

SOST

Rev 20

2006-016T13:46 - 2006-019T11:59

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SOST Rev 20 CIMS TOL

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Request	Start Time	Duration	EndTime	Rate	Pointing
CAPS_020SA_SURVEY005_RIDER	2006-015T14:15:36	003T21:43:24	2006-019T11:59:00	1000	Control of 2nd axis when possible
CDA_020DR_1100DUST130_RIDER	2006-016T10:48:30	000T03:43:19	2006-016T14:31:49	524	CDA to Kepler RAM
RPWS_020SA_INSURVEY001_PRIME	2006-016T12:05:00	002T00:00:00	2006-018T12:05:00	1310	don't care
MIM_020CO_SURVEY013_RIDER	2006-016T12:05:01	000T09:20:00	2006-016T21:25:01	1800	If poss, keep corot ram in -X, +/-Z half-plane; B field in X, Z plane.
MAG_020OT_SURVEY013_RIDER	2006-016T13:46:00	002T22:13:00	2006-019T11:59:00	600	None
INMS_020SA_SURVEY005_RIDER	2006-016T13:46:00	002T22:13:00	2006-019T11:59:00	50	No Pointing Information.
UVIS_020SA_GENERIC001_VIMS	2006-016T14:06:00	000T10:00:00	2006-017T00:06:00	5032	No Pointing Information.
CIRS_020SA_CYLMAPO01_VIMS	2006-016T14:06:00	000T10:00:00	2006-017T00:06:00	4000	-Y Saturn
VIMS_020SA_CYLMAPO01_PRIME	2006-016T14:06:00	000T10:00:00	2006-017T00:06:00	VIMS_18432	primary NAC to nadir, secondary z parallel to polar axis
CDA_020RI_100ORINGM017_RIDER	2006-016T14:32:51	000T00:49:59	2006-016T15:22:50	524	CDA to Kepler RAM
CDA_020DR_1000DUST131_RIDER	2006-016T15:23:51	000T01:37:45	2006-016T17:01:36	524	CDA to Kepler RAM
RPWS_020SA_EQPWDUST001_RPWS	2006-016T16:06:25	000T10:30:00	2006-017T02:36:25	7000	Prefer Langmuir probe in plasma ram within 9 deg -- not a driver
CDA_020RI_090ORINGM017_RIDER	2006-016T17:02:37	000T00:49:59	2006-016T17:52:36	524	CDA to Kepler RAM
CDA_020DR_0900DUST132_RIDER	2006-016T17:53:36	000T01:07:28	2006-016T19:01:04	524	CDA to Kepler RAM
CDA_020RH_090ORHORX017_RIDER	2006-016T19:02:06	000T00:49:59	2006-016T19:52:05	4192	CDA to Kepler RAM
CDA_020DR_0800DUST133_RIDER	2006-016T19:53:06	000T01:38:30	2006-016T21:31:36	524	CDA to Kepler RAM
MIMI_020DR_INCADUST001_PRIME	2006-016T21:25:00	000T20:25:00	2006-017T17:50:00	1800	INCA boresight (in X, Y plane, 9.5 deg toward +X from -Y) >70 deg from ram.
CDA_020RE_0800ERNGX017_PRIME	2006-016T21:32:37	000T00:49:59	2006-016T22:22:36	4192	CDA to Kepler RAM
CDA_020DR_0700DUST134_RIDER	2006-016T22:23:36	000T02:09:55	2006-017T00:33:31	524	CDA to Kepler RAM
