

SATURDAY 093-095
 APRIL 3, 2010 - APRIL 5, 2010

MISSING
 IMAGE

CASSINI SFOS

SOE z0590g.soe
 SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
 SEQ z0590g.pef

UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
PDT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1
PDT:	APR 03																	APR 04																	4/05														
SPACECRAFT																																												TITAN FLYBY T67 SEGMENT					
INITIAL CONDITIONS																																												SP_129TL_WAYPTTURN095					
SEQ ID::																																												SP_129EA_S59IVP095					
TXR PWR::																																												RPWS OBS SURVEY 80KHZ WBR TO ADD 423 BPS AVERAGE					
ANT::																																												SP_129TL_DEADTIME095					
TWNC:																																												CIRS_129TL_FIRNADCMP001					
RNG::																																												VIMS_129TL_FIRNADCMP001					
DOR::																																												RPWS INTERPLANETARY CRUISE - 205 BPS TARGET					
OWLT:																																												START S59 0400					
MOD IND:																																												RPWS OUTER MAGNETOSPHERE SURVEY - 1310 BPS TARGET 887 BPS LRS BASE					
SUBC:																																												RPWS OUTER MAGNETOSPHERE SURVEY - 1310 BPS TARGET 887 BPS LRS BASE					
CDU B/R:																																												RPWS LOAD IEB HERE - 1 BPS TARGET 887 BPS LRS BASE					
CODED:																																												VIMS_129TL_PHOTOMWAC001					
RNG MOD:																																												ISS_129TL_NIGHTWAC001					
																																												PERFORM RAM & IORAM DUMP 1044 BPS					
																																												INITIALIZE CDA FOR S59 0400<					
																																												SUBC OFF 0400 *					
																																												RNG MOD LOW 0400 *					
																																												RNG ON 0400 *					
																																												ANT HGA 0400 *					
																																												TXR PWR ON 0400 *					
																																												DOR OFF 0400 *					
																																												CODED K15R1/6 0400 *					
																																												CDU B/R 500 0400 *					
																																												TWNC OFF 0400 *					
																																												SUBC HIGH 0400 *					
																																												MOD IND 68.8 0400 *					
TLM B/R																																												0400					
TWNC																																												124426					
EARTH OCCULT																																												0400					
SOLAR OCCULT																																												1896					
																																												OFF					
																																												IN VIEW					
																																												IN VIEW					
DSN COVERAGE																																											 24					
GOLDSTONE:																																											 25					
																																											 26					
																																											 15					
																																											 14					
CANBERRA:																	 43	43																														
																	 45																															
																	 34																															
MADRID:																		63(x) 1910↑																															
																		1900 ----- 63 ----- 0400																															
																	 63																															
																	 65																															
																	 55																															
																	 54																															
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	DOY 093																	DOY 094																	DOY 095														

ISSUE DATE: 03/18/10

MONDAY 095-096

APRIL 5, 2010 - APRIL 6, 2010

MISSING
IMAGE

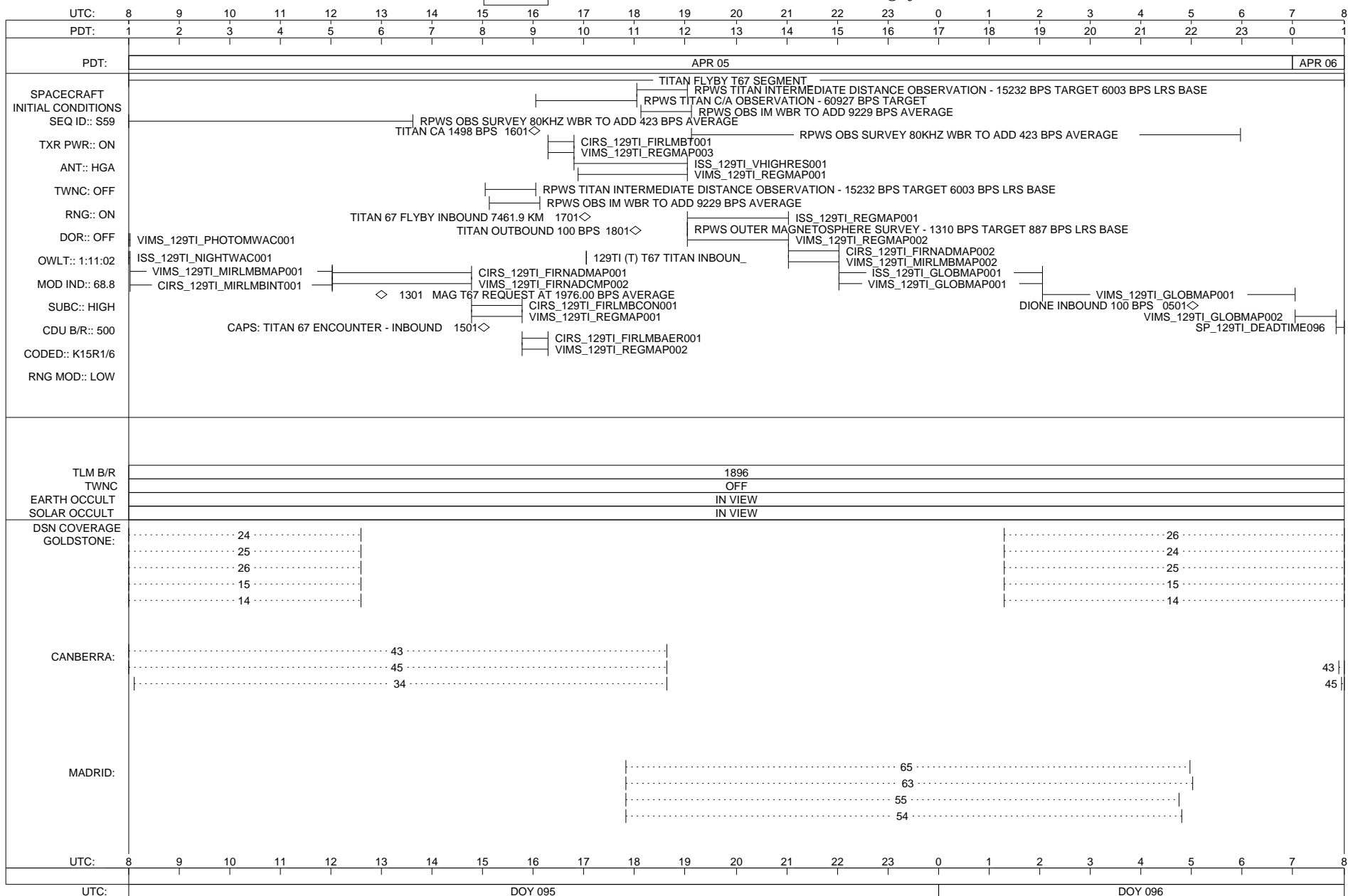
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

TUESDAY 096-097

APRIL 6, 2010 - APRIL 7, 2010

MISSING IMAGE

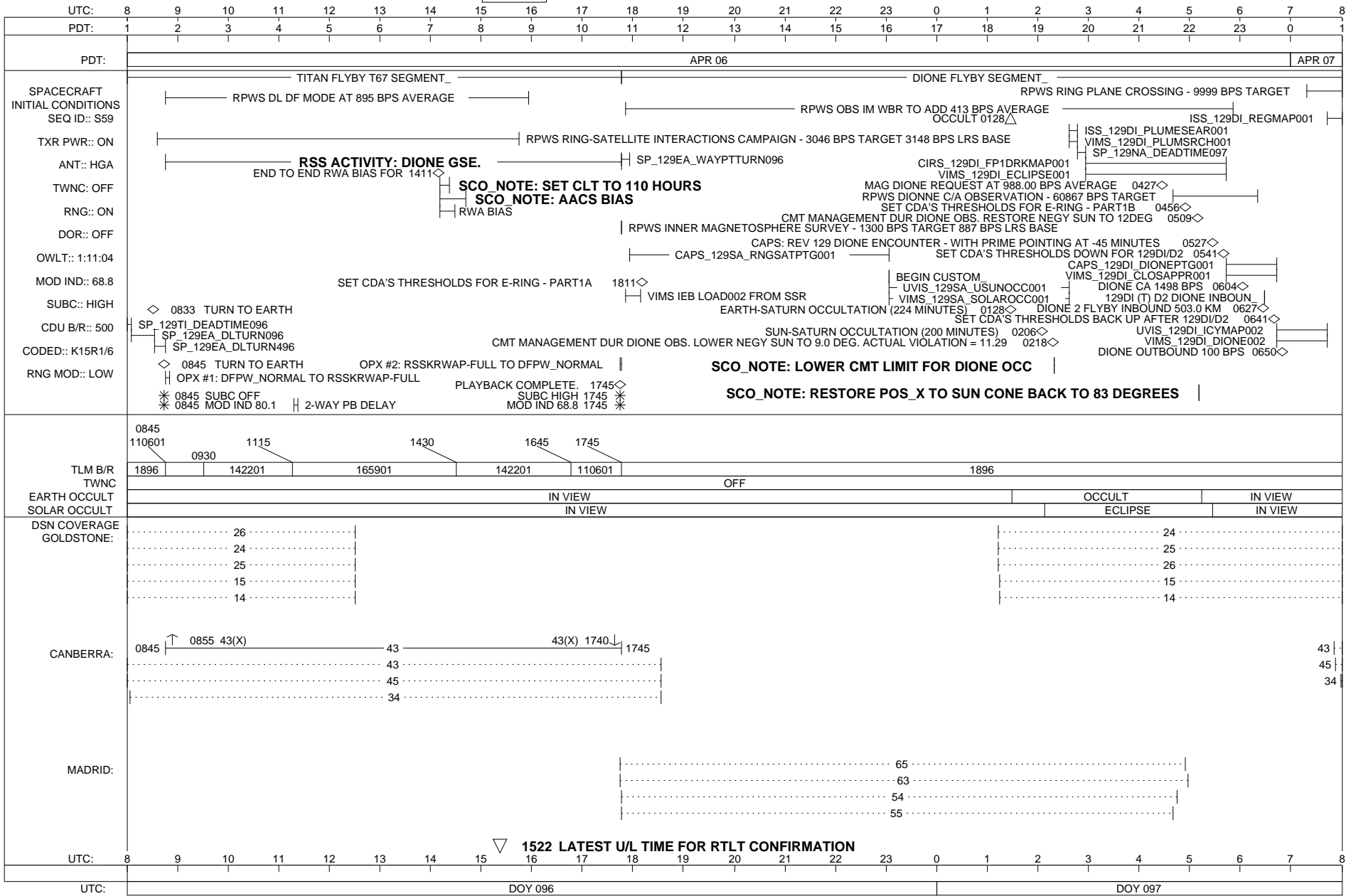
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pgf



ISSUE DATE: 03/18/10

WEDNESDAY 097-098

APRIL 7, 2010 - APRIL 8, 2010

MISSING
IMAGE

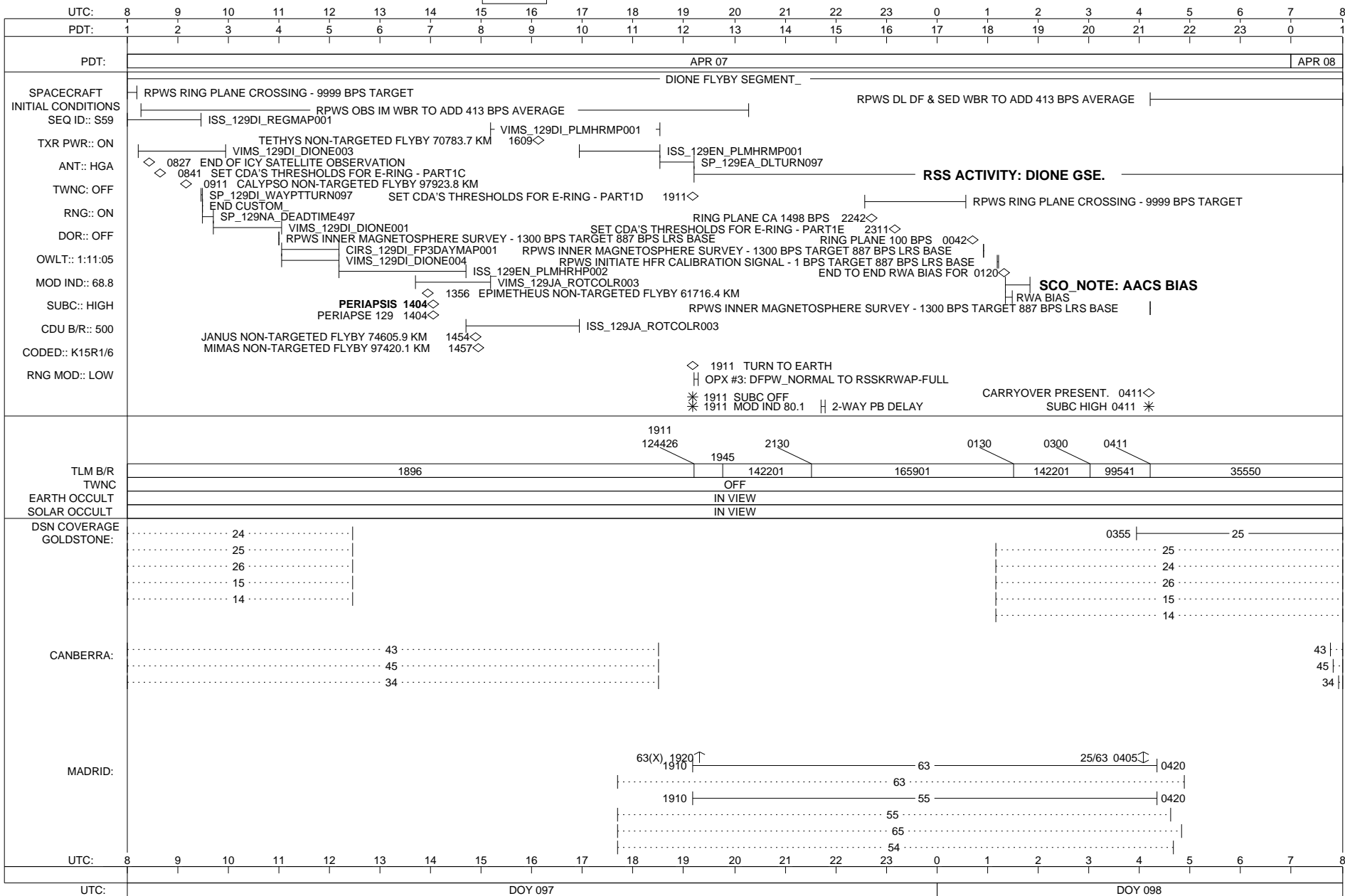
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

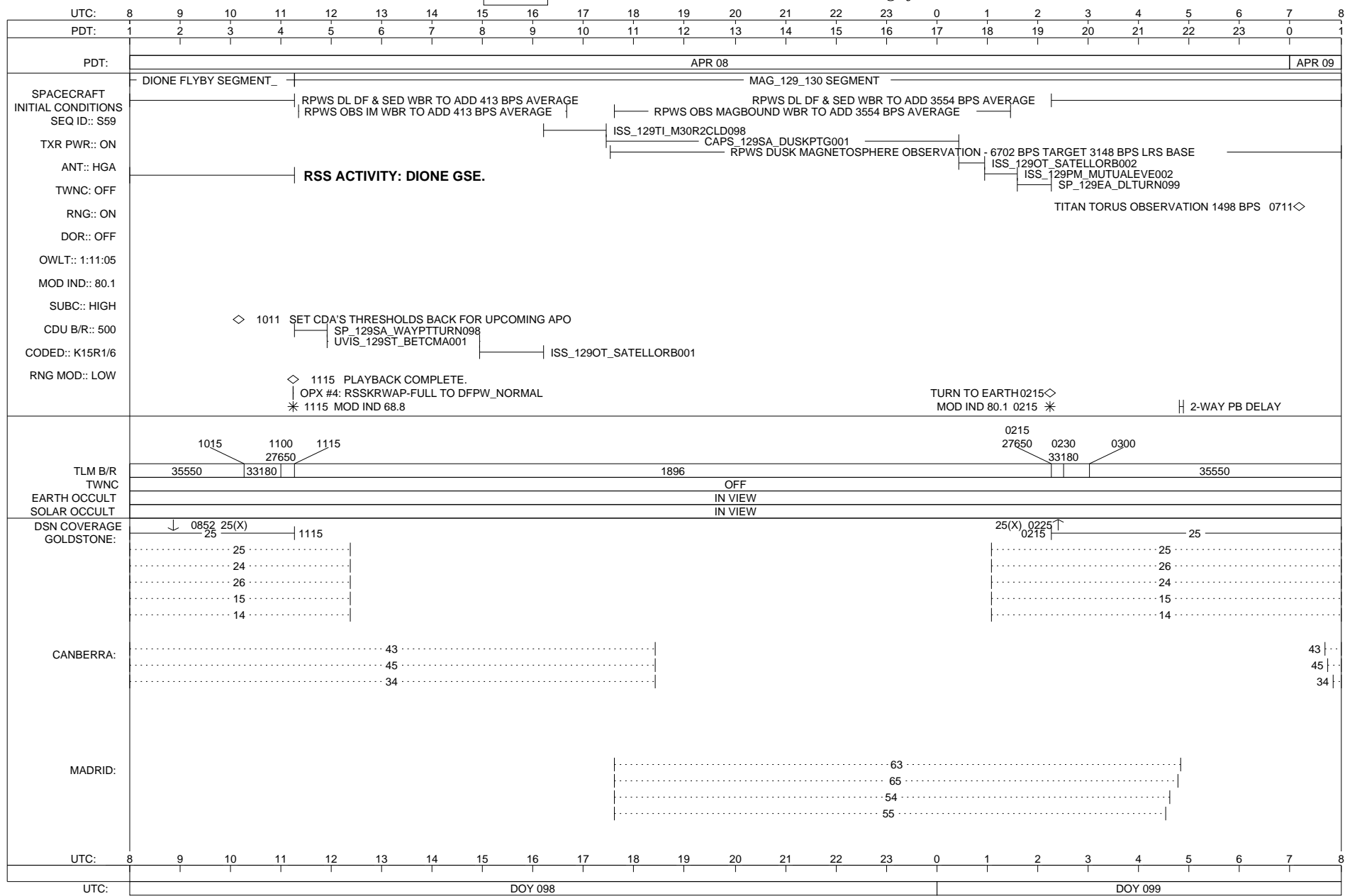
THURSDAY 098-099
 APRIL 8, 2010 - APRIL 9, 2010

MISSING
 IMAGE

CASSINI SFOS

SOE z0590g.soe
 SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
 SEQ z0590g.pef



ISSUE DATE: 03/18/10

FRIDAY 099-100

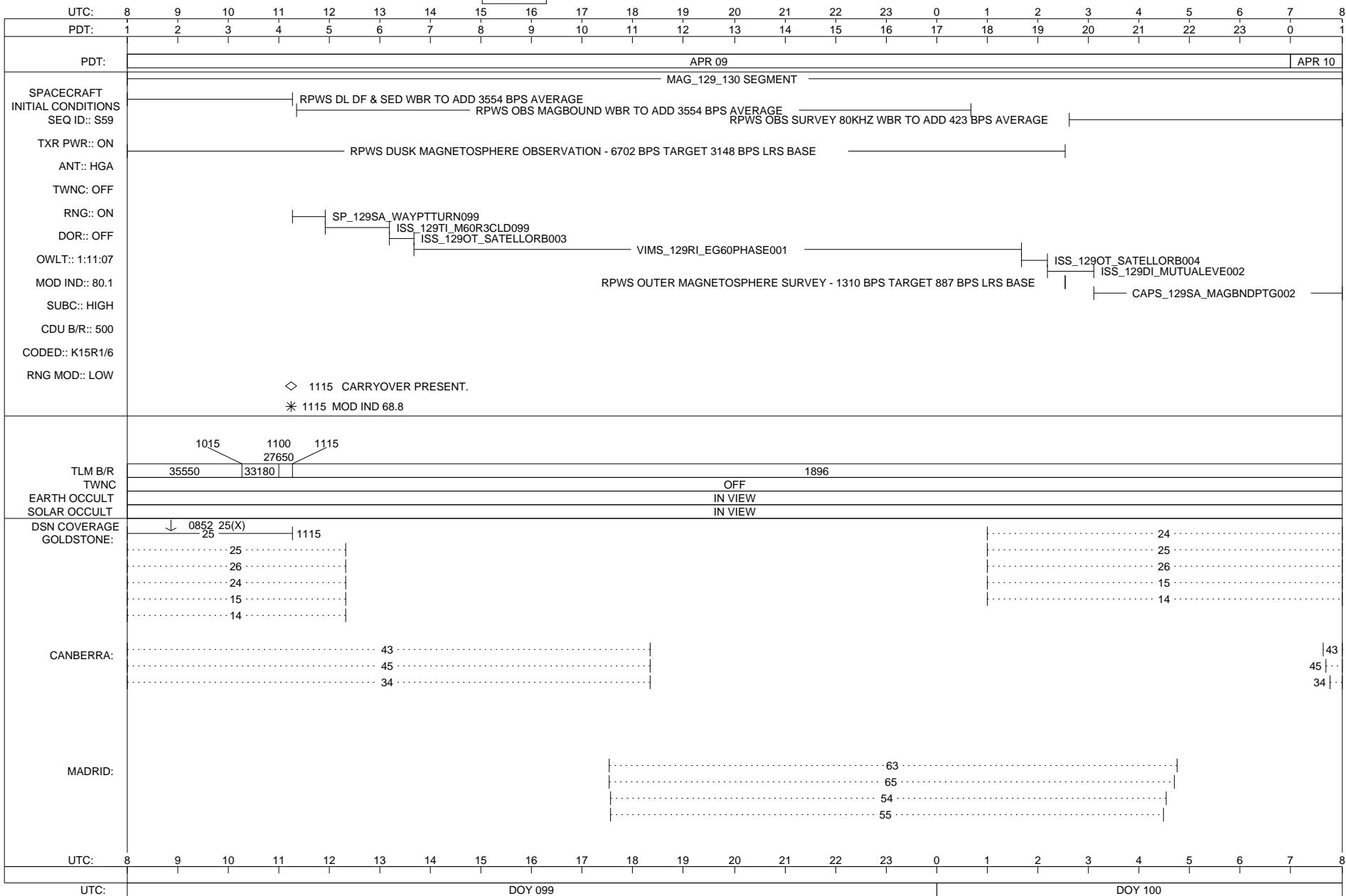
APRIL 9, 2010 - APRIL 10, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

