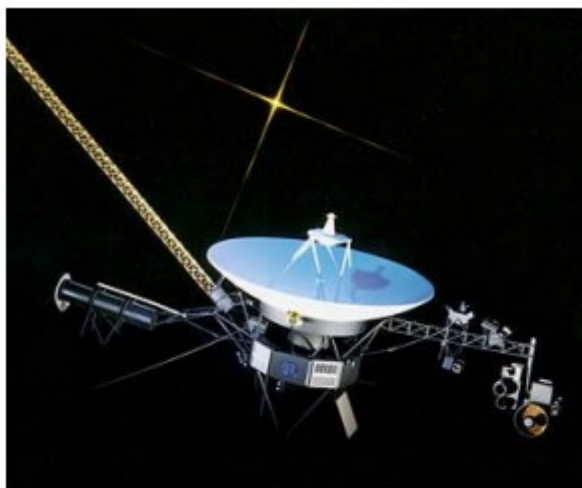


# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: April 10, 2019

For the Period: 04/11/19 to 04/29/19 (19/101 – 19/119)



Posted at <https://voyager.jpl.nasa.gov/mission/status/>

**LEGEND:**

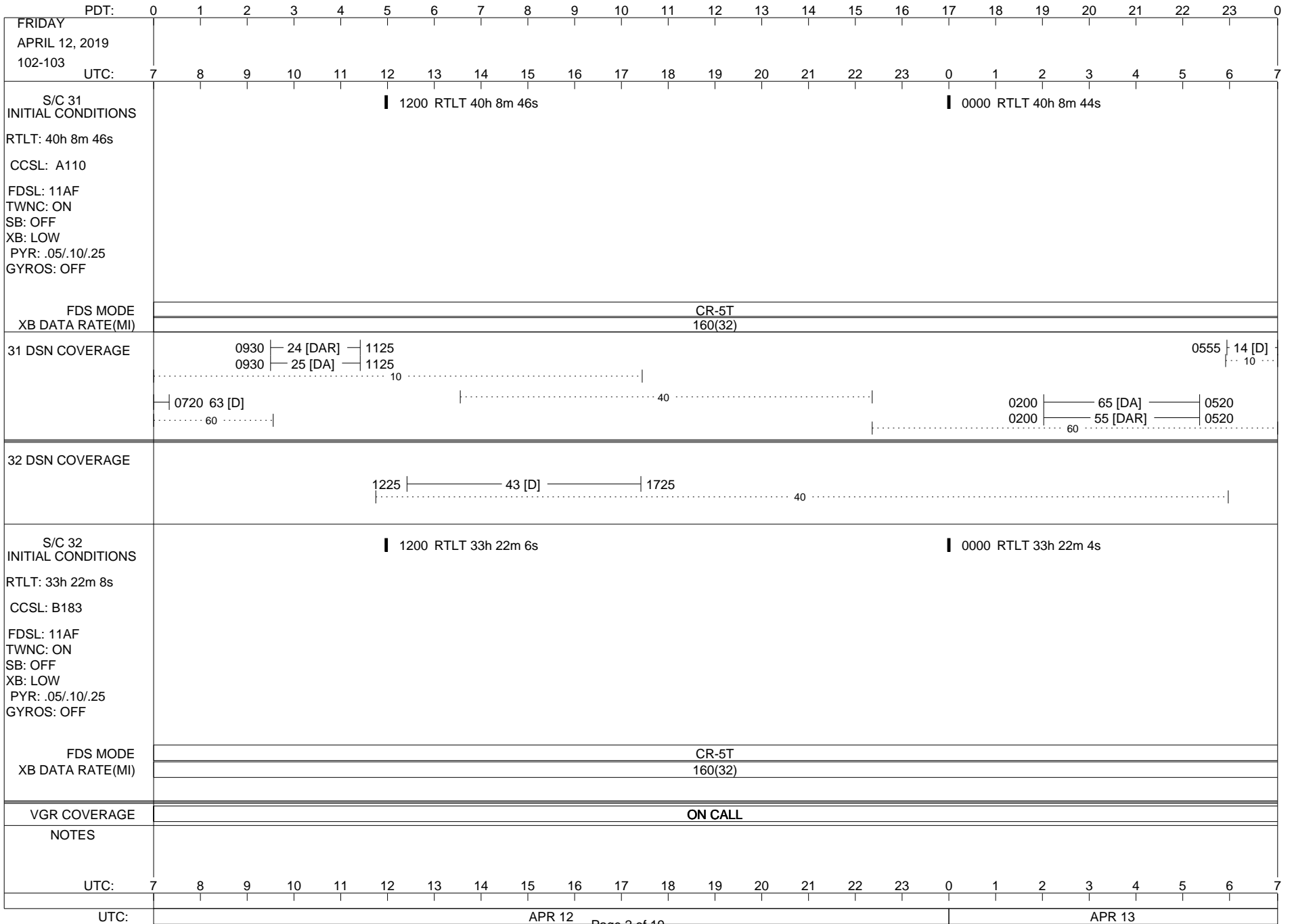
- ∇ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
- U = Uplink only pass
- [o] = Ramp-through

