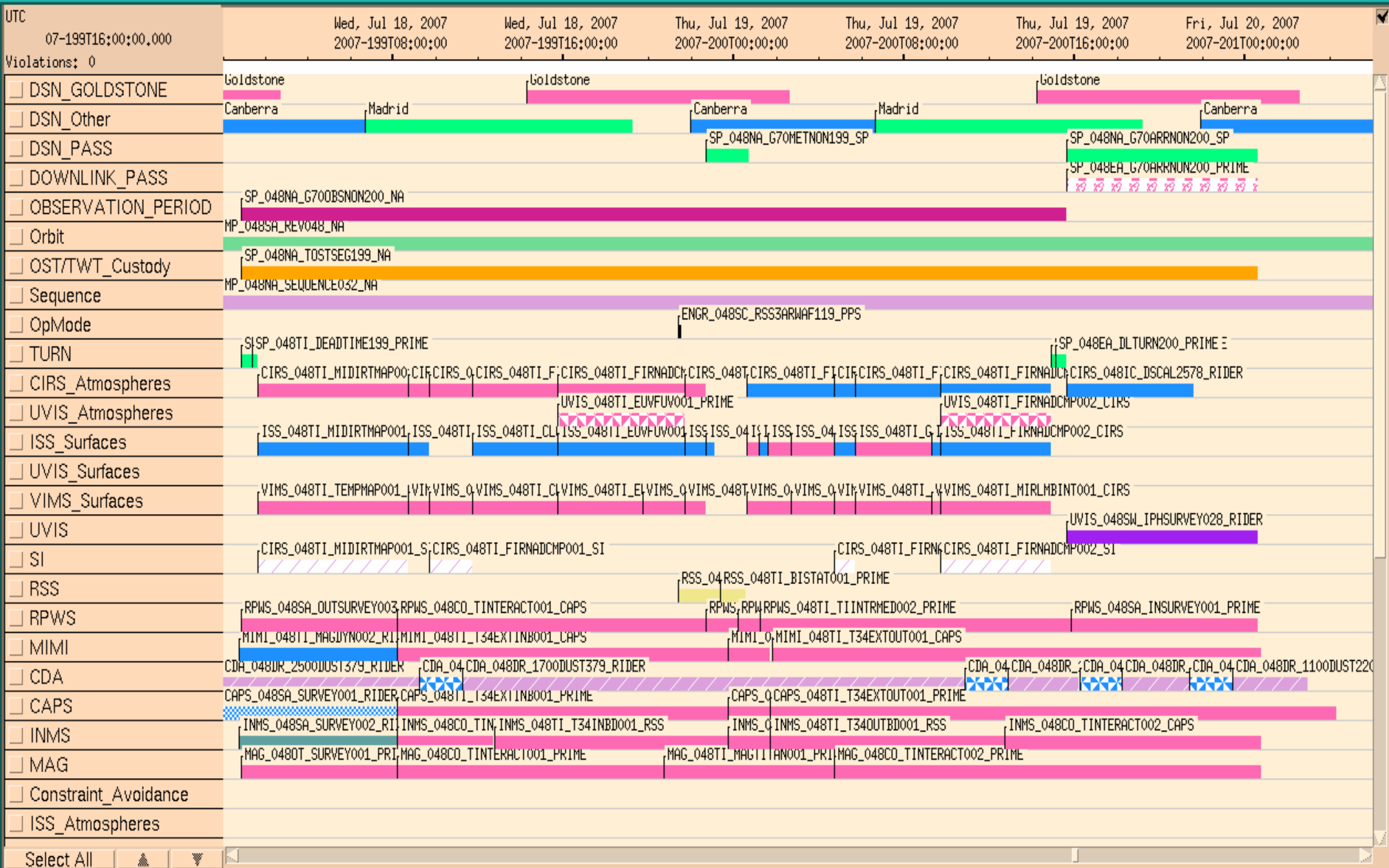
- To have enough power to warm up RSS and the catbed heaters (required for RCS), we will transition to ORS/RCS from -03:51 to -03:30. We will then transition to RSS3/RCS from -03:30 to -03:24, but this does not need to be prime.

UVIS and ISS agreed to do this so that RSS could have the full 2 hours to warm up.

- Deadband of (.5,.5,.5) will be used to satisfy both ORS and RSS pointing needs.
- NO INSTRUMENT TEAMS HAVE TO GO TO SLEEP.