SATURDAY 100-101

APRIL 10, 2010 - APRIL 11, 2010

MISSING
IMAGE

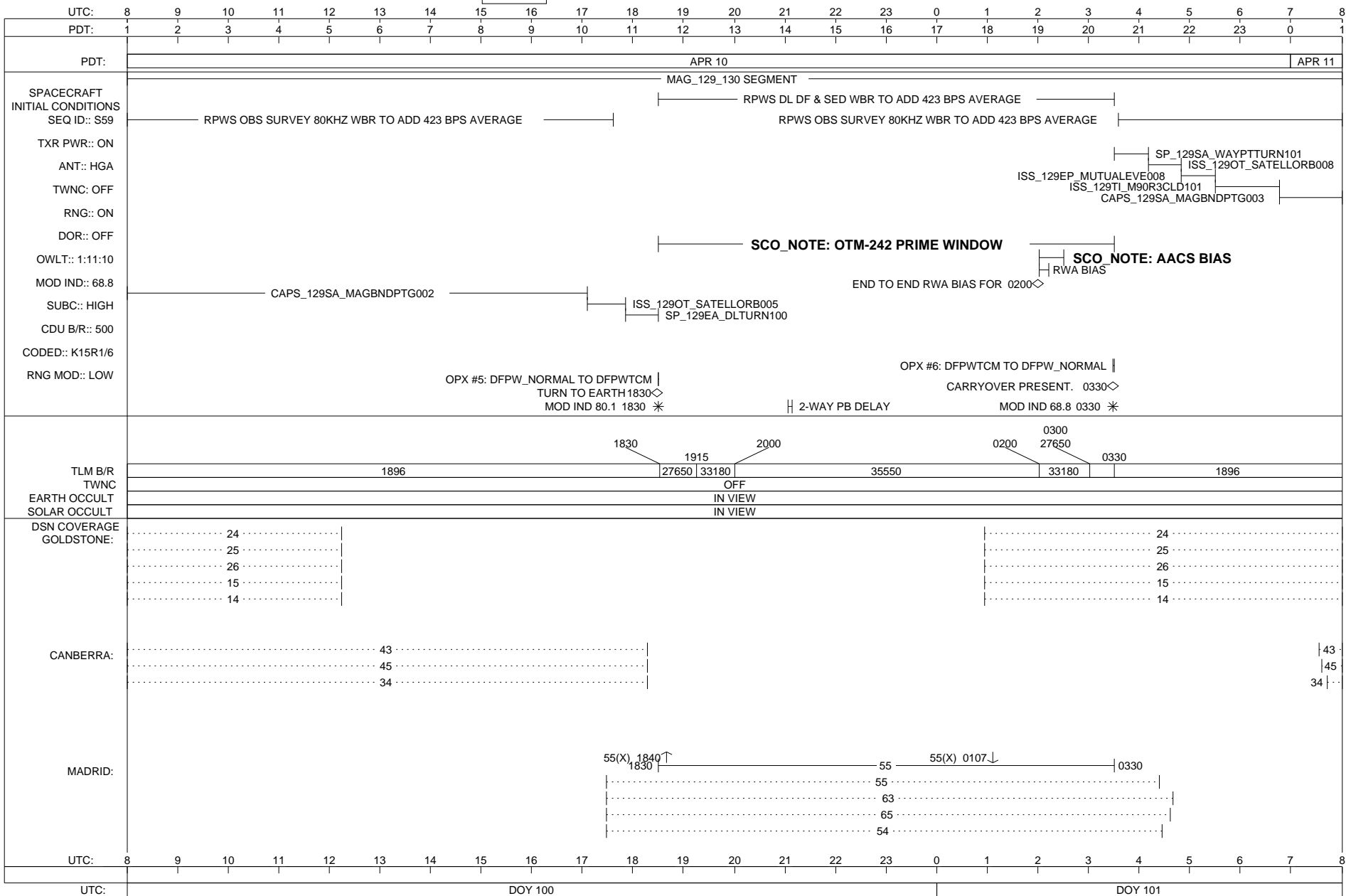
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

SUNDAY 101-102

APRIL 11, 2010 - APRIL 12, 2010

MISSING
IMAGE

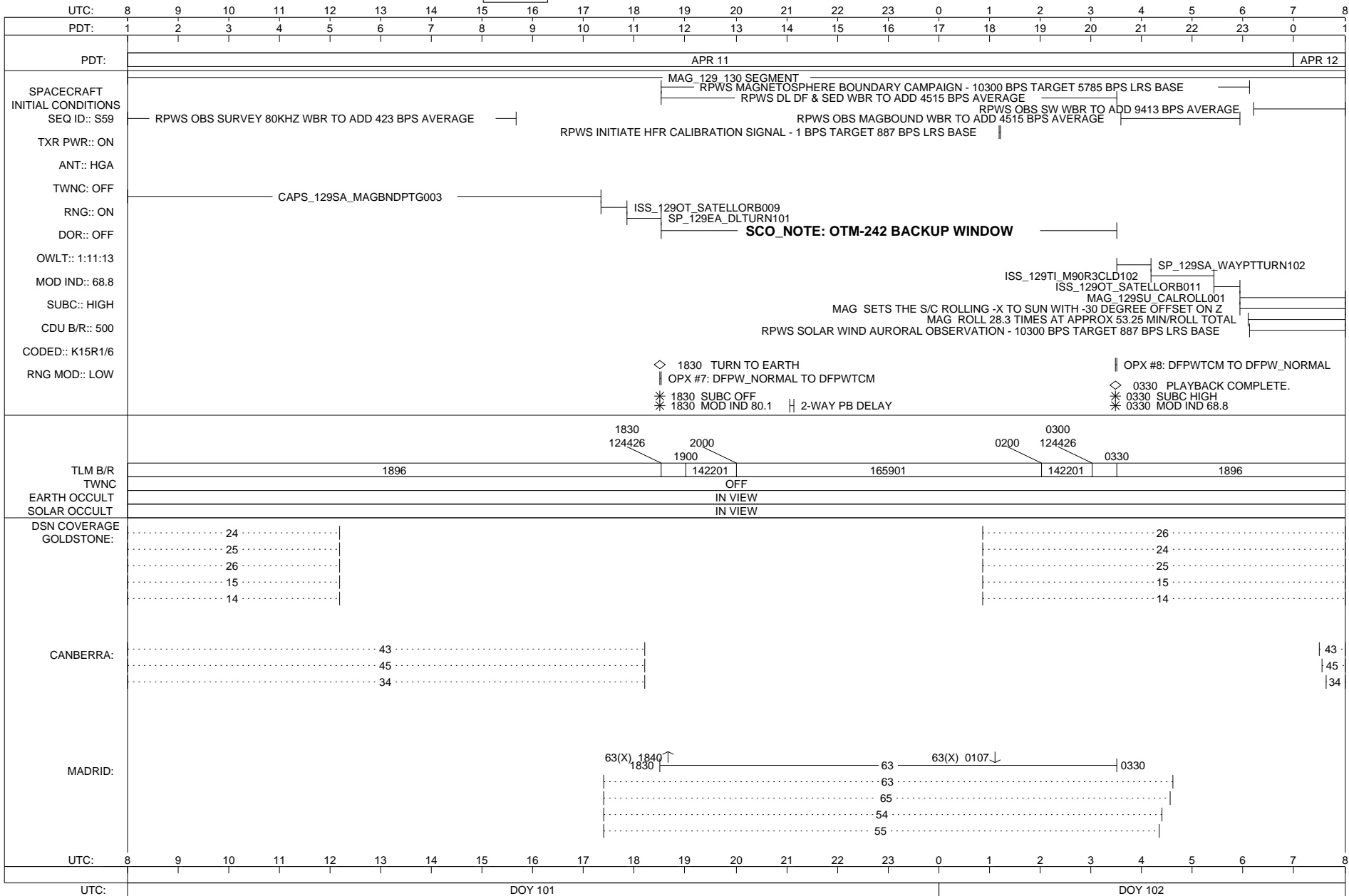
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

MONDAY 102-103

APRIL 12, 2010 - APRIL 13, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef

UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
PDT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1
PDT:	APR 12																							APR 13	
	MAG_129_130 SEGMENT																								
SPACECRAFT INITIAL CONDITIONS SEQ ID:: S59	RPWS OBS SW WBR TO ADD 9413 BPS AVERAGE																								
TXR PWR:: ON																									
ANT:: HGA																									
TWNC: OFF																									
RNG:: ON																									
DOR: OFF																									
OWLT:: 1:11:16																									
MOD IND:: 68.8																									
SUBC:: HIGH	MAG_129SU_CALROLL001																								
CDU B/R:: 500	MAG SETS THE S/C ROLLING -X TO SUN WITH -30 DEGREE OFFSET ON Z																								
CODED:: K15R1/6	MAG ROLL 28.3 TIMES AT APPROX 53.25 MIN/ROLL TOTAL																								
RNG MOD:: LOW	RPWS SOLAR WIND AURORAL OBSERVATION - 10300 BPS TARGET 887 BPS LRS BASE																								
	SP_129EA_DLTURN103																								
TLM B/R	1896																								
TWNC	OFF																								
EARTH OCCULT	IN VIEW																								
SOLAR OCCULT	IN VIEW																								
DSN COVERAGE GOLDSTONE:	26											26													
	24											24													
	25											25													
	15											15													
	14											14													
CANBERRA:	43											45													
	45											43													
	34											34													
MADRID:	63											63													
	65											65													
	54											54													
	55											55													
UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	DOY 102																DOY 103								

ISSUE DATE: 03/18/10

TUESDAY 103-104

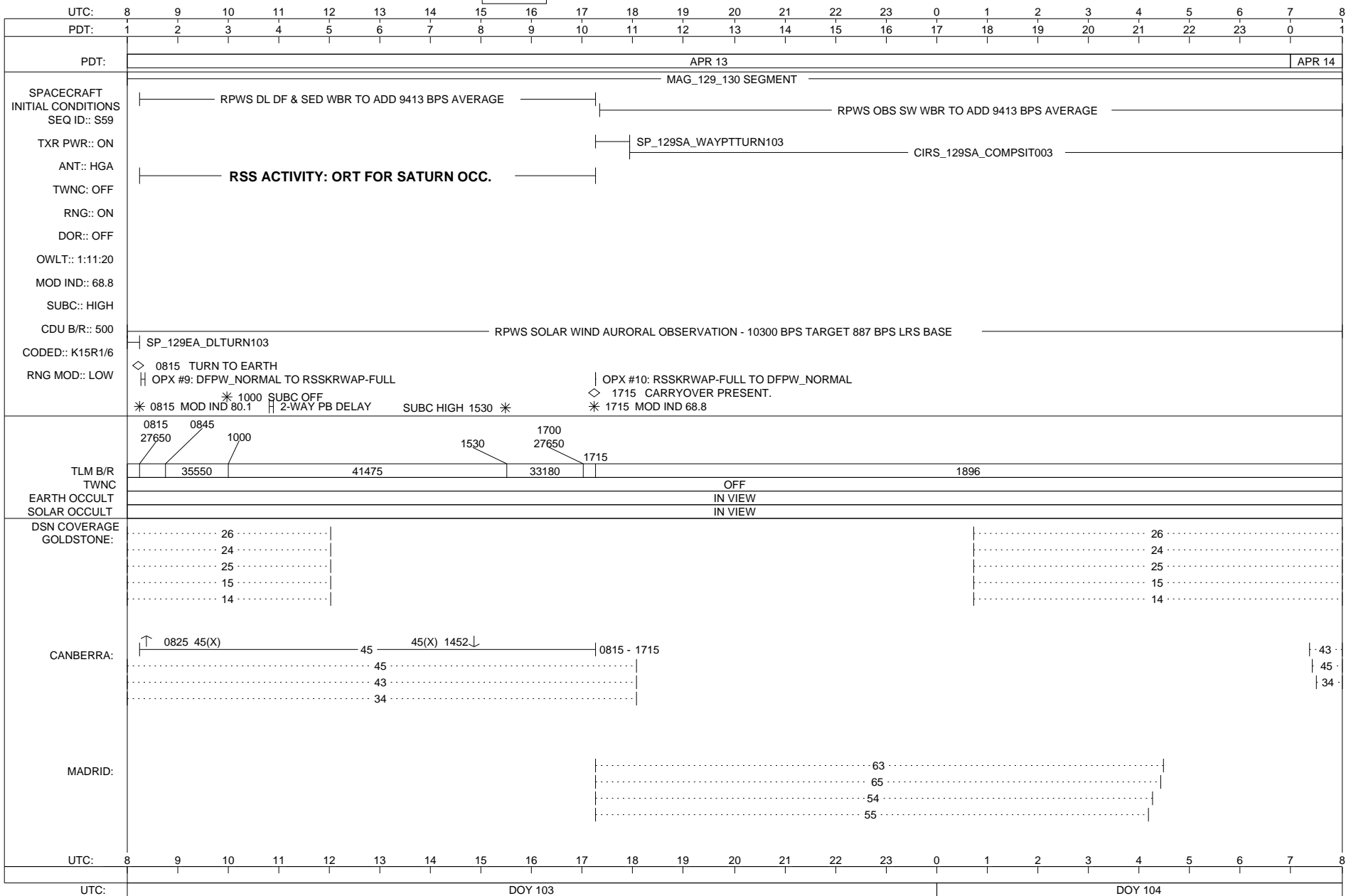
APRIL 13, 2010 - APRIL 14, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

WEDNESDAY 104-105

APRIL 14, 2010 - APRIL 15, 2010

MISSING
IMAGE

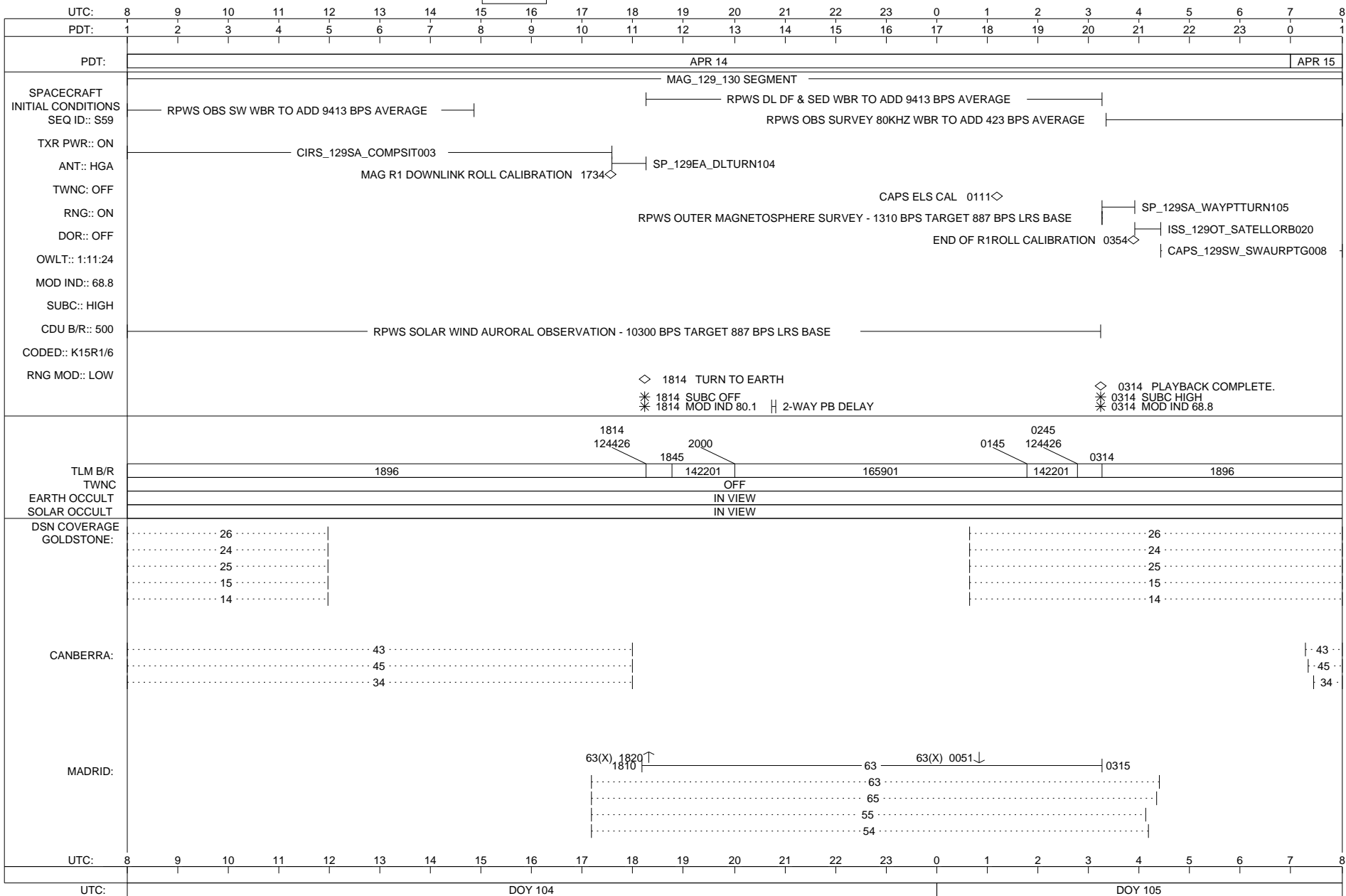
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