02/27/19

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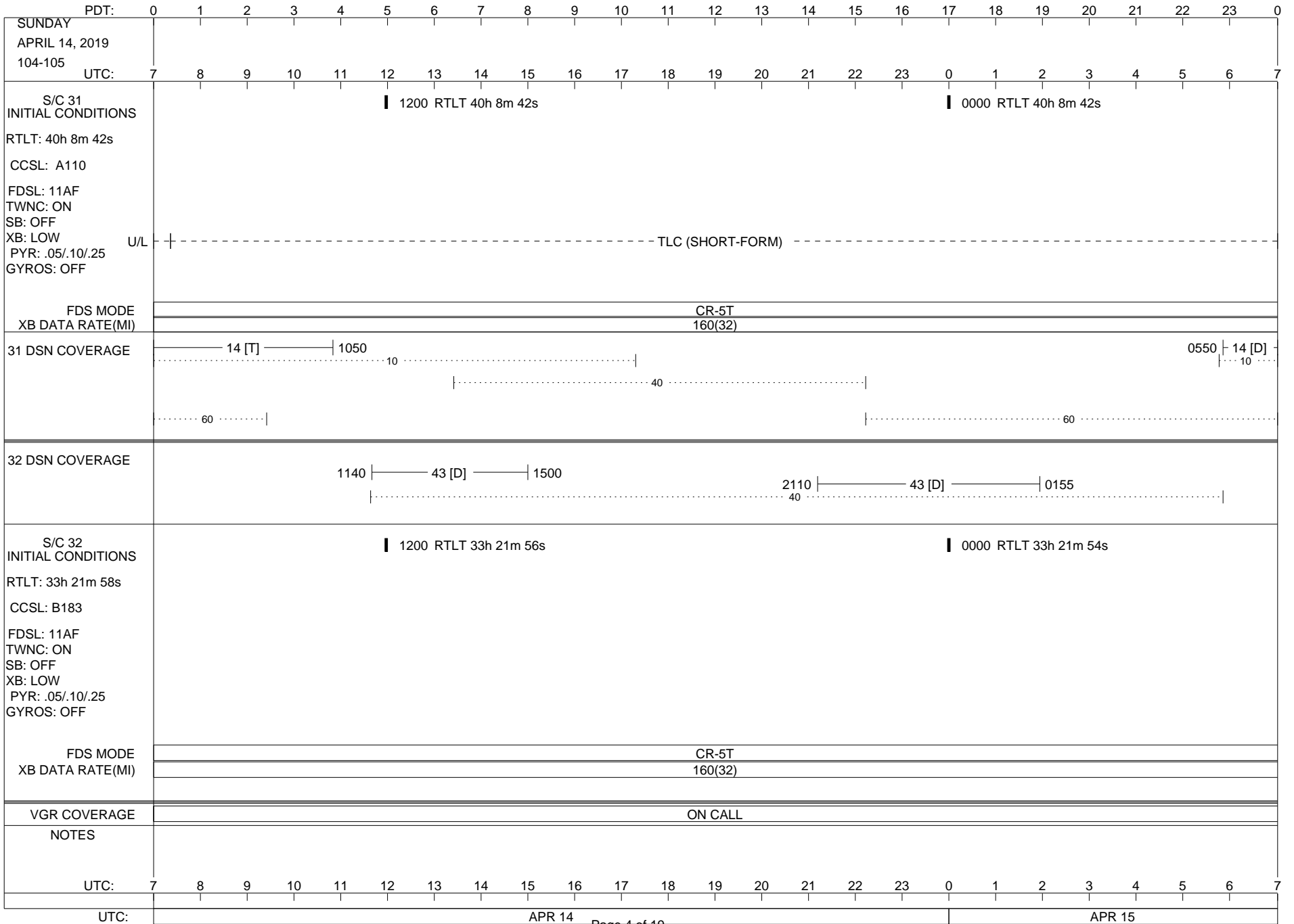
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THURSDAY APRIL 11, 2019 101-102	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	
S/C 31 INITIAL CONDITIONS RTLTL: 40h 8m 48s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 8m 46s												0000 RTLT 40h 8m 46s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)													
31 DSN COVERAGE	14 [D] 0930 .....10..... .....40..... .....60.....												2021   ---   2115 TAPPOS 2323   2324 PWS/RH 2335   ----   0043 TAPPOS  ↓ 2323 GS-4B 2324 0055   ----- 63 [D] ----- .....60.....													
32 DSN COVERAGE	1150   ----- 43 [D] -----   1620 .....40.....																									
S/C 32 INITIAL CONDITIONS RTLTL: 33h 22m 14s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 22m 12s												0000 RTLT 33h 22m 8s													
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																									
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 2323 XB=2.8K(41) NOT RECOVERABLE																									
UTC:	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	
UTC:	APR 11													APR 12												

