

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: April 25, 2018

For the Period: 04/27/18 to 05/13/18 (18/116 – 18/133)

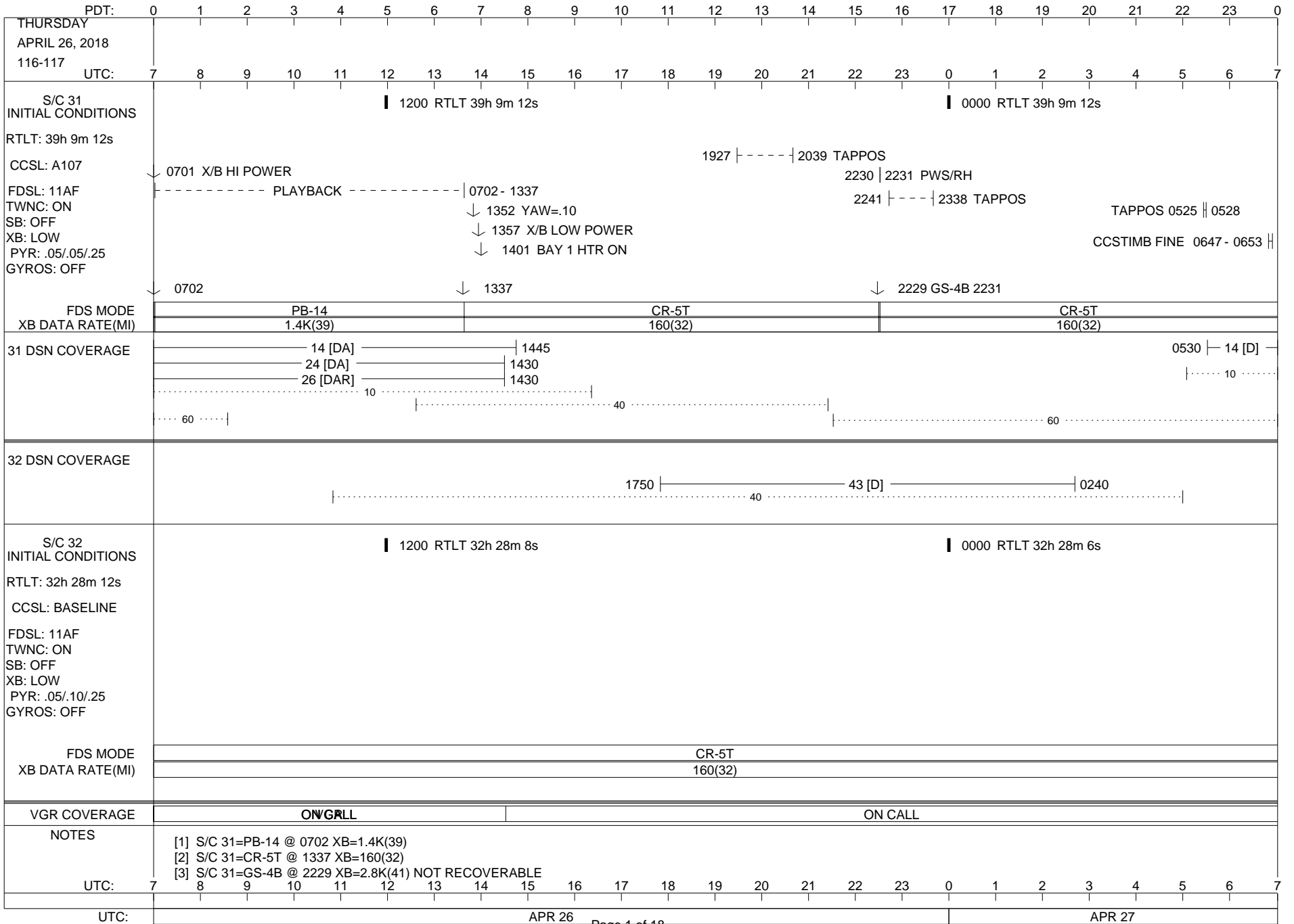
DSN OPSCHIEF	230-102	SCIENCE	FLIGHT TEAM	600-100
DSOT	230-102	CRS bryant@mail630.gsfc.nasa.gov LECP r.decker@jhuapl.edu MAG u2mha@lepvax.gsfc.nasa.gov PLS vgr@space.mit.edu PWS wsk@space.physics.uiowa.edu Leonard.F.Burlaga@nasa.gov Donald-Gurnett@uiowa.edu	Dodd, S. Hall, J. Howard, S. Ko, A. Ledeboer, W. Ludwig, R. Matsumoto, S. Medina, E. Peralta, F. Weeks, T. Yang, L.	