THURSDAY 105-106

APRIL 15, 2010 - APRIL 16, 2010

MISSING
IMAGE

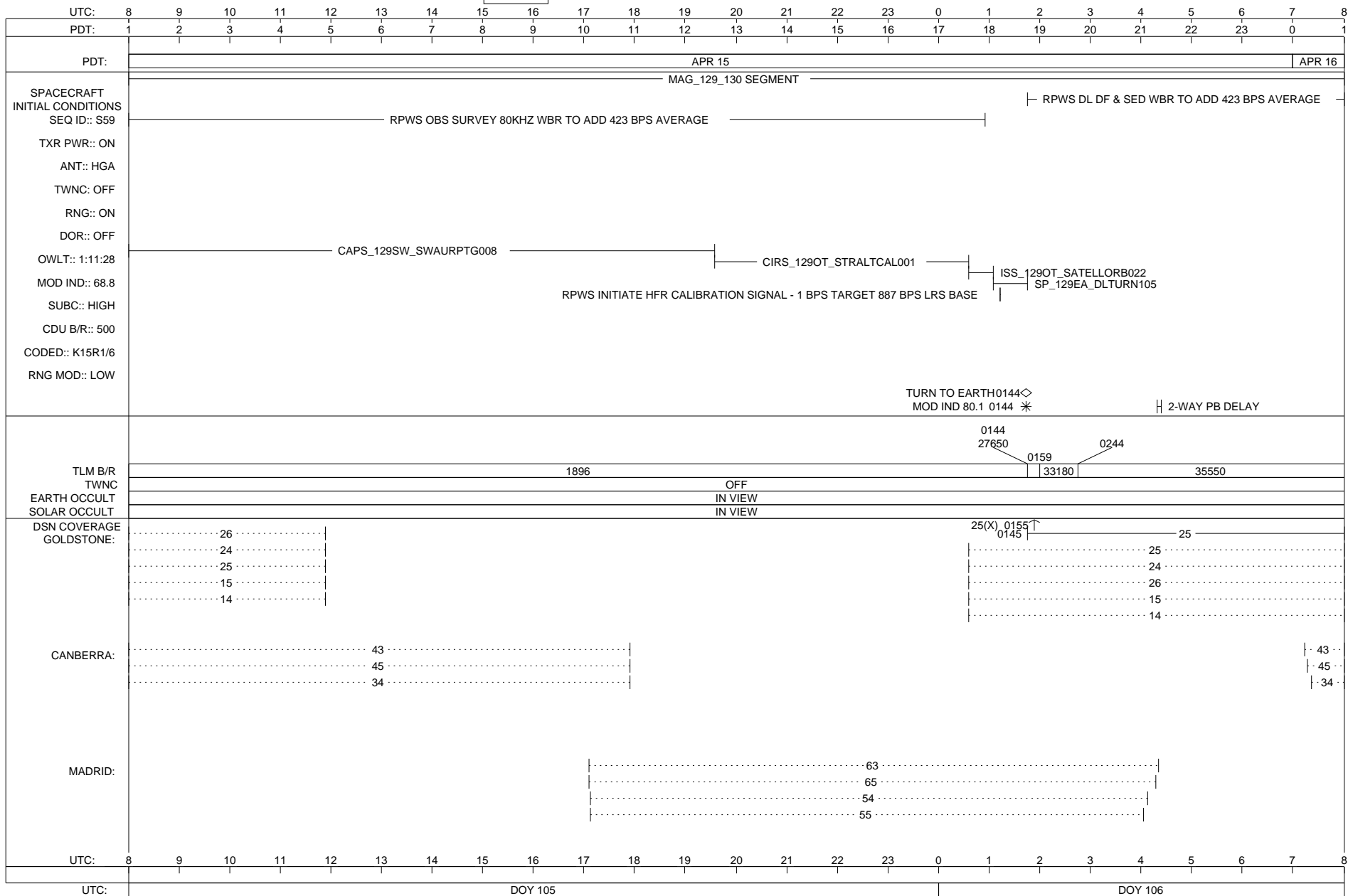
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

FRIDAY 106-107

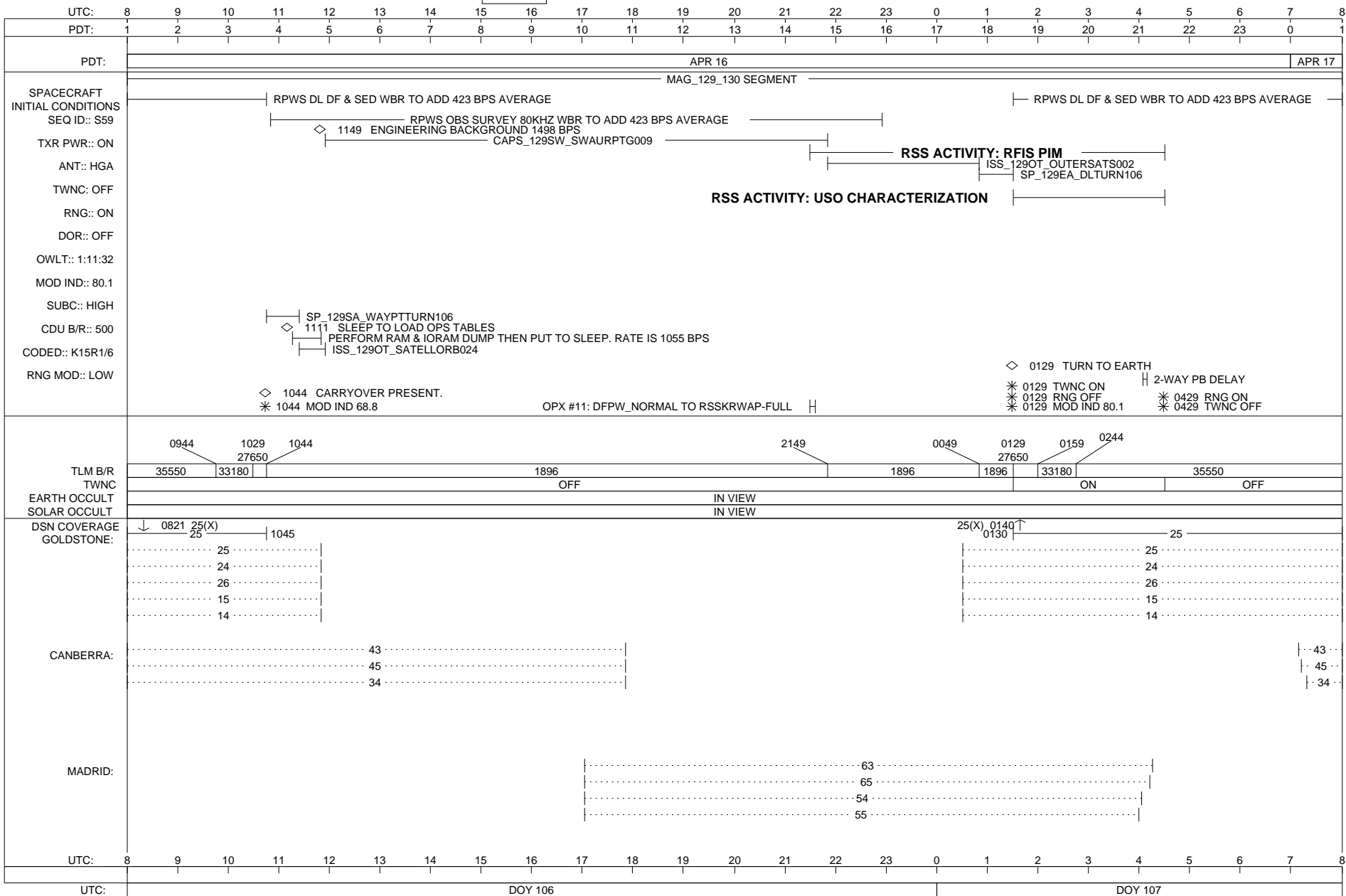
APRIL 16, 2010 - APRIL 17, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

SATURDAY 107-108

APRIL 17, 2010 - APRIL 18, 2010

MISSING
IMAGE

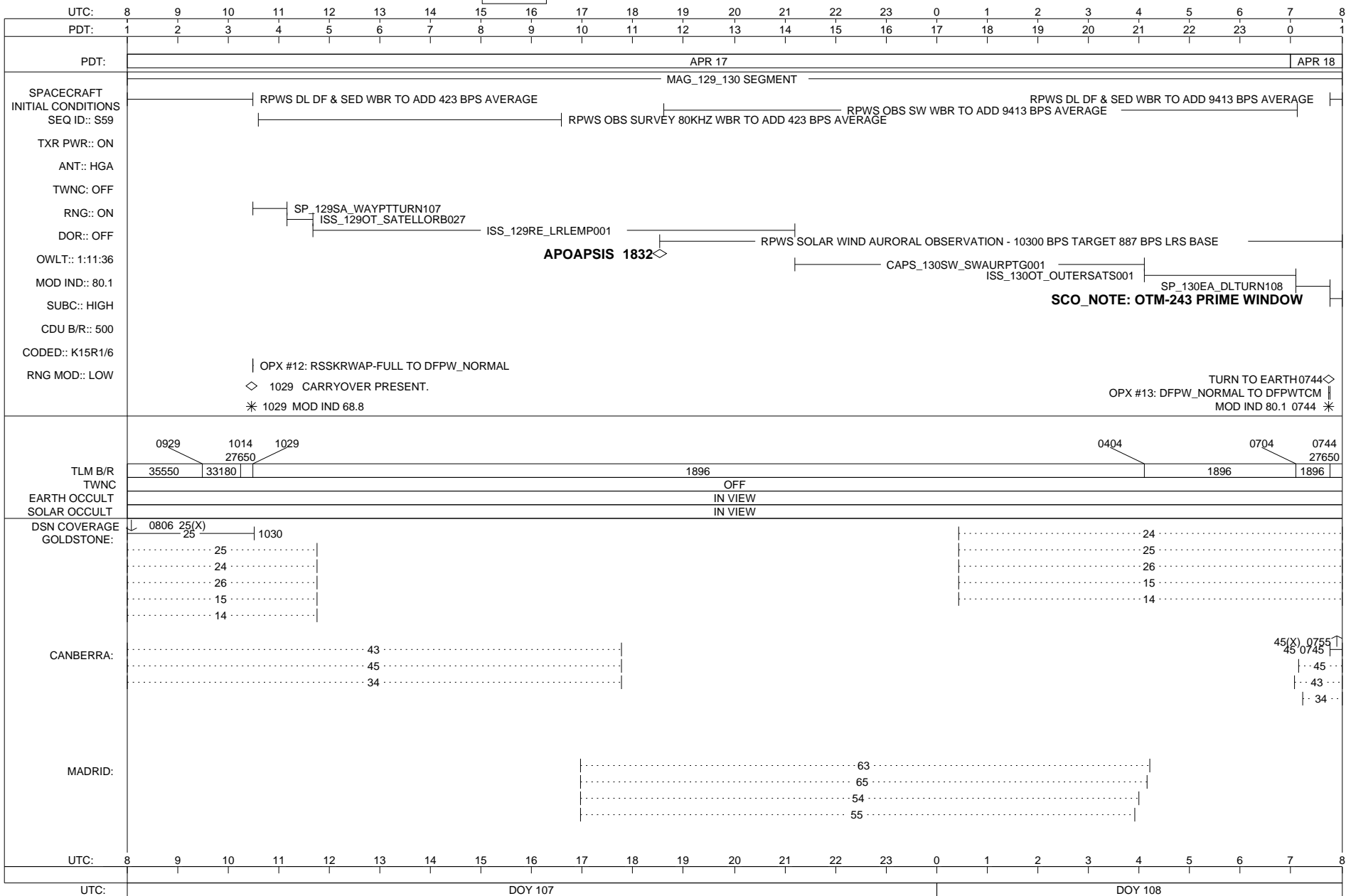
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

SUNDAY 108-109

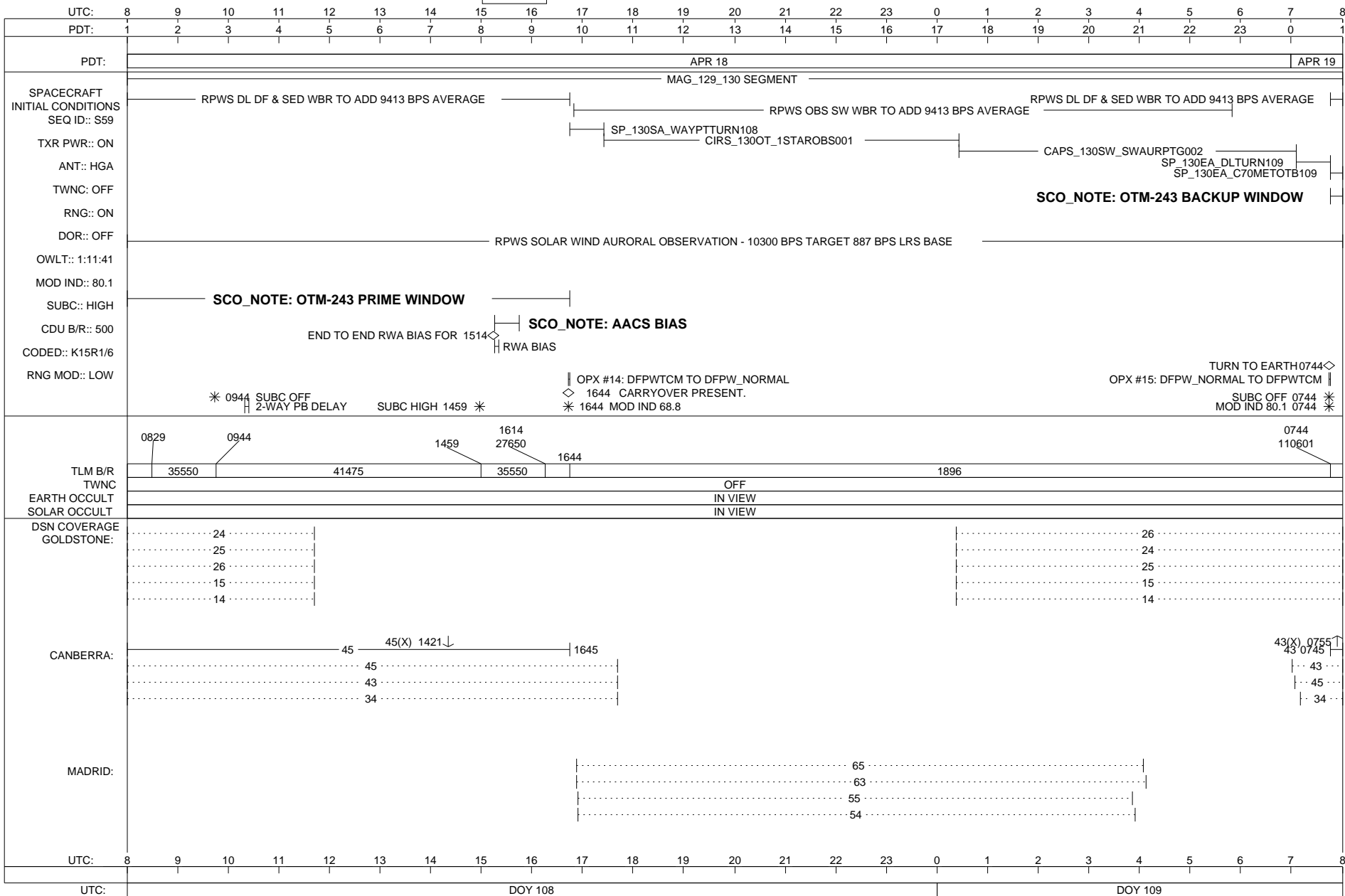
APRIL 18, 2010 - APRIL 19, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

MONDAY 109-110

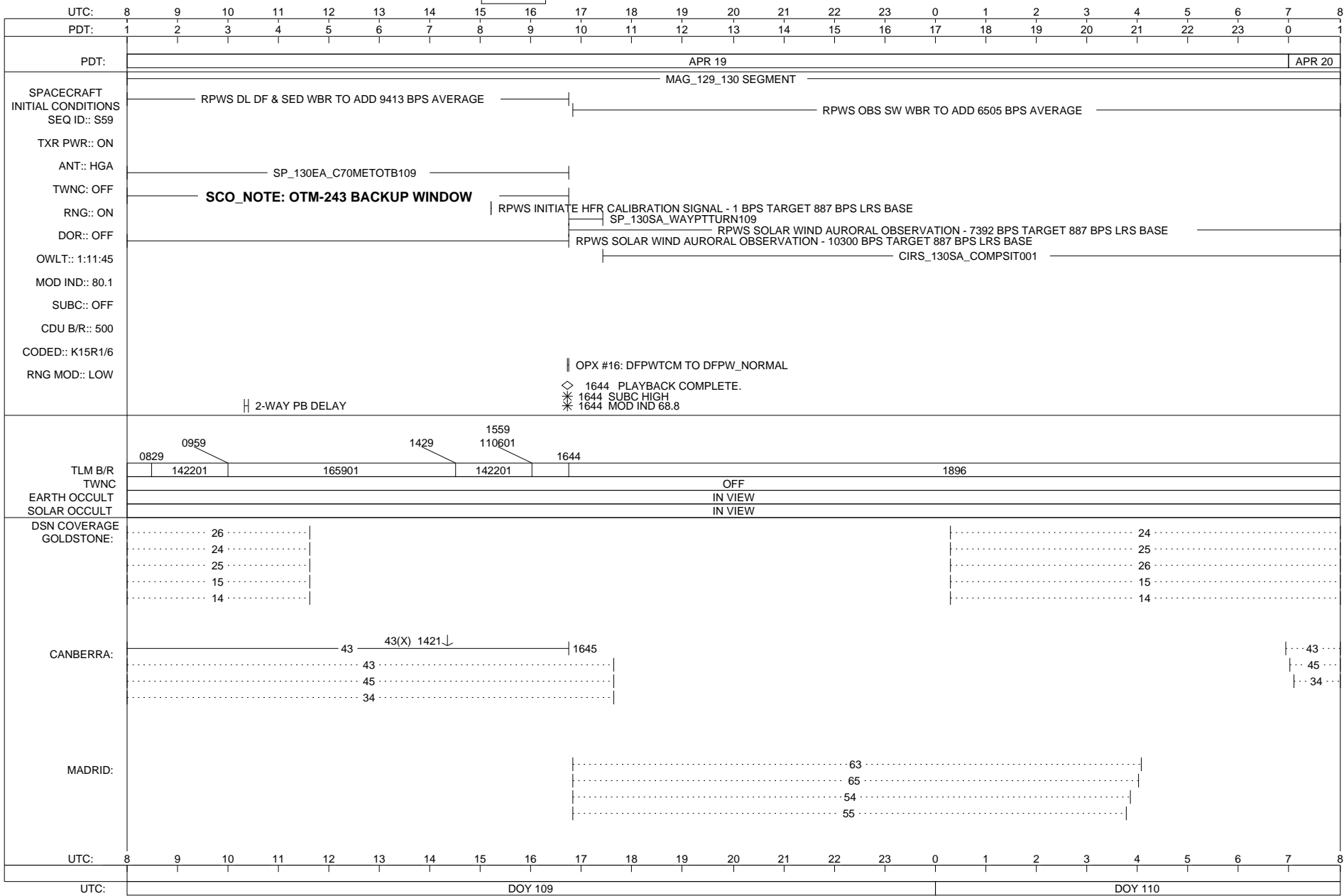
APRIL 19, 2010 - APRIL 20, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

TUESDAY 110-111

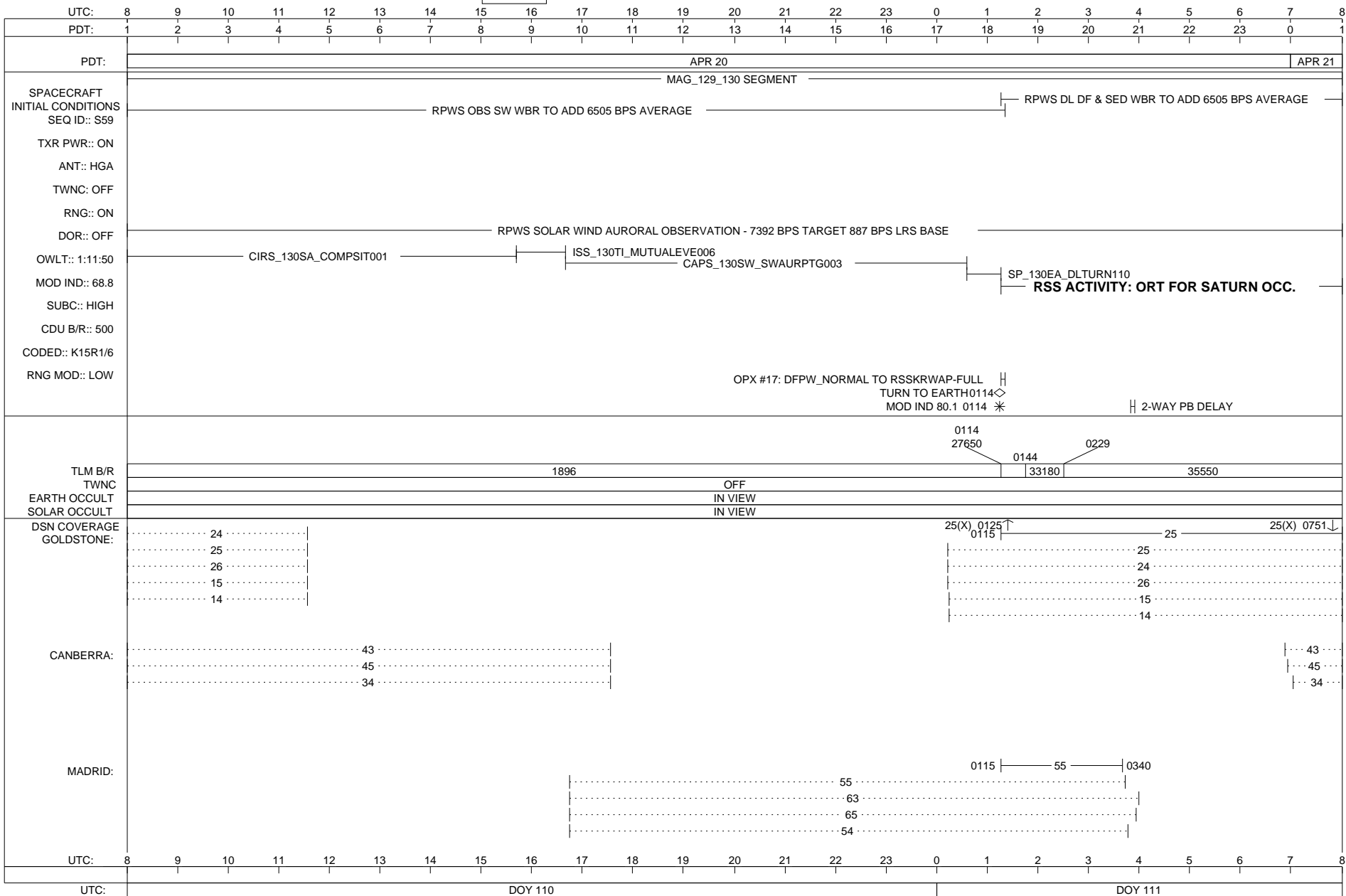
APRIL 20, 2010 - APRIL 21, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