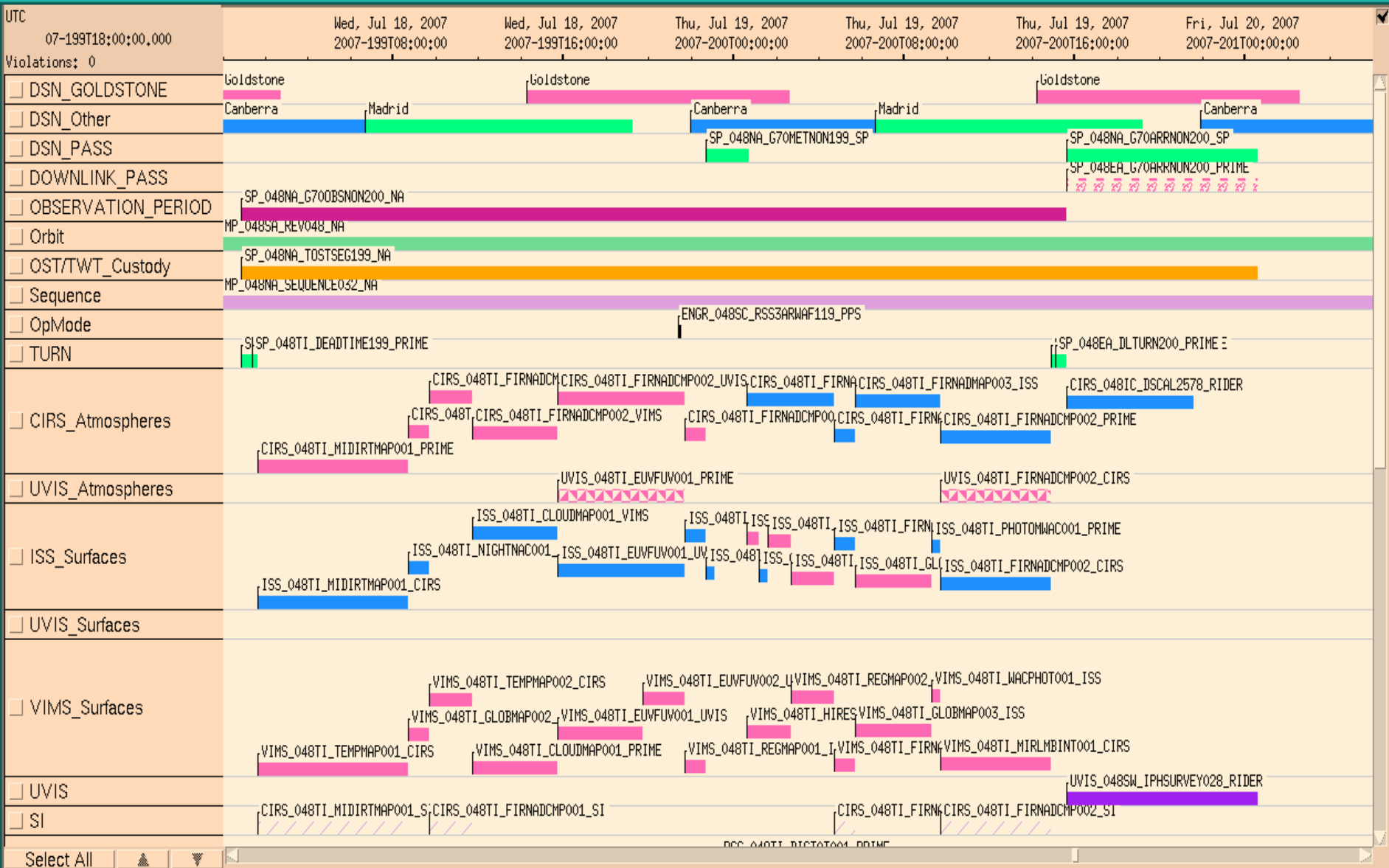
# 048TI (Titan-34 Flyby)