**LEGEND:**

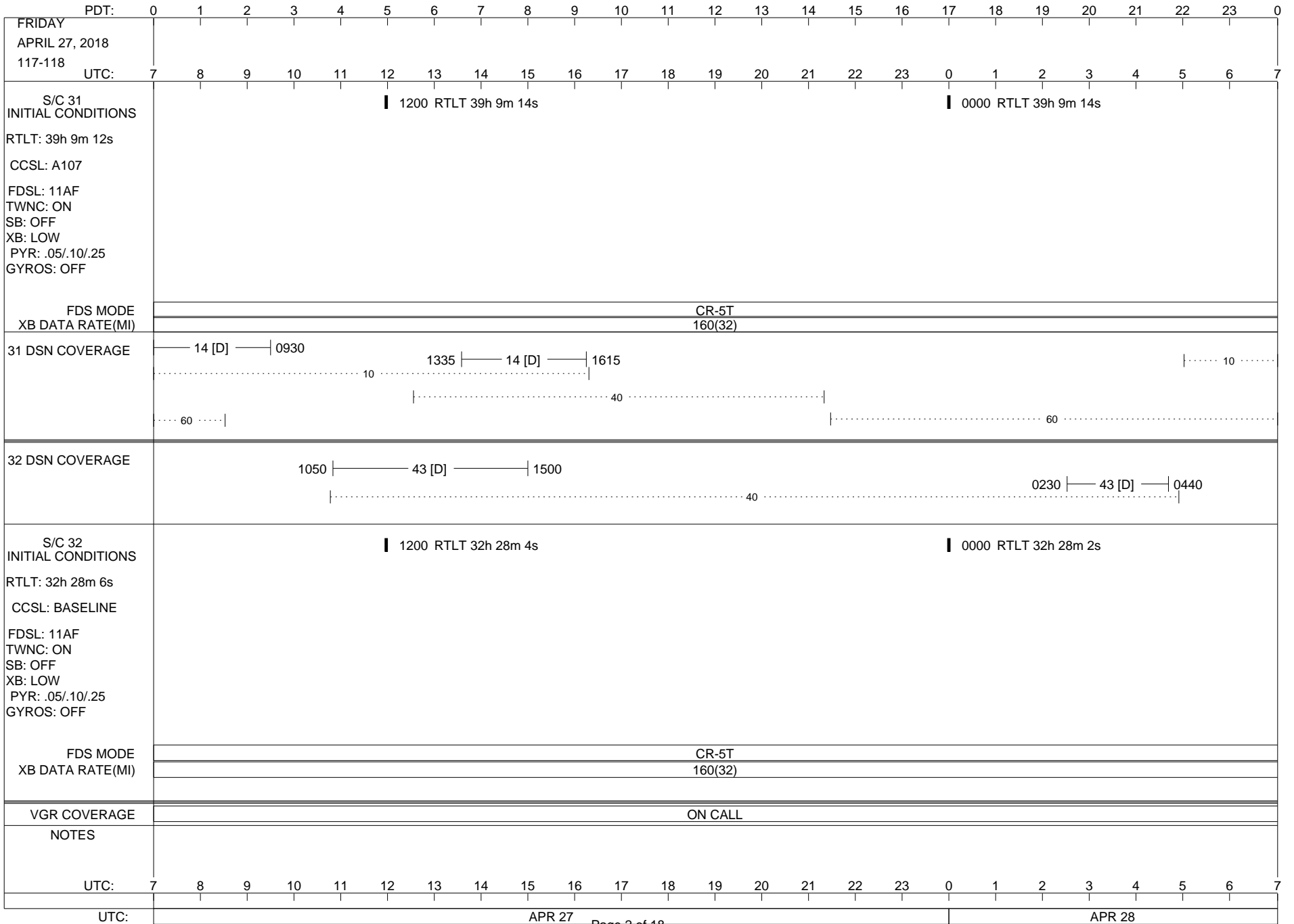
- ▽ = R/T Command (Last chance or Contingency)
- ▼ = R/T Command (Scheduled)
- \* = Result of R/T Command
- n = (where n = 1,2,3 ..) Special Note, see bottom of page
- A = Arrayed station
- B = BLF
- D = Downlink only pass
- H = High Power Transmitter
- R = Array Reference Antenna
- T = TLC Uplink
-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