WEDNESDAY 111-112

APRIL 21, 2010 - APRIL 22, 2010

MISSING
IMAGE

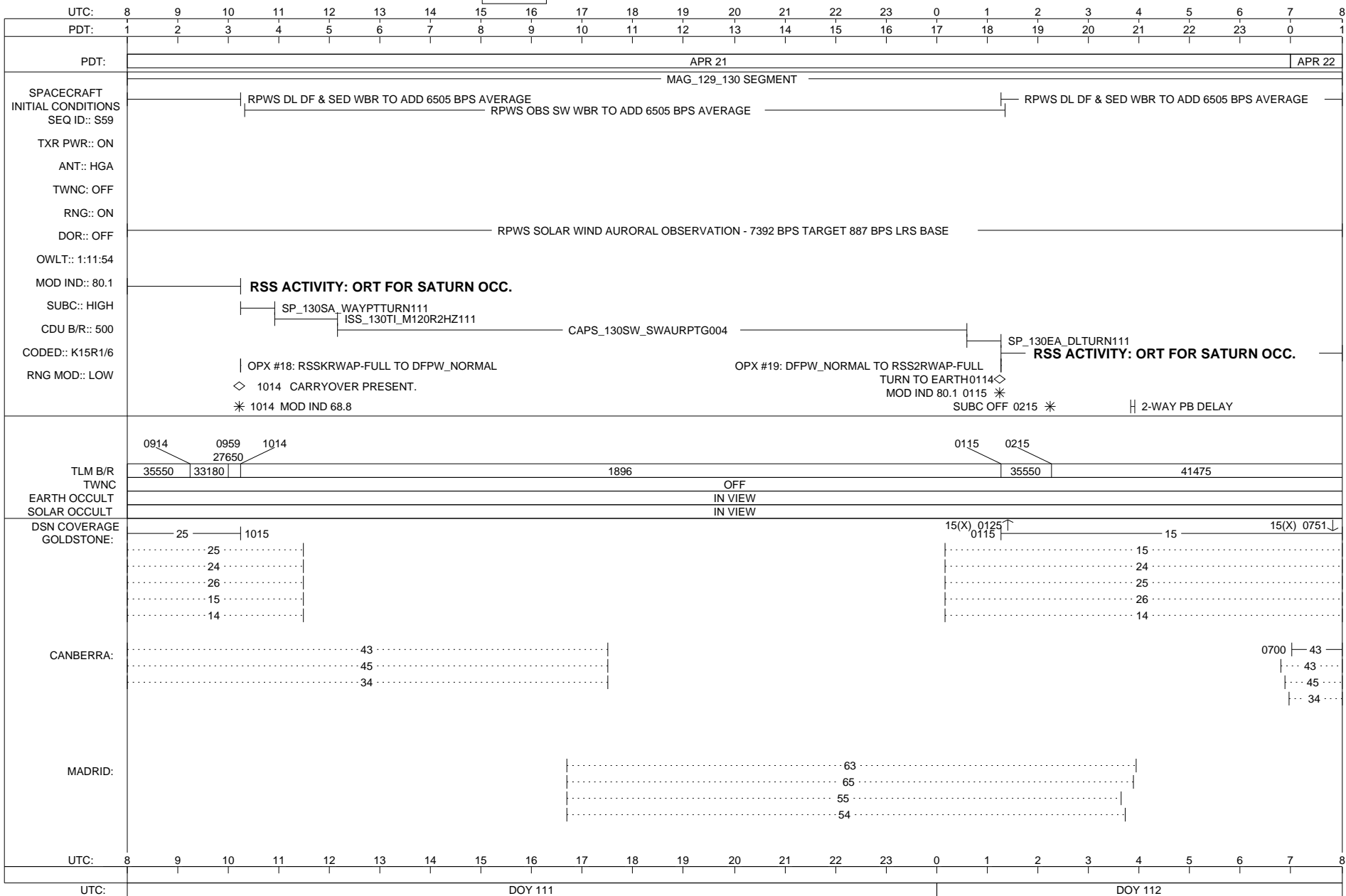
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

THURSDAY 112-113

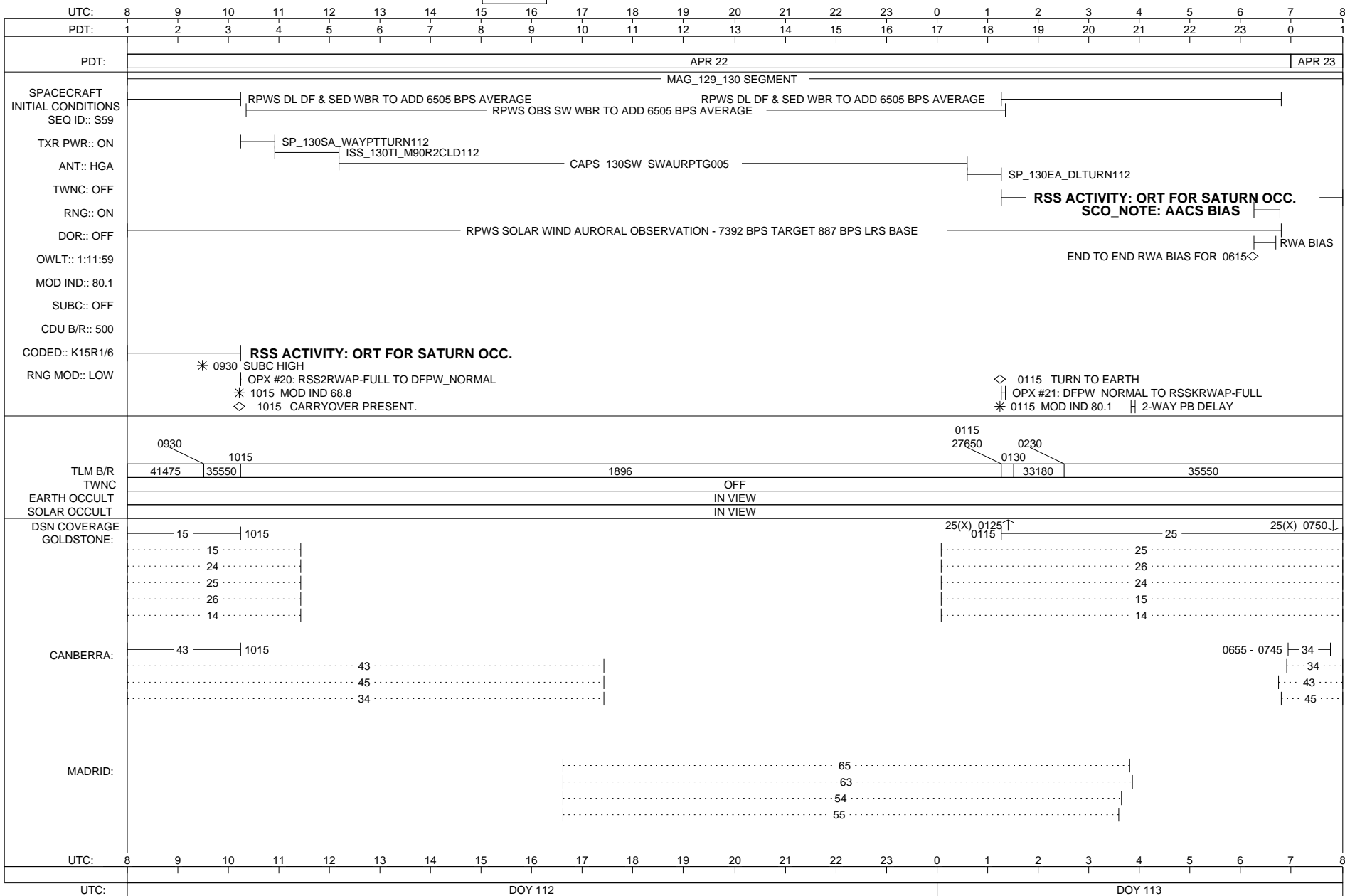
APRIL 22, 2010 - APRIL 23, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

FRIDAY 113-114

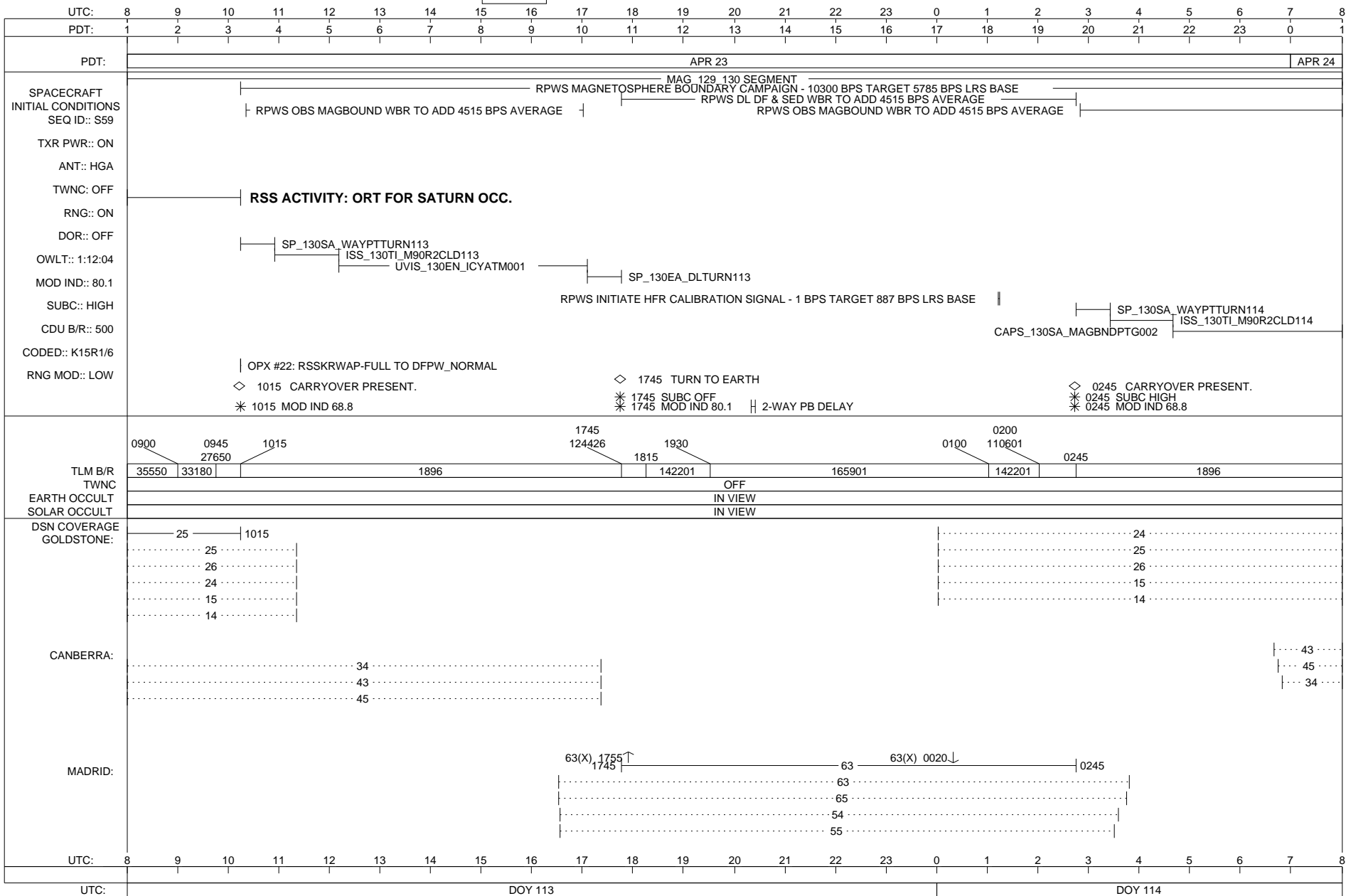
APRIL 23, 2010 - APRIL 24, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

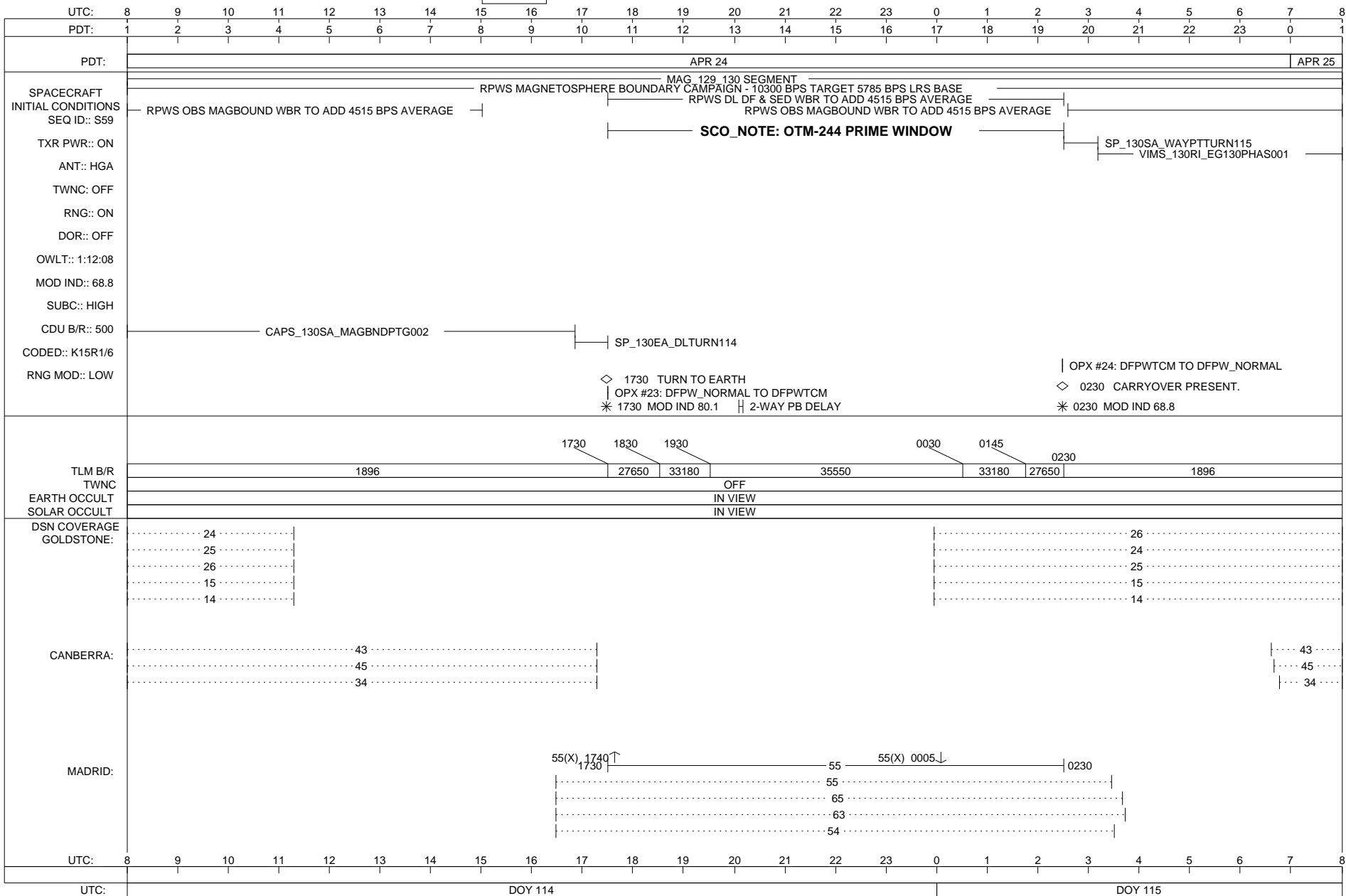
SATURDAY 114-115
 APRIL 24, 2010 - APRIL 25, 2010

MISSING
 IMAGE

CASSINI SFOS

SOE z0590g.soe
 SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
 SEQ z0590g.pef



ISSUE DATE: 03/18/10

SUNDAY 115-116

APRIL 25, 2010 - APRIL 26, 2010

MISSING
IMAGE

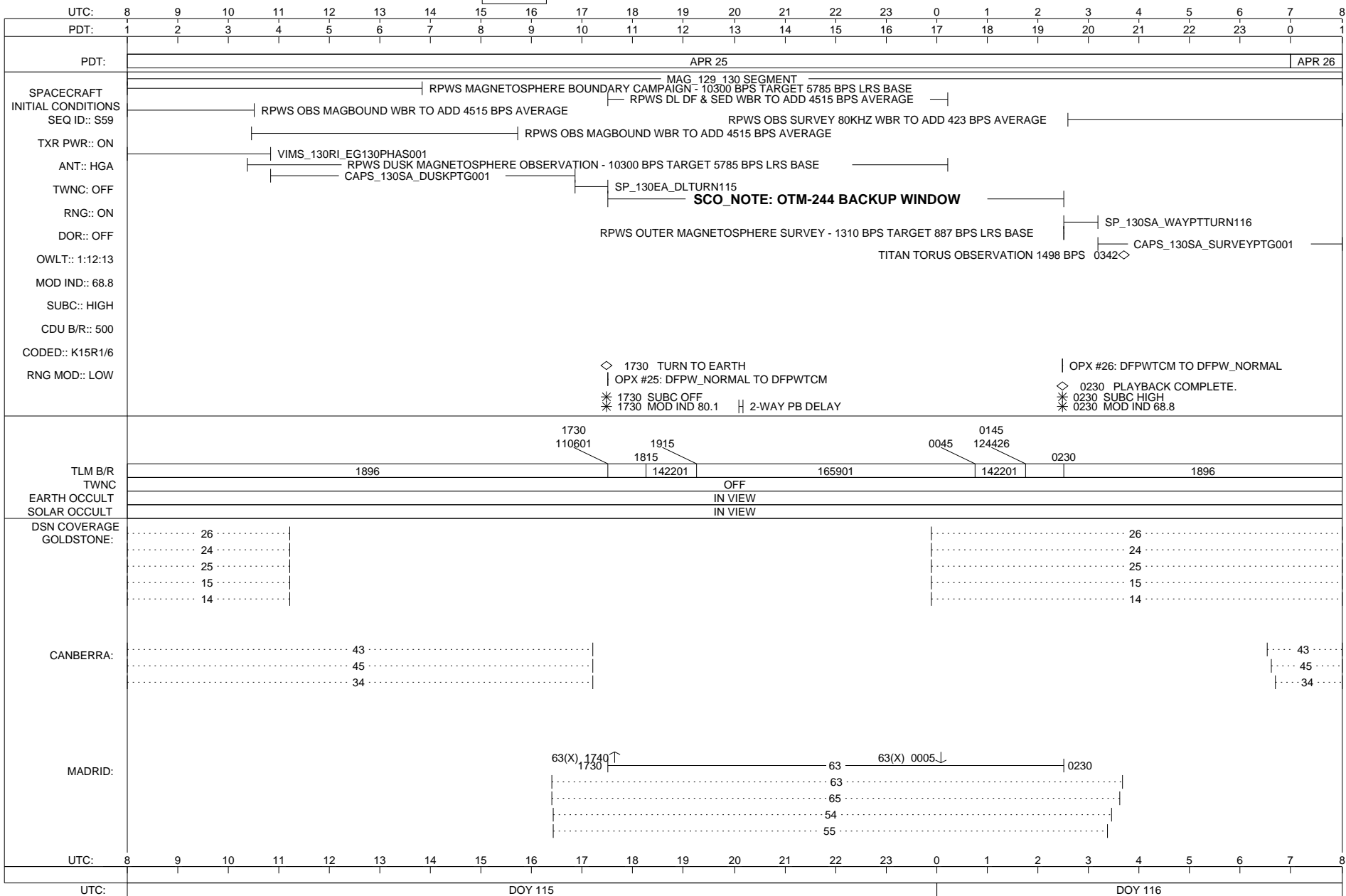
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