ISS_020EN_FP3RIDER001_CIRS	2006-017T00:26:00	000T03:34:00	2006-017T04:00:00		Boresight to target, +Z to North Saturn Pole
VIMS_020EN_ENCELADUS101_RIDER	2006-017T00:26:00	000T03:34:00	2006-017T04:00:00	VIMS_18432	vims boresight to enceladus
CIRS_020EN_FP3MAP001_PRIME	2006-017T00:26:00	000T03:34:00	2006-017T04:00:00	4000	-Y to Enceladus
CDA_020RE_0700ERNGX017_PRIME	2006-017T00:34:32	000T00:40:20	2006-017T01:14:52	4192	CDA to Kepler RAM
UVIS_020EN_ICYLONO28_CIRS	2006-017T01:00:00	000T03:00:00	2006-017T04:00:00	5032	Target to center of illuminated disk. Stare for duration of observation.
CDA_020DR_0600DUST135_RIDER	2006-017T01:15:52	000T01:12:52	2006-017T02:28:44	524	CDA to Kepler RAM
CDA_020DI_0600DIORX018_PRIME	2006-017T02:29:46	000T00:44:38	2006-017T03:14:24	4192	CDA to Kepler RAM
RPWS_020SA_SEDMSEC001_PRIME	2006-017T02:36:25	000T10:00:00	2006-017T12:36:25	8000	Don't care
CDA_020DR_0600DUST136_RIDER	2006-017T03:15:24	000T08:43:35	2006-017T11:58:59	524	CDA to Kepler RAM
CIRS_020EN_FP1COMP001_PRIME	2006-017T04:00:00	000T01:30:00	2006-017T05:30:00	4000	-Y to Enceladus
ISS_020EN_FP1RIDER001_CIRS	2006-017T04:00:00	000T01:30:00	2006-017T05:30:00		Boresight to target, +Z to North Saturn Pole
VIMS_020EN_ENCELADUS104_RIDER	2006-017T04:00:00	000T01:30:00	2006-017T05:30:00	VIMS_18432	vims boresight to enceladus
RPWS_020SA_SEDDF001_PRIME	2006-017T04:06:25	000T07:00:00	2006-017T11:06:25	2300	Don't care
CIRS_020EN_ISSRIDE001_ISS	2006-017T05:30:00	000T00:45:00	2006-017T06:15:00	4000	-Y to Enceladus
ISS_020EN_GEOLOG004_PRIME	2006-017T05:30:00	000T00:30:00	2006-017T06:00:00		Boresight to target, +Z to North Saturn Pole
VIMS_020EN_ENCELADUS105_RIDER	2006-017T05:30:00	000T00:45:00	2006-017T06:15:00	VIMS_18432	vims boresight to enceladus
UVIS_020EN_ICYLONO30_ISS	2006-017T05:30:00	000T00:45:00	2006-017T06:15:00	5032	Target to center of illuminated disk. Stare for duration of observation.
ISS_020EN_GEOLOG005_PRIME	2006-017T06:00:00	000T00:15:00	2006-017T06:15:00		Boresight to target, +Z to North Saturn Pole
RPWS_020SA_WHISTLER001_PRIME	2006-017T07:36:25	000T00:12:00	2006-017T07:48:25	182784	Don't care
CDA_020DI_0600DIORX019_PRIME	2006-017T12:00:00	000T00:44:38	2006-017T12:44:38	4192	CDA to Kepler RAM
RPWS_020SA_EQPWDUST002_RPWS	2006-017T12:36:25	000T04:50:00	2006-017T17:26:25	7000	Prefer Langmuir probe in plasma ram within 9 deg -- not a driver
CDA_020DR_0600DUST137_RIDER	2006-017T12:45:39	000T01:12:52	2006-017T13:58:31	524	CDA to Kepler RAM