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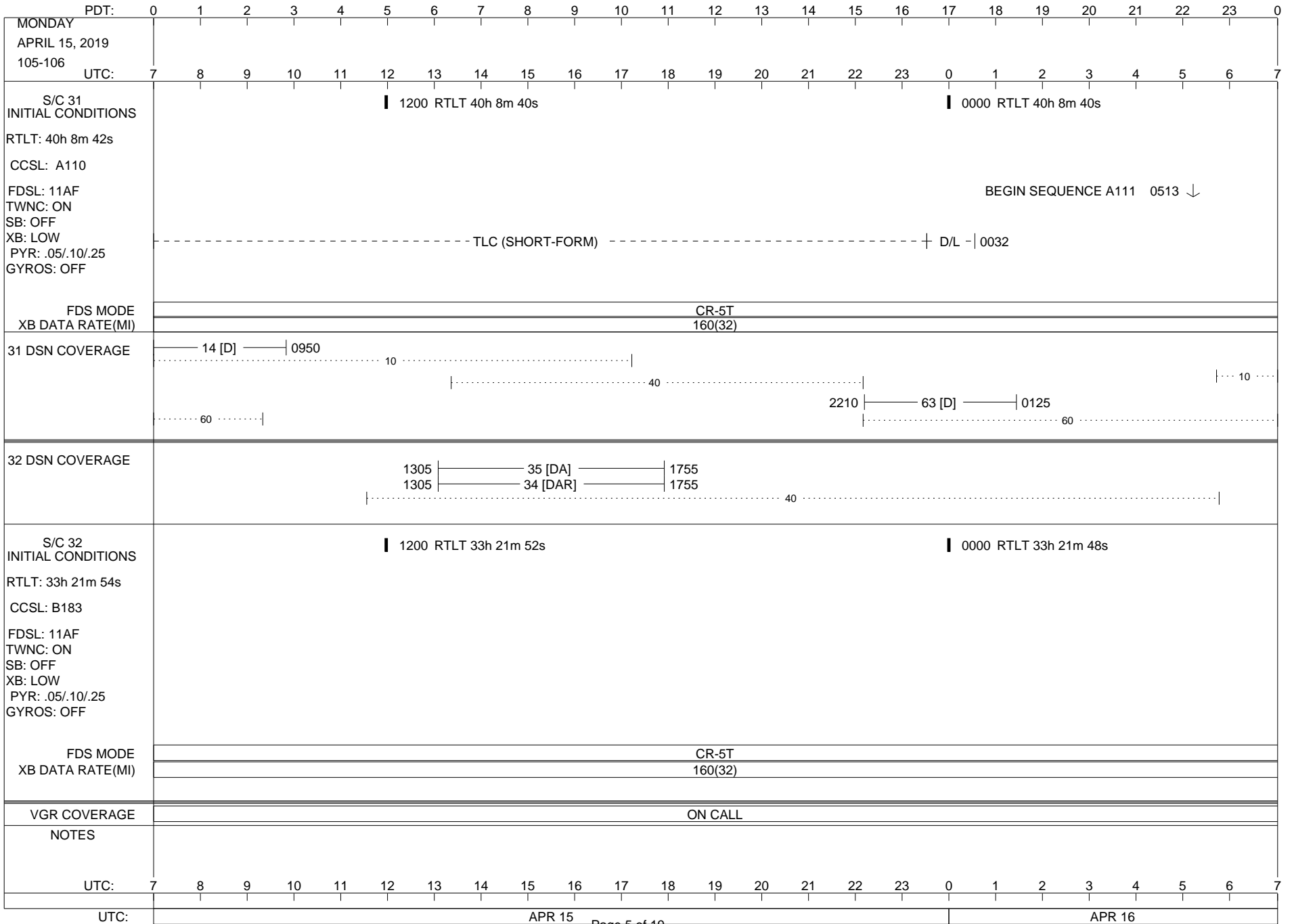