File Edit Activity Resource Constraints Scheduling Act Display Res Display



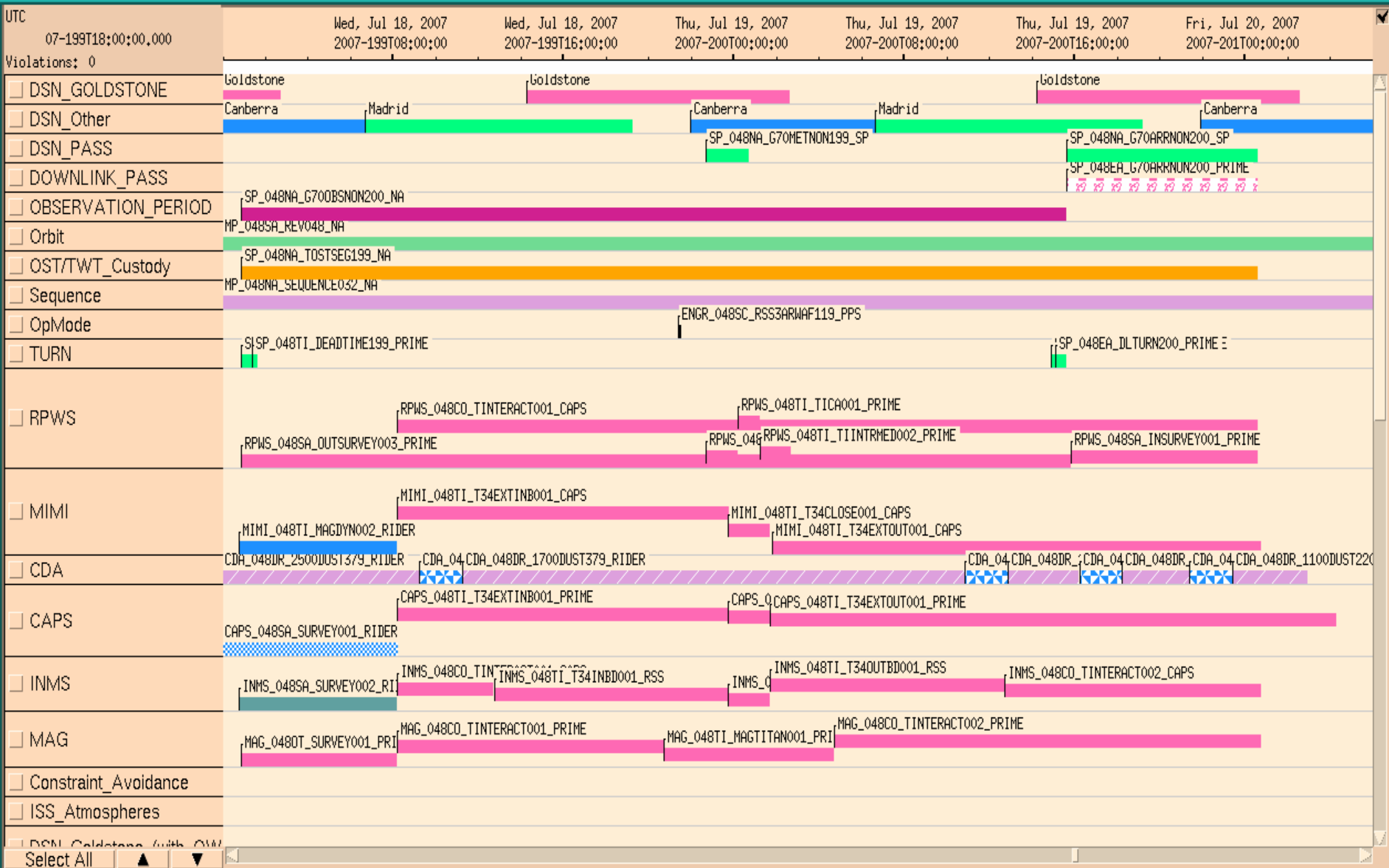
# 048TI (Titan-34 ORS)