VIMS_020RH_RHEA001_PRIME	2006-017T12:55:00	000T01:05:00	2006-017T14:00:00	VIMS_18432	VIMS boresight to Rhea
CDA_020RE_0700ERNGX018_PRIME	2006-017T13:59:32	000T00:40:20	2006-017T14:39:52	4192	CDA to Kepler RAM
CIRS_020OT_ISSVIMS001_ISS	2006-017T14:00:00	000T11:29:00	2006-018T01:29:00	4000	-Y to target
UVIS_020RH_ICYLONO22_RIDER	2006-017T14:00:00	000T02:00:00	2006-017T16:00:00	5032	Target to center of illuminated disk. Stare for duration of observation.
ISS_020RH_GLOCOLO01_PRIME	2006-017T14:00:00	000T00:19:00	2006-017T14:19:00		Boresight to Rhea; secondary axes TBD
VIMS_020RH_RHEA002_PRIME	2006-017T14:19:00	000T00:40:00	2006-017T14:59:00	VIMS_18432	VIMS boresight to Rhea
CDA_020DR_0700DUST138_RIDER	2006-017T14:40:52	000T02:10:38	2006-017T16:51:30	524	CDA to Kepler RAM
CIRS_020RH_SLOWSCAN2001_PRIME	2006-017T14:59:00	000T00:40:00	2006-017T15:39:00	4000	-Y to Rhea
ISS_020RH_REGGEODB001_PRIME	2006-017T15:39:00	000T00:10:00	2006-017T15:49:00		Boresight to Rhea (2x2 mosaic); secondary axes TBD
VIMS_020RH_RHEA003_PRIME	2006-017T15:49:00	000T00:40:00	2006-017T16:29:00	VIMS_18432	VIMS boresight to Rhea
UVIS_020RH_ICYLONO23_RIDER	2006-017T16:00:00	000T02:00:00	2006-017T18:00:00	5032	Target to center of illuminated disk. Stare for duration of observation.
CIRS_020RH_SLOWSCAN3001_PRIME	2006-017T16:29:00	000T00:40:00	2006-017T17:09:00	4000	-Y to Rhea
CDA_020RE_0800ERNGX018_PRIME	2006-017T16:52:30	000T00:49:59	2006-017T17:42:29	4192	CDA to Kepler RAM
ISS_020RH_REGGEODCO01_PRIME	2006-017T17:09:00	000T00:10:00	2006-017T17:19:00		Boresight to Rhea (2x2 mosaic); secondary axes TBD
VIMS_020RH_RHEA004_PRIME	2006-017T17:19:00	000T00:40:00	2006-017T17:59:00	VIMS_18432	VIMS boresight to Rhea
CDA_020DR_0800DUST134_RIDER	2006-017T17:43:30	000T01:37:45	2006-017T19:21:15	524	CDA to Kepler RAM
MIMI_020CO_SURVEY004_MAPS	2006-017T17:50:00	000T18:29:00	2006-018T12:19:00	1100	If poss, keep corot ram in -X, +/-Z half-plane; B field in X, Z plane.
CIRS_020RH_SLOWSCAN4001_PRIME	2006-017T17:59:00	000T00:40:00	2006-017T18:39:00	4000	-Y to Rhea
UVIS_020RH_ICYLONO21_RIDER	2006-017T18:00:00	000T02:00:00	2006-017T20:00:00	5032	Target to center of illuminated disk. Stare for duration of observation.
ISS_020RH_REGMAPD001_PRIME	2006-017T18:39:00	000T00:10:00	2006-017T18:49:00		Boresight to Rhea (2x2 mosaic); secondary axes TBD