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SATURDAY APRIL 13, 2019 103-104	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 40h 8m 44s CCSL: A110 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 8m 44s												0000 RTLT 40h 8m 42s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D] 0955												0605 14 [T]												
32 DSN COVERAGE	1145 43 [B] 1545																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 22m 4s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 22m 2s												0000 RTLT 33h 21m 58s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL						VGR						ON CALL						VGR						
NOTES	[1] S/C 31=GS-4B @ 0223 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	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
UTC:	APR 13												APR 14												



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PDT:	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			
UTC:	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			
TUESDAY APRIL 16, 2019 106-107																												
S/C 31 INITIAL CONDITIONS RTLT: 40h 8m 40s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 8m 40s												0000 RTLT 40h 8m 38s															
FDS MODE	CR-5T												CR-5T						CR-5T									
XB DATA RATE(MI)	160(32)												160(32)						160(32)									
31 DSN COVERAGE	<p>0750  ----- 25 [DAR] -----  1150</p> <p>0750  ----- 26 [DA] -----  1150</p> <p>.....10.....</p> <p>.....40.....</p> <p>.....60.....</p> <p>.....2215  ----- 63 [D] -----  0100</p> <p>.....60.....</p>																											
32 DSN COVERAGE	<p>1135  ----- 43 [o] -----  1535</p> <p>.....40.....</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 33h 21m 48s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 21m 46s												0000 RTLT 33h 21m 44s															
FDS MODE	CR-5T																											
XB DATA RATE(MI)	160(32)																											
VGR COVERAGE	ON CALL														VGR				ON CALL									
NOTES	[1] S/C 31=GS-4B @ 1646 XB=2.8K(41) NOT RECOVERABLE																											
UTC:	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			
UTC:	APR 16														APR 17													





