

TOST Delivery of 042TI (T28)

Segment Boundary

Start: 2007-100T07:03:00

End: 2007-102T05:57:00

Titan C/A= 2007-100T22:58; at 990 km in S29

Epoch = GMB_E042_Titan28

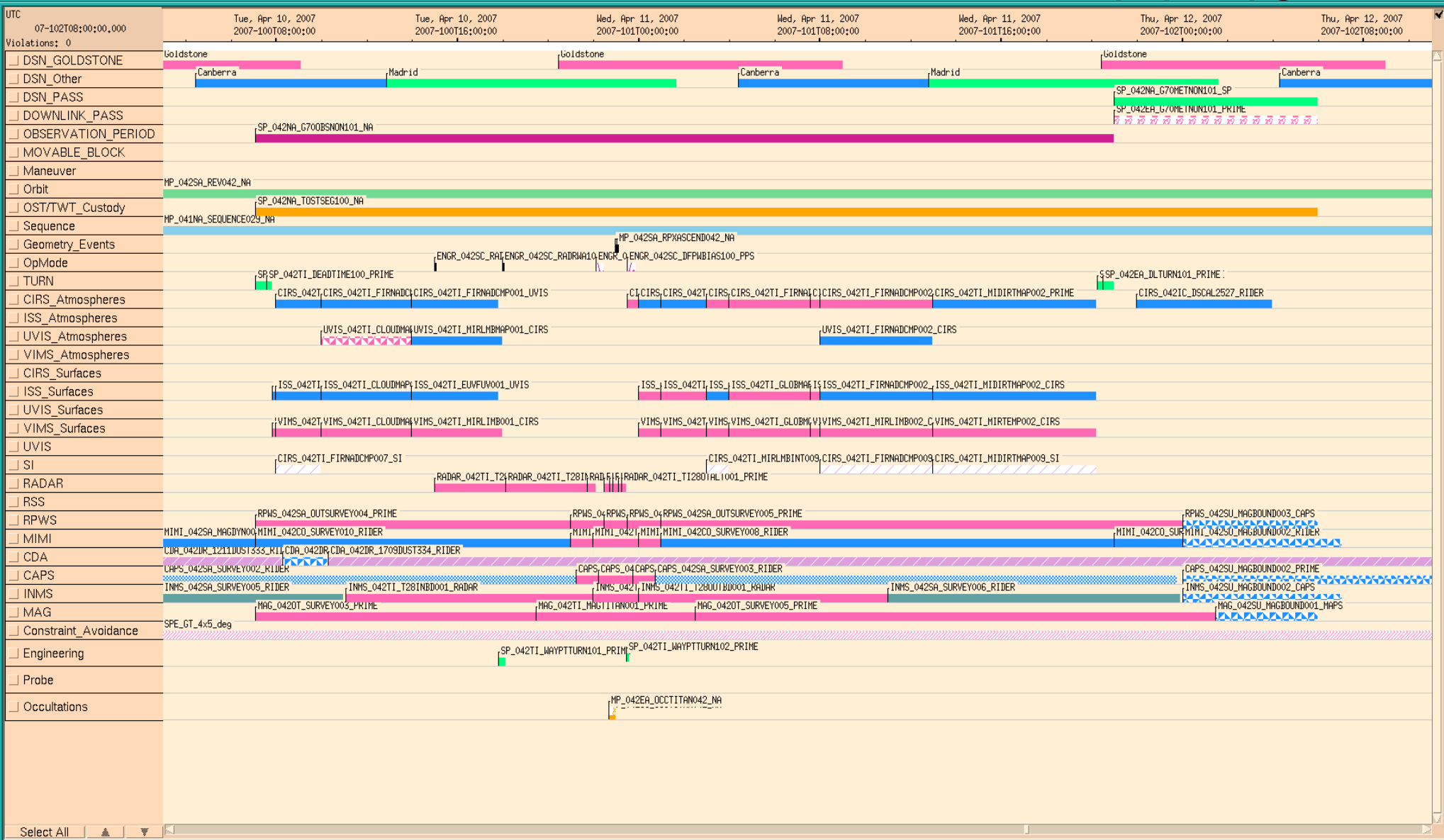
8 November 2006

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C/A 2007-100T22:57:11 at 950 km from (DATE)

Start Time	End Time	Prime Activity	Obs Detail	Op Mode	TLM Mode	Comments
10070708	10070733	SP Turn to waypoint		DPPWNormal	S_N_ER_3	NEG_YtoTitan,NEG_XtoSun
10070733	10070748	OD Uncertainty Dead		DPPWNormal	S_N_ER_3	
-1508	-1500	ISS	Monitor	DPPWNormal	S_N_ER_3	Template M(modified)
-1500	-1300	CRS	M&R Temp Map	DPPWNormal	S_N_ER_3	Template M
-1300	-0900	MRS	Cloud Map	DPPWNormal	S_N_ER_3	Template O
-0900	-0510	UNS	FLNEUV	DPPWNormal / RADWU	S_N_ER_3 / S_N_ER_5a	Template P;RADWU & S_N_ER_5a at 0800
-0510	-450	SP Turn to waypoint	20min turn	DPPWNormal / RADWU	S_N_ER_3	NEG_ZtoTitan,NEG_Xto RADEC 350degrees
-0450	-0115	RADAR	Radiometry	RADWVA	S_N_ER_3	Template S
-0115	-0052	RADAR	Scatterometry	RADWVA	S_N_ER_3	
-0052	-0030	RWAtoRCS Transition	22mins	RADRCS	S_N_ER_3	Deadband=(2220)
-0030	-0016	RADAR	Altimetry	RADRCS	S_N_ER_3	
-0016	-0006	RADAR	Low-Res SAR	RADRCS	S_N_ER_3	
-0006	-0006	RADAR	High-Res SAR	RADRCS	S_N_ER_3	
-0006	-0016	RADAR	Low-Res SAR	RADRCS	S_N_ER_3	
-0016	-0029	RADAR	Altimetry	RADRCS	S_N_ER_3	End of RADAR waypoints(SP to
-0029	-0037	SP Turn to waypoint		RADRCS	S_N_ER_3	NEG_YtoTitan,NEG_XtoSun
-0037	-0100	RCS toRWATransition	23mins	DPPWNormal	S_N_ER_3	
-0100	-0200	ISS	High Res	DPPWNormal	S_N_ER_3	
-0200	-0400	ISS	Regional Map	DPPWNormal	S_N_ER_3	Template J
-0400	-0500	CRS	M&R Limb Map	DPPWNormal	S_N_ER_3	Template J
-0500	-0836	ISS	Global Mosaic	DPPWNormal	S_N_ER_3	Template H
-0836	-0900	ISS	WAC Photometry	DPPWNormal	S_N_ER_3	Template H
-0900	-1400	CRS		DPPWNormal	S_N_ER_3	Template C
-1400	-21:14	CRS	M&R Temp Map	DPPWNormal	S_N_ER_3	Template A(modified)
10112012	10112027	OD Uncertainty Dead		DPPWNormal	S_N_ER_3	
10112027	10112057	SP Turn to Earth for		DPPWNormal	S_N_ER_3	NEG_ZtoEarth,NEG_XtoSun
10112057	10210557	Goldstone 70m		DPPWNormal	RTE_N_SPB	

