



SATURN TARGET WORKING TEAM

Rev 238 Segment Legacy Package

Segment Boundary: July 20, 2016 – July 24, 2016 2016-202T07:28 – 2016-206T23:27 (SCET)

Integration Began 08/17/2015
Segment Delivered to S95 Sequence 12/31/2015
Lead Integrator was Kyle Cloutier

Legacy Package Assembled by Kyle Cloutier

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* N.A. = Slide present but content not available.



Segment Overview and Final Products

Segment Summary

- Rev 238 was an IN-2 periapse segment. Key science included ISS feature tracks, UVIS
 thermosphere imaging and auroral observations, VIMS mapping of the southern
 hemisphere, ISS limb integrations, and a VIMS/CIRS stellar occultation. Surrounding
 periapse, Radio Science occultations of both Saturn's atmosphere and the rings.
- ORS solar viewing constraints impacted science placement, but no CMT constraint management was required during the occulted period since Radio Science was prime at that time.



1						1			-
1	Request	Riders		Start (Epoch)	Duration		Primary	Secondary	Comments
æ	SATURN_238 Segment		2016-202T07:28:00			2016-206T23:27:00			
$\overline{}$	SP_238SA_WAYPTTURN202_PRIME		2016-202T07:28:00			2016-202T08:08:00	_	NEG_Z to NSP	
ap	NEW WAYPOINT		2016-202T08:08:00		000T19:19:00	2016-203T03:27:00	ISS_NAC to Saturn	NEG_Z to NSP	
<u> </u>	ISS_238SA_FEATMAP001_PRIME	C, U, V	2016-202T08:08:00		000T07:52:00	2016-202T16:00:00	ISS_NAC to Saturn	NEG_Z to NSP	
							UVIS_FUV to Mimas		
1	UVIS_238MI_LOPHASE001_PIE	C, I, V	2016-202T16:00:00		000T01:30:00	2016-202T17:30:00	(0.115,0.0,0.0 deg. offset)	NEG_Z to NSP	
= {	UVIS_238SA_THERMOSPH001_PRIME		2016-202T17:30:00		000T09:17:00	2016-203T02:47:00	ISS_NAC to Saturn	NEG_Z to NSP	
	SP_238EA_DLTURN203_PRIME		2016-203T02:47:00		000T00:40:00	2016-203T03:27:00	XBAND to Earth	NEG_Y to 332.1/16.3	XBAND to Earth, RA/Dec for NEG_Y to Saturn (0,0,-9.5)
Gap	NEW WAYPOINT		2016-203T03:27:00		000T11:10:00	2016-203T14:37:00	XBAND to Earth	NEG_Y to 332.1/16.3	
Ü							NEG_Z to DELTA_H		
1	ENGR_238SC_KPTYBIAS203_PRIME		2016-203T03:27:00		000T01:30:00	2016-203T04:57:00	(0.0,0.0,90.0 deg. offset)	NEG_X to Sun	
1	SP_238EA_C34BWGNON203_PRIME	С	2016-203T04:57:00		000T07:10:00	2016-203T12:07:00	XBAND to Earth	Rolling	MIMI. RA/Dec for NEG_Y to Saturn (0,0,-9.5).
1	SP_238SA_WAYPTTURN203_PRIME		2016-203T13:57:00		000T00:40:00	2016-203T14:37:00	ISS_NAC to Saturn	NEG_Z to NSP	
7 r	NEW WAYPOINT		2016-203T14:37:00		000T14:05:00	2016-204T04:42:00	ISS_NAC to Saturn	NEG_Z to NSP	
_	ISS_238SA_FEATRAK001_PRIME	C, M, U, V	2016-203T14:37:00		000T13:25:00	2016-204T04:02:00	ISS_NAC to Saturn	NEG_Z to NSP	
rap	SP_238EA_DLTURN204_PRIME		2016-204T04:02:00		000T00:40:00	2016-204T04:42:00	XBAND to Earth	NEG_X to NSP	
Ü	NEW WAYPOINT		2016-204T04:42:00		000T09:40:00	2016-204T14:22:00	XBAND to Earth	NEG_X to NSP	