MONDAY 116-117

APRIL 26, 2010 - APRIL 27, 2010

MISSING
IMAGE

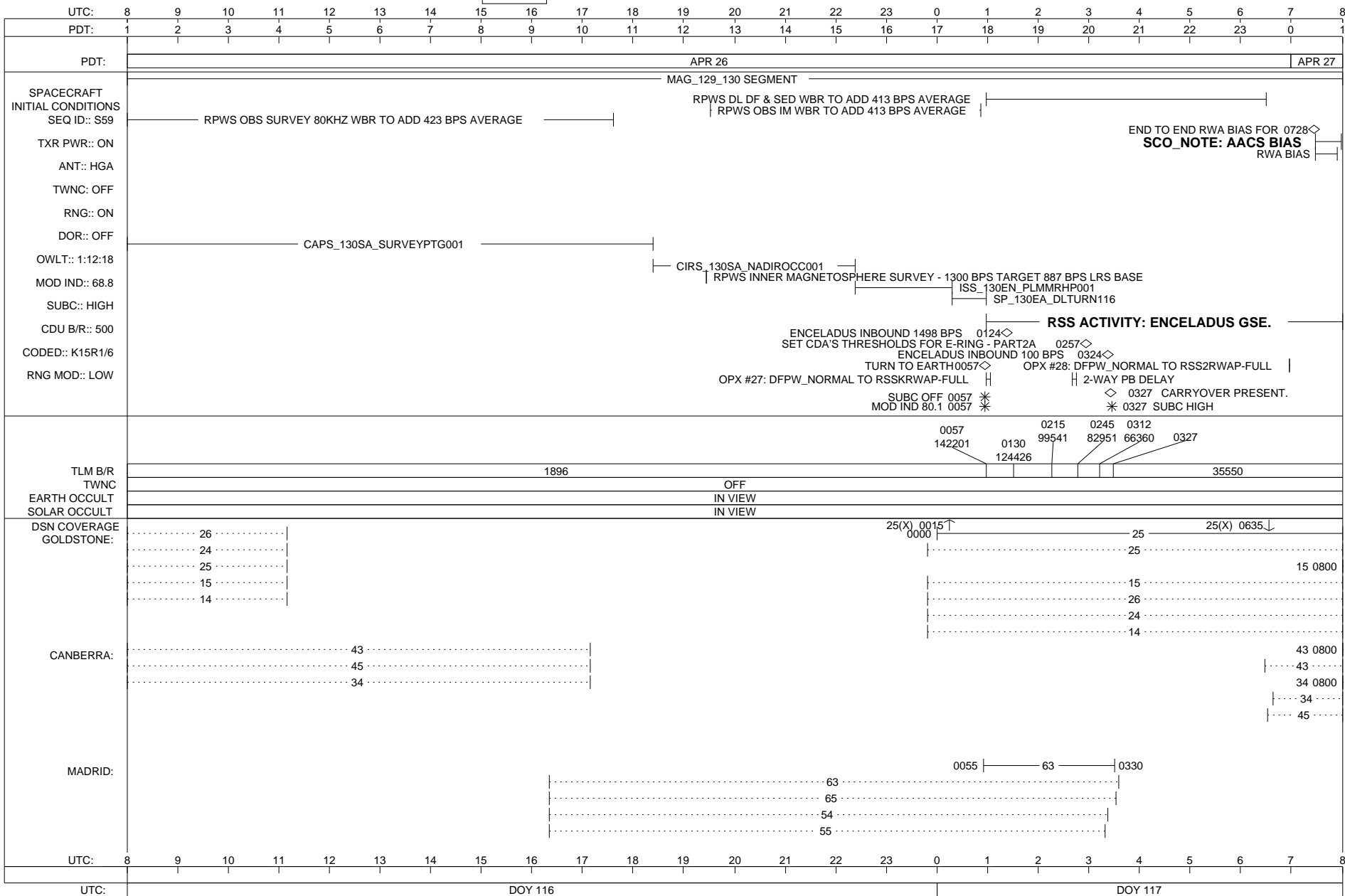
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

TUESDAY 117-118

APRIL 27, 2010 - APRIL 28, 2010

MISSING IMAGE

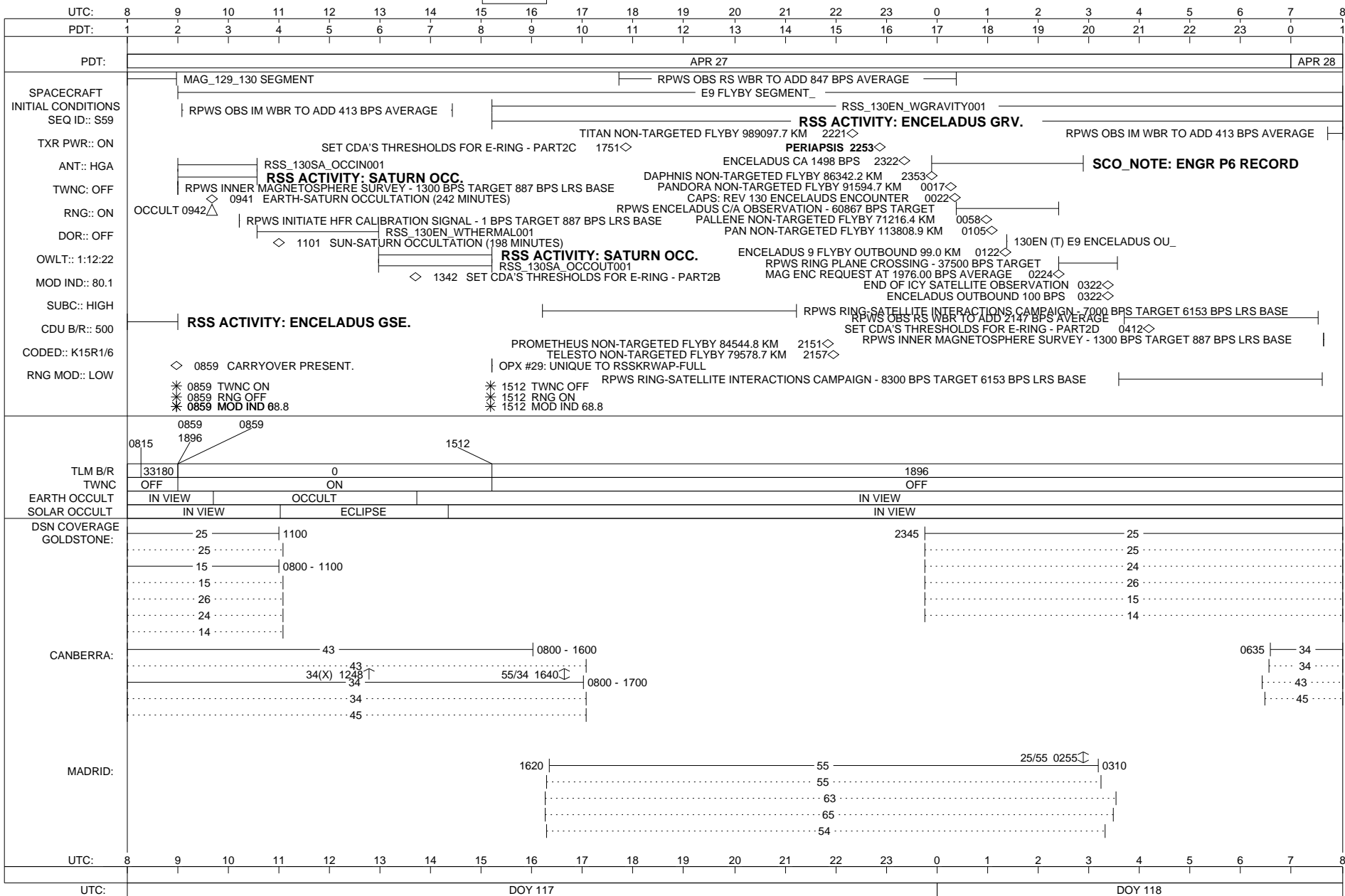
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SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

WEDNESDAY 118-119

APRIL 28, 2010 - APRIL 29, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef

UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
PDT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1

PDT:	APR 28																							APR 29
------	--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--------

SPACECRAFT INITIAL CONDITIONS
 SEQ ID:: S59
 TXR PWR:: ON
 ANT:: HGA
 TWNC: OFF
 RNG:: ON
 DOR:: OFF
 OWLT:: 1:12:25
 MOD IND:: 68.8
 SUBC:: HIGH
 CDU B/R:: 500
 CODED:: K15R1/6
 RNG MOD:: LOW

RSS_130EN_WGRAVITY001
 RSS ACTIVITY: ENCELADUS GRV.
 RPWS OBS IM WBR TO ADD 413 BPS AVERAGE

E9 FLYBY SEGMENT
 RPWS DL DF & SED WBR TO ADD 413 BPS AVERAGE
 RPWS OBS MAGBOUND WBR TO ADD 4515 BPS AVERAGE

SC0_NOTE: ENGR P6 PLAYBACK
 RSS ACTIVITY: ENCELADUS GSE.
 RPWS DL DF & SED WBR TO ADD 4515 BPS AVERAGE

0812 SET CDA'S THRESHOLDS FOR E-RING - PART2
 SET CDA'S THRESHOLDS BACK FOR UPCOMING APO 1852
 END TO END RWA BIAS FOR 2215

SC0_NOTE: AAC S BIAS
 RWA BIAS

RPWS DUSK MAGNETOSPHERE OBSERVATION - 10300 BPS TARGET 5785 BPS LRS BASE

NAV_130SK_OPNAV191
 NAV_130EA_WAYPTTURN191
 SP_130EA_DLTURN119

SCO_NOTE: OTM-245 PRIME WINDOW

OPX #30: RSSKRWAP-FULL TO DFPW_NORMAL
 SUBC OFF 1715 *
 MOD IND 80.1 1715 *

2-WAY PB DELAY

PLAYBACK COMPLETE. 0215
 SUBC HIGH 0215 *
 MOD IND 68.8 0215 *

TURN TO EARTH 0659
 OPX #31: DFPW_NORMAL TO DFPWTCM
 MOD IND 80.1 0659 *

TLM B/R	1896	1715 110601	1800	1915 142201	165901	0030	0145 124426	0215	0329	1896	1896	0659	0745 33180	27650
TWNC	OFF													
EARTH OCCULT	IN VIEW													
SOLAR OCCULT	IN VIEW													

DSN COVERAGE GOLDSTONE:

34/25 1030	1100	26
25		24
24		25
26		15
15		14
14		

CANBERRA:

34	1655	34(X) 0705
34		0659
43		34
45		43
		45

MADRID:

1715	63	0215
34/55 1636	55	55(X) 2350
1615		0215
	55	
	65	
	54	

UTC:	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
UTC:	DOY 118													DOY 119											

ISSUE DATE: 03/18/10

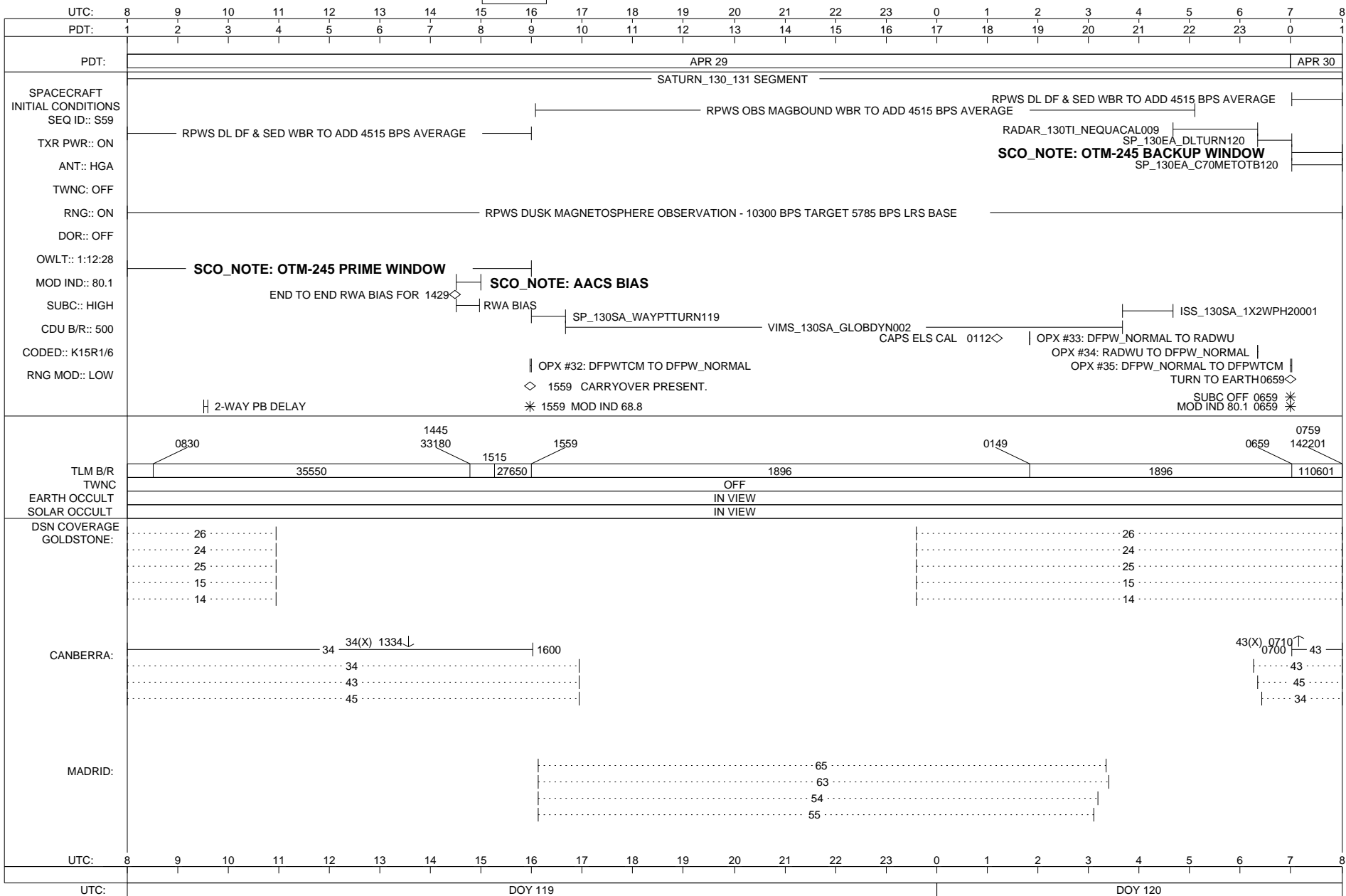
THURSDAY 119-120
 APRIL 29, 2010 - APRIL 30, 2010

MISSING
 IMAGE

CASSINI SFOS

SOE z0590g.soe
 SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
 SEQ z0590g.pef



ISSUE DATE: 03/18/10

FRIDAY 120-121

APRIL 30, 2010 - MAY 1, 2010

MISSING
IMAGE

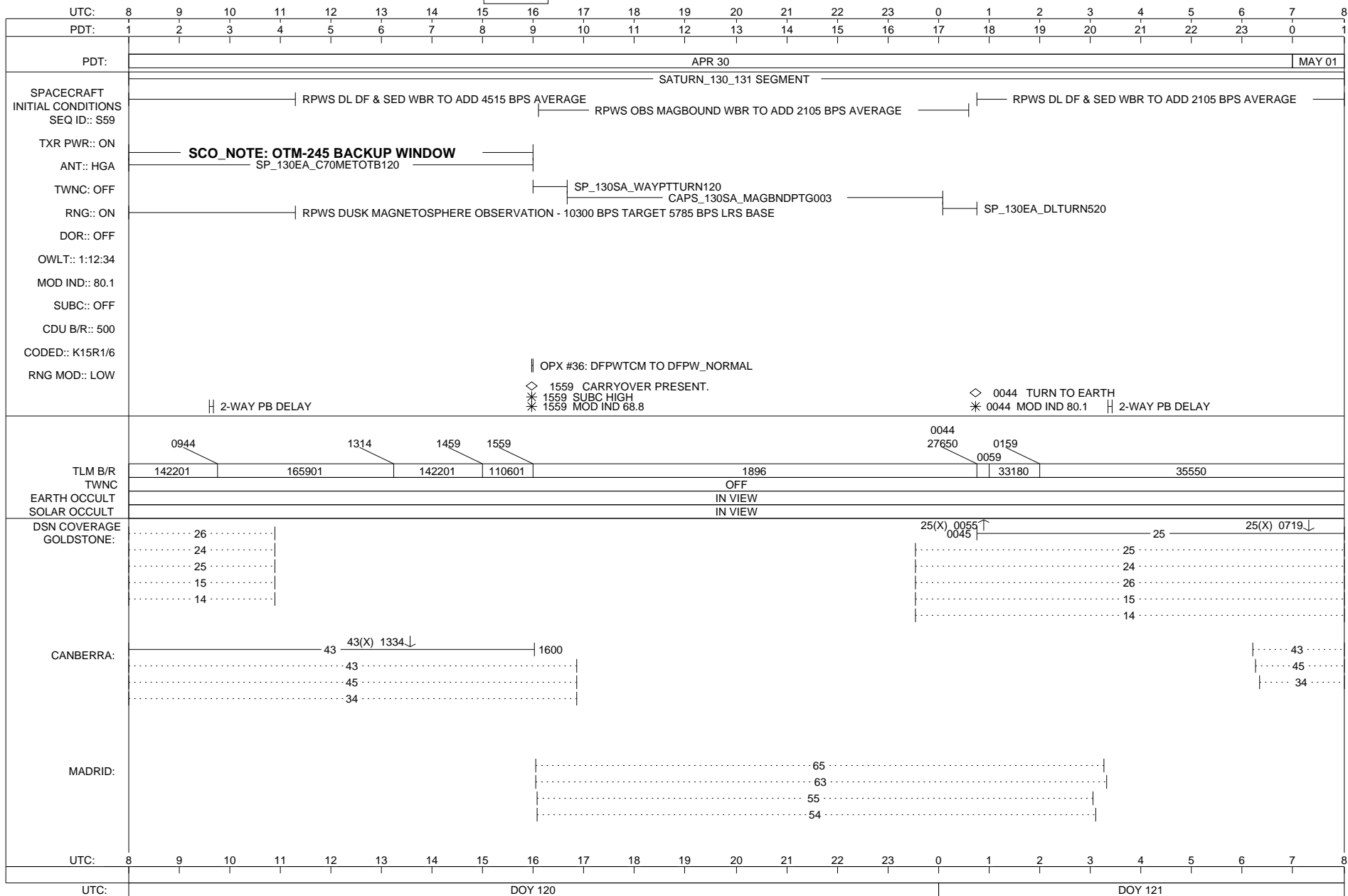
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

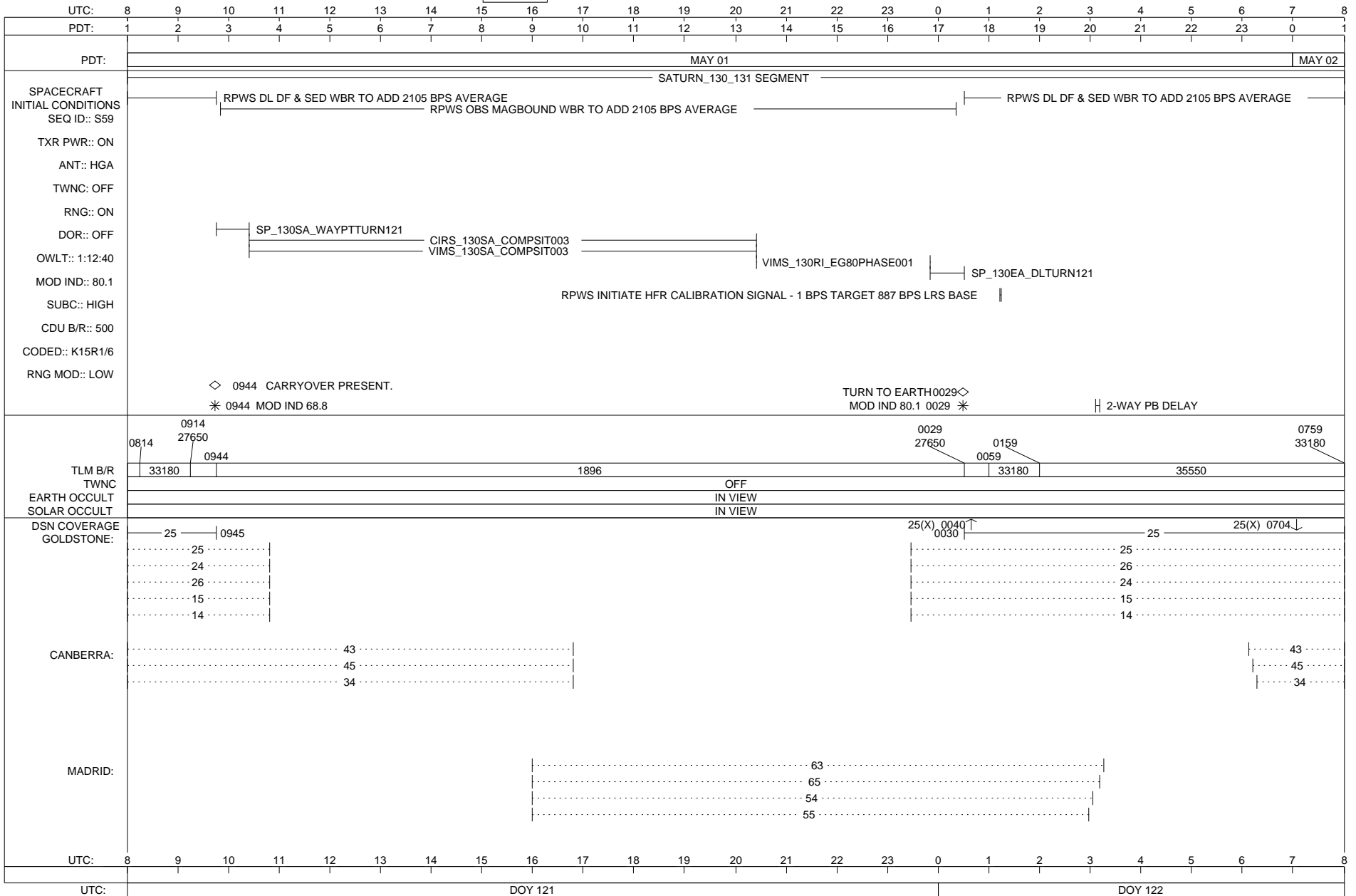
SATURDAY 121-122
MAY 1, 2010 - MAY 2, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