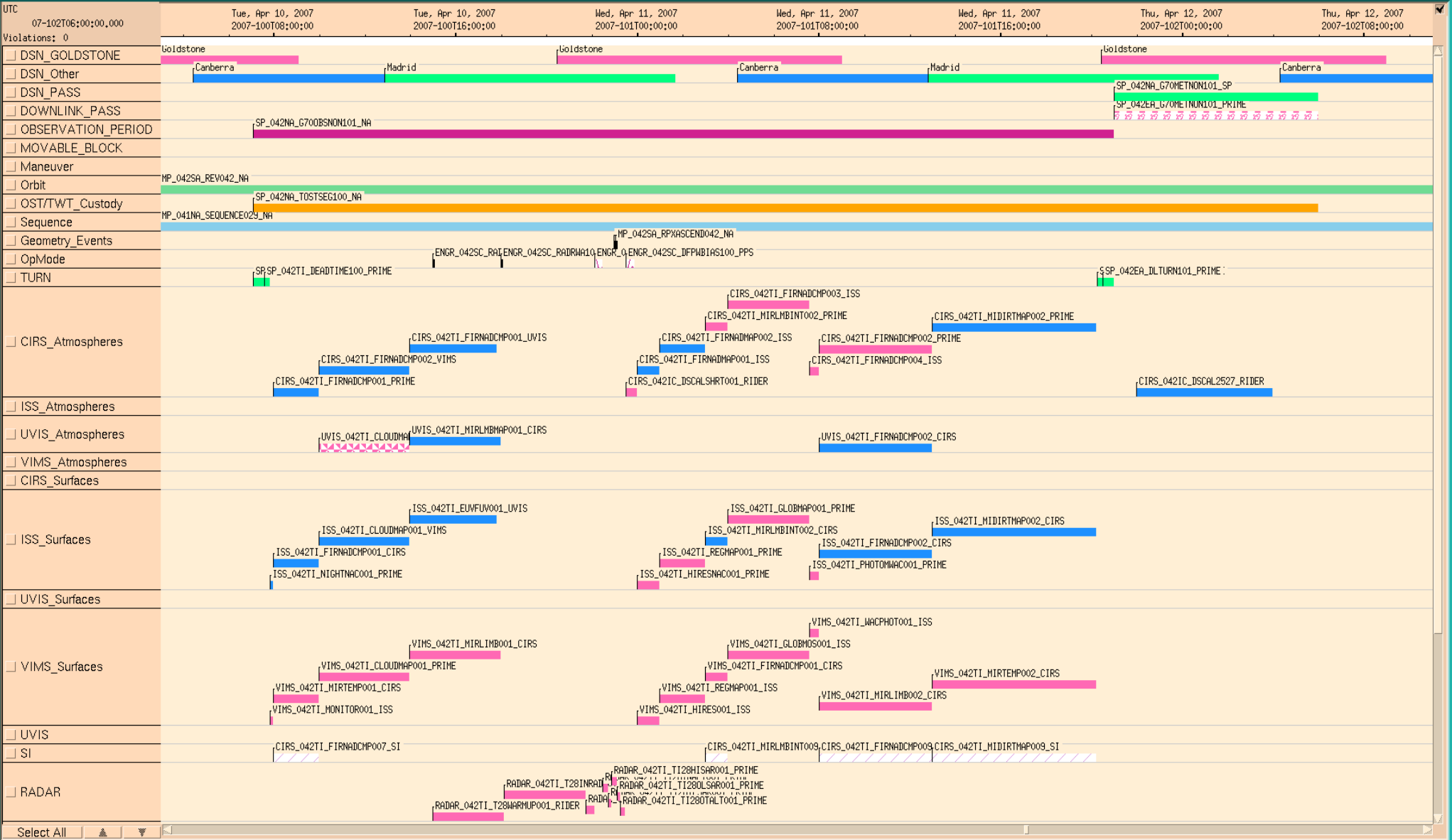
042TI (Titan-28 Flyby) Apgen



Opened new activity display.