1	SP_238EA_C70METOTP204_PRIME	C, E, N	2016-204T04:42:00		000T09:00:00	2016-204T13:42:00	XBAND to Earth	4_Hr_Rolling	CAPS.NEG_X to (NSP).OTP.SRU.
	SP_238SA_WAYPTTURN204_PRIME		2016-204T13:42:00		000T00:40:00	2016-204T14:22:00	ISS_NAC to Saturn	NEG_Z to NSP	
3	NEW WAYPOINT		2016-204T14:22:00		000T14:35:00	2016-205T04:57:00	ISS_NAC to Saturn	NEG_Z to NSP	
a -[UVIS_238SA_AURSLEW001_PRIME	C, I, V	2016-204T14:22:00		000T13:55:00	2016-205T04:17:00	UVIS_FUV to Saturn	NEG_Z to NSP	Collaborative Rider(s): ISS, VIMS
Ü	Periapse R = 10.716 Rs, lat		2016-205T03:09:14		000T00:00:01	2016-205T03:09:15			
1	SP_238EA_DLTURN205_PRIME		2016-205T04:17:00		000T00:40:00	2016-205T04:57:00	XBAND to Earth	NEG_X to NSP	
Ī	NEW WAYPOINT		2016-205T04:57:00		000T09:40:00	2016-205T14:37:00	XBAND to Earth	NEG_X to NSP	
1	SP_238EA_C70METOTB205_PRIME	C, N	2016-205T04:57:00		000T09:00:00	2016-205T13:57:00	XBAND to Earth	NEG_X to NSP	CAPS.same secondary as OTP pass.OTB.SRU.
	SP_238SA_WAYPTTURN205_PRIME		2016-205T13:57:00		000T00:40:00	2016-205T14:37:00	UVIS_SOL_OFF to Sun	NEG_X to NSP	
4a	NEW WAYPOINT		2016-205T14:37:00		000T09:00:00	2016-205T23:37:00	UVIS_SOL_OFF to Sun	NEG_X to NSP	
	VIMS_238SA_SHEMMAP001_PRIME	R	2016-205T14:37:00		000T08:20:00	2016-205T22:57:00	ISS_NAC to Saturn	NEG_Z to NSP	
Gap	SP_238SA_WAYPTTURN505_PRIME		2016-205T22:57:00		000T00:40:00	2016-205T23:37:00	XBAND to Earth	NEG_Y to 88.793/7.407	
U	NEW WAYPOINT		2016-205T23:37:00		001T00:30:00	2016-207T00:07:00	XBAND to Earth	NEG_Y to 88.793/7.407	
1	SP_238EA_DEADTIME205_PRIME		2016-205T23:37:00		000T00:20:00	2016-205T23:57:00	XBAND to Earth	NEG_Y to 88.793/7.407	
				LMB_E238_Saturn_RSS_Occ_Egr-					
	RSS_238SA_OCC001_PIE		2016-205T23:57:00	000T04:37:16	000T04:44:00	2016-206T04:41:00	XBAND to Earth	NEG_Y to 88.793/7.407	
				LMB_E238_Saturn_RSS_Occ_Egr+					
Ī	RSS_238RI_OCC001_PIE		2016-206T04:41:00	000T00:06:44	000T03:28:00	2016-206T08:09:00	XBAND to Earth	NEG_Y to 88.793/7.407	
				LMB_E238_Saturn_RSS_Occ_Egr+					
	SP_238EA_DEADTIME206_PRIME		2016-206T08:09:00	000T03:34:44	000T00:19:00	2016-206T08:28:00	XBAND to Earth	NEG_Y to 88.793/7.407	
4b	ISS_238TI_M90R1CLD206_PRIME		2016-206T08:29:00		000T02:00:00	2016-206T10:29:00	ISS_NAC to Titan	NEG_X to Sun	
	ISS_238SA_LIMBINT001_PRIME		2016-206T10:29:00		000T02:46:00	2016-206T13:15:00	ISS_NAC to Saturn	PIC	
	VIMS_238SA_ALPORIOCC001_PIE	С	2016-206T13:15:00		000T02:02:00	2016-206T15:17:00	VIMS_IR to 88.793/7.407	XBAND to Earth	Collaborative Rider(s): CIRS
<u> </u>	SP_238EA_YGAP206_PRIME		2016-206T15:17:00		000T01:30:00	2016-206T16:47:00	XBAND to Earth	NEG_Y to 88.793/7.407	
	SP_238EA_M34HEFNON206_PRIME		2016-206T16:47:00		000T06:40:00	2016-206T23:27:00	XBAND to Earth	NEG_Y to 88.793/7.407	NEG_Y to 88.793/7.407