File Edit Activity Resource Constraints Scheduling Act Display Res Display



# 048TI (Titan-34 MAPS)

File Edit Activity Resource Constraints Scheduling Act Display Res Display



Request	Start Time	Epoch Relative Start Time	Duration	EndTime	Rate	Mb	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
CAPS_048SA_SURVEY001_RIDER	2007-198T18:14:56		001T04:26:06	2007-199T22:41:02	1000	102.366	Non-SPASS			
CAPS_048SA_SURVEY003_RIDER	2007-200T02:41:02	GMB_E048_Titan34+000T02:00:00	000T12:54:58	2007-200T15:36:00	1000	46.498	Non-SPASS			
CAPS_048TI_T34CLOSE001_PRIME	2007-199T23:41:02	GMB_E048_Titan34-000T01:00:00	000T02:00:00	2007-200T01:41:02	16000	115.2	SPASS Rider			
CAPS_048TI_T34EXTOUT001_PRIME	2007-200T15:36:00		000T12:40:00	2007-201T04:16:00	4000	182.4	SPASS Rider			
CAPS_048TI_T34INBD001_PRIME	2007-199T22:41:02	GMB_E048_Titan34-000T02:00:00	000T01:00:00	2007-199T23:41:02	4000	14.4	SPASS Rider			
CAPS_048TI_T34OUTBD001_PRIME	2007-200T01:41:02	GMB_E048_Titan34+000T01:00:00	000T01:00:00	2007-200T02:41:02	4000	14.4	SPASS Rider			
CDA_048DR_1100DUST220_RIDER	2007-200T23:23:50		000T03:32:24	2007-201T02:56:14	524	6.678	Non-SPASS			
CDA_048DR_1300DUST219_RIDER	2007-200T18:13:23		000T03:08:22	2007-200T21:21:45	524	5.922	Non-SPASS			
CDA_048DR_1500DUST218_RIDER	2007-200T12:50:58		000T03:20:27	2007-200T16:11:25	524	6.302	Non-SPASS			
CDA_048DR_1700DUST379_RIDER	2007-199T11:13:37		000T23:35:23	2007-200T10:49:00	149.9	12.727	Non-SPASS			
CDA_048DR_2500DUST379_RIDER	2007-195T01:06:00		004T08:05:40	2007-199T09:11:40	149.9	56.16	Non-SPASS			
CDA_048HY_2400HYORX031_RIDER	2007-199T09:12:41		000T02:00:00	2007-199T11:12:41	524	3.773	Non-SPASS			
CDA_048RI_1200RINGM030_RIDER	2007-200T21:22:48		000T02:00:00	2007-200T23:22:48	524	3.773	Non-SPASS			
CDA_048RI_1400RINGM030_RIDER	2007-200T16:12:27		000T02:00:00	2007-200T18:12:27	524	3.773	Non-SPASS			
CDA_048RI_1600RINGM032_RIDER	2007-200T10:49:59		000T02:00:00	2007-200T12:49:59	524	3.773	Non-SPASS			
CIRS_048IC_DSCAL2578_RIDER	2007-200T15:36:00		000T06:00:00	2007-200T21:36:00	4000	86.4	SPASS Rider			
CIRS_048TI_FIRNADCMP001_ISS	2007-199T08:41:02	GMB_E048_Titan34-000T16:00:00	000T01:00:00	2007-199T09:41:02	2000	7.2	SPASS Rider			
CIRS_048TI_FIRNADCMP001_PRIME	2007-199T09:41:02	GMB_E048_Titan34-000T15:00:00	000T02:00:00	2007-199T11:41:02	4000	28.8	Prime	CIRS_FP1 to Titan	PIC	
CIRS_048TI_FIRNADCMP001_SI	2007-199T09:41:02	GMB_E048_Titan34-000T15:00:00	000T02:00:00	2007-199T11:41:02	0	2	SPASS Rider			
CIRS_048TI_FIRNADCMP002_ISS	2007-199T21:41:02	GMB_E048_Titan34-000T03:00:00	000T01:00:00	2007-199T22:41:02	2000	7.2	SPASS Rider			
CIRS_048TI_FIRNADCMP002_PRIME	2007-200T09:41:02	GMB_E048_Titan34+000T09:00:00	000T05:11:00	2007-200T14:52:02	4000	74.64	Prime	CIRS_FP1 to Titan	PIC	
CIRS_048TI_FIRNADCMP002_SI	2007-200T09:41:02	GMB_E048_Titan34+000T09:00:00	000T05:11:00	2007-200T14:52:02	0	5	SPASS Rider			
CIRS_048TI_FIRNADCMP002_UVIS	2007-199T15:41:02	GMB_E048_Titan34-000T09:00:00	000T06:00:00	2007-199T21:41:02	2000	43.2	SPASS Rider			
CIRS_048TI_FIRNADCMP002_VIMS	2007-199T11:41:02	GMB_E048_Titan34-000T13:00:00	000T04:00:00	2007-199T15:41:02	3000	43.2	SPASS Rider			
CIRS_048TI_FIRNADMAP002_ISS	2007-200T00:36:02	GMB_E048_Titan34-000T00:05:00	000T04:05:00	2007-200T04:41:02	2000	29.4	SPASS Rider			
CIRS_048TI_FIRNADMAP002_PRIME	2007-200T04:41:02	GMB_E048_Titan34+000T04:00:00	000T01:00:00	2007-200T05:41:02	2000	7.2	Prime	CIRS_FP1 to Titan	POS_X to North_Pole_Dir	
CIRS_048TI_FIRNADMAP002_SI	2007-200T04:41:02	GMB_E048_Titan34+000T04:00:00	000T01:00:00	2007-200T05:41:02	0	1	SPASS Rider			