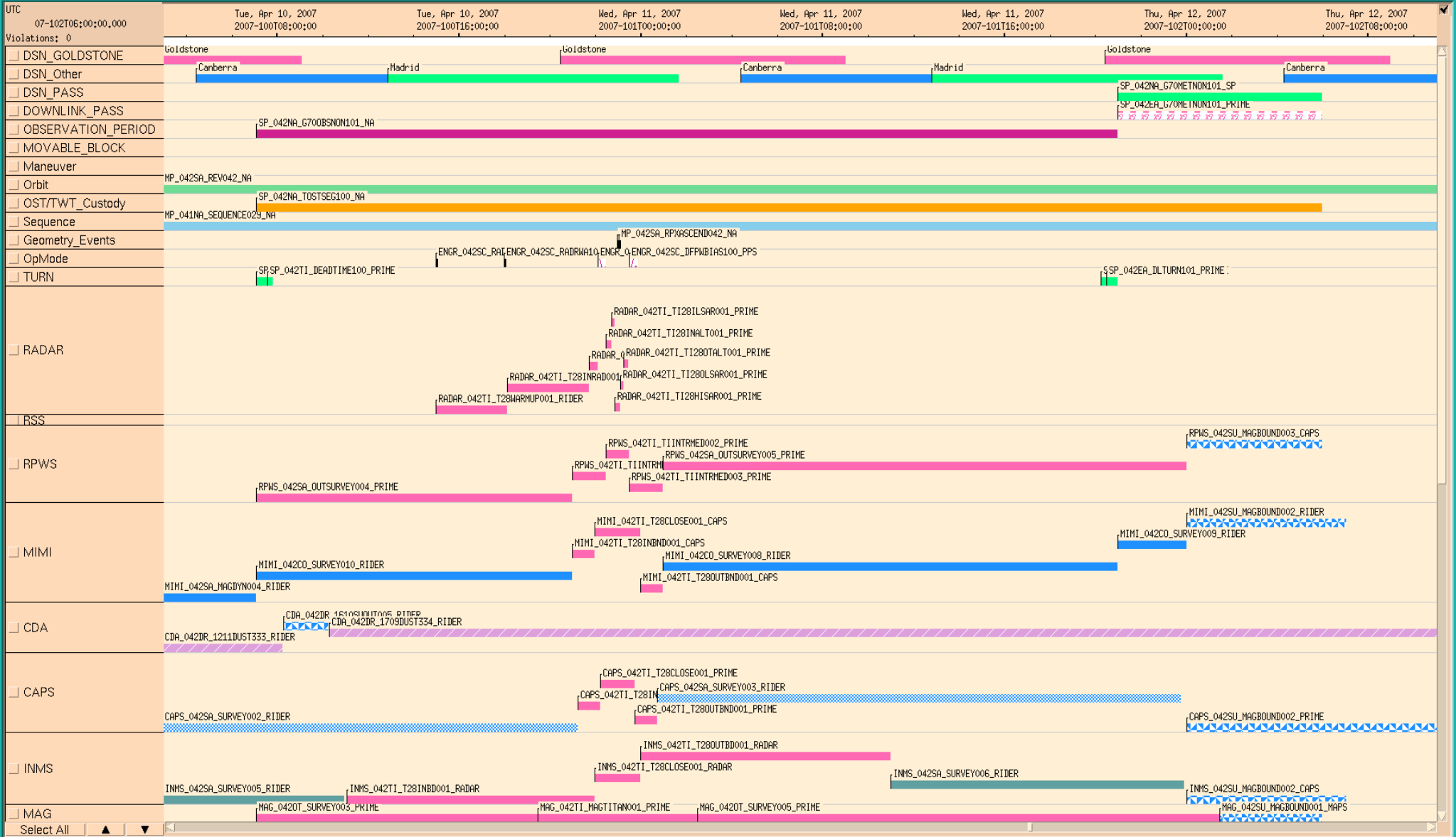
042TI (Titan-28 Flyby) Apgen ORS



Opened new activity display.



042TI (Titan-28 Flyby) Apgen MAPS



Opened new activity display.