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VIMS_020RH_RHEA005_PRIME	2006-017T18:49:00	000T00:40:00	2006-017T19:29:00	VIMS_18432	VIMS boresight to Rhea
CDA_020RH_090ORHORX018_RIDER	2006-017T19:22:16	000T00:49:59	2006-017T20:12:15	4192	CDA to Kepler RAM
CIRS_020RH_SLOWSCAN5001_PRIME	2006-017T19:29:00	000T00:40:00	2006-017T20:09:00	4000	-Y to Rhea
UVIS_020RH_ICYLON024_RIDER	2006-017T20:00:00	000T02:00:00	2006-017T22:00:00	5032	Target to center of illuminated disk. Stare for duration of observation.
ISS_020RH_REGGEODFO01_PRIME	2006-017T20:09:00	000T00:10:00	2006-017T20:19:00		Boresight to Rhea (2x2 mosaic); secondary axes TBD
CDA_020DR_090ODUST135_RIDER	2006-017T20:13:15	000T01:08:14	2006-017T21:21:29	524	CDA to Kepler RAM
VIMS_020RH_RHEA006_PRIME	2006-017T20:19:00	000T00:40:00	2006-017T20:59:00	VIMS_18432	VIMS boresight to Rhea
CIRS_020RH_SLOWSCAN6001_PRIME	2006-017T20:59:00	000T00:40:00	2006-017T21:39:00	4000	-Y to Rhea
CDA_020RI_090ORINGM018_RIDER	2006-017T21:22:30	000T00:49:59	2006-017T22:12:29	524	CDA to Kepler RAM
ISS_020RH_REGGEODFO01_PRIME	2006-017T21:39:00	000T00:10:00	2006-017T21:49:00		Boresight to Rhea (2x2 mosaic); secondary axes TBD
VIMS_020RH_RHEA007_PRIME	2006-017T21:49:00	000T00:40:00	2006-017T22:29:00	VIMS_18432	VIMS boresight to Rhea
UVIS_020RH_ICYLON025_RIDER	2006-017T22:00:00	000T02:00:00	2006-018T00:00:00	5032	Target to center of illuminated disk. Stare for duration of observation.
CDA_020DR_100ODUST136_RIDER	2006-017T22:13:30	000T01:37:45	2006-017T23:51:15	524	CDA to Kepler RAM
CIRS_020RH_SLOWSCAN7001_PRIME	2006-017T22:29:00	000T00:40:00	2006-017T23:09:00	4000	-Y to Rhea
ISS_020RH_REGGEODG001_PRIME	2006-017T23:09:00	000T00:10:00	2006-017T23:19:00		Boresight to Rhea (1x2 mosaic); secondary axes TBD
VIMS_020RH_RHEA008_PRIME	2006-017T23:19:00	000T00:40:00	2006-017T23:59:00	VIMS_18432	VIMS boresight to Rhea
CDA_020RI_100ORINGM018_RIDER	2006-017T23:52:16	000T00:49:59	2006-018T00:42:15	524	CDA to Kepler RAM
CIRS_020RH_SLOWSCAN8001_PRIME	2006-017T23:59:00	000T00:40:00	2006-018T00:39:00	4000	-Y to Rhea
ISS_020RH_REGGEODH001_PRIME	2006-018T00:39:00	000T00:10:00	2006-018T00:49:00		Boresight to Rhea (1x2 mosaic); secondary axes TBD
CDA_020DR_110ODUST137_RIDER	2006-018T00:43:15	000T03:43:20	2006-018T04:26:35	524	CDA to Kepler RAM
VIMS_020RH_RHEA009_PRIME	2006-018T00:49:00	000T00:40:00	2006-018T01:29:00	VIMS_18432	VIMS boresight to Rhea
CIRS_020RH_SLOWSCAN9001_PRIME	2006-018T01:29:00	000T00:40:00	2006-018T02:09:00	4000	-Y to Rhea
NAV_020SC_OTM050001_PRIME	2006-018T02:29:00	000T09:00:00	2006-018T11:29:00	1638 bps	Start/End Earth point
CDA_020RI_120ORINGM018_RIDER	2006-018T04:27:37	000T01:59:59	2006-018T06:27:36	524	CDA to Kepler RAM
CDA_020DR_130ODUST138_RIDER	2006-018T06:28:37	000T03:15:29	2006-018T09:44:06	524	CDA to Kepler RAM
CDA_020RI_140ORINGM018_RIDER	2006-018T09:45:07	000T01:59:59	2006-018T11:45:06	524	CDA to Kepler RAM
CDA_020DR_150ODUST139_RIDER	2006-018T11:46:06	000T03:28:28	2006-018T15:14:34	524	CDA to Kepler RAM
CIRS_020DI_FP3STARE001_ISS	2006-018T11:49:00	000T00:30:00	2006-018T12:19:00	4000	-Y to target
ISS_020DI_022W157PH001_PRIME	2006-018T11:49:00	000T00:30:00	2006-018T12:19:00		ISS_NAC to Dione, secondary TBD
RPWS_020SA_OUTSURVEY002_PRIME	2006-018T12:05:00	000T23:54:00	2006-019T11:59:00	1125	don't care