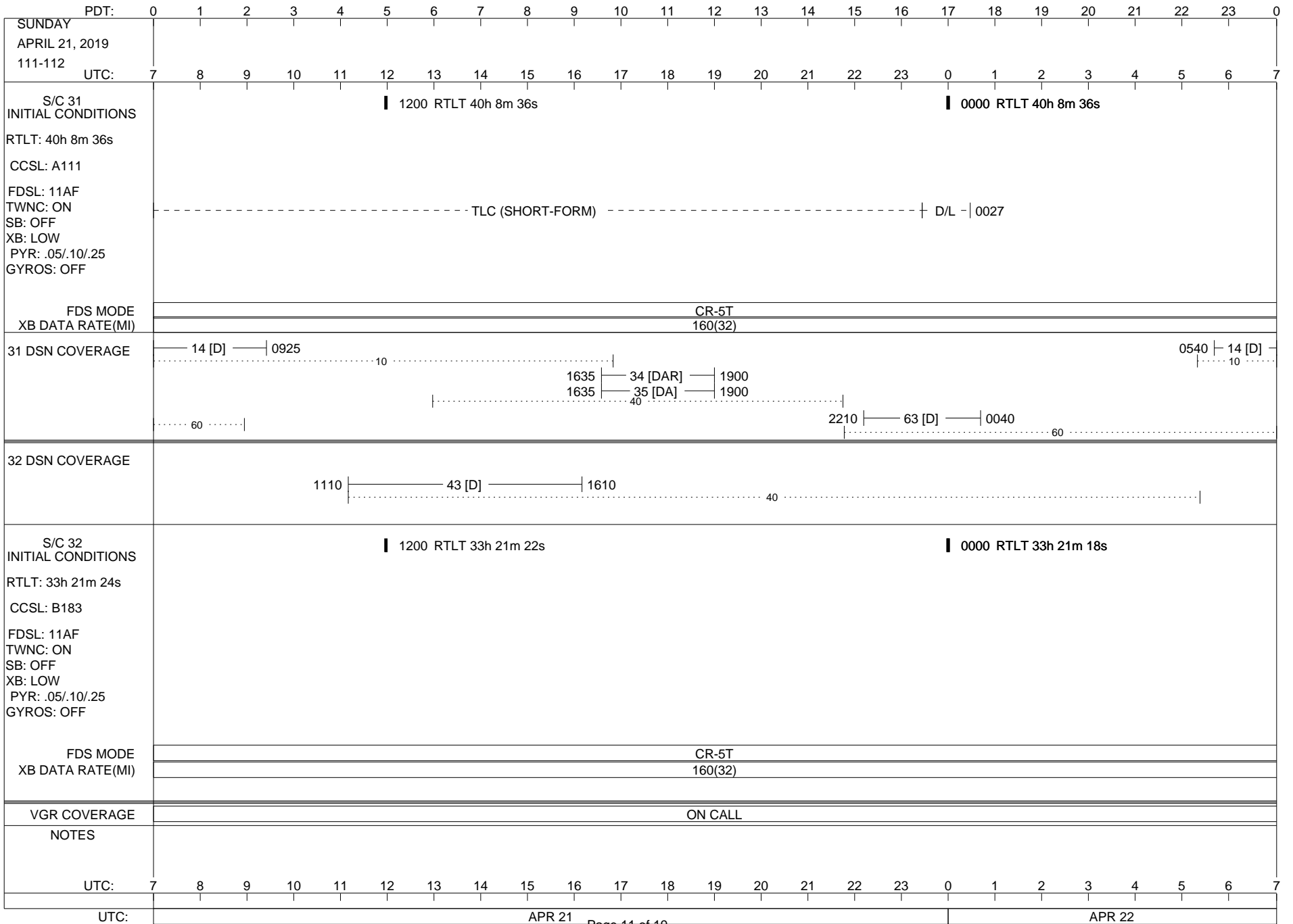
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THURSDAY APRIL 18, 2019 108-109																									
UTC:	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLTL: 40h 8m 38s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 40h 8m 38s												█ 0000 RTLTL 40h 8m 36s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0745  ----- 24 [DA] -----  1145 0745  ----- 25 [DAR] -----  1145 ..... 10 ..... ..... 40 ..... ..... 60 .....												1957  -----  2105 TAPPOS 2300   2300 PWS/RH 2311   TAPPOS   0032 ↓ 2300 GS-4B 2300 2205  ----- 63 [D] -----  0050 ..... 60 .....												
32 DSN COVERAGE	1310  ----- 35 [DAR] -----  1815 1310  ----- 34 [oA] -----  1815 ..... 40 .....												0000  ----- 43 [D] -----  0130												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 21m 38s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLTL 33h 21m 36s												█ 0000 RTLTL 33h 21m 34s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												ON CALL												
NOTES	[1] S/C 31=GS-4B @ 2300 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	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
UTC:	APR 18												APR 19												