SUNDAY 122-123

MAY 2, 2010 - MAY 3, 2010

MISSING
IMAGE

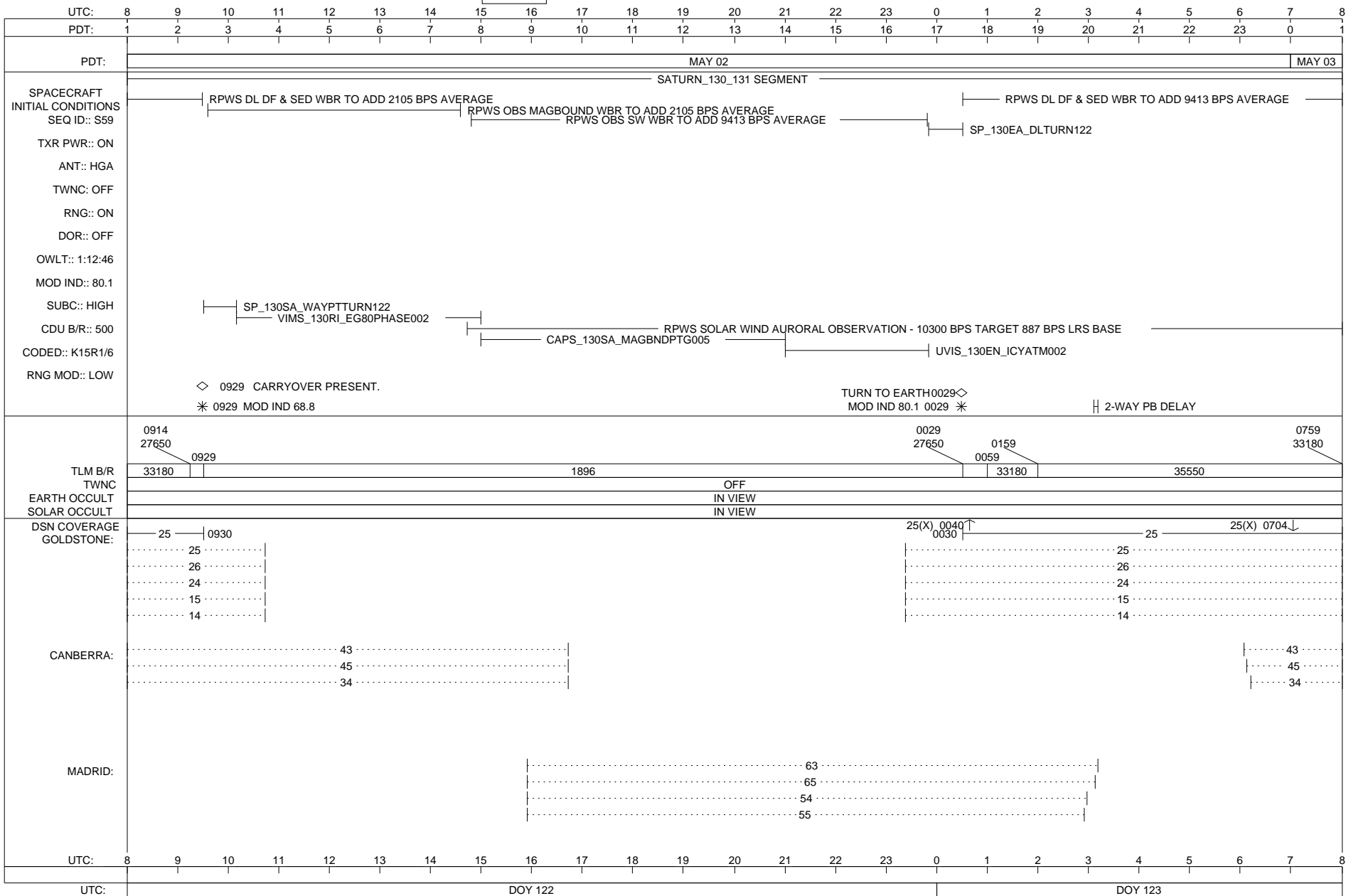
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

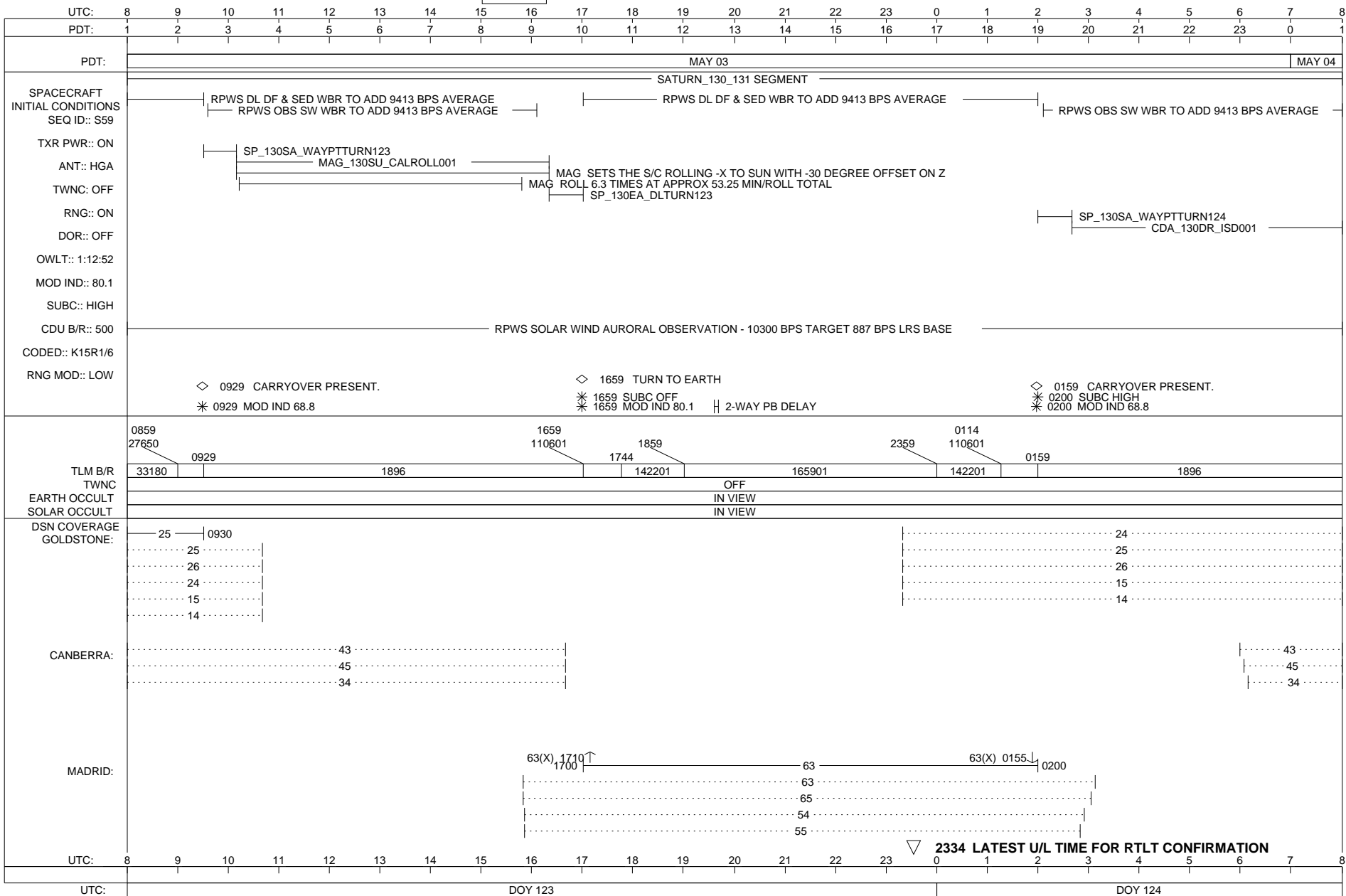
MONDAY 123-124
MAY 3, 2010 - MAY 4, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



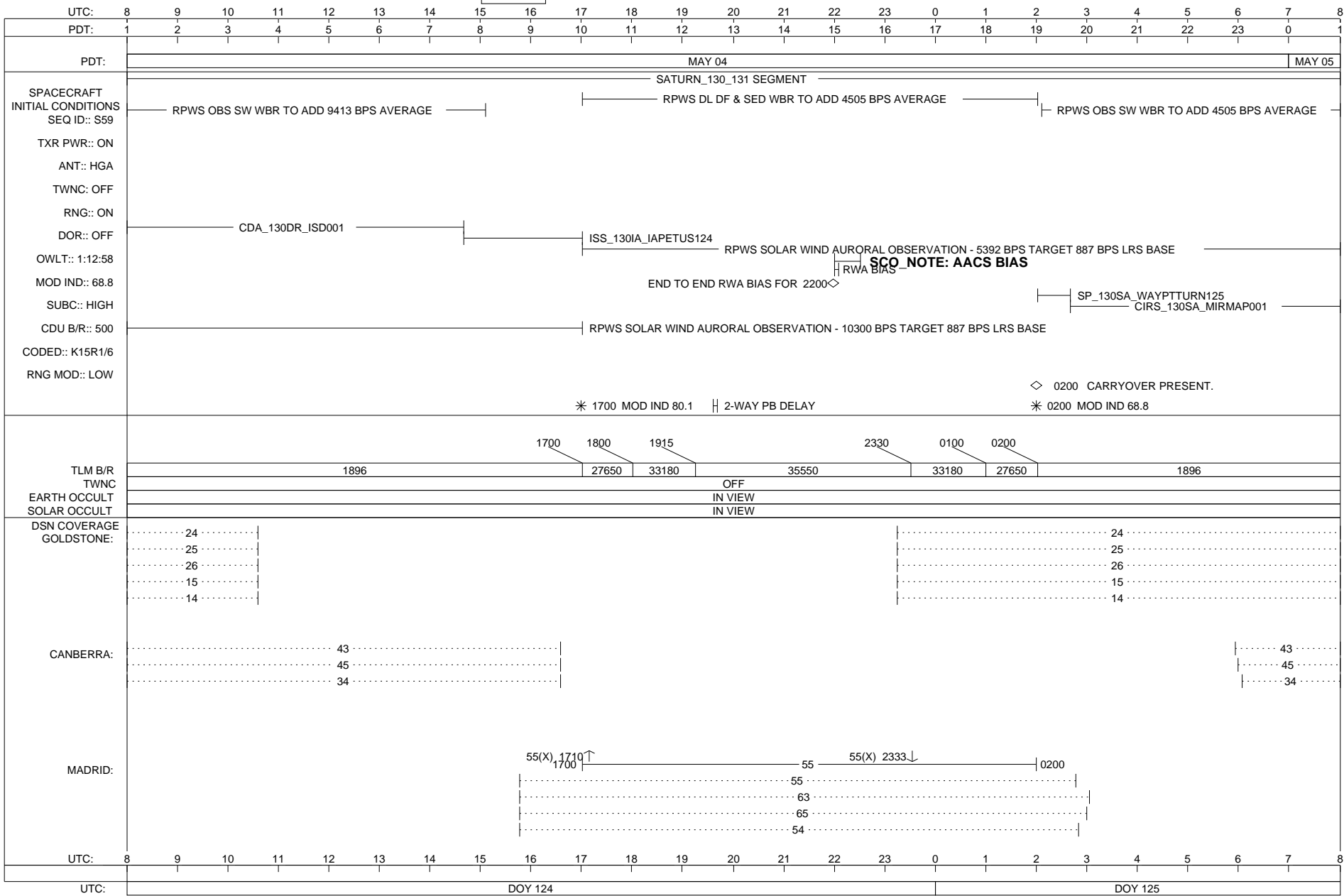
TUESDAY 124-125
MAY 4, 2010 - MAY 5, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

WEDNESDAY 125-126

MAY 5, 2010 - MAY 6, 2010

MISSING
IMAGE

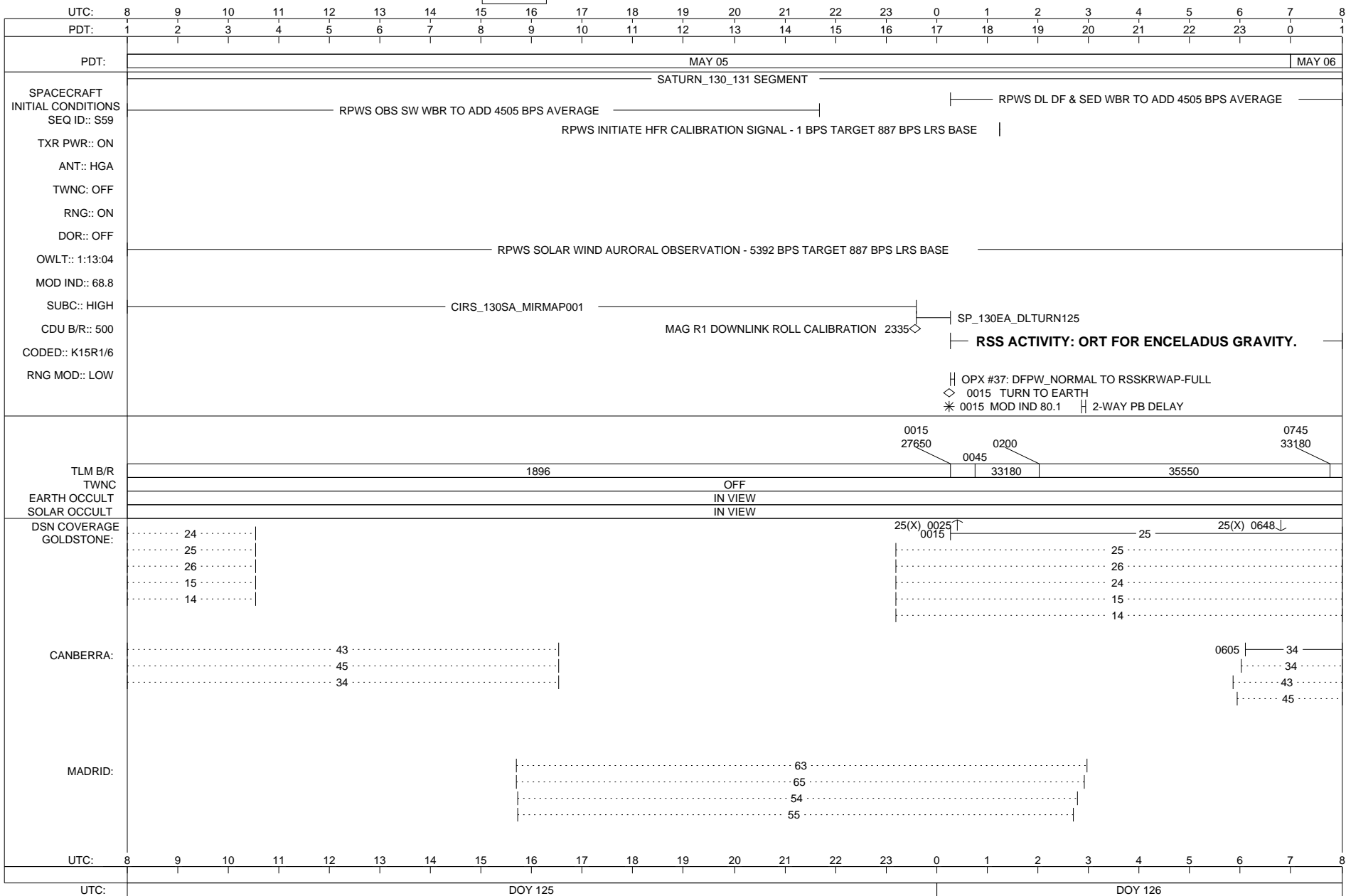
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

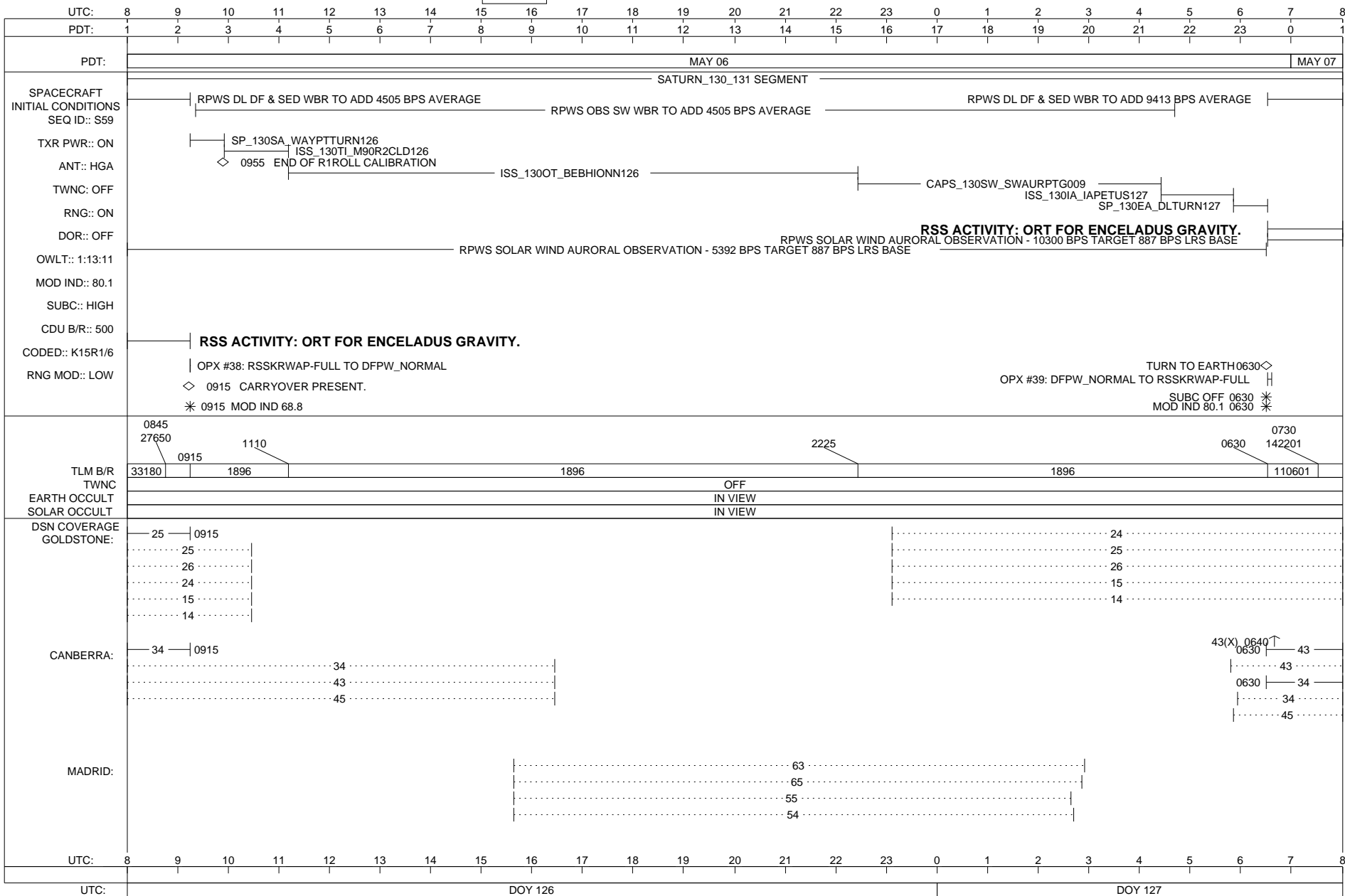
THURSDAY 126-127
MAY 6, 2010 - MAY 7, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