CIRS_020RH_FP3DARK001_CIRS	2006-018T12:19:00	000T01:53:00	2006-018T14:12:00	4000	-Y to Rhea
MIMI_020CO_SURVEY014_MAPS	2006-018T12:19:00	000T23:40:00	2006-019T11:59:00	880	If poss, keep corot ram in -X, +/-Z half-plane; B field in X, Z plane.
UVIS_020SA_DAYGLOW001_PRIME	2006-018T14:12:00	000T01:33:00	2006-018T15:45:00		Primary: -Y to Saturn, Z to Saturn Pole
CDA_020RI_160ORINGM020_RIDER	2006-018T15:15:35	000T01:59:59	2006-018T17:15:34	524	CDA to Kepler RAM
ISS_020MI_022W158PH001_PRIME	2006-018T15:55:00	000T00:30:00	2006-018T16:25:00		ISS_NAC to Mimas, secondary TBD
VIMS_020MI_MIMAS001_RIDER	2006-018T15:55:00	000T00:30:00	2006-018T16:25:00	VIMS_18432	VIMS boresight to Mimas
ISS_020OT_RETHIEOPL001_PRIME	2006-018T16:25:00	000T00:37:00	2006-018T17:02:00		Boresight to target satellite, control of secondary axis not required
VIMS_020TI_TITANMU101_RIDER	2006-018T17:00:00	000T00:20:00	2006-018T17:20:00	VIMS_18432	VIMS boresight to Titan
ISS_020CP_MUTUALEVE001_PRIME	2006-018T17:02:00	000T00:18:00	2006-018T17:20:00		ISS Boresight to TITAN control of secondary axis not required
CDA_020DR_170ODUST140_RIDER	2006-018T17:16:35	000T03:47:56	2006-018T21:04:31	524	CDA to Kepler RAM
ISS_020EN_094W151PH001_PRIME	2006-018T17:20:00	000T00:30:00	2006-018T17:50:00		ISS_NAC to Enceladus, secondary TBD
VIMS_020EN_ENCELADUS102_RIDER	2006-018T17:20:00	000T00:30:00	2006-018T17:50:00	VIMS_18432	VIMS boresight to Enceladus
CIRS_020TE_094W147PH001_ISS	2006-018T19:30:00	000T00:30:00	2006-018T20:00:00	4000	-Y to Tethys.
ISS_020TE_094W147PH001_PRIME	2006-018T19:30:00	000T00:30:00	2006-018T20:00:00		ISS_NAC to Tethys, secondary TBD
VIMS_020TE_TETHYS001_RIDER	2006-018T19:30:00	000T00:30:00	2006-018T20:00:00	VIMS_18432	VIMS boresight to Tethys
ISS_020MI_094W151PH001_PRIME	2006-018T20:50:00	000T00:30:00	2006-018T21:20:00		ISS_NAC to Mimas, secondary TBD
VIMS_020MI_MIMAS002_RIDER	2006-018T20:50:00	000T00:30:00	2006-018T21:20:00	VIMS_18432	VIMS boresight to Mimas
CDA_020RI_180ORINGM017_RIDER	2006-018T21:05:31	000T01:59:59	2006-018T23:05:30	524	CDA to Kepler RAM
UVIS_020SA_DAYGLOW003_PRIME	2006-018T21:20:00	000T02:05:00	2006-018T23:25:00	336	Primary: -Y to Saturn Center, Secondary: FOV Twist 45 deg
CDA_020DR_190ODUST112_RIDER	2006-018T23:06:31	000T03:17:39	2006-019T02:24:10	150	CDA to Kepler RAM
ISS_020EN_166W154PH001_PRIME	2006-018T23:25:00	000T00:30:00	2006-018T23:55:00		ISS_NAC to Enceladus, secondary TBD
VIMS_020EN_ENCELADUS103_RIDER	2006-018T23:25:00	000T00:30:00	2006-018T23:55:00	VIMS_18432	VIMS boresight to Enceladus
ISS_020OT_RETHIEOPL005_PRIME	2006-018T23:55:00	000T01:10:00	2006-019T01:05:00		Boresight to target satellite, control of secondary axis not required
ISS_020MI_166W154PH001_PRIME	2006-019T01:05:00	000T00:30:00	2006-019T01:35:00		ISS_NAC to Mimas, secondary TBD
VIMS_020MI_MIMAS003_RIDER	2006-019T01:05:00	000T00:30:00	2006-019T01:35:00	VIMS_18432	VIMS boresight to Mimas
UVIS_020SA_DAYGLOW002_PRIME	2006-019T01:35:00	000T00:20:00	2006-019T01:55:00	336	Primary: -Y to Saturn Center, Secondary: Z to Saturn Pole
ISS_020TE_MUTUALEVE004_PRIME	2006-019T01:55:00	000T00:29:00	2006-019T02:24:00		ISS Boresight to Tethys control of secondary axis not required
CDA_020TI_200OTIORX017_RIDER	2006-019T02:25:11	000T01:59:59	2006-019T04:25:10	200	CDA to Kepler RAM
CDA_020DR_210ODUST113_RIDER	2006-019T04:26:10	000T11:55:22	2006-019T16:21:32	150	CDA to Kepler RAM