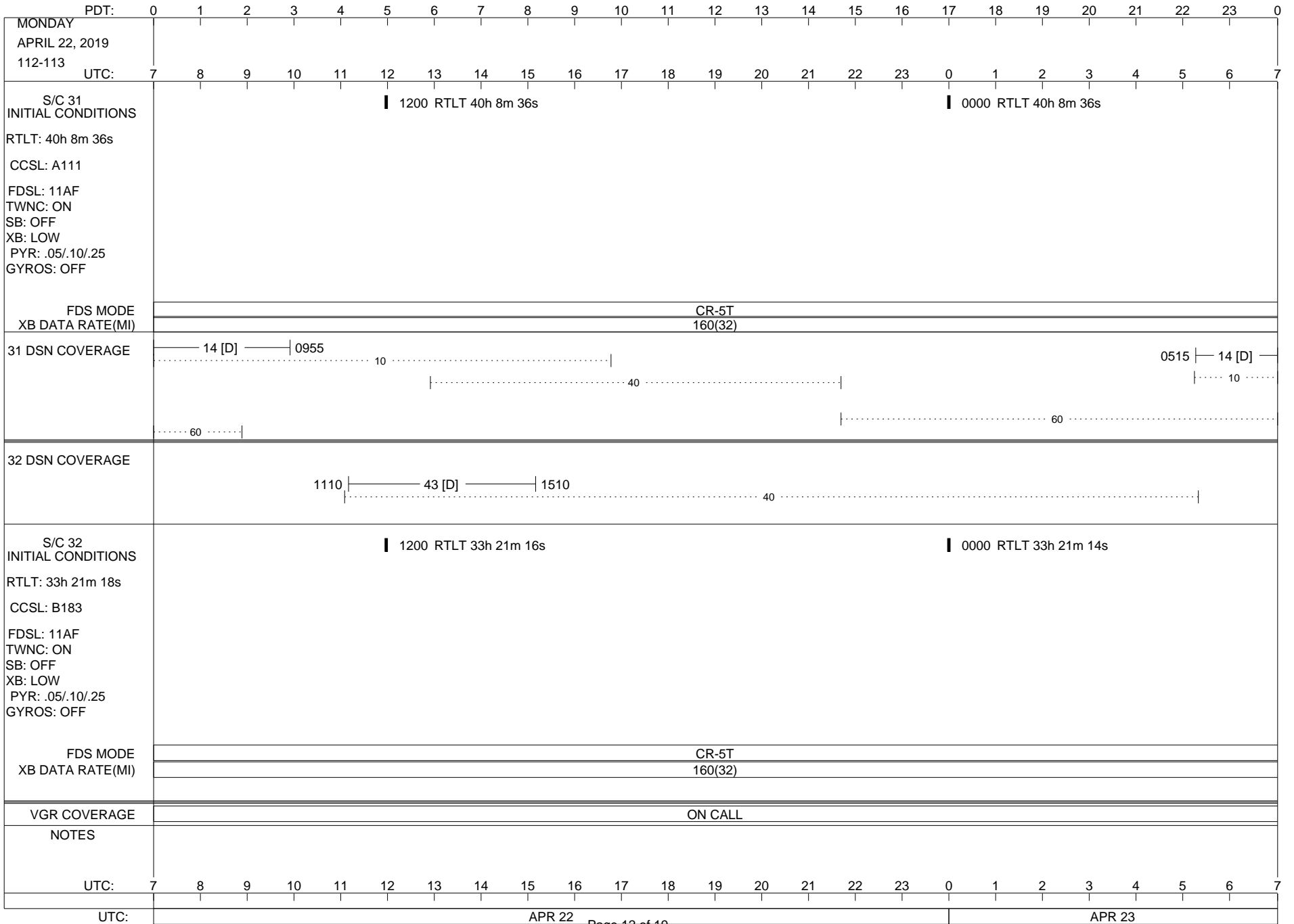
ISSUE DATE: 04/04/19 11:56

PDT:	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
FRIDAY APRIL 19, 2019 109-110																									
UTC:	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
S/C 31 INITIAL CONDITIONS RTLTL: 40h 8m 36s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 8m 36s												0000 RTLTL 40h 8m 36s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	25 [DAR] 0740 - 1140 26 [DA] 0740 - 1140 ..... 10 ..... ..... 40 ..... ..... 60 .....												0555   14 [T]   ..... 10 .....												
32 DSN COVERAGE													..... 40 ..... 2115   ..... 43 [D] .....   0215 .....												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 21m 34s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 21m 32s												0000 RTLTL 33h 21m 28s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL																						VGR		
NOTES																									
UTC:	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
UTC:	APR 19												APR 20												