Request	Start Time	Epoch	Duration	End Time	Rate	Data Volume	SPASS Type	Primary Pointing	Secondary Pointing	Pointing Agreement
CAPS_042SA_SURVEY002_RIDER	2007-098T12:40:00		002T08:33:00	2007-100T21:13:00	1000	203.58	Non-SPASS			
CAPS_042TL_T28INBD001_PRIME	2007-100T21:13:00	GMB_E042_Titan28-000T01:45:00	000T01:00:00	2007-100T22:13:00	4000		14.4 SPASS Rider			
CAPS_042TL_T28CLOSE001_PRIME	2007-100T22:13:00	GMB_E042_Titan28-000T00:45:00	000T01:30:00	2007-100T23:43:00	16000		86.4 SPASS Rider			
CAPS_042TL_T28OUTBND001_PRIME	2007-100T23:43:00	GMB_E042_Titan28+000T00:45:00	000T01:00:00	2007-101T00:43:00	4000		14.4 SPASS Rider			
CAPS_042SA_SURVEY003_RIDER	2007-101T00:43:00	GMB_E042_Titan28+000T01:45:00	000T23:02:49	2007-101T23:45:49	1000		82.969 Non-SPASS			
CAPS_042SU_MAGBOUND002_PRIME	2007-102T00:00:00		004T21:01:00	2007-106T21:01:00	4000	1685.04	SPASS Rider			
CDA_042OT_DRATEA002_RIDER	2007-098T07:10:00		008T13:41:00	2007-106T20:51:00	100.1	74.108	Non-SPASS			
CDA_042DR_1211DUST333_RIDER	2007-099T16:31:17		000T15:42:03	2007-100T08:13:20	199.6	11.284	SPASS Rider			
CDA_042DR_1610SUOUT005_RIDER	2007-100T08:14:25		000T01:59:59	2007-100T10:14:24	199.6		1.437 Non-SPASS			
CDA_042DR_1709DUST334_RIDER	2007-100T10:15:26		006T10:29:33	2007-106T20:44:59	149.9		83.35 Non-SPASS			
CIRS_042TL_FIRNADCMPO01_PRIME	2007-100T07:58:00	GMB_E042_Titan28-000T15:00:00	000T02:00:00	2007-100T09:58:00	4000	28.8	Prime	CIRS_FP1 to Titan	PIC	
CIRS_042TL_FIRNADCMPO01_SI	2007-100T07:58:00	GMB_E042_Titan28-000T15:00:00	000T02:00:00	2007-100T09:58:00	0		2 SPASS Rider			
CIRS_042TL_CLOUDMAP001_VIMS	2007-100T09:58:00	GMB_E042_Titan28-000T13:00:00	000T04:00:00	2007-100T13:58:00	2000	28.8	SPASS Rider			
CIRS_042TL_FIRNADCMPO01_LUVIS	2007-100T13:58:00	GMB_E042_Titan28-000T09:00:00	000T03:55:00	2007-100T17:48:00	2000	27.6	SPASS Rider			
CIRS_042IC_DSCALSHRT001_RIDER	2007-100T23:29:00	GMB_E042_Titan28-000T00:31:00	000T00:29:00	2007-100T23:58:00	4000	6.96	SPASS Rider			
CIRS_042TL_HIRESNAC001_VIMS	2007-100T23:58:00	GMB_E042_Titan28+000T01:00:00	000T01:00:00	2007-101T00:58:00	2000	7.2	SPASS Rider			
CIRS_042TL_REGMAP001_ISS	2007-101T00:58:00	GMB_E042_Titan28+000T02:00:00	000T02:00:00	2007-101T02:58:00	2000	14.4	SPASS Rider			
CIRS_042TL_MIRLMBINT002_PRIME	2007-101T02:58:00	GMB_E042_Titan28+000T04:00:00	000T01:00:00	2007-101T03:58:00	4000	14.4	Prime	CIRS_FPB to Titan	PIC	
CIRS_042TL_MIRLMBINT002_SI	2007-101T02:58:00	GMB_E042_Titan28+000T04:00:00	000T01:00:00	2007-101T03:58:00	0		1 SPASS Rider			
CIRS_042TL_GLOBMAP001_ISS	2007-101T03:58:00	GMB_E042_Titan28+000T05:00:00	000T03:36:00	2007-101T07:34:00	400	5.184	SPASS Rider			
CIRS_042TL_PHOTOMWACO01_ISS	2007-101T07:34:00	GMB_E042_Titan28+000T08:36:00	000T00:24:00	2007-101T07:58:00	4000	5.76	SPASS Rider			
CIRS_042TL_FIRNADCMPO02_PRIME	2007-101T07:58:00	GMB_E042_Titan28+000T09:00:00	000T05:00:00	2007-101T12:58:00	4000	72	Prime	CIRS_FP1 to Titan	PIC	
CIRS_042TL_FIRNADCMPO02_SI	2007-101T07:58:00	GMB_E042_Titan28+000T09:00:00	000T05:00:00	2007-101T12:58:00	0		5 SPASS Rider			
CIRS_042TL_MIDIRTMAP002_PRIME	2007-101T12:58:00	GMB_E042_Titan28+000T14:00:00	000T07:14:00	2007-101T20:12:00	2000	52.08	Prime	CIRS_FPB to Titan	POS_X to North_Pole_Dir	
CIRS_042TL_MIDIRTMAP002_SI	2007-101T12:58:00	GMB_E042_Titan28+000T14:00:00	000T07:14:00	2007-101T20:12:00	0		3 SPASS Rider			
CIRS_042IC_DSCAL07101_RIDER	2007-101T21:42:00		000T08:00:00	2007-102T05:42:00	3000	86.4	SPASS Rider			