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

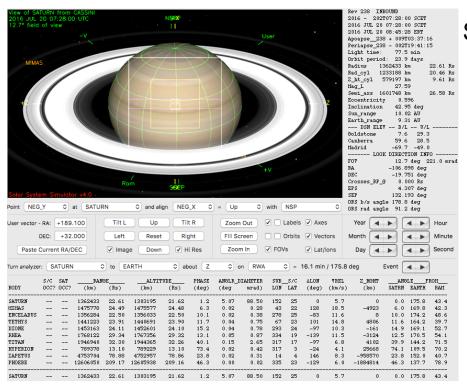
			 I	 OBS	ERVATI(ON_PERIO)D	!	DOWNLINK_PASS								
		-	 I	 	P4		1	 P5 	RECORDED PLAYBACK						ACK		
DOWNLINK PASS NAME	Start doy <u>hh:mm</u>	End doy <u>hh:mm</u>	START (Mb)	 HK+E (Mb)	TOTAL (Mb)	CPACTY (Mb)	MRGN (Mb)	 OPNAV (Mb)	 SCI (Mb)	ENGR (Mb)	 TOTAL (Mb)	CPACTY (Mb)	(MARGN	NET_M (Mb)		CAROVR (Mb)	
SP_238EA_C34BWGNON203_PRIME SP_238EA_C70METOTP204_PRIME SP_238EA_C70METOTB205_PRIME SP_238EA_M34HEFNON206_PRIME	204 04:42 205 04:57	204 13:42 205 13:57	1099	91 70 64 113	3094 2135	3322 3322 3322 3322 3322	1719 228 1187 2429	0 0 0 0	157 199 1016 51	42 53 53 39	1801 3346 3204 984		-1099 -126 557 -504	228 557 557 0	4% 5%	126 0	

DATA VOLUME REPORT --- TRANSFER FRAME OVERHEAD NOT INCLUDED

Event	Start doy <u>hh:m</u> r	End doy <u>hh:mm</u>	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 SP_238EA_C34BWGNON203_PRIME DAILY TOTAL SCIENCE	202 07:28 203 04:55 202 07:28	203 12:07	0.0 0.0 0.0	40.5 13.5 54.0	78.2 66.6 144.8	7.7 2.6 10.3	579.4 0.0 579.4	38.2 12.7 51.0	65.7 21.9 87.7	0.0 0.0 0.0	33.8	275.9 3.9 279.8	311.0 0.0 311.0	0.0 0.0 0.0		1587.9 155.1
OBSERVATION_NOR SP_238EA_C70METOTP204_PRIME DAILY TOTAL SCIENCE	203 12:07 204 04:42 203 12:07	204 13:42	0.0 0.0 0.0	37.9 17.0 54.9	116.4 86.4 202.8	6.0 3.2 9.2	499.4 0.0 499.4	29.5 16.0 45.5	50.7 27.5 78.3	0.0 0.0 0.0		49.6 4.9 54.6	500.0 0.0 500.0	0.0 0.0 0.0		1976.7 197.2
OBSERVATION_NOR SP_238EA_C70METOTB205_PRIME DAILY TOTAL SCIENCE	204 13:42 205 04:53 204 13:42	205 13:57	0.0 0.0 0.0	28.8 17.0 45.7	100.2 86.4 186.6	5.5 3.2 8.7	30.0 0.0 30.0	27.1 16.0 43.1	46.7 27.5 74.2	0.0	1236.8 852.1 2088.9	252.1 4.9 257.0	200.0 0.0 200.0	0.0 0.0 0.0		1990.9 1007.2
OBSERVATION_NOR SP_238EA_M34HEFNON206_PRIME DAILY TOTAL SCIENCE	205 13:57 206 16:47 205 13:57	206 23:27	0.0 0.0 0.0	25.3 6.3 31.6	29.3 0.0 29.3	9.7 2.4 12.1	138.6 0.0 138.6	23.9 5.9 29.8	58.0 14.4 72.4	0.0 0.0 0.0	87.9 21.8 109.7	0.0 0.0 0.0	400.0 0.0 400.0	0.0 0.0 0.0	112.1 0.0 112.1	884.7 50.9