PDT:	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
SATURDAY APRIL 20, 2019 110-111	UTC: 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
S/C 31 INITIAL CONDITIONS RTLT: 40h 8m 36s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 8m 36s												0000 RTLT 40h 8m 36s												
U/L	TLC (SHORT-FORM)																								
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [T]   1310												0525   14 [D]												
	60												2155   63 [D]   0040												
32 DSN COVERAGE	1115   43 [D]   1520												2340   43 [B]   0320												
S/C 32 INITIAL CONDITIONS RTLT: 33h 21m 28s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 21m 26s												0000 RTLT 33h 21m 24s												
	1216   -   1248 SHUNT POWER TEST												DUMMY (5 MIN BRACKETED 11:34) 0212 ▼												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	[1] S/C 31=GS-4B @ 0200 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	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
UTC:	APR 20												APR 21												

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PDT:	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
TUESDAY APRIL 23, 2019 113-114	UTC: 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
S/C 31 INITIAL CONDITIONS RTLTL: 40h 8m 36s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 8m 36s												0000 RTLT 40h 8m 36s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	14 [D]   0915												0510   14 [D]												
32 DSN COVERAGE	1105   43 [D]   1505																								
S/C 32 INITIAL CONDITIONS RTLTL: 33h 21m 14s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 21m 12s												0000 RTLT 33h 21m 10s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1622 XB=2.8K(41) NOT RECOVERABLE																								
UTC:	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
UTC:	APR 23												APR 24												