ENGR_042SC_RADWU100_PPS	2007-100T14:58:00	GMB_E042_Titan28-000T08:00:00	000T00:00:07	2007-100T14:58:07	0		0 Non-SPASS			
ENGR_042SC_RADRWA100_PPS	2007-100T18:08:00	GMB_E042_Titan28-000T04:50:00	000T00:00:44	2007-100T18:08:44	0		0 Non-SPASS			
ENGR_042SC_RADRCS100_PPS	2007-100T22:06:00	GMB_E042_Titan28-000T00:52:00	000T00:21:15	2007-100T22:27:15	0		0 Prime	NEG_Z to Titan	POS_Y to North_Pole_Dir	Deadband = (2,2,20)
ENGR_042SC_AACSDUAL001_CDS	2007-100T22:43:00	GMB_E042_Titan28-000T00:15:00	000T00:30:00	2007-100T23:13:00	1638	2.948	Non-SPASS			
ENGR_042SC_DFPWBIAS100_PPS	2007-100T23:35:00	GMB_E042_Titan28+000T00:37:00	000T00:21:09	2007-100T23:56:09	0		0 Prime	NEG_Y to Titan	NEG_X to Sun	
ENGR_042SC_ROUTEREU002_CDS	2007-100T23:35:00	GMB_E042_Titan28+000T00:37:00	000T00:53:00	2007-101T00:28:00	227	0.722	Non-SPASS			
ENGR_042SC_AACSDUAL002_CDS	2007-101T20:56:47		000T00:00:02	2007-101T20:56:49	0		0 Non-SPASS			
INMS_042SA_PTOTM103B001_RIDER	2007-099T07:18:00		001T03:40:00	2007-100T10:58:00	50	4.98	Non-SPASS			
INMS_042TL_T28INBD001_RADAR	2007-100T10:58:00	GMB_E042_Titan28-000T12:00:00	000T11:00:00	2007-100T21:58:00	100	3.96	Non-SPASS			
INMS_042TL_T28CLOSE001_RADAR	2007-100T21:58:00	GMB_E042_Titan28-000T01:00:00	000T02:00:00	2007-100T23:58:00	1498	10.786	Non-SPASS			
INMS_042TL_T28OUTBND001_RADAR	2007-100T23:58:00	GMB_E042_Titan28+000T01:00:00	000T11:00:00	2007-101T10:58:00	100	3.96	Non-SPASS			
INMS_042SA_SURVEY006_RIDER	2007-101T10:58:00	GMB_E042_Titan28+000T12:00:00	000T13:03:24	2007-102T00:01:24	50	2.35	Non-SPASS			
INMS_042SU_MAGBOUND002_CAPS	2007-102T00:00:00		000T07:00:00	2007-102T07:00:00	100	2.52	Non-SPASS			
ISS_042TL_NIGHTNAC001_PRIME	2007-100T07:49:00	GMB_E042_Titan28-000T15:09:00	000T00:09:00	2007-100T07:58:00	0	20	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_042TL_FIRNADCMPO01_CIRS	2007-100T07:58:00	GMB_E042_Titan28-000T15:00:00	000T02:00:00	2007-100T09:58:00	0		10 SPASS Rider			
ISS_042TL_CLOUDMAP001_VIMS	2007-100T09:58:00	GMB_E042_Titan28-000T13:00:00	000T04:00:00	2007-100T13:58:00	0		20 SPASS Rider			
ISS_042TL_HIRESNAC001_VIMS	2007-100T23:58:00	GMB_E042_Titan28+000T01:00:00	000T01:00:00	2007-101T00:58:00	0	279	SPASS Rider			
ISS_042TL_REGMAP001_PRIME	2007-101T00:58:00	GMB_E042_Titan28+000T02:00:00	000T02:00:00	2007-101T02:58:00	0	208	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_042TL_MIRLMBINT002_CIRS	2007-101T02:58:00	GMB_E042_Titan28+000T04:00:00	000T01:00:00	2007-101T03:58:00	0	20	SPASS Rider			
ISS_042TL_GLOBMAP001_PRIME	2007-101T03:58:00	GMB_E042_Titan28+000T05:00:00	000T03:36:00	2007-101T07:34:00	0	171	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_042TL_PHOTOMWACO01_PRIME	2007-101T07:34:00	GMB_E042_Titan28+000T08:36:00	000T00:24:00	2007-101T07:58:00	0	20	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_042TL_FIRNADCMPO02_CIRS	2007-101T07:58:00	GMB_E042_Titan28+000T09:00:00	000T05:00:00	2007-101T12:58:00	0	20	SPASS Rider			
ISS_042TL_MIDIRTMAP002_CIRS	2007-101T12:58:00	GMB_E042_Titan28+000T14:00:00	000T07:14:00	2007-101T20:12:00	0	10	SPASS Rider			
MAG_042OT_SURVEY003_PRIME	2007-100T07:03:00		000T12:25:00	2007-100T19:28:00	600	26.82	Non-SPASS			
MAG_042TL_MAGTITAN001_PRIME	2007-100T19:28:00	GMB_E042_Titan28-000T03:30:00	000T07:00:00	2007-101T02:28:00	1976	49.795	Non-SPASS			
MAG_042OT_SURVEY005_PRIME	2007-101T02:28:00	GMB_E042_Titan28+000T03:30:00	000T22:57:21	2007-102T01:25:21	600	49.585	Non-SPASS			
MAG_042SU_MAGBOUND001_MAPS	2007-102T01:25:21		000T04:31:39	2007-102T05:57:00	1976	32.207	Non-SPASS			