SOST Rev 20 Attitude Strategy

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Request	Riders	Start (SCET)	Start (Epoch)	Dur	End (SCET)	Observation Attitude		Comments
						Primary	Secondary	
turn to waypoint		2006-016T13:46		00:20	016T14:06			
NEW WAYPOINT		2006-016T14:06				NAC to SATURN	+X to NSP	
VIMS (Saturn)	U	2006-016T14:06		10:00		NAC to Saturn		
turn to new waypoint		2006-017T00:06		00:20	2006-017T00:26			
NEW WAYPOINT		2006-017T00:26				NAC to ENCELADUS	+Z to Encel NP	-Z to Enc. NP ok too for 2ndary
CIRS Enceladus	V, I, U	2006-017T00:26		03:34		FP3 to Enceladus		note Tethys occultation at -017T03:30
CIRS FP1 Enceladus	I	2006-017T04:00		01:30		FP1 to Enceladus		
ISS Enceladus	V, C, U	2006-017T05:30		00:45		NAC to Enceladus		
turn to Earth	V, I, U	2006-017T06:15		00:20				
downlink		2006-017T06:35		06:00				
turn to new waypoint		2006-017T12:35		00:20				
NEW WAYPOINT		2006-017T12:55				NAC to RHEA	+Z to Rhea NP	-Z to Rhea NP ok too for 2ndary
VIMS prime		2006-017T12:55		01:05				
ISS		2006-017T14:00		00:19				
VIMS stare		2006-017T14:19		00:40				
CIRS slow scan		2006-017T14:59		00:40				
ISS 2x2 mosaic		2006-017T15:39		00:10				
VIMS stare		2006-017T15:49		00:40				
CIRS slow scan		2006-017T16:29		00:40				
ISS 2x2 mosaic		2006-017T17:09		00:10				
VIMS stare		2006-017T17:19		00:40				
CIRS slow scan		2006-017T17:59		00:40				
ISS 2x2 mosaic		2006-017T18:39		00:10				
VIMS stare		2006-017T18:49		00:40				(for >90 deg. Phase, target to center of illum. Portion of Rhea)
CIRS slow scan		2006-017T19:29		00:40				
ISS 2x2 mosaic		2006-017T20:09		00:10				
VIMS stare		2006-017T20:19		00:40				
CIRS slow scan		2006-017T20:59		00:40				
ISS 2x2 mosaic		2006-017T21:39		00:10				
VIMS stare		2006-017T21:49		00:40				
CIRS slow scan		2006-017T22:29		00:40				
ISS 1x2 mosaic		2006-017T23:09		00:10				
VIMS stare		2006-017T23:19		00:40				
CIRS slow scan		2006-017T23:59		00:40				
ISS 1x2 mosaic		2006-018T00:39		00:10				
VIMS stare		2006-018T00:49		00:40				
CIRS slow scan		2006-018T01:29		00:40				
turn to Earth		2006-018T02:09		00:20	2006-018T02:29			
downlink, OTM		2006-018T02:29		09:00	2006-018T11:29			
turn to new waypoint		2006-018T11:29		00:20	2006-018T11:49			
NEW WAYPOINT		2006-018T11:49				NAC to DIONE	+Z to Dione NP	-Z to Dione NP ok too for 2ndary
ISS_020DL_022W157PH		2006-018T11:49		00:30		NAC to Dione		S&ER_5
CIRS prime		2006-108T12:19		0T01:53		NAC to Rhea		
UVIS prime		2006-018T14:12		0T01:33		NAC to Saturn		
ISS_020MI_022W158PH001_PRIME		2006-018T15:55:00		0T00:30	2006-018T16:25:00	NAC to Mimas		S&ER5
ISS_020OT_RETHIEOPL001		2006-018T16:25		0T00:37		retarg		
ISS_020CP_MUTUALEVE001_PRIME	V	2006-018T17:02:00		0T00:18	2006-018T17:20:00	Titan		Calypso transit in front of Titan crescent/ no return to WP
ISS_020EN_094W151PH001_PRIME		2006-018T17:20:00		0T00:30	2006-018T17:50:00	NAC to Enceladus		take over at Titan/ Calypso; S&ER5
ISS_020OT_RETHIEOPL002		2006-018T17:50		0T01:40		retarg		
ISS_020TE_094W147PH001_PRIME		2006-018T19:30:00		0T00:30	2006-018T20:00:00	NAC to Tethys		S&ER5
ISS_020OT_RETHIEOPL003		2006-018T20:00		0T00:50		retarg		
ISS_020MI_094W151PH001_PRIME		2006-018T20:50:00		0T00:30	2006-018T21:20:00	NAC to Mimas		S&ER5
UVIS prime		2006-018T21:20		0T02:05		NAC to Saturn		
ISS_020EN_166W154PH001_PRIME		2006-018T23:25:00		0T00:30	2006-018T23:55:00	NAC to Enceladus		S&ER5
ISS_020OT_RETHIEOPL005		2006-018T23:55		0T01:10		retarg		
ISS_020MI_166W154PH001_PRIME		2006-019T01:05:00		0T00:30	2006-019T01:35:00	NAC to Mimas		S&ER5
UVIS prime		2006-019T01:35		0T00:20		NAC to Saturn		
ISS_020TE_MUTUALEVE004_PRIME		2006-019T01:55		0T00:29	2006-019T02:24	NAC to Tethys		
turn to Earth		2006-019T02:24		00:20	2006-019T02:44			
Downlink		2006-019T02:44		09:15	2006-019T11:59	XBAND to Earth	rolling	backup OTM