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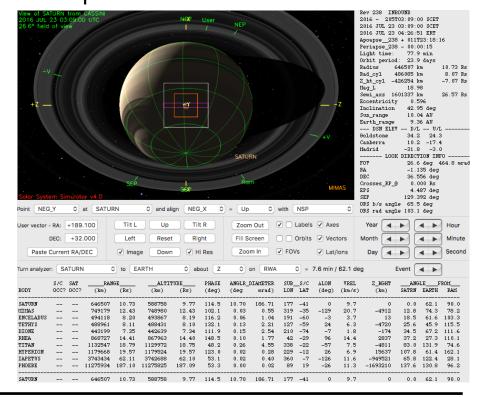
Segment Geometry (1 of 2)



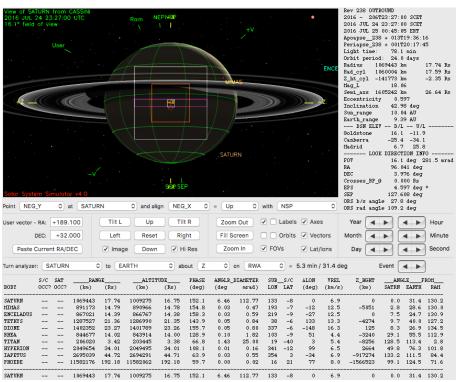
	Saturn Range	Phase Angle	Sub-S/C Lat.
Segment Start	22.61	1.2	25
Periapse	10.73	114.5	-41
Segment End	17.74	152.1	-8

Segment Start: 2016-202T07:28

Periapse: 2016-205T03:09:14

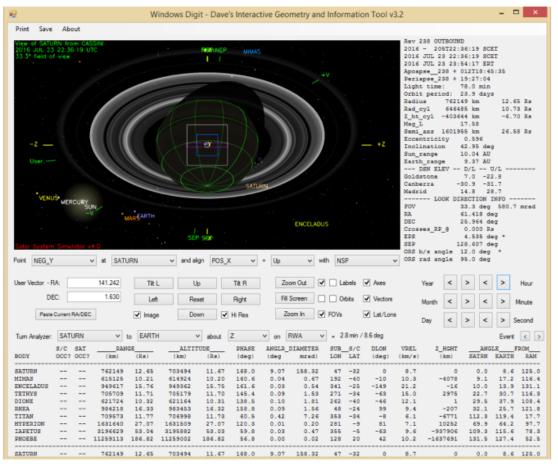


Segment Geometry (2 of 2)

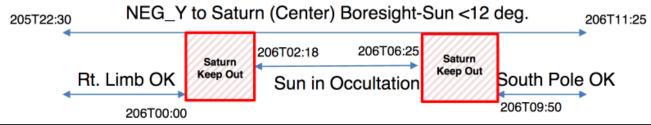


Segment End: 2016-206T23:27

	Saturn Range	Phase Angle	Sub-S/C Lat.
Segment Start	22.61	1.2	25
Periapse	10.73	114.5	-41
Segment End	17.74	152.1	-8



- Pointing to NEG Y to Saturn (center) would lead to a CMT (<12 deg) violation between 2016-205T22:30:00 (Gap 4) and 206T11:25 (Gap 5).
- Minimum NEG_Y to Sun angle is ~1.14° at 2016-206T04:24:00 (in occultation)
- Sun in occultation from 2016-206T02:18 to 06:25
- Until 206T00:00:00, Pointing at the right limb brings one out of the 12° cone, but not the 15° cone. A waiver will be required.
- At 206T09:50:00, Pointing at the south pole brings one out of the 12° cone, but not the 15° cone. A waiver will be required.