Posted at [http://voyager.jpl.nasa.gov/mission/soesfos/tracking\\_schedule.html](http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html)

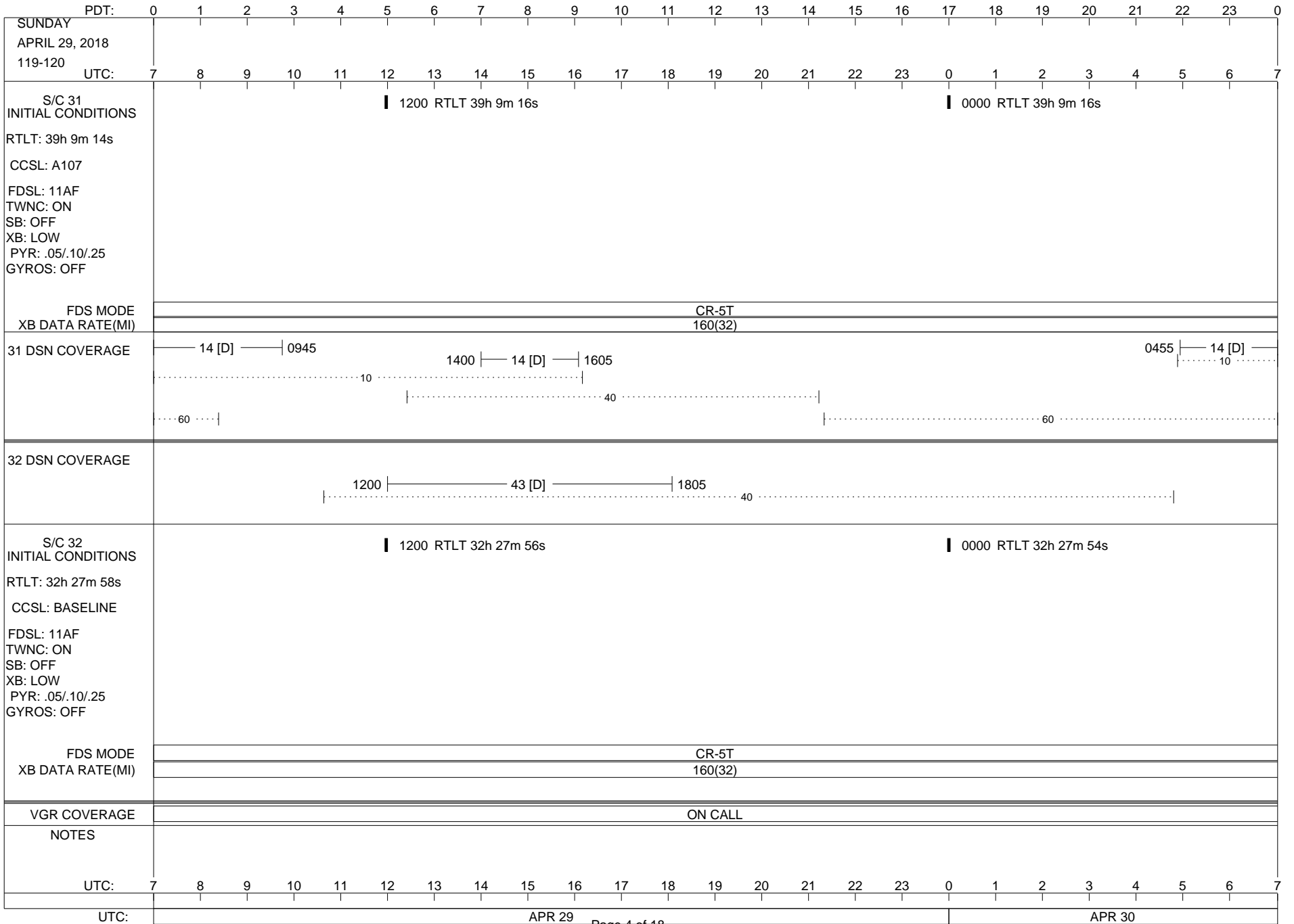
02/27/17



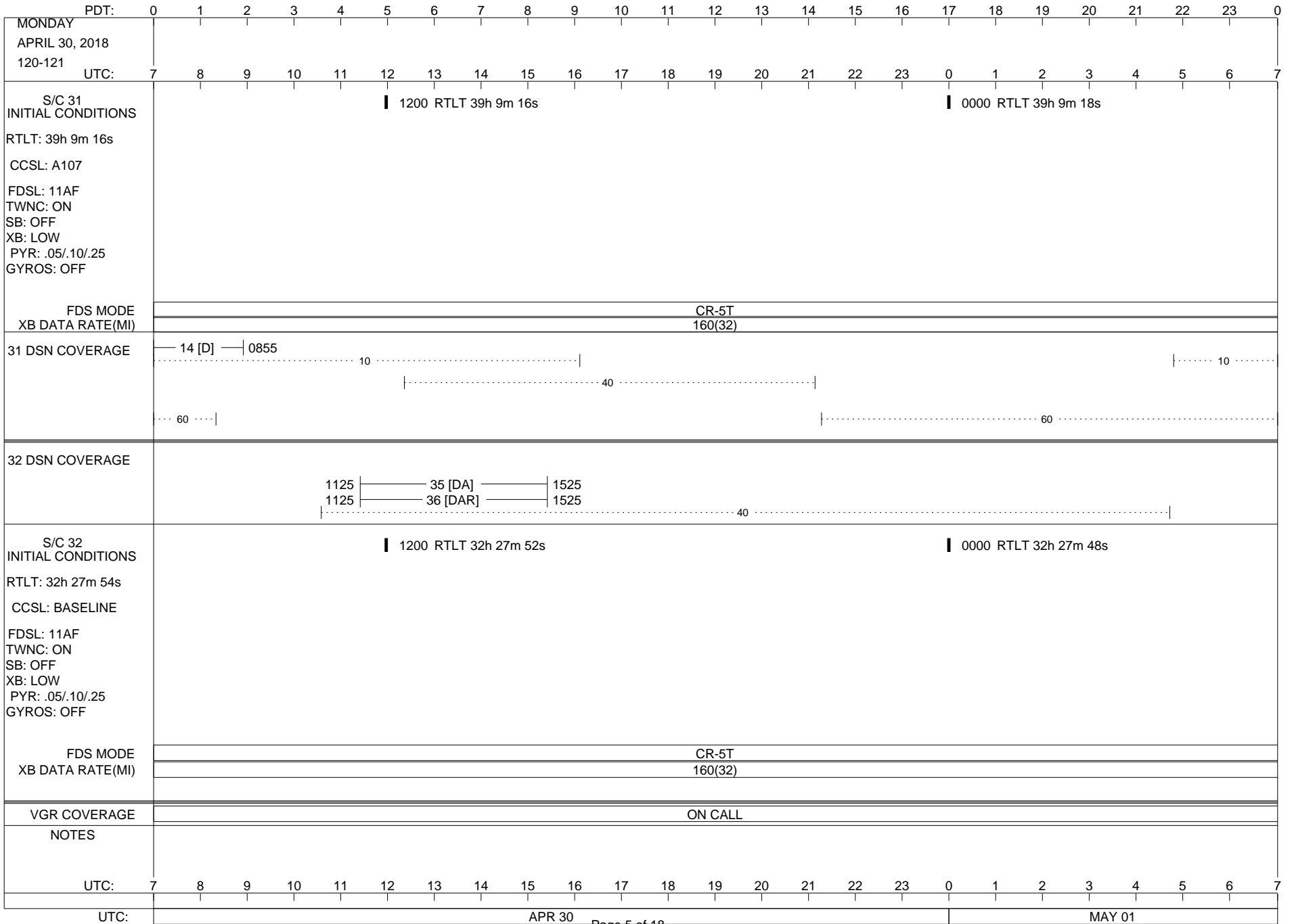
ISSUE DATE: 04/25/18 10:56



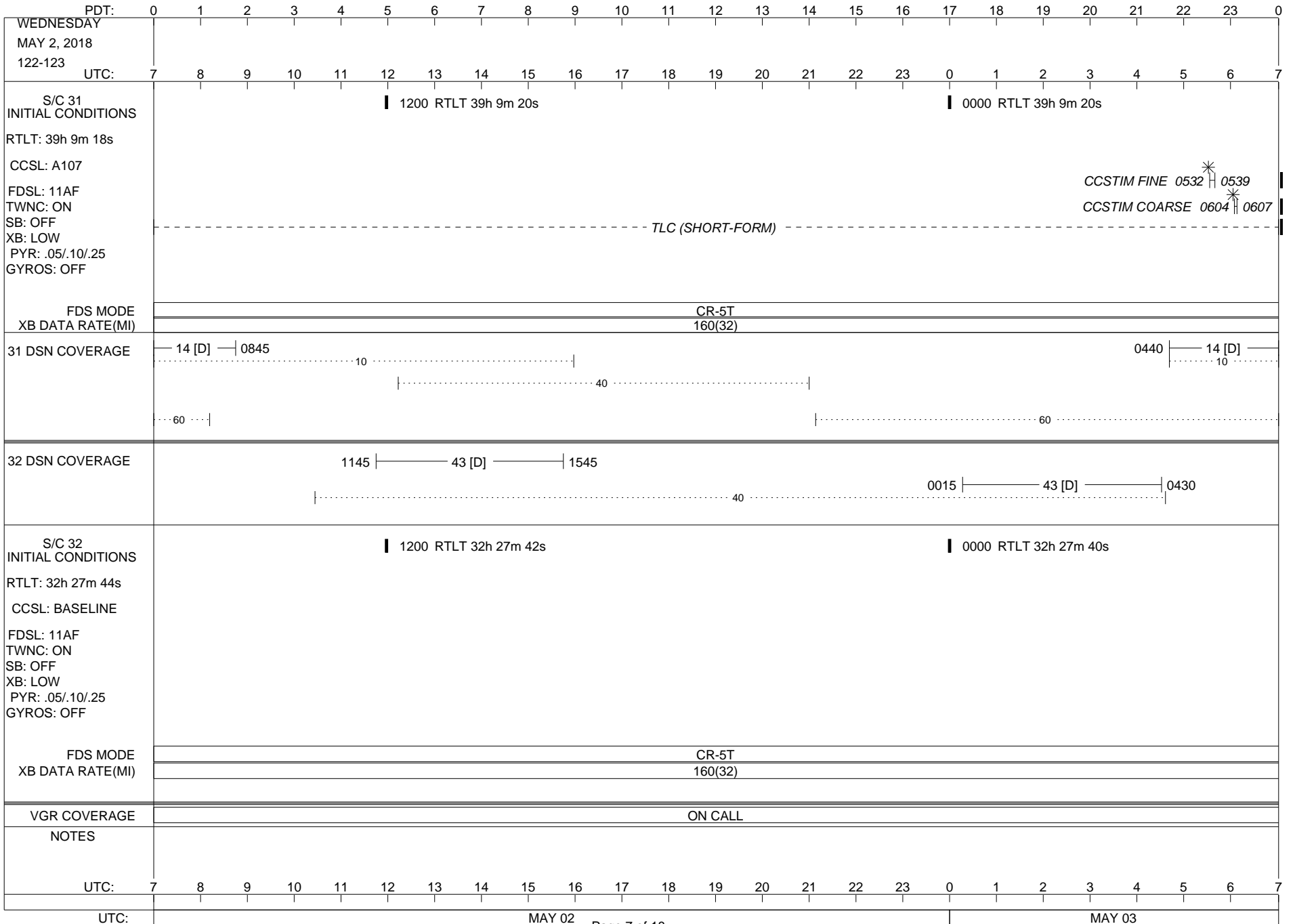
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SATURDAY APRIL 28, 2018 118-119	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 39h 9m 14s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 9m 14s												0000 RTLT 39h 9m 14s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	1305  -----  14 [D]  -----  1605												0500  -----  14 [D]  -----												
	1555  -----  43 [D]  -----  1705												-----  10												
	-----  60												-----  60												
32 DSN COVERAGE	1045  -----  43 [D]  -----  1505												0210  -----  43 [D]  -----  0450												
	-----  40												-----  40												
S/C 32 INITIAL CONDITIONS RTLT: 32h 28m 2s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 28m 0s												0000 RTLT 32h 27m 58s												
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 @ 0130 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 28												APR 29												