MIMI_042CO_SURVEY010_RIDER	2007-100T07:03:01		000T13:54:59	2007-100T20:58:00	750	37.574 Non-SPASS			
MIMI_042TL_T28INBND001_CAPS	2007-100T20:58:00	GMB_E042_Titan28-000T02:00:00	000T01:00:00	2007-100T21:58:00	2000	7.2 SPASS Rider			
MIMI_042TL_T28CLOSE001_CAPS	2007-100T21:58:00	GMB_E042_Titan28-000T01:00:00	000T02:00:00	2007-100T23:58:00	900	6.48 SPASS Rider			
MIMI_042TL_T28OUTBND001_CAPS	2007-100T23:58:00	GMB_E042_Titan28+000T01:00:00	000T01:00:00	2007-101T00:58:00	900	3.24 SPASS Rider			
MIMI_042CO_SURVEY008_RIDER	2007-101T00:58:01	GMB_E042_Titan28+000T02:00:01	000T19:59:48	2007-101T20:57:49	750	53.991 Non-SPASS			
MIMI_042CO_SURVEY009_RIDER	2007-101T20:57:01		000T03:02:59	2007-102T00:00:00	900	9.881 Non-SPASS			
MIMI_042SU_MAGBOUND002_RIDER	2007-102T00:00:00		000T07:00:00	2007-102T07:00:00	1804	45.461 SPASS Rider			
MP_039NA_DSS65DOWN001_NA	2007-057T00:00:00		063T00:00:00	2007-120T00:00:00	0	0 Non-SPASS			
MP_041NA_SEQUENCE029_NA	2007-087T08:04:00	E041_SEQUENCE_029+000T00:00:00	037T13:56:00	2007-124T22:00:00	0	0 SPASS Note			
MP_041SA_REV042_NA	2007-090T17:01:00		016T03:40:55	2007-106T20:41:55	0	0 Non-SPASS			
MP_042SU_OCCITTANO42_NA	2007-100T22:40:04		000T00:19:30	2007-100T22:59:34	0	0 Non-SPASS			
MP_042EA_OCCITTANO42_NA	2007-100T22:41:03		000T00:18:30	2007-100T22:59:33	0	0 Non-SPASS			
MP_042TL_FLYBYT028_NA	2007-100T22:58:00		000T00:00:01	2007-100T22:58:01	0	0 SPASS Note			
MP_042SA_RPXASCENDO42_NA	2007-100T23:01:11		000T00:00:01	2007-100T23:01:12	0	0 Non-SPASS			
RADAR_042TL_T28WARMUP001_RIDER	2007-100T14:58:00	GMB_E042_Titan28-000T08:00:00	000T03:10:00	2007-100T18:08:00	474.2	5.406 SPASS Rider			
RADAR_042TL_T28INRAD001_PRIME	2007-100T18:08:00	GMB_E042_Titan28-000T04:50:00	000T03:35:00	2007-100T21:43:00	4414.1	56.942 Prime	NEG_Z to Titan	POS_X to North_Pole_Dir	Use +X_NTP and +Y_NTP for the 1st and 2nd polarization.
RADAR_042TL_T28INSCAT001_PRIME	2007-100T21:43:00	GMB_E042_Titan28-000T01:15:00	000T00:23:00	2007-100T22:06:00	26010.2	35.894 Prime	NEG_Z to Titan	POS_Y to North_Pole_Dir	
RADAR_042TL_T28INALT001_PRIME	2007-100T22:28:00	GMB_E042_Titan28-000T00:30:00	000T00:14:00	2007-100T22:42:00	28636.8	24.055 Prime	NEG_Z to Titan	POS_Y to North_Pole_Dir	
RADAR_042TL_T28ILSAR001_PRIME	2007-100T22:42:00	GMB_E042_Titan28-000T00:16:00	000T00:09:00	2007-100T22:51:00	200019.8	108.011 Prime	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
RADAR_042TL_T28HISAR001_PRIME	2007-100T22:51:00	GMB_E042_Titan28-000T00:07:00	000T00:14:00	2007-100T23:05:00	364800	306.432 Prime	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
RADAR_042TL_T28OLSAR001_PRIME	2007-100T23:05:00	GMB_E042_Titan28+000T00:07:00	000T00:09:00	2007-100T23:14:00	200019.8	108.011 Prime	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
RADAR_042TL_T28OTALT001_PRIME	2007-100T23:14:00	GMB_E042_Titan28+000T00:16:00	000T00:13:00	2007-100T23:27:00	28636.8	22.337 Prime	NEG_Z to Titan	(0,0,0) NEG_X to Titan_SC_RAM	
RPWS_042SA_OUTSURVEY004_PRIME	2007-100T07:03:00		000T13:55:00	2007-100T20:58:00	1310	65.632 Non-SPASS			
RPWS_042TL_TINTRMED001_PRIME	2007-100T20:58:00	GMB_E042_Titan28-000T02:00:00	000T01:30:00	2007-100T22:28:00	3499.8	18.899 Non-SPASS			
RPWS_042TL_TINTRMED002_PRIME	2007-100T22:28:00	GMB_E042_Titan28-000T00:30:00	000T01:00:00	2007-100T23:28:00	12499.4	44.998 Non-SPASS			
RPWS_042TL_TINTRMED003_PRIME	2007-100T23:28:00	GMB_E042_Titan28+000T00:30:00	000T01:30:00	2007-101T00:58:00	3499.8	18.899 Non-SPASS			
RPWS_042SA_OUTSURVEY005_PRIME	2007-101T00:58:00	GMB_E042_Titan28+000T02:00:00	000T23:02:49	2007-102T00:00:49	1310	108.69 Non-SPASS			
RPWS_042SU_MAGBOUND003_CAPS	2007-102T00:00:00		000T05:57:00	2007-102T05:57:00	9000	192.78 Non-SPASS			
SP_042NA_G70OBSNON101_NA	2007-100T07:03:00		001T13:54:00	2007-101T20:57:00	0	0 Non-SPASS			
SP_042NA_TOSTSEG100_NA	2007-100T07:03:00		001T22:54:00	2007-102T05:57:00	0	0 SPASS Note			
SP_042TL_WAYPTTURN100_PRIME	2007-100T07:03:00		000T00:30:00	2007-100T07:33:00	0	0 New Waypoint	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
SP_042TL_DEADTIME100_PRIME	2007-100T07:33:00		000T00:16:00	2007-100T07:49:00	0	0 Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_042TL_WAYPTTURN101_PRIME	2007-100T17:48:00	GMB_E042_Titan28-000T05:10:00	000T00:20:00	2007-100T18:08:00	0	0 New Waypoint	NEG_Z to Titan	NEG_X to 35.0/0.0	SP Turn to Waypoint
SP_042TL_WAYPTTURN102_PRIME	2007-100T23:27:00	GMB_E042_Titan28+000T00:29:00	000T00:08:00	2007-100T23:35:00	0	0 New Waypoint	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
SP_042TL_DEADTIME101_PRIME	2007-101T20:12:00	GMB_E042_Titan28+000T21:14:00	000T00:15:00	2007-101T20:27:00	0	0 Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_042EA_DLTURN101_PRIME	2007-101T20:27:00		000T00:30:00	2007-101T20:57:00	0	0 Prime	XBAND to Earth	NEG_X to NEP	SP Turn to Earth
SP_042EA_G70METNON101_PRIME	2007-101T20:57:00		000T09:00:00	2007-102T05:57:00	0	0 Prime	XBAND to Earth	Rolling/SRU	
SP_042NA_G70METNON101_SP	2007-101T20:57:00		000T09:00:00	2007-102T05:57:00	0	0 Non-SPASS			
UVIS_042TL_CLOUDMAP002_VIMS	2007-100T09:58:00	GMB_E042_Titan28-000T13:00:00	000T04:00:00	2007-100T13:58:00	3019.2	43.476 SPASS Rider			
UVIS_042TL_FIRNADCMPO01_PRIME	2007-100T13:58:00	GMB_E042_Titan28-000T09:00:00	000T03:50:00	2007-100T17:48:00	5032	69.442 Prime	UVIS_FUV to Titan	NEG_X to Sun	
UVIS_042TL_FIRNADCMPO02_CIRS	2007-101T07:58:00	GMB_E042_Titan28+000T09:00:00	000T05:00:00	2007-101T12:58:00	1006.4	18.115 SPASS Rider			
VIMS_042TL_MONITOR001_ISS	2007-100T07:49:00	GMB_E042_Titan28-000T15:09:00	000T00:09:00	2007-100T07:58:00	24074.1	13 SPASS Rider			
VIMS_042TL_MIRTEMP001_CIRS	2007-100T07:58:00	GMB_E042_Titan28-000T15:00:00	000T02:00:00	2007-100T09:58:00	5000	36 SPASS Rider			
VIMS_042TL_CLOUDMAP001_PRIME	2007-100T09:58:00	GMB_E042_Titan28-000T13:00:00	000T04:00:00	2007-100T13:58:00	10000	144 Prime	ISS_NAC to Titan	NEG_X to Sun	
VIMS_042TL_FUVEUV001_UVIS	2007-100T13:58:00	GMB_E042_Titan28-000T09:00:00	000T03:50:00	2007-100T17:48:00	5507.2	76 SPASS Rider			
VIMS_042TL_HIRESNAC001_PRIME	2007-100T23:58:00	GMB_E042_Titan28+000T01:00:00	000T01:00:00	2007-101T00:58:00	0	0 Prime	VIMS_IR to Titan	NEG_X to Sun	
VIMS_042TL_REGMAP001_ISS	2007-101T00:58:00	GMB_E042_Titan28+000T02:00:00	000T02:00:00	2007-101T02:58:00	11111.1	80 SPASS Rider			
VIMS_042TL_FIRNADCMPO01_CIRS	2007-101T02:58:00	GMB_E042_Titan28+000T04:00:00	000T01:00:00	2007-101T03:58:00	8333.3	30 SPASS Rider			
VIMS_042TL_GLOBMOS001_ISS	2007-101T03:58:00	GMB_E042_Titan28+000T05:00:00	000T03:36:00	2007-101T07:34:00	6172.8	80 SPASS Rider			
VIMS_042TL_WACPHOTO01_ISS	2007-101T07:34:00	GMB_E042_Titan28+000T08:36:00	000T00:24:00	2007-101T07:58:00	55555.6	80 SPASS Rider			
VIMS_042TL_MIRLIMB002_CIRS	2007-101T07:58:00	GMB_E042_Titan28+000T09:00:00	000T05:00:00	2007-101T12:58:00	2500	45 SPASS Rider			
VIMS_042TL_MIRTEMP002_CIRS	2007-101T12:58:00	GMB_E042_Titan28+000T14:00:00	000T07:14:00	2007-101T20:12:00	537.6	14 SPASS Rider			