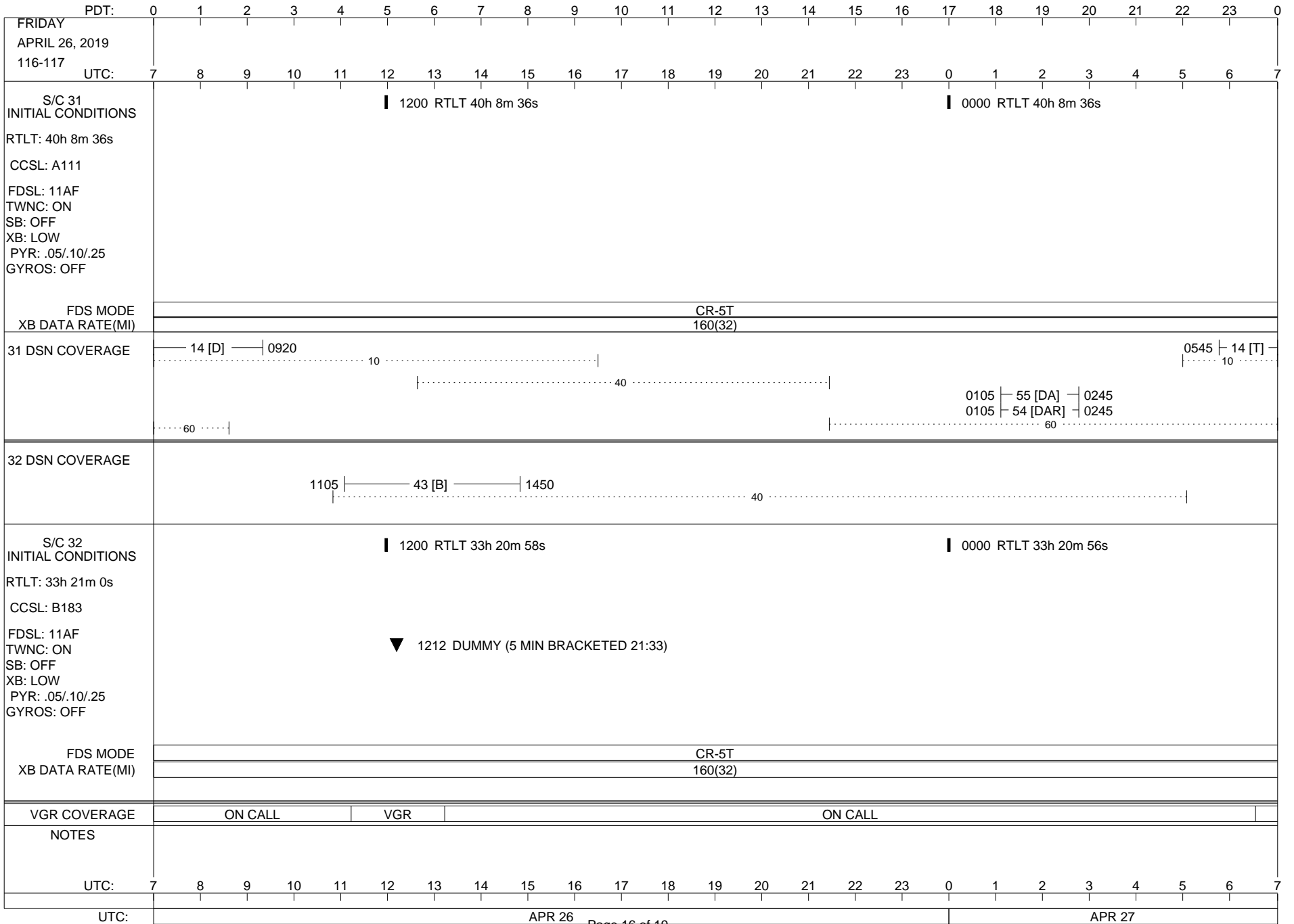
ISSUE DATE: 04/04/19 11:56

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WEDNESDAY APRIL 24, 2019 114-115	UTC: 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
S/C 31 INITIAL CONDITIONS RTLTL: 40h 8m 36s CCSL: A111 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 8m 36s												0000 RTLT 40h 8m 36s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
31 DSN COVERAGE	14 [D]   1100												0550   14 [DA] 24 [DA] 0640 25 [DA] 0640 26 [DAR] 0640 10												
32 DSN COVERAGE	1100   43 [D]   1500												40												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 21m 10s CCSL: B183 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 21m 8s												0000 RTLT 33h 21m 4s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																							VGR	
NOTES																									
UTC:	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
UTC:	APR 24												APR 25												

PDT:	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		
UTC:	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		
THURSDAY APRIL 25, 2019 115-116																											
S/C 31 INITIAL CONDITIONS	1200 RTLT 40h 8m 36s													0000 RTLT 40h 8m 36s													
RTL: 40h 8m 36s	0703 BAY 1 HTR OFF													1933  -----  2044 TAPPOS													
CCSL: A111	0707 X/B HI POWER													2236   2236 PWS/RH													
FDSL: 11AF	PLAYBACK -----  0708 - 1343													2247  -----  2344 TAPPOS													
TWNC: ON	1357 YAW=.10													TAPPOS 0531    0534													
SB: OFF	1401 X/B LOW POWER													CCSTIMB FINE 0652 - 0659													
XB: LOW	1405 BAY 1 HTR ON																										
PYR: .05/.05/.25																											
GYROS: OFF																											
FDS MODE	PB-14													CR-5T													
XB DATA RATE(MI)	1.4K(39)													160(32)													
31 DSN COVERAGE	14 [DA] -----  1445													0520   14 [D] -----													
	24 [DA] -----  1345													----- 10 -----													
	25 [DA] -----  1345																										
	26 [DAR] -----  1345													0040   65 [DAR] -----  0315													
	60 -----													0040   55 [DA] -----  0315													
	10 -----  40 -----													60 -----													
32 DSN COVERAGE	1055  ----- 43 [D] -----  1455													40 -----													
S/C 32 INITIAL CONDITIONS	1200 RTLT 33h 21m 2s													0000 RTLT 33h 21m 0s													
RTL: 33h 21m 4s																											
CCSL: B183																											
FDSL: 11AF																											
TWNC: ON																											
SB: OFF																											
XB: LOW																											
PYR: .05/.10/.25																											
GYROS: OFF																											
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
VGR COVERAGE	VGR													ON CALL													
NOTES	[1] S/C 31=PB-14 @ 0708 XB=1.4K(39) [2] S/C 31=GS-4B @ 2236 XB=2.8K(41) NOT RECOVERABLE																										
UTC:	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		
UTC:	APR 25													APR 26													



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