ISSUE DATE: 04/25/18 10:56



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
TUESDAY MAY 1, 2018 121-122	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: 39h 9m 18s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 9m 18s 0842 GYROS BC ON 0842 BAY 1 HTR OFF 0852 GYRO FAULT TEST 0915  -----  1020 ASCAL 0926 ALL DB=.IS 0942 AAI 1017 RAI 1020 GYROS OFF 1020 CRU 1028 YAW=.10 ROLL = .25 1028 BAY 1 HTR ON 1033												0000 RTLT 39h 9m 18s 1355 DUMMY (05:04) 1423 CCSTIM F/C (05:32) U/L 1615  -----  TLC (SHORT-FORM) 1552   1553 PWS/RH 1552 GS-4B 1553												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)	EL-40 40(30)	CR-5T 160(32)										CR-5T 160(32)												
31 DSN COVERAGE	14 [D]  -----  0730 - 1045										0445  -----  14 [D]  -----														
	1245  -----  43 [T]  -----  1645										60														
32 DSN COVERAGE	1730  -----  43 [D]  -----  2145										40														
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 48s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 46s												0000 RTLT 32h 27m 44s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	VGR												ON CALL												
NOTES	[1] S/C 31 = D/L /SNR VARIATIONS EXPECTED DURING ASCAL (0915-1020) [2] S/C 31=EL-40 @ 0845 XB=40(30) [3] S/C 31=GS-4B @ 1552 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:	MAY 01												MAY 02												