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
Sequence S029, length = 38 ...		2007-087T08:04:00	E041_SEQUENCE_029+000T00:00:00	037T13:56:00	2007-124T22:00:00			
TOST rev 42 Segment		2007-100T07:03:00		001T22:54:00	2007-102T05:57:00			
SP_042TI_WAYPTTURN100_PRIME	M	2007-100T07:03:00		000T00:30:00	2007-100T07:33:00	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
NEW WAYPOINT		2007-100T07:33:00		000T10:35:00	2007-100T18:08:00	ISS_NAC to Titan	NEG_X to Sun	
SP_042TI_DEADTIME100_PRIME	M	2007-100T07:33:00		000T00:16:00	2007-100T07:49:00	ISS_NAC to Titan	NEG_X to Sun	
ISS_042TI_NIGHTNAC001_PRIME	M, V	2007-100T07:49:00	GMB_E042_Titan28-000T15:09:00	000T00:09:00	2007-100T07:58:00	ISS_NAC to Titan	NEG_X to Sun	
CIRS_042TI_FIRNADCMP001_PRIME	C, I, M, V	2007-100T07:58:00	GMB_E042_Titan28-000T15:00:00	000T02:00:00	2007-100T09:58:00	CIRS_FP1 to Titan	PIC	
VIMS_042TI_CLOUDMAP001_PRIME	C, I, U	2007-100T09:58:00	GMB_E042_Titan28-000T13:00:00	000T04:00:00	2007-100T13:58:00	ISS_NAC to Titan	NEG_X to Sun	
UVIS_042TI_FIRNADCMP001_PRIME	C, R, V	2007-100T13:58:00	GMB_E042_Titan28-000T09:00:00	000T03:50:00	2007-100T17:48:00	UVIS_FUV to Titan	NEG_X to Sun	
SP_042TI_WAYPTTURN101_PRIME	R	2007-100T17:48:00	GMB_E042_Titan28-000T05:10:00	000T00:20:00	2007-100T18:08:00	NEG_Z to Titan	NEG_X to 35.0/0.0	SP Turn to Waypoint
NEW WAYPOINT		2007-100T18:08:00		000T05:27:00	2007-100T23:35:00	NEG_Z to Titan	NEG_X to 35.0/0.0	
RADAR_042TI_T28INRAD001_PRIME	M	2007-100T18:08:00	GMB_E042_Titan28-000T04:50:00	000T03:35:00	2007-100T21:43:00	NEG_Z to Titan	POS_X to North_Pole_Dir	Use +X_NTP and +Y_NTP for the 1st and 2nd polarization.
RADAR_042TI_T28INSCAT001_PRIME	M	2007-100T21:43:00	GMB_E042_Titan28-000T01:15:00	000T00:23:00	2007-100T22:06:00	NEG_Z to Titan	POS_Y to North_Pole_Dir	
ENGR_042SC_RADRCST00_PPS	M	2007-100T22:06:00	GMB_E042_Titan28-000T00:52:00	000T00:21:15	2007-100T22:27:15	NEG_Z to Titan	POS_Y to North_Pole_Dir	Deadband = (2,2,20)
RADAR_042TI_T128BINALT001_PRIME	M	2007-100T22:28:00	GMB_E042_Titan28-000T00:30:00	000T00:14:00	2007-100T22:42:00	NEG_Z to Titan	POS_Y to North_Pole_Dir	
RADAR_042TI_T128BILSAR001_PRIME	M	2007-100T22:42:00	GMB_E042_Titan28-000T00:16:00	000T00:09:00	2007-100T22:51:00	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
RADAR_042TI_T128HISAR001_PRIME	M	2007-100T22:51:00	GMB_E042_Titan28-000T00:07:00	000T00:14:00	2007-100T23:05:00	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
42TI (t) T28 TITAN outboun...		2007-100T22:58:00		000T00:00:01	2007-100T23:58:01			
RADAR_042TI_T128OLSAR001_PRIME	M	2007-100T23:05:00	GMB_E042_Titan28+000T00:07:00	000T00:09:00	2007-100T23:14:00	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
RADAR_042TI_T128OTALT001_PRIME	M	2007-100T23:14:00	GMB_E042_Titan28+000T00:16:00	000T00:13:00	2007-100T23:27:00	NEG_Z to Titan (0.0,0.0,-10.0 deg. offs)	NEG_X to Titan_SC_RAM	
SP_042TI_WAYPTTURN102_PRIME	C, M	2007-100T23:27:00	GMB_E042_Titan28+000T00:29:00	000T00:08:00	2007-100T23:35:00	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
NEW WAYPOINT		2007-100T23:35:00		001T06:22:00	2007-102T05:57:00	ISS_NAC to Titan	NEG_X to Sun	
ENGR_042SC_DFPWBIAST00_PPS	C, M	2007-100T23:35:00	GMB_E042_Titan28+000T00:37:00	000T00:21:09	2007-100T23:56:09	NEG_Y to Titan	NEG_X to Sun	
VIMS_042TI_HIRESNAC001_PRIME	C, I, M	2007-100T23:58:00	GMB_E042_Titan28+000T01:00:00	000T01:00:00	2007-101T00:58:00	VIMS_IR to Titan	NEG_X to Sun	
ISS_042TI_REGMAP001_PRIME	C, V	2007-101T00:58:00	GMB_E042_Titan28+000T02:00:00	000T02:00:00	2007-101T02:58:00	ISS_NAC to Titan	NEG_X to Sun	
CIRS_042TI_MIRLMBINT002_PRIME	C, I, V	2007-101T02:58:00	GMB_E042_Titan28+000T04:00:00	000T01:00:00	2007-101T03:58:00	CIRS_FP2 to Titan	PIC	
ISS_042TI_GLOBMAP001_PRIME	C, V	2007-101T03:58:00	GMB_E042_Titan28+000T05:00:00	000T03:36:00	2007-101T07:34:00	ISS_NAC to Titan	NEG_X to Sun	
ISS_042TI_PHOTOMWAC001_PRIME	C, V	2007-101T07:34:00	GMB_E042_Titan28+000T08:36:00	000T00:24:00	2007-101T07:58:00	ISS_NAC to Titan	NEG_X to Sun	
CIRS_042TI_FIRNADCMP002_PRIME	C, I, U, V	2007-101T07:58:00	GMB_E042_Titan28+000T09:00:00	000T05:00:00	2007-101T12:58:00	CIRS_FP1 to Titan	PIC	
CIRS_042TI_MIDIRTMAP002_PRIME	C, I, V	2007-101T12:58:00	GMB_E042_Titan28+000T14:00:00	000T07:14:00	2007-101T20:12:00	CIRS_FP2 to Titan	POS_X to North_Pole_Dir	
SP_042TI_DEADTIME101_PRIME		2007-101T20:12:00	GMB_E042_Titan28+000T21:14:00	000T00:15:49	2007-101T20:27:49	ISS_NAC to Titan	NEG_X to Sun	
SP_042EA_DLTURN101_PRIME		2007-101T20:27:00		000T00:30:00	2007-101T20:57:00	XBAND to Earth	NEG_X to NEP	SP Turn to Earth
SP_042EA_G70METNON101_PRIME	C, M	2007-101T20:57:00		000T09:00:00	2007-102T05:57:00	XBAND to Earth	Rolling/SRU	