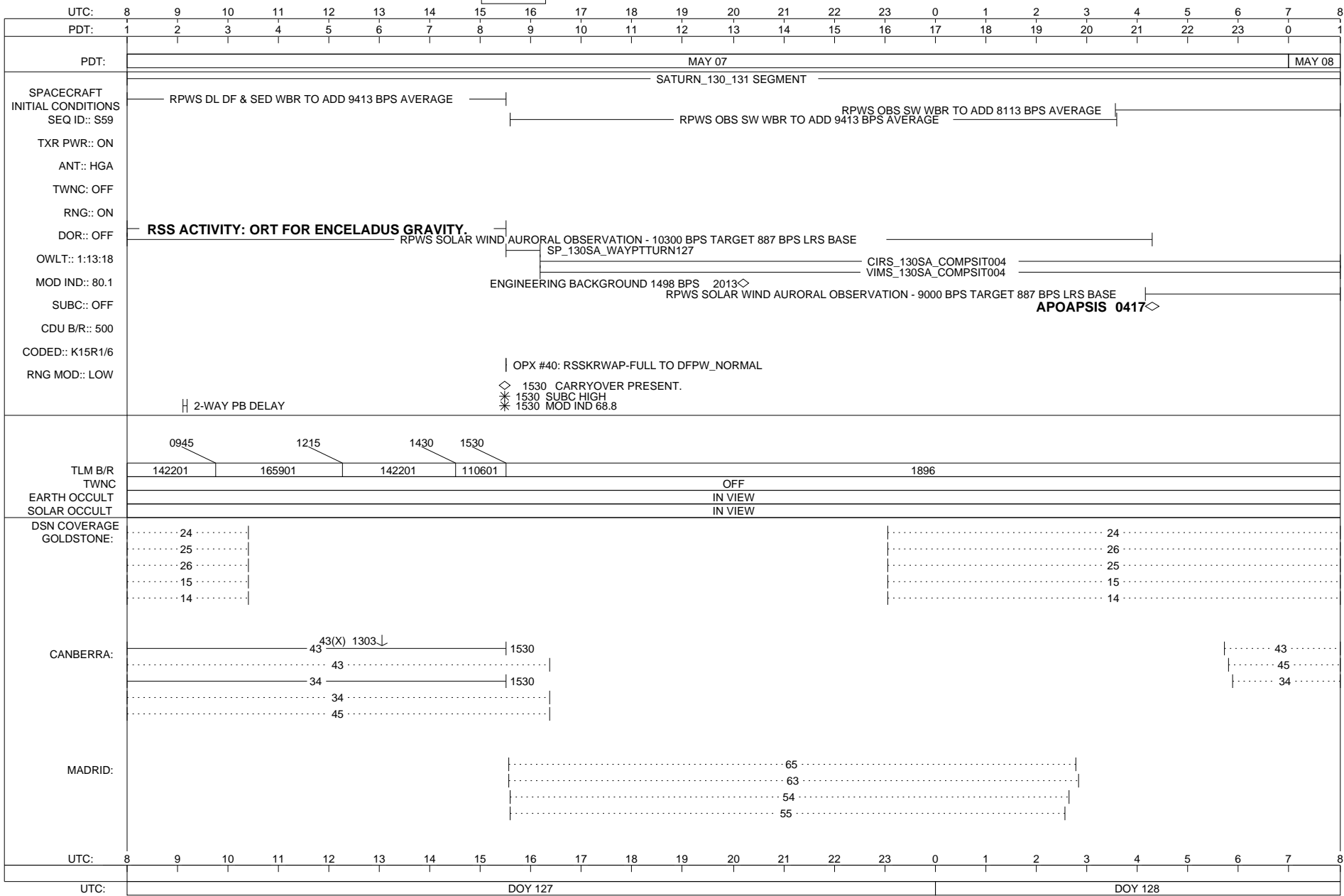
FRIDAY 127-128
MAY 7, 2010 - MAY 8, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

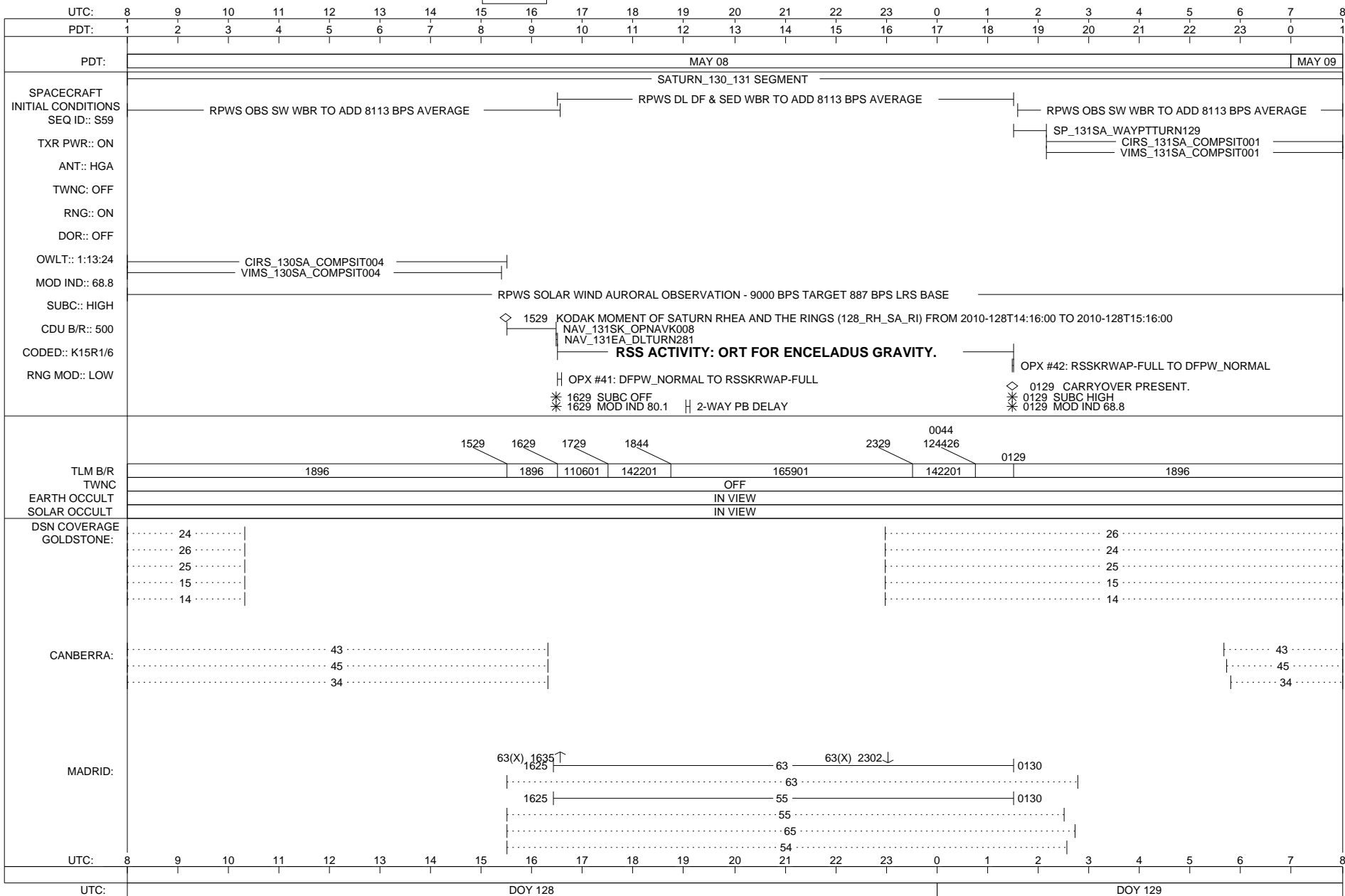
SATURDAY 128-129
MAY 8, 2010 - MAY 9, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

SUNDAY 129-130

MAY 9, 2010 - MAY 10, 2010

MISSING
IMAGE

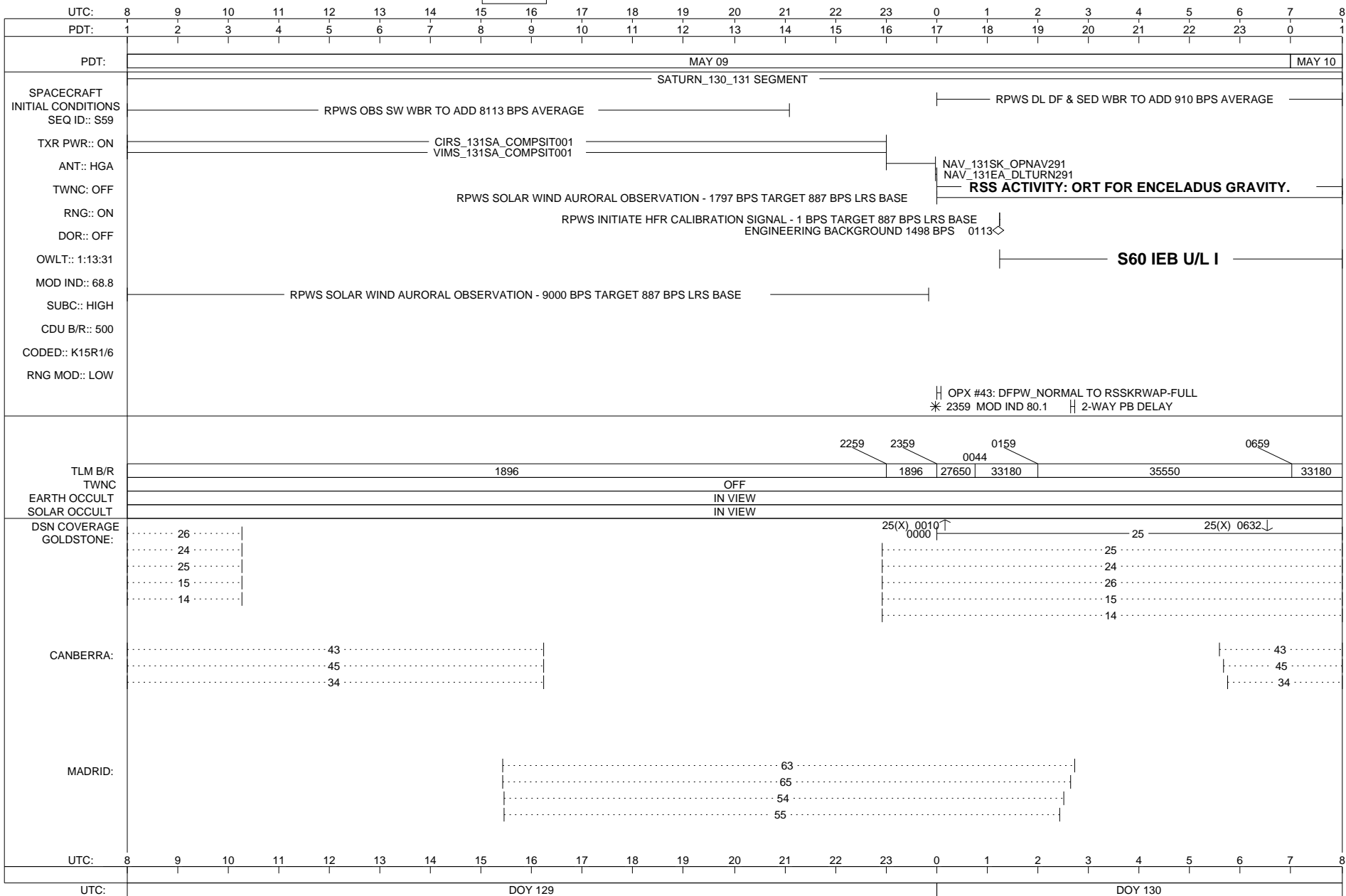
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

MONDAY 130-131

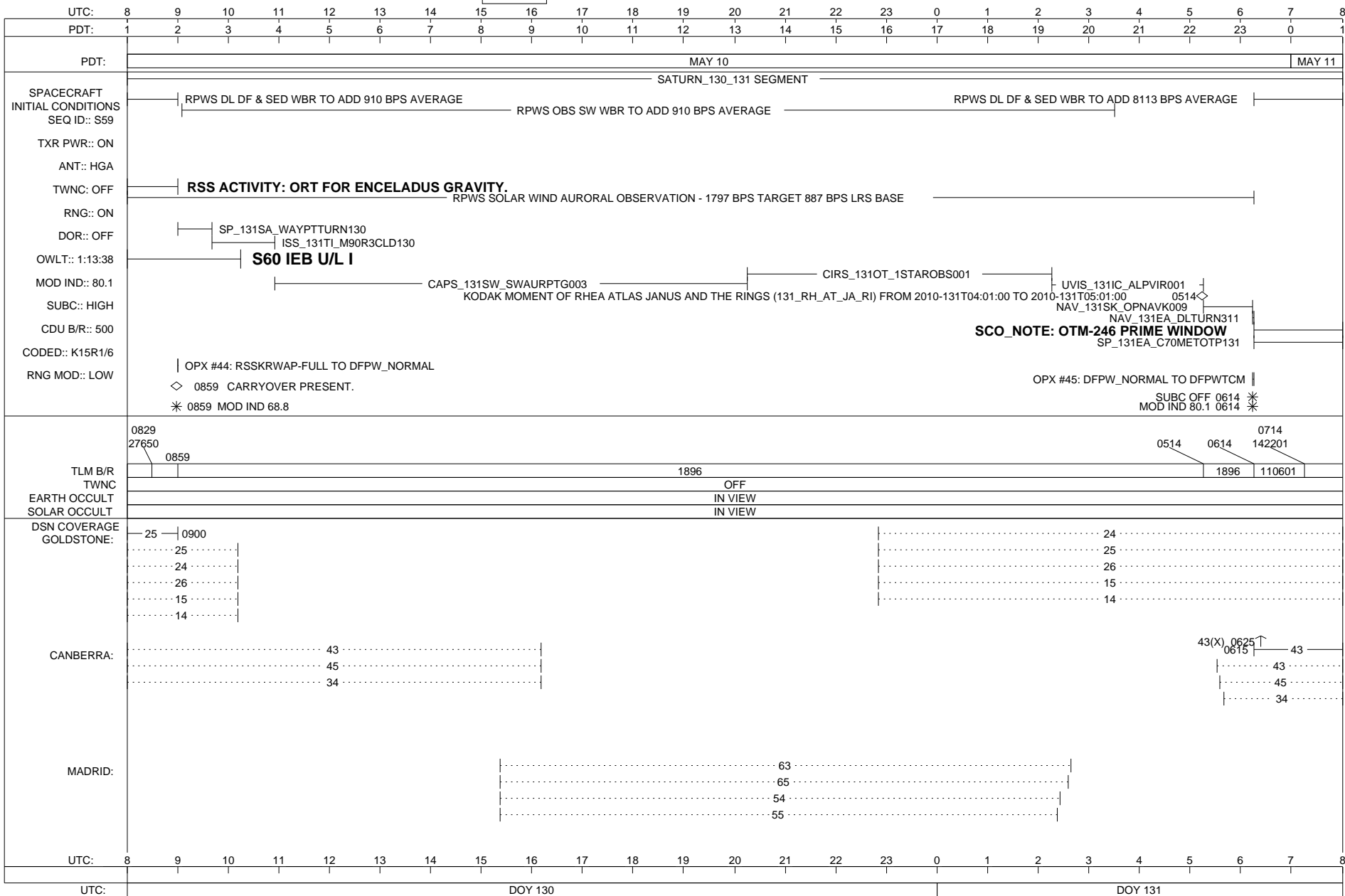
MAY 10, 2010 - MAY 11, 2010

MISSING IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

TUESDAY 131-132

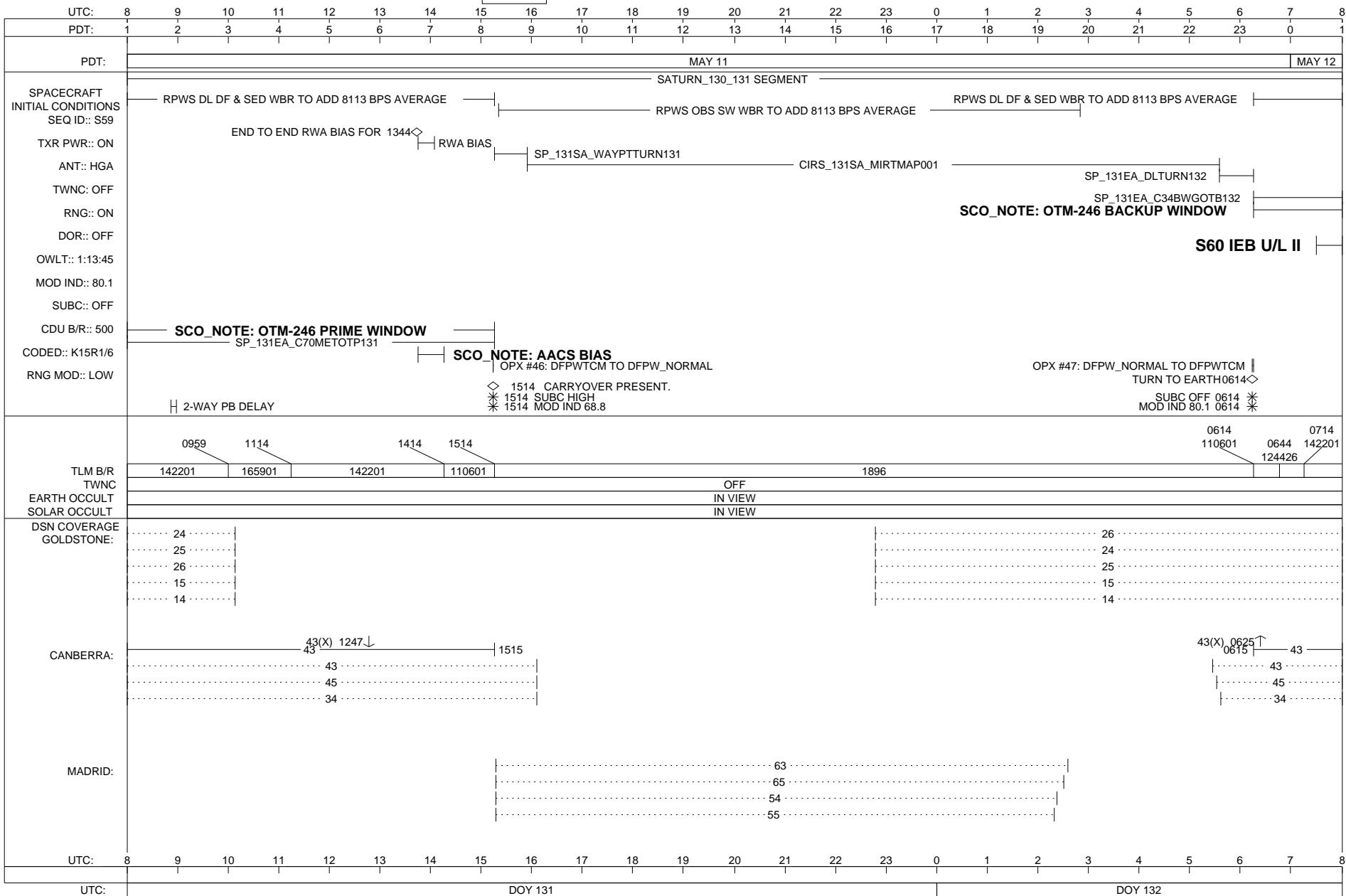
MAY 11, 2010 - MAY 12, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