CIRS_048TI_FIRNADMAP003_ISS	2007-200T05:41:02	GMB_E048_Titan34+000T05:00:00	000T04:00:00	2007-200T09:41:02	4000	57.6	SPASS Rider			
CIRS_048TI_MIDIRTMAP001_PRIME	2007-199T01:38:02	GMB_E048_Titan34-000T23:03:00	000T07:03:00	2007-199T08:41:02	2000	50.76	Prime	CIRS_FPB to Titan	POS_X to North_Pole_Dir	
CIRS_048TI_MIDIRTMAP001_SI	2007-199T01:38:02	GMB_E048_Titan34-000T23:03:00	000T07:03:00	2007-199T08:41:02	0	7	SPASS Rider			
ENGR_048SC_DFPWBIAS200_PPS	2007-200T01:10:02	GMB_E048_Titan34+000T00:29:00	000T00:22:44	2007-200T01:32:46	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
ENGR_048SC_RSSKRWF199_PPS	2007-199T21:21:02	GMB_E048_Titan34-000T03:20:00	000T00:05:26	2007-199T21:26:28	0	0	Non-SPASS			
ENGR_048SC_URSS3RCS199_PPS	2007-199T22:03:02	GMB_E048_Titan34-000T02:38:00	000T00:58:16	2007-199T23:01:18	0	0	Prime	XBAND to Titan		Deadband = (0.5,
INMS_048CO_TINTERACT001_CAPS	2007-199T08:10:08		000T04:30:54	2007-199T12:41:02	100	1.619	Non-SPASS			
INMS_048CO_TINTERACT002_CAPS	2007-200T12:41:02	GMB_E048_Titan34+000T12:00:00	000T12:05:02	2007-201T00:46:04	100	4.35	Non-SPASS			
INMS_048SA_MRO007_RIDER	2007-199T07:37:08		000T00:33:00	2007-199T08:10:08	1044.1	2.067	Non-SPASS			
INMS_048SA_SURVEY002_RIDER	2007-199T00:45:00		000T06:52:08	2007-199T07:37:08	50	1.236	Non-SPASS			
INMS_048TI_T34CLOSE001_CAPS	2007-199T23:41:02	GMB_E048_Titan34-000T01:00:00	000T02:00:00	2007-200T01:41:02	1498	10.786	Non-SPASS			
INMS_048TI_T34INBD001_RSS	2007-199T12:45:07		000T10:55:55	2007-199T23:41:02	100	3.929	Non-SPASS			
INMS_048TI_T34OUTBD001_RSS	2007-200T01:41:02	GMB_E048_Titan34+000T01:00:00	000T11:00:00	2007-200T12:41:02	100	3.96	Non-SPASS			
ISS_048TI_CLOUDMAP001_VIMS	2007-199T11:41:02	GMB_E048_Titan34-000T13:00:00	000T04:00:00	2007-199T15:41:02	0	5	SPASS Rider			
ISS_048TI_EUVFUV001_UVIS	2007-199T15:41:02	GMB_E048_Titan34-000T09:00:00	000T06:00:00	2007-199T21:41:02	0	5	SPASS Rider			
ISS_048TI_FIRNADCMP001_CIRS	2007-199T09:41:02	GMB_E048_Titan34-000T15:00:00	000T02:00:00	2007-199T11:41:02	0	5	SPASS Rider			
ISS_048TI_FIRNADCMP002_CIRS	2007-200T09:41:02	GMB_E048_Titan34+000T09:00:00	000T05:11:00	2007-200T14:52:02	0	5	SPASS Rider			
ISS_048TI_FIRNADMAP002_CIRS	2007-200T04:41:02	GMB_E048_Titan34+000T04:00:00	000T01:00:00	2007-200T05:41:02	0	5	SPASS Rider			
ISS_048TI_GLOBMAP001_PRIME	2007-200T05:41:02	GMB_E048_Titan34+000T05:00:00	000T03:36:00	2007-200T09:17:02	0	200	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_048TI_HIRESNAC001_PRIME	2007-200T01:34:02	GMB_E048_Titan34+000T00:53:00	000T01:07:00	2007-200T02:41:02	0	200	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_048TI_MIDIRTMAP001_CIRS	2007-199T01:38:02	GMB_E048_Titan34-000T23:03:00	000T07:03:00	2007-199T08:41:02	0	5	SPASS Rider			
ISS_048TI_NIGHTNAC001_PRIME	2007-199T08:41:02	GMB_E048_Titan34-000T16:00:00	000T01:00:00	2007-199T09:41:02	0	40	Prime	ISS_NAC to Titan	POS_X to North_Pole_Dir	
ISS_048TI_NIGHTVWAC001_PRIME	2007-199T21:41:02	GMB_E048_Titan34-000T03:00:00	000T01:00:00	2007-199T22:41:02	0	20	Prime	ISS_NAC to Titan	POS_X to North_Pole_Dir	
ISS_048TI_PHOTOMWAC001_PRIME	2007-200T09:17:02	GMB_E048_Titan34+000T08:36:00	000T00:24:00	2007-200T09:41:02	0	30	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_048TI_REGMAP001_PRIME	2007-200T02:41:02	GMB_E048_Titan34+000T02:00:00	000T02:00:00	2007-200T04:41:02	0	260	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_048TI_TRANSITIO002_ENGR	2007-200T01:10:02	GMB_E048_Titan34+000T00:29:00	000T00:24:00	2007-200T01:34:02	0	30	SPASS Rider			
ISS_048TI_VHIRESNAC001_PRIME	2007-200T00:36:02	GMB_E048_Titan34-000T00:05:00	000T00:34:00	2007-200T01:10:02	0	55	Prime	ISS_NAC to Titan	NEG_X to Sun	