Data Volume Summary

DATA VOLUME SUMMARY --- TRANSFER FRAME OVERHEAD INCLUDED (80 BITS PER 8800-BIT FRAME)

DOWNLINK PASS NAME	Start doy hh:mm	End doy hh:mm	OBSERVATION_PERIOD							DOWNLINK_PASS							
			P4				P5	RECORDED		PLAYBACK							
			START (Mb)	SCI (Mb)	HK+E (Mb)	TOTAL (Mb)	CPACTY (Mb)	MRGN (Mb)	OPNAV (Mb)	SCI (Mb)	ENGR (Mb)	TOTAL (Mb)	CPACTY (Mb)	MARGN (Mb)	NET_MARGN (Mb)	(%)	CAROVR (Mb)
SP_042EA_G70METNON101_PRIME	101 20:57	102 05:57	0	3435	138	3573	3516	-56	0	495	53	4064	4225	161	108	3%	0

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	100 07:03	101 20:57	266.0	34.7	304.1	21.2	778.0	116.5	108.4	752.1	282.9	131.0	598.0	0.0	8.3	3401.3
OBSERVATION_SI	100 07:03	101 20:57	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
SP_042EA_G70METNON101_PRIME	101 20:57	102 05:57	95.8	8.1	86.4	2.7	0.0	41.9	48.6	0.0	207.2	0.0	0.0	0.0	0.0	490.7
DAILY TOTAL SCIENCE	100 07:03	102 05:57	361.8	42.8	401.5	23.9	778.0	158.4	157.0	752.1	490.1	131.0	598.0	0.0		

CAPS (Mb)	CDA (Mb)	CIRS (Mb)	INMS (Mb)	ISS (Mb)	MAG (Mb)	MIMI (Mb)	RADAR (Mb)	RPWS (Mb)	UVIS (Mb)	VIMS (Mb)	PROBE (Mb)
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TOTAL RECORDED (OPNAV data not included) 361.8 42.8 401.5 23.9 778.0 158.4 157.0 752.1 490.1 131.0 598.0 0.0

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

Event	Start doy hh:mm	End doy hh:mm	CAPS (bps)	CDA (bps)	INMS (bps)	MAG (bps)	MIMI (bps)	RPWS (bps)	UVIS (bps)
SP_042NA_G70OBSNON101_NA	100 07:03	101 20:57	1949.9	254.0	155.4	854.1	794.8	2073.3	960.4
SP_042EA_G70METNON101_PRIME	101 20:57	102 05:57	2957.1	249.9	83.2	1292.2	1498.8	6395.9	0.0

Telemetry Mode Report

TELEMETRY MODE REPORT

EPOCH RELATIVE	UTC	DURATION	TELEMETRY MODE	REQUEST
	2007-100T07:03:00.000	07:55:00	S_N_ER_3	SP_042NA_G70OBSNON101_NA
GMB_E042_Titan28-000T08:00:00	2007-100T14:58:00.000	00:15:00	S_N_ER_5A	SP_042NA_G70OBSNON101_NA
GMB_E042_Titan28-000T07:45:00	2007-100T15:13:00.000	02:55:00	S_N_ER_3	SP_042NA_G70OBSNON101_NA
GMB_E042_Titan28-000T04:50:00	2007-100T18:08:00.000	05:27:00	S_N_ER_8	SP_042NA_G70OBSNON101_NA
GMB_E042_Titan28+000T00:37:00	2007-100T23:35:00.000	21:22:00	S_N_ER_3	SP_042NA_G70OBSNON101_NA
	2007-101T20:57:00.000	00:15:00	RTE_N_SPB_82950	SP_042EA_G70METNON101_PRIME
	2007-101T21:12:00.000	00:51:00	RTE_N_SPB_110600	SP_042EA_G70METNON101_PRIME
	2007-101T22:03:00.000	01:30:00	RTE_N_SPB_142200	SP_042EA_G70METNON101_PRIME
	2007-101T23:33:00.000	06:09:00	RTE_N_SPB_165900	SP_042EA_G70METNON101_PRIME
	2007-102T05:42:00.000	00:15:00	RTE_N_SPB_142200	SP_042EA_G70METNON101_PRIME

DSN Report

CASSINI DOWNLINK/DSN COVERAGE SUMMARY for CIMS_042TI_T28_2006-11-01.apf on 2006-Nov-01 11:44:56
 (+ = 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	LABEL	CNFG
G70METNON101	101T20:57-05:57	101T22:09-07:09	09:00	82,110,142,165,142	14	101T20:57-05:57	101T22:05-07:10	09:05	60/15	Ranging_X_up_on	

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 checked="" type="checkbox"/> CAPS <input checked="" type="checkbox"/> CDA <input checked="" type="checkbox"/> CIRS <input checked="" type="checkbox"/> INMS <input checked="" type="checkbox"/> ISS <input checked="" type="checkbox"/> MIMI <input checked="" type="checkbox"/> MAG <input checked="" type="checkbox"/> NAV <input type="checkbox"/> RADAR <input checked="" type="checkbox"/> RPWS <input checked="" type="checkbox"/> RSS <input checked="" type="checkbox"/> UVIS <input checked="" 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	N/A		
B. ±3 hours from targeted Titan Flyby	N/A		
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.	N/A	K. Klaasen's margin for flyby T28 is 15 min. according to memo dated Jan 7, 2003.	
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	C		

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)