WEDNESDAY 132-133

MAY 12, 2010 - MAY 13, 2010

MISSING
IMAGE

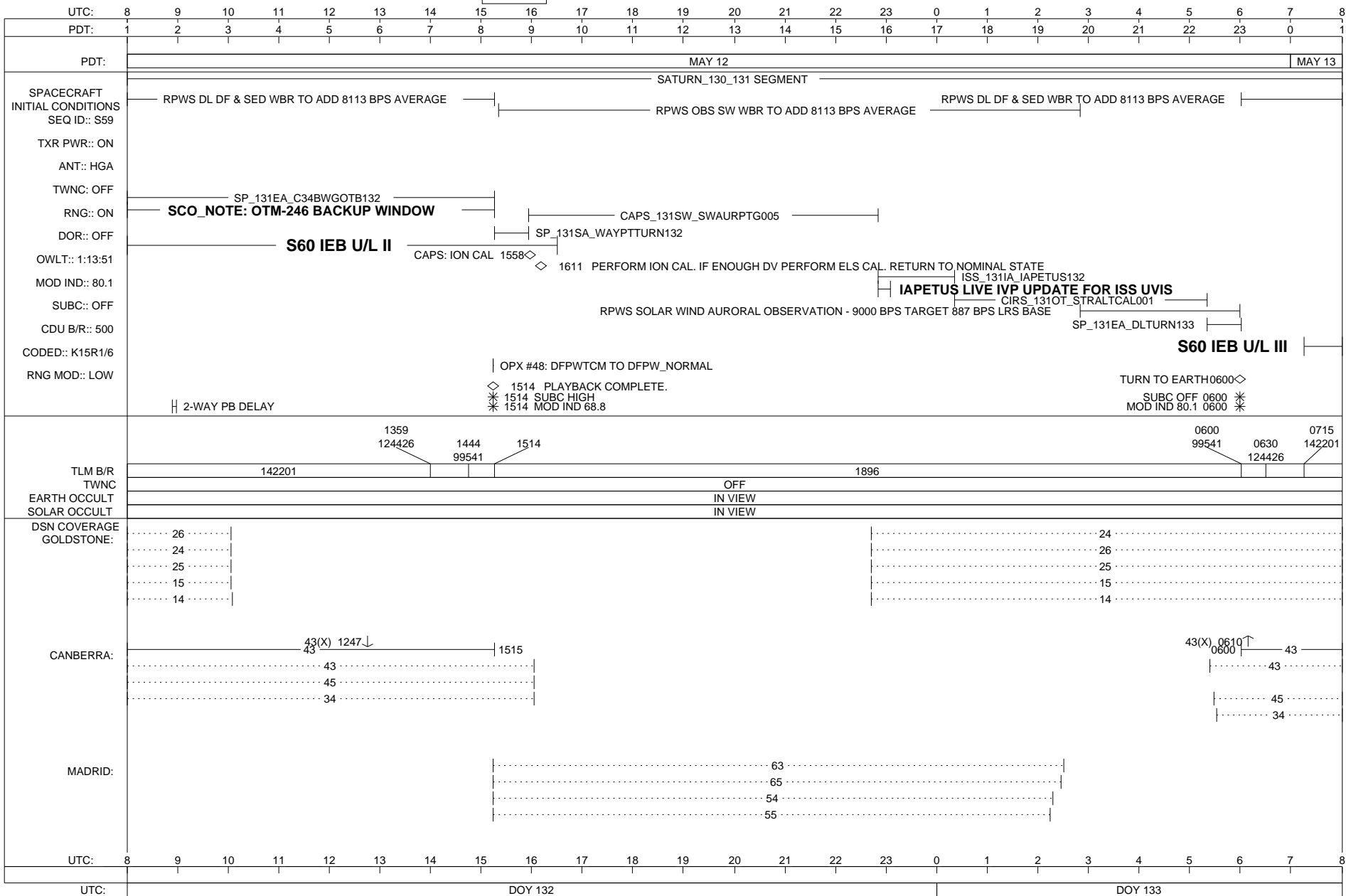
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

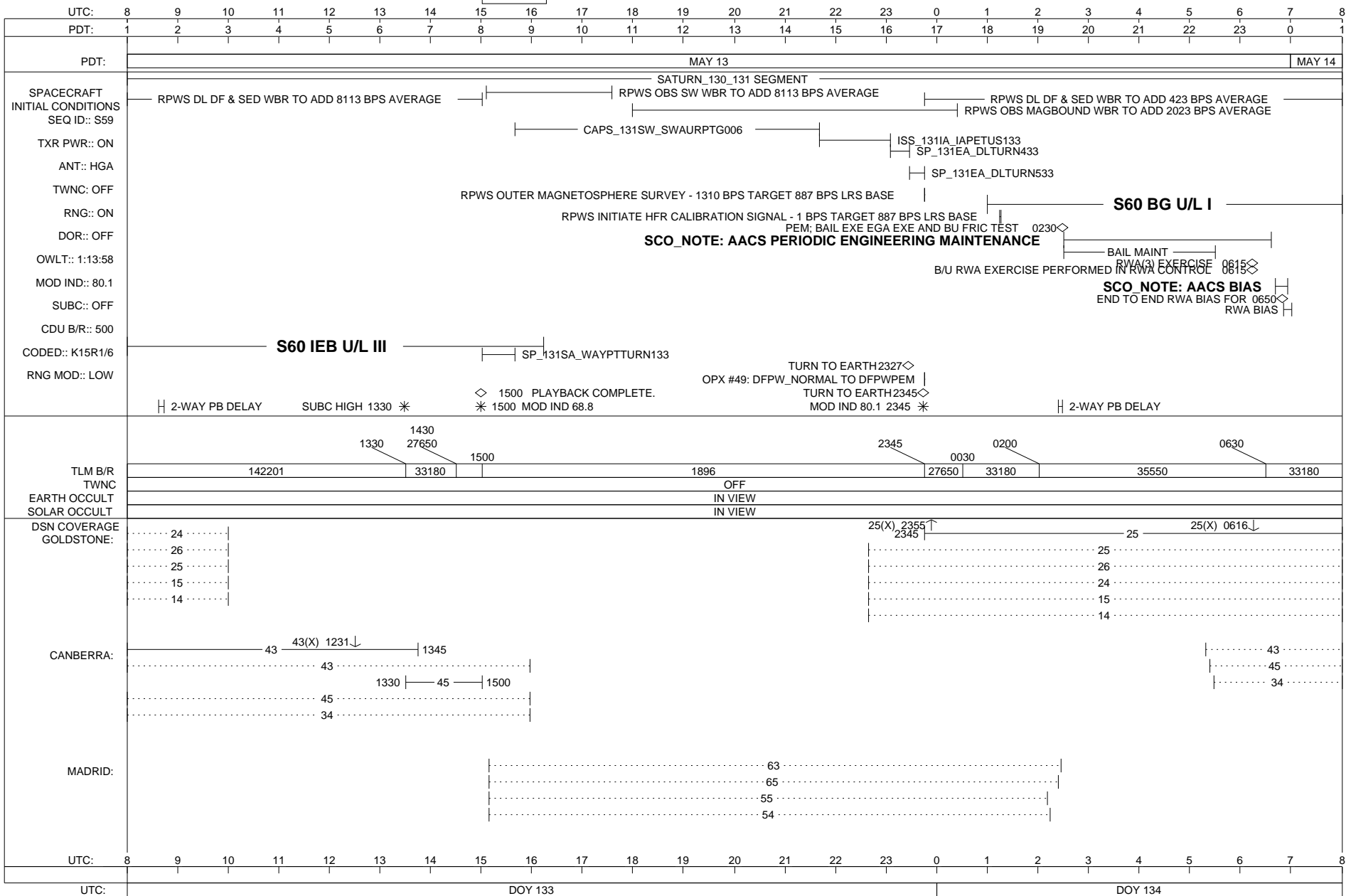
THURSDAY 133-134
MAY 13, 2010 - MAY 14, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

FRIDAY

134-135

MAY 14, 2010 - MAY 15, 2010

MISSING
IMAGE

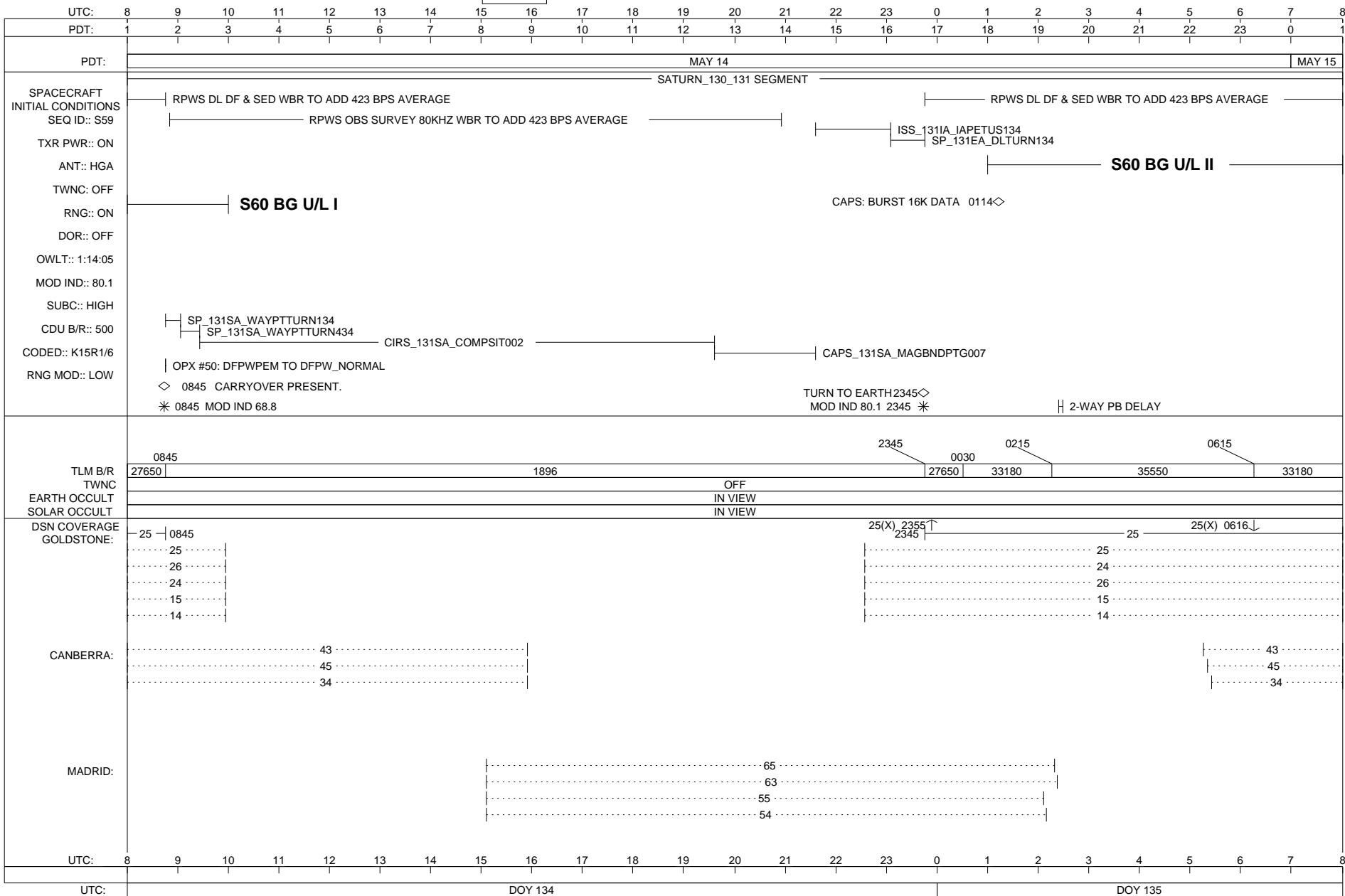
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

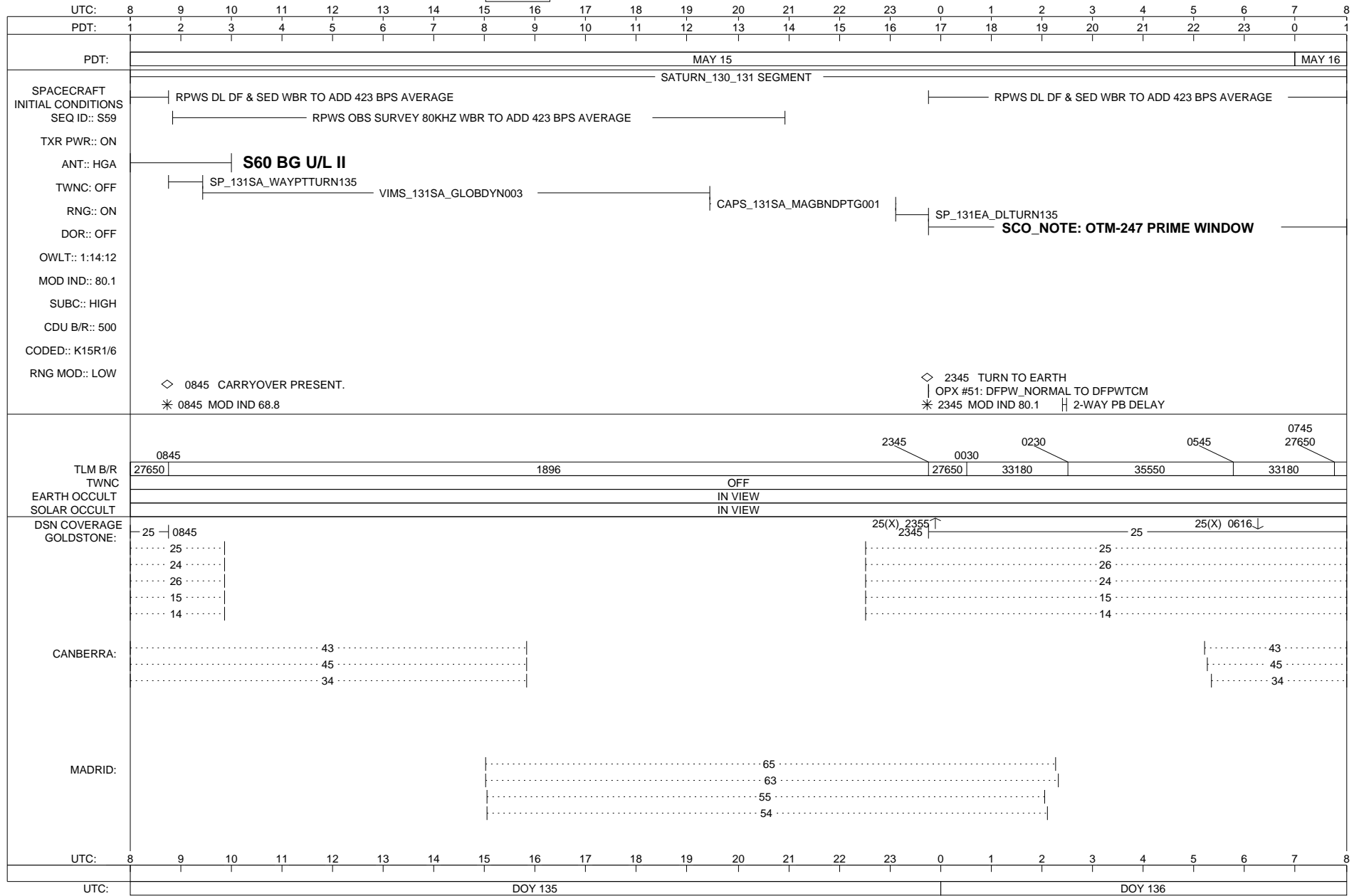
SATURDAY 135-136
MAY 15, 2010 - MAY 16, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe
SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc
SEQ z0590g.pef



ISSUE DATE: 03/18/10

SUNDAY 136-137

MAY 16, 2010 - MAY 17, 2010

MISSING
IMAGE

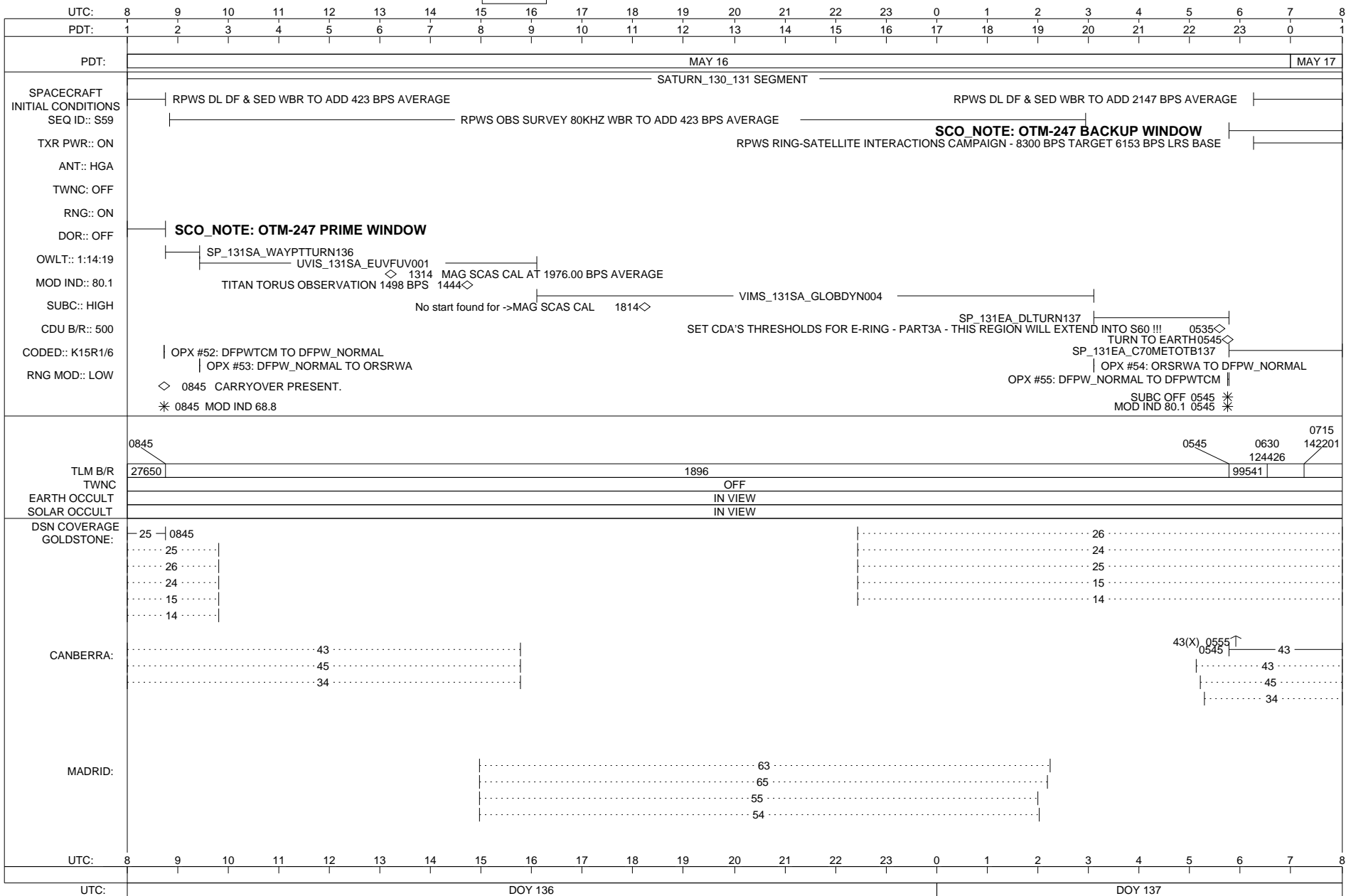
CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef



ISSUE DATE: 03/18/10

MONDAY 137-139

MAY 17, 2010 - MAY 19, 2010

MISSING
IMAGE

CASSINI SFOS

SOE z0590g.soe

SFOS z0590g.sfos

CAS_10096_10137_S59r2.allc

SEQ z0590g.pef

UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8

PDT: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8

PDT: MAY 17 MAY 18 5/19

SPACECRAFT INITIAL CONDITIONS
 SEQ ID:: S59
 TXR PWR:: ON
 ANT:: HGA
 TWNC: OFF
 RNG:: ON
 DOR:: OFF
 OWLT:: 1:14:25
 MOD IND:: 80.1
 SUBC:: OFF
 CDU B/R:: 500
 CODED:: K15R1/6
 RNG MOD:: LOW

SATURN_130_131 SEGMENT
 RPWS DL DF & SED WBR TO ADD 2147 BPS AVERAGE
SCO NOTE: OTM-247 BACKUP WINDOW
 RPWS RING-SATELLITE INTERACTIONS CAMPAIGN - 8300 BPS TARGET 6153 BPS LRS BASE
SCO NOTE: AACS BIAS RTC WINDOW
◇ 1445 START S60 SEQUENCE
 SP_131EA_C70METOTB137
◇ 1445 PLAYBACK COMPLETE.
 2-WAY PB DELAY | OPX #56: DFPWTCM TO DFPW_NORMAL

TLM B/R TWNC
 EARTH OCCULT
 SOLAR OCCULT

1315
 124426
 1400
 142201
 99541
 OFF
 IN VIEW
 IN VIEW

DSN COVERAGE GOLDSTONE:
 ..26 ..|26|
 ..24 ..|24|
 ..25 ..|25|
 ..15 ..|15|
 ..14 ..|14|

CANBERRA:
43|
43(X) 1440|
1445|
43|
45|
34|

MADRID:
63|
65|
55|
54|

UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8

UTC: DOY 137 DOY 138 DOY 139

ISSUE DATE: 03/18/10