MAG_048CO_TINTERACT001_PRIME	2007-199T18:15:46		000T02:25:16	2007-199T20:41:02	1976	17.223	Non-SPASS			
MAG_048CO_TINTERACT002_PRIME	2007-200T04:41:02	GMB_E048_Titan34+000T04:00:00	000T20:03:58	2007-201T00:45:00	1976	142.742	Non-SPASS			
MAG_048OT_SURVEY001_PRIME	2007-199T00:51:00		000T17:24:46	2007-199T18:15:46	600	37.612	Non-SPASS			
MAG_048TI_MAGTITAN001_PRIME	2007-199T20:41:02	GMB_E048_Titan34-000T04:00:00	000T08:00:00	2007-200T04:41:02	1976	56.909	Non-SPASS			
MIMI_048TI_MAGDYN002_RIDER	2007-199T00:45:01		000T07:25:08	2007-199T08:10:09	1200	32.05	SPASS Rider			
MIMI_048TI_T34CLOSE001_CAPS	2007-199T23:41:02	GMB_E048_Titan34-000T01:00:00	000T02:00:00	2007-200T01:41:02	1800	12.96	SPASS Rider			
MIMI_048TI_T34EXTINB001_CAPS	2007-199T08:10:08		000T15:30:54	2007-199T23:41:02	1700	94.952	SPASS Rider			
MIMI_048TI_T34EXTOUT001_CAPS	2007-200T01:41:02	GMB_E048_Titan34+000T01:00:00	000T13:54:58	2007-200T15:36:00	1800	90.176	SPASS Rider			
MIMI_048TI_T34EXTOUT003_CAPS	2007-200T15:36:00		000T09:09:00	2007-201T00:45:00	2000	65.88	SPASS Rider			
MP_048NA_SEQUENCE032_NA	2007-195T01:06:00	E048_SEQUENCE_032+000T00:00	028T22:14:00	2007-223T23:20:00	0	0	SPASS Note			
MP_048SA_REV048_NA	2007-190T09:52:44		031T06:36:45	2007-221T16:29:29	0	0	Non-SPASS			
MP_048TI_FLYBYT034_NA	2007-200T00:39:57		000T00:00:01	2007-200T00:39:58	0	0	Non-SPASS			
RPWS_048CO_TINTERACT001_CAPS	2007-200T15:36:00		000T09:00:00	2007-201T00:36:00	3500	113.4	Non-SPASS			
RPWS_048SA_INSURVEY001_PRIME	2007-200T15:50:00		000T08:46:00	2007-201T00:36:00	1310	41.344	Non-SPASS			
RPWS_048SA_OUTSURVEY003_PRIME	2007-199T00:51:00		001T14:59:00	2007-200T15:50:00	1310	183.847	Non-SPASS			
RPWS_048TI_TICA001_PRIME	2007-200T00:11:02	GMB_E048_Titan34-000T00:30:00	000T00:35:00	2007-200T00:46:02	60927.9	127.949	Non-SPASS			
RPWS_048TI_TICA002_PRIME	2007-200T00:36:02	GMB_E048_Titan34-000T00:05:00	000T00:25:00	2007-200T01:01:02	100001.1	150.002	Non-SPASS			
RPWS_048TI_TIINTRMED001_PRIME	2007-199T22:41:02	GMB_E048_Titan34-000T02:00:00	000T01:30:00	2007-200T00:11:02	12499.4	67.497	Non-SPASS			
RPWS_048TI_TIINTRMED002_PRIME	2007-200T01:11:02	GMB_E048_Titan34+000T00:30:00	000T01:30:00	2007-200T02:41:02	12499.4	67.497	Non-SPASS			
RSS_048TI_BISTAT001_PRIME	2007-199T23:05:02	GMB_E048_Titan34-000T01:36:00	000T01:31:00	2007-200T00:36:02	0	0	Prime	XBAND to Titan		
RSS_048TI_THERMAL001_RSS	2007-199T21:21:02	GMB_E048_Titan34-000T03:20:00	000T02:00:00	2007-199T23:21:02	0	0	SPASS Rider			
SP_048EA_DLTURN200_PRIME	2007-200T15:06:00		000T00:30:00	2007-200T15:36:00	0	0	Prime	XBAND to Earth	NEG_X to NEP	SP Turn to Earth
SP_048EA_G70ARRNON200_PRIME	2007-200T15:36:00		000T09:00:00	2007-201T00:36:00	0	0	Prime	XBAND to Earth		
SP_048NA_G34BVG199_SP	2007-199T22:41:02	GMB_E048_Titan34-000T02:00:00	000T02:00:00	2007-200T00:41:02	0	0	Non-SPASS			
SP_048NA_G70ARR2ND200_SP	2007-200T15:36:00		000T09:00:00	2007-201T00:36:00	0	0	Non-SPASS			
SP_048NA_G70ARRNON200_SP	2007-200T15:36:00		000T09:00:00	2007-201T00:36:00	0	0	Non-SPASS			
SP_048NA_G70METNON199_SP	2007-199T22:41:02	GMB_E048_Titan34-000T02:00:00	000T02:00:00	2007-200T00:41:02	0	0	Non-SPASS			
SP_048NA_G70OBSNON200_NA	2007-199T00:51:00		001T14:45:00	2007-200T15:36:00	0	0	Non-SPASS			
SP_048NA_TOSTSEG199_NA	2007-199T00:51:00		001T23:45:00	2007-201T00:36:00	0	0	SPASS Note			
SP_048TI_DEADTIME199_PRIME	2007-199T01:21:00		000T00:15:00	2007-199T01:36:00	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_048TI_DEADTIME200_PRIME	2007-200T14:51:00		000T00:15:00	2007-200T15:06:00	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_048TI_WAYPTTURN199_PRIME	2007-199T00:51:00		000T00:30:00	2007-199T01:21:00	0	0	New Waypoint	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Wayp
UVIS_048SW_IPHSURVEY028_RIDER	2007-200T15:36:00		000T09:00:00	2007-201T00:36:00	76	2.462	Non-SPASS			
UVIS_048TI_EUVFUV001_PRIME	2007-199T15:41:02	GMB_E048_Titan34-000T09:00:00	000T06:00:00	2007-199T21:41:02	5032	108.691	Prime	NEG_Y to Titan	POS_X to North_Pole_Dir	
UVIS_048TI_FIRNADCMP002_CIRS	2007-200T09:41:02	GMB_E048_Titan34+000T09:00:00	000T05:11:00	2007-200T14:52:02	1006.4	18.779	SPASS Rider			
VIMS_048TI_CLOUDMAP001_PRIME	2007-199T11:41:02	GMB_E048_Titan34-000T13:00:00	000T04:00:00	2007-199T15:41:02	4444.4	64	Prime	ISS_NAC to Titan	NEG_X to Sun	
VIMS_048TI_EUVFUV001_UVIS	2007-199T15:41:02	GMB_E048_Titan34-000T09:00:00	000T04:00:00	2007-199T19:41:02	4444.4	64	SPASS Rider			
VIMS_048TI_EUVFUV002_UVIS	2007-199T19:41:02	GMB_E048_Titan34-000T05:00:00	000T02:00:00	2007-199T21:41:02	5555.6	40	SPASS Rider			
VIMS_048TI_FIRNADCMP001_CIRS	2007-200T04:41:02	GMB_E048_Titan34+000T04:00:00	000T01:00:00	2007-200T05:41:02	8333.3	30	SPASS Rider			
VIMS_048TI_GLOBMAP002_ISS	2007-199T08:41:02	GMB_E048_Titan34-000T16:00:00	000T01:00:00	2007-199T09:41:02	6111.1	22	SPASS Rider			
VIMS_048TI_GLOBMAP003_ISS	2007-200T05:41:02	GMB_E048_Titan34+000T05:00:00	000T03:36:00	2007-200T09:17:02	4784	62	SPASS Rider			
VIMS_048TI_HIRES001_ISS	2007-200T00:36:02	GMB_E048_Titan34-000T00:05:00	000T02:05:00	2007-200T02:41:02	9600	72	SPASS Rider			
VIMS_048TI_MIRLBINT001_CIRS	2007-200T09:41:02	GMB_E048_Titan34+000T09:00:00	000T05:11:00	2007-200T14:52:02	2358	44	SPASS Rider			
VIMS_048TI_REGMAP001_ISS	2007-199T21:41:02	GMB_E048_Titan34-000T03:00:00	000T01:00:00	2007-199T22:41:02	11111.1	40	SPASS Rider			
VIMS_048TI_REGMAP002_ISS	2007-200T02:41:02	GMB_E048_Titan34+000T02:00:00	000T02:00:00	2007-200T04:41:02	8611.1	62	SPASS Rider			
VIMS_048TI_TEMPMPAP001_CIRS	2007-199T01:38:02	GMB_E048_Titan34-000T23:03:00	000T07:03:00	2007-199T08:41:02	512.2	13	SPASS Rider			
VIMS_048TI_TEMPMPAP002_CIRS	2007-199T09:41:02	GMB_E048_Titan34-000T15:00:00	000T02:00:00	2007-199T11:41:02	5000	36	SPASS Rider			
VIMS_048TI_WACPHOT001_ISS	2007-200T09:17:02	GMB_E048_Titan34+000T08:36:00	000T00:24:00	2007-200T09:41:02	43055.6	62	SPASS Rider			