SOST Rev 20 OpMode/Telemetry Mode Strategy

6/10/02

Start Time	Dur	End Time	OpMode	OpMode Transition Time (from prev.)	Telemetry Mode	Comments
2006-016T13:46	20:04		DFPW	00:00:49	S_N_ER_3	ORS
2006-017T06:35	06:00		DFPW		RTE_N_SPB_X	downlink
2006-017T12:35	13:54		DFPW		S_N_ER_3	ORS
2006-018T02:29	09:00		DFPW_TCM	00:00:56	RTE_N_SPB_X	downlink, OTM
2006-018T11:29	00:50		DFPW	00:00:49	S_N_ER_5	ORS
2006-018T12:19	03:36		DFPW		S_N_ER_3	
2006-018T15:55	00:30		DFPW		S_N_ER_5	
2006-018T16:25	00:37		DFPW		S_N_ER_3	
2006-108T17:20	00:30		DFPW		S_N_ER_5	
2006-018T17:50	01:40		DFPW		S_N_ER_3	
2006-018T19:30	00:30		DFPW		S_N_ER_5	
2006-018T20:00	00:50		DFPW		S_N_ER_3	
2006-018T20:50	00:30		DFPW		S_N_ER_5	
2006-018T21:20	02:05		DFPW		S_N_ER_3	
2006-018T23:25	00:30		DFPW		S_N_ER_5	
2006-018T23:55	01:10		DFPW		S_N_ER_3	
2006-018T01:05	00:30		DFPW		S_N_ER_5	
2006-018T01:35	01:09		DFPW		S_N_ER_3	
2006-019T02:44	09:15		DFPW_TCM	0:00:56	RTE_N_SPB_X	downlink; backup OTM

AP_VOLUME v2.6.1 DATA VOLUME REPORT FOR rev20/CIMS_rev20_020608_pb.apf
 USING DICTIONARY FILE dict_vims.txt AND AAF FILE rev20/CIMS_rev20_020608_pb.apf

Playback	Start doy hh:mm	End doy hh:mm	Volume (Mb)	5% (Mb)	ENG+HK (Mb)	SCIENCE (Mb)	TOTAL (Mb)	MARGIN (Mb)
PLAYBACK*	016 04:31	016 13:45	24617	1231	0	109	109	23277
PLAYBACK*	017 06:20	017 12:35	3004	150	93	2400	2493	361
PLAYBACK*	018 02:14	018 11:29	1260	63	100	1168	1268	-71
PLAYBACK**	019 02:29	019 11:59	1293	65	106	1065	1172	57
Leftover:					0	2	2	-2

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)	VIMS (Mb)	ENG (Mb)	SCIENC (Mb)	TOTAL (Mb)
OBSERVATION	undef min	016 04:31	51.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.3
PLAYBACK*	016 04:31	016 13:45	33.3	5.6	0.0	0.0	0.0	0.0	10.9	0.0	7.9	0.0	0.0	0.0	0.0	0.0	57.7
OBSERVATION	016 13:45	017 06:20	59.6	71.6	227.8	3.0	297.8	35.8	107.4	0.0	468.5	70.2	580.7	0.0	42.8	14.1	1979.2
PLAYBACK*	017 06:20	017 12:35	22.5	19.5	0.0	1.1	0.0	13.5	40.5	0.0	380.6	0.0	0.0	0.0	35.7	0.2	513.6
OBSERVATION	017 12:35	018 02:14	49.1	58.4	175.0	2.5	276.0	29.5	67.3	0.0	186.9	36.2	134.6	0.0	35.3	11.6	1062.3
PLAYBACK*	018 02:14	018 11:29	33.3	17.4	0.0	1.7	0.0	20.0	36.6	0.0	43.6	0.0	0.0	0.0	53.2	0.2	206.0
OBSERVATION	018 11:29	019 02:29	54.0	23.6	41.5	2.7	416.0	32.4	48.2	0.0	61.2	229.2	26.2	0.0	38.8	12.7	986.4
PLAYBACK**	019 02:29	019 11:59	34.2	5.5	0.0	1.7	0.0	20.5	30.1	0.0	38.5	0.0	0.0	0.0	54.7	0.2	185.4
Leftover:	019 11:59	undef max	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4