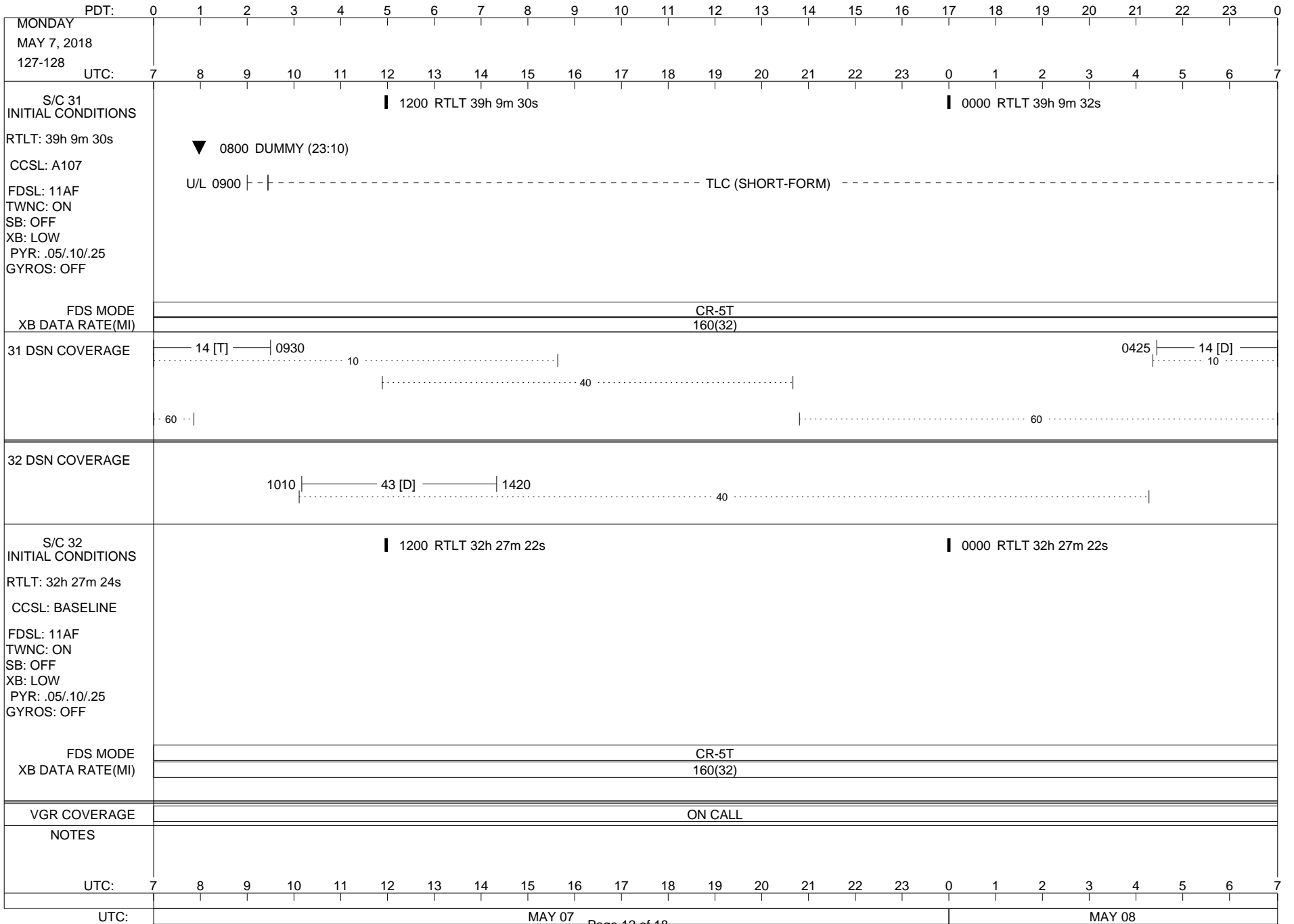


PDT:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
THURSDAY MAY 3, 2018 123-124	UTC: 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7
S/C 31 INITIAL CONDITIONS RTLT: 39h 9m 20s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 9m 22s												0000 RTLT 39h 9m 22s												
	1904   -   1930 TAPPOS												2205   2207 PWS/RH 2217   -   2230 TAPPOS												
	TLC (SHORT-FORM) D/L -   0852												2205 GS-4B 2207												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	14 [D]   0915												14 [DA] 0700 24 [DAR] 0700 26 [DA] 0700												
	60												60												
32 DSN COVERAGE	1025   43 [D]   1425												40												
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 40s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 38s												0000 RTLT 32h 27m 36s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE													ON CALL												
NOTES	[1] S/C 31=GS-4B @ 2205 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:	MAY 03												MAY 04												