# T34 Data Volume Report

DOWNLINK PASS NAME	OBSERVATION_PERIOD		DOWNLINK_PASS															
	Start doy hh:mm	End doy hh:mm	P4							P5	RECORDED		PLAYBACK					CAROVR (Mb)
			START (Mb)	SCI (Mb)	HK+E (Mb)	TOTAL (Mb)	CPACTY (Mb)	MGRN (Mb)	OPNAV (Mb)	SCI (Mb)	ENGR (Mb)	TOTAL (Mb)	CPACTY (Mb)	MARGN (Mb)	NET_MARGN (Mb)	(%)		
SP_048EA_G70ARRNON200_PRIME	200 15:36	201 00:36	0	3299	132	3431	3498	66	0	528	53	4012	3698	-314	0	0%	314	

Saturn TWT will accept these bits

DATA VOLUME REPORT --- TRANSFER FRAME OVERHEAD NOT INCLUDED

Event	Start doy hh:mm	End doy hh:mm	CAPS (Mb)	CDA (Mb)	CIRS (Mb)	INMS (Mb)	ISS (Mb)	MAG (Mb)	MIMI (Mb)	RADAR (Mb)	RPWS (Mb)	UVIS (Mb)	VIMS (Mb)	PROBE (Mb)	ENGR (Mb)	TOTAL (Mb)
OBSERVATION_NOR	199 00:51	200 15:36	269.1	30.0	349.2	24.6	865.0	189.4	229.7	0.0	595.7	127.5	611.0	0.0	0.0	3291.2
OBSERVATION_SI	199 00:51	200 15:36	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
SP_048EA_G70ARRNON200_PRIME	200 15:36	201 00:36	129.6	16.9	86.4	3.2	0.0	64.0	64.8	0.0	155.8	2.5	0.0	0.0	0.0	523.2
DAILY TOTAL SCIENCE	199 00:51	201 00:36	398.7	46.8	450.6	27.9	865.0	253.4	294.5	0.0	751.5	129.9	611.0	0.0		