K. Cloutier

Daily Science Highlights

DOY 202 (20 July 2016): The Saturn_238, a periapse segment, began with a feature track by ISS, imaging specific latitudes/longitudes at low, medium, and high emission angles as the planet rotated. VIMS, UVIS, and CIRS rode along. Following this, UVIS targeted Mimas to obtain low phase observations while the ORS instruments rode along. UVIS then performed thermosphere imaging of Saturn for tumble density determination to aid in proximal orbit planning.

DOY 203 (21 July 2016): ISS began a 13h25m feature track observation, again imaging on latitudes at low, medium, and high emission angles as the planet rotated. CIRS, UVIS, and VIMS rode along.

DOY 204 (22 July 2016): UVIS and VIMS collaboratively observed the auroral oval for 14h with ISS riding.

DOY 205 (23 July 2016): Cassini reached periapse at the end of the auroral observation on DOY205. VIMS then proceeded to map the southern hemisphere, from ~30 degrees south latitude to the south pole.

DOY 206 (24 July 2016): Following a downlink of data to the Earth, the spacecraft kept its antenna pointed at the Earth to record the occultation of our planet by Saturn and its rings as seen from Cassini. The Radio Science subsystem and Deep Space Network antennae collected data while signals were exchanged with ground antennae through Saturn's atmosphere and across Saturn's rings on egress. Following this occultation, ISS performed an observation as part of the Titan Monitoring Campaign (phase 63 and range 0.507 Mkm). ISS then spent 2.5h observing the bright limb of Saturn. VIMS and CIRS then proceeded to collaboratively observe the occultation of the star Alpha Ori through Saturn's atmosphere. Saturn_238 ended with a downlink of data via the 34M antenna at the Madrid Complex.

Segment Integration Planning

Timeline Gaps and Suggested Observations

Saturn 238 Legacy

Gap	Start	End	Duration	Phase angle (range)	Rs range	Sub-S/C Lat.	Snapshot (mid-gap)
1a	2016-202T08:08:00	2016-202T16:00:00	000T07:52:00	1.5 to 7.1	22.47 to 20.89	25 to 21	The Committee of the Co
	Suggested obse	rvations: ISS N.	Hemisphere	Map			
1b	2016-202T17:30:00	2016-203T02:47:00	000T09:17:00	8.3 to 16.9	20.58 to 17.62	21 to 15	And
	Suggested obse	rvations: ISS Fe	ature Track,	Thermosphere	;		
2	2016-203T14:37:00	2016-204T04:02:00	000T13:25:00	30.9 to 53.2	16.07 to 13.31	6 to -10	The state that controlled the state of the s
	Suggested obse	rvations: ISS Gl	obal Map				10 Mari
3	2016-204T14:22:00	2016-205T04:17:00	000T13:55:00	77.1 to 118.0	11.62 to 10.73	-25 to -42	(i) p to de or
	Suggested obse	rvations: VIMS	S. Hemisphe	re Map			The second of th
4a	2016-205T14:37:00	2016-206T01:03:00	000T10:26:00	148.4 to 173.2	11.45 to 13.08	-40 to -29	and played have dear the state of the state
	Suggested obse	rvations: VIMS	S. Pole, UV	S Aurstare, V	IMS S. Pole,		1= (-
	UVIS Aurslew						50024 State
4b	2016-206T08:29:00	2016-206T13:15:00	000T04:46:00	172.7 to 165.2	14.55 to 15.55	-21 to -16	The state of the s
	Suggested obse or ISS shimmer	rvations: Titan (ring Limb	loud Monito	or (can't look :	at Saturn), Cl	RS	

Beginning of Integration:

DATA VOLUME SUMMARY TRAN	ISFER FR	KAME	OVERH	EAD IN	CLUDED	(80 F	JITS F	ER 8800)-BIT /	FRAME)												
					i		OF	BSERVATI	ION_PE	RIOD		ļ	I I				D	DOWNLIN	K_PASS			
								P4			i	i	i i	RECORD	i				PLAYB			
DOWNLINK PASS NAME	Start doy hh	_	End doy	i i		SCI		E TOTAL) (Mb)	L CPACI		N OPN	NAV i	į s	SCI E (Mb) (ENGR (Mb)	TOTA (Mb	AL o)	CPACTY (Mb)	MARGN (Mb)	NET_MA (Mb)	MARGN (%)	CAROVR (Mb)
SP_238EA_C34BWGNON203_PRIME SP_238EA_C34HEFOTP204_PRIME SP_238EA_C70METOTB205_PRIME SP_238EA_M70METNON206_PRIME	203 04 204 04 205 04 206 16	1:57 1:42 1:57 6:47	203 204 205 206	13:57 13:42 13:57 23:27	0 0 305 0	425 759 683 822	91 62 64 113	515 821 1053 936	3322 3322 3322 3322	2 2807 2 2501 2 2269 2 2386))) 6	0 0 0 0	1 1 5 1	199	53	768	3	867		2368 2269 3044	32% 35% 52%	0 305 0
DATA VOLUME REPORT TRANSFER FRAME OVERHEAD NOT INCLUDED																						
	art by hh:mm	End doy	hh:mm	m (M	M) (dl	(Ib) (I	CIRS (Mb)	INMS (Mb)	ISS (Mb)	MAG (Mb)	MIMI (Mb)	RADA (Mb		RPWS (Mb)			IMS Mb)	PROBE (Mb)		TOTAL (Mb)		
	02 07:28	203 203	04:57 13:57	7 0 7 0	0.0 40	7.0 8	43.2 86.4	7.7 3.2	80.0	38.2 16.0	65.7 27.5	0.	.0	101.3 42.4 143.8	4.	.9 (1.0 0.0 1.0	0.0	0.0	510.6 197.5		
OBSERVATION NOR 203 SP_238EA_C34HEFOTP204_PRIME 204 DAILY TOTAL SCIENCE 203	3 13:57 4 04:42 3 13:57	204 204 204	04:42 13:42 13:42	2 0 2 0 2 0				5.3 3.2 8.6		26.2 16.0 42.2	27.5	0.	.0	609.2 42.1 651.4	4.			0.0	0.0	813.6 197.2		
OBSERVATION_NOR 204 SP_238EA_C70METOTB205_PRIME 205 DAILY TOTAL SCIENCE 204	04 13:42 05 04:57 04 13:42	205	13:57	7 0.).0 28).0 17).0 45	7.0 8	86.4	5.5 3.2 8.7	0.0	27.1 16.0 43.1	27.5	0.	.0	537.6 366.1 903.7	4.		0.0	0.0	63.7 0.0 63.7	741.0 521.2		
OBSERVATION_NOR 209 SP_238EA_M70METNON206_PRIME 200 DATLY TOTAL SCIENCE 209	05 13:57 06 16:47 05 13:57	206	23:27	7 0	0.0 12	2.6 7	72.0	9.7 2.4 12.1	0.0	47.7 11.9 59.6	20.4	0.	.0	31.4	3.	.7 (0.0	112.1 0.0 112.1			
				CAPS (Mb)	CDA (Mb)	CIR (Mb			ISS (Mb)	MAG (Mb)	MIM (Mb)				RPWS (Mb)	UVIS (Mb)		VIMS (Mb)	PROBE (Mb)			
TOTAL RECORDED (OPNAV data not								40.3											0.0			