Event	Start doy hh:mm	End doy hh:mm	CAPS (Pkts)	CDA (Pkts)	CIRS (Pkts)	INMS (Pkts)	ISS (Pkts)	MAG (Pkts)	MIMI (Pkts)	RADAR (Pkts)	RPWS (Pkts)	UVIS (Pkts)	VIMS_ (Pkts)	VIMS (Pkts)	TOTAL (Pkts)
OBSERVATION	undef min	016 04:31	6500	0	0	0	0	0	0	0	0	0	0	0	6500
PLAYBACK*	016 04:31	016 13:45	4200	1400	0	0	0	0	1400	0	1100	0	0	0	8100
OBSERVATION	016 13:45	017 06:20	7500	17100	28500	400	39200	4600	13500	0	61600	8100	98700	0	279200
PLAYBACK*	017 06:20	017 12:35	2900	4700	0	200	0	1800	5100	0	50000	0	0	0	64700
OBSERVATION	017 12:35	018 02:14	6200	14000	21900	400	36300	3800	8500	0	24600	4200	22900	0	142800
PLAYBACK*	018 02:14	018 11:29	4200	4200	0	300	0	2600	4600	0	5800	0	0	0	21700
OBSERVATION	018 11:29	019 02:29	6800	5700	5200	400	54700	4100	6100	0	8100	26400	4500	0	122000
PLAYBACK**	019 02:29	019 11:59	4300	1400	0	300	0	2600	3800	0	5100	0	0	0	17500
Leftover:	019 11:59	undef max	0	600	0	0	0	0	0	0	0	0	0	0	600

* = back-to-back or multirate playbacks; first one listed

SOST Rev 20 Data Volume Allocations

6/10/02

Data Volume Allocation -- SOST Rev 20

start time	duration	team/activity	data volume alloc.	data volume usage 6/8	running sum of usage	
016T14:06	05:07	VIMS (Saturn)	500	500	500	
017T00:15	10:00	CIRS Enceladus	230	227.8	727.8	
		ISS Enceladus	300	297.8	1025.6	ISS may use an add'l 350 Mb (extra)
		VIMS Enceladus	150	80.7	1106.3	
		UVIS Enceladus	150	70.2	1176.5	
		RPWS	850	849.1	2025.6	
		MAG	80	49.3	2074.9	
		MIMI	160	147.9	2222.8	
		CAPS	130	82.1	2304.9	
		CDA	140	91.1	2396	
		INMS	10	4.1	2400.1	
		MAPS total	1370			
017T09:50	3:50	downlink	-2761.2			under-subscription: -361.1
017T14:00		ISS Rhea	280	276	276	
		CIRS Rhea	140	175	451	
		VIMS Rhea	200	134.6	585.6	
		UVIS Rhea rider	75	36.2	621.8	
		RPWS	230.5	230.5	852.3	
		MAG	49.5	49.5	901.8	
		MIMI	91.2	103.9	1005.7	
		CAPS	82.4	82.4	1088.1	
		CDA	75.8	75.8	1163.9	
		INMS	4.2	4.2	1168.1	
		MAPS total	533.6			
018T02:44	9:15	downlink	-1096.7		71.4	(carry over)
018T12:19		ISS	250	416	487.4	ISS is over-allocation, will need to cut 16 Mb
		CIRS	100	41.5	528.9	
		VIMS	100	26.2	555.1	
		UVIS	200	229.2	784.3	
		RPWS	100	99.7	884	
		MAG	52.9	52.9	936.9	
		MIMI	75	78.3	1015.2	
		CAPS	75	88.2	1103.4	
		CDA	29.1	29.1	1132.5	
		INMS	4.4	4.4	1136.9	
		MAPS total	336.4			
019T02:44	9:15	downlink	-1121.6			over-subscription 15.3

SOST Rev 20 DSN Requests (6/10/02)

DSN	Type	Track Start (ERT)	Track End (ERT)	Track Dur.	2-way Dur.	Downlink Start (SCET)	Downlink End (SCET)	Downlink Duration	Data Rate (kbps)	OWLT	Comments
Goldstone	70 m	2006-17T05:25	2006-17T13:45	00T08:20	00T06:00	2006-17T06:35	2006-17T12:35	00T06:00	142, 165	69.21	downlink
Goldstone	70 m	2006-18T03:35	2006-18T12:40	00T09:05	00T06:41	2006-18T02:29	2006-18T11:29	00T09:00	124, 142, 165	69.21	OTM, downlink
Goldstone	70 m	2006-19T03:50	2006-19T13:10	00T09:20	00T06:56	2006-19T02:44	2006-19T11:59	00T09:15	142, 165	69.21	bu OTM, downlink

Open Issues

- Data volume during first observation period:
 - Extra 350 Mb may be used by ISS
- Data volume during last observation period:
 - We are over-subscribed by 16 Mb.
 - Suggestion: ISS cut 16 Mb (down to 400 Mb)