# T34 SPASS

CIMS edits are pending

## Telemetry Modes

### TELEMETRY MODE REPORT

SCET	TELEMETRY MODE	REQUEST
2007-199T00:51:00.000	S_N_ER_3	SP_048NA_G70OBSNON200_NA
2007-200T00:11:02.000	S_N_ER_2	SP_048NA_G70OBSNON200_NA
2007-200T00:36:02.000	S_N_ER_3	SP_048NA_G70OBSNON200_NA
2007-200T15:36:00.000	RTE_N_SPB_110600	SP_048EA_G70ARRNON200_PRIME
2007-200T16:06:00.000	RTE_N_SPB_124425	SP_048EA_G70ARRNON200_PRIME
2007-200T17:21:00.000	RTE_N_SPB_142200	SP_048EA_G70ARRNON200_PRIME
2007-200T23:06:00.000	RTE_N_SPB_124425	SP_048EA_G70ARRNON200_PRIME

# DSN Requests

CASSINI DOWNLINK/DSN COVERAGE SUMMARY for T34\_040405\_recom.apf generated on 2004-Apr-05 11:40:33  
 (+ = pass overlaps with previous pass; \* = conflicts with DSN weekly maintenance; o = overlaps occultation)

DOWNLINK PASS					DSN PASS						
NAME	START_TO_END SCET	START_TO_END ERT	DUR hh:mm	DATA_RATES kbps	ID	START_TO_END SCET	START_TO_END ERT	DUR hh:mm	CALS min	RADIO_CONFIG R UD D UD MAR	
G34BWG199_SP	-----	-----	-----	(no downlink)	25	199T22:41-00:41	200T00:05-02:10	02:05	15/15	R XX - KK --0	
G70METNON199	-----	-----	-----	(no downlink)	14	199T22:41-00:41	200T00:05-02:10	02:05	15/15	R XX S -- --0	
G70ARRNON200	200T15:36-00:36	200T17:00-02:00	09:00	110,124,142,124	25	200T15:36-00:36	200T17:00-02:00	09:00	60/15	- -X - -- --0	
				^-- and also -->	14*	200T15:36-00:36	200T17:00-02:00	09:00	60/15	R XX - -- --0	

# Open Issues

## ▪ D/L Issues

- DSS-14 (G70) is scheduled to be under maintenance from 13:36-21:36 on day 200 (SCET)
- TOST has submitted a request for DSN to move the weekly maintenance
- We will proceed as though we have already succeeded in moving the maintenance.
- Even after the maintenance is moved, we still need the SATURN Rev. 48 segment to accept ~ 320 Mb.

## ▪ Power Issues

- To have enough power to warm up RSS and the catbed heaters (required for RCS), we will transition to ORS/RCS from -03:51 to -03:30. We will then transition to RSS3/RCS from -03:30 to -03:24, but this does not need to be prime.
- UVIS and ISS agreed to do this so that RSS could have the full 2 hours to warm up.
- Deadband of (.5,.5,.5) will be used to satisfy both ORS and RSS pointing needs.
- NO INSTRUMENT TEAMS HAVE TO GO TO SLEEP.

**TWT/OST Integration Constraint and Guideline Checklist**

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

Constraint	C=Comply V=Violate N/A=Not Applicable	Comments	Disposition
1. A. SP has checked all waypoints turns to and from waypoints. B. All initial downlink attitudes have been checked as waypoints.	C		
2. All turns to and from waypoints checked for violations and margins. <input type="checkbox"/> CAPS <input type="checkbox"/> CDA <input type="checkbox"/> CIRS <input type="checkbox"/> INMS <input type="checkbox"/> ISS <input type="checkbox"/> MIMI <input type="checkbox"/> MAG <input type="checkbox"/> NAV <input type="checkbox"/> RADAR <input type="checkbox"/> RPWS <input type="checkbox"/> RSS <input type="checkbox"/> UVIS <input type="checkbox"/> VIMS Each Prime Instrument agrees to accept a reduction in observation time during implementation if problems arise.	C		
3. Custom handoffs limited to: A. ±3 hours from targeted Icy Satellite flyby B. ±3 hours from targeted Titan Flyby C. OpNavs preceding/following a downlink	N/A		
4. Minimum 30 min SPASS Prime request duration outside ±5 hours from targeted satellite flyby (5 min. integer duration if >30 min.)	C		
5. Live and Ground Movable Blocks include appropriate time margins.	C	K. Klaasen's margin for flyby T34 is 15 min. according to memo dated .	
6. Waypoints changes are ≤3 per day A. All turns that accomplish the waypoint strategy are requested by SP or OpNav.	C		
7. Live Movable Blocks limited to the following orbits: 7, 8, 9, 10, 12, 28, 51, 56, 57, 60, 63, 64	N/A		

Guideline	Yes / No	Comments
1. Were repeatable/reusable templates used where possible?	Yes	
2. During Pre-Integration: Was 30 min. used for 90° RWA turns and/or 10 min. for RCS turns?	Yes	

(DOUBLE-CLICK TO MAKE CHANGES)