Waypoint Selection

Standard Waypoints

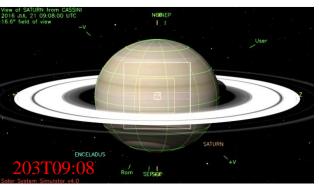
OBS NAME	START	END	POS_X_2_ NSP	POS_X_2_ NEP	NEG_X_2_ NSP	NEG_X_2_ NEP	POS_Z_2_ NSP	POS_Z_2_ NEP	NEG_Z_2_ NSP	NEG_Z_2_ NEP	NEG_X_2_ SUN	NEG_Z_2_E ARTH
SP 238NA OBSERV202 NA	2016-202T07·28·00	2016-203T04·57·00	**BAD**	**BAD**	OK	OK	**BAD**	**BAD**	OK	OK	ОК	**BAD**
SP 238NA OBSERV203 NA				**BAD**	OK	OK	**BAD**	**BAD**	OK	OK	OK	**BAD**
SP 238NA OBSERV204 NA				**BAD**	OK	**BAD**	**BAD**	**BAD**	OK	OK	OK	**BAD**
				BAD								
SP_238NA_OBSERV205_NA				2					2		2	
SP_238NA_OBSERV206_NA	2016-206T23:27:00	2016-208T02:27:00	**BAD**	**BAD**	OK	OK	**BAD**	**BAD**	**BAD**	**BAD**	**BAD**	OK

RBOT - Friendly

OBSERVATION PERIOD	START	END	POS_X	NEG_X	POS_Z	NEG_Z
SP_238NA_OBSERV202_NA	2016-202T07:28:00	2016-203T04:57:00	191.3/ 52.8	191.3/ 52.8		191.3/ 52.8
SP_238NA_OBSERV203_NA	2016-203T13:57:00	2016-204T04:42:00	191.3/ 52.8	191.3/52.8		191.3/ 52.8
SP_238NA_OBSERV204_NA	2016-204T13:42:00	2016-205T04:57:00	191.3/ 52.8	191.3/52.8		191.3/ 52.8
SP_238NA_OBSERV205_NA	2016-205T13:57:00	2016-206T15:37:00				
SP_238NA_OBSERV206_NA	2016-206T23:27:00	2016-208T02:27:00		191.2/ 48.8		

Gap 4 waypoint: NAC to Saturn with an offset to the right limb Gap 5 waypoint: XBand to Earth, NEG_Y to 88.793/7.407

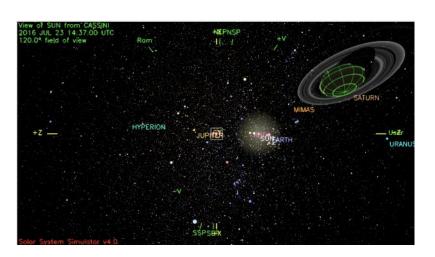
Waypoint 1 (2016-202T09:08 – 205T14:37): NAC to Saturn, NEG_Z to NSP



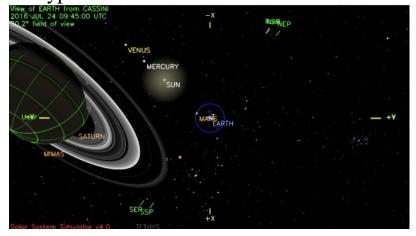




Waypoint 2 (2016-205T14:37 – 205T23:37): UVIS_SOL_OFF to Sun, NEG_X to NSP



Waypoint 3 (2016-205T23:37 – 207T00:07): XBAND to Earth, NEG_Y to 88.793/7.407 Waypoint chosen for Radio Science occultations



- Data Volume:
 - No SMT warnings. Carrying over 504 Mb to T121 due to loss of DSS-63, forced downgrade.
- DSN:
 - 5 level 3 requests for the RSS Saturn Atmospheric and Rings Occultation Experiments

Rev 238 Saturn Atmospheric and Rings Occultation Experiments:

Level 3 request from 2016-205/2100 to 2016-206/1010

Stations: DSS-55, DSS-14, DSS-25, DSS-43, DSS-35

- Resource checker:
 - 2016-206T08:28:21 ENGR_238SC_DFPW206_PPS Prior to the LMB S/C in RSS3RWAS, After the LMB S/c in DFPW_normal
 - •Disposition: Opmode strategy for RSS Occultation LMB is as follows:

RSSK 2016-205T21:31:50

RSS3RWAS 2016-205T22:57:00

DFPW 2016-206T08:28:21

Opmode change to DFPW is at end of deadtime

Opmodes:

RSSK 2016-205T21:31:50 RSS3RWAS 2016-205T22:57:00

Sequence Liens (should all be SPLAT items):

None.