		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 MAY 4, 2018 124-125																									
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: 39h 9m 22s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 39h 9m 24s												0000 RTLT 39h 9m 24s											
		↓ 0801 BAY 1 HTR OFF ↓ 0801 GYROS BC ON ↓ 0802 GYRO INIT ↓ 0811 GYRO FAULT TEST 0901  -----  1022 MAGROL (RI) ↓ 1022 GYROS OFF ↓ 1022 CRU ↓ 1031 BAY 1 HTR ON ↓ 0804 EL-40 0805																							
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)												CR-5T 160(32)											
31 DSN COVERAGE		14 [DA] —————  0700 - 1100 24 [DAR] —————  0700 - 1100 26 [DA] —————  0700 - 1100 .....  .....  .....  .....												0435  ——— 14 [D] —— .....  .....  .....											
32 DSN COVERAGE		1035  ——— 43 [Ho] ——  1420 .....  .....																							
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 36s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 32h 27m 34s												0000 RTLT 32h 27m 32s											
FDS MODE XB DATA RATE(MI)		CR-5T 160(32)												CR-5T 160(32)											
VGR COVERAGE		VGR												ON CALL											
NOTES		[1] S/C 31 = D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (0801-1022) [2] DSS-43 HP TXR DRV ON >= 11:45																							
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:		MAY 04												MAY 05											

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 MAY 5, 2018 125-126	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: 39h 9m 24s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 9m 26s												0000 RTLT 39h 9m 28s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	0730 14 [D]										0430 14 [D]															
32 DSN COVERAGE	1745 43 [D]										2205															
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 32s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 30s												0000 RTLT 32h 27m 28s													
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 @ 0105 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:	MAY 05													MAY 06												

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	
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S/C 31 INITIAL CONDITIONS RTLT: 39h 9m 28s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 9m 28s												0000 RTLT 39h 9m 30s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	14 [D]   0830										0430   14 [T]															
	.....										.....															
	.....										.....															
	.....										.....															
32 DSN COVERAGE	1015   43 [D]   1415										.....															
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 28s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 26s												0000 RTLT 32h 27m 24s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE													ON CALL													
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:	MAY 06													MAY 07												



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  
MAY 8, 2018  
128-129 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: 39h 9m 32s  
CCSL: A107  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/.25  
GYROS: OFF

1200 RTLT 39h 9m 34s  
0000 RTLT 39h 9m 36s

TLC (SHORT-FORM) | D/L | 0138  
TAPPOS 0621 | - -

1528 | 1529 PWS/RH  
↓ 1528 GS-4B 1529

FDS MODE  
XB DATA RATE(MI) CR-5T 160(32) CR-5T 160(32)

31 DSN COVERAGE  
14 [D] | 0830  
10  
40  
2240 | 65 [DAR] | 0300  
2240 | 54 [DA] | 0300  
60  
24 [DAR] 0605  
26 [DA] 0605  
10

32 DSN COVERAGE  
1130 | 43 [H] | 1550  
40

S/C 32  
INITIAL CONDITIONS  
RTLTL: 32h 27m 22s  
CCSL: BASELINE  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/10/.25  
GYROS: OFF

1200 RTLT 32h 27m 20s  
0000 RTLT 32h 27m 18s

▼ 1304 EL-40 (21:31)  
▼ 1326 CCSL B180 (21:53)  
▼ 1404 CR-5T (22:31)  
▼ 1420 DUMMY (22:47)

FDS MODE  
XB DATA RATE(MI) CR-5T 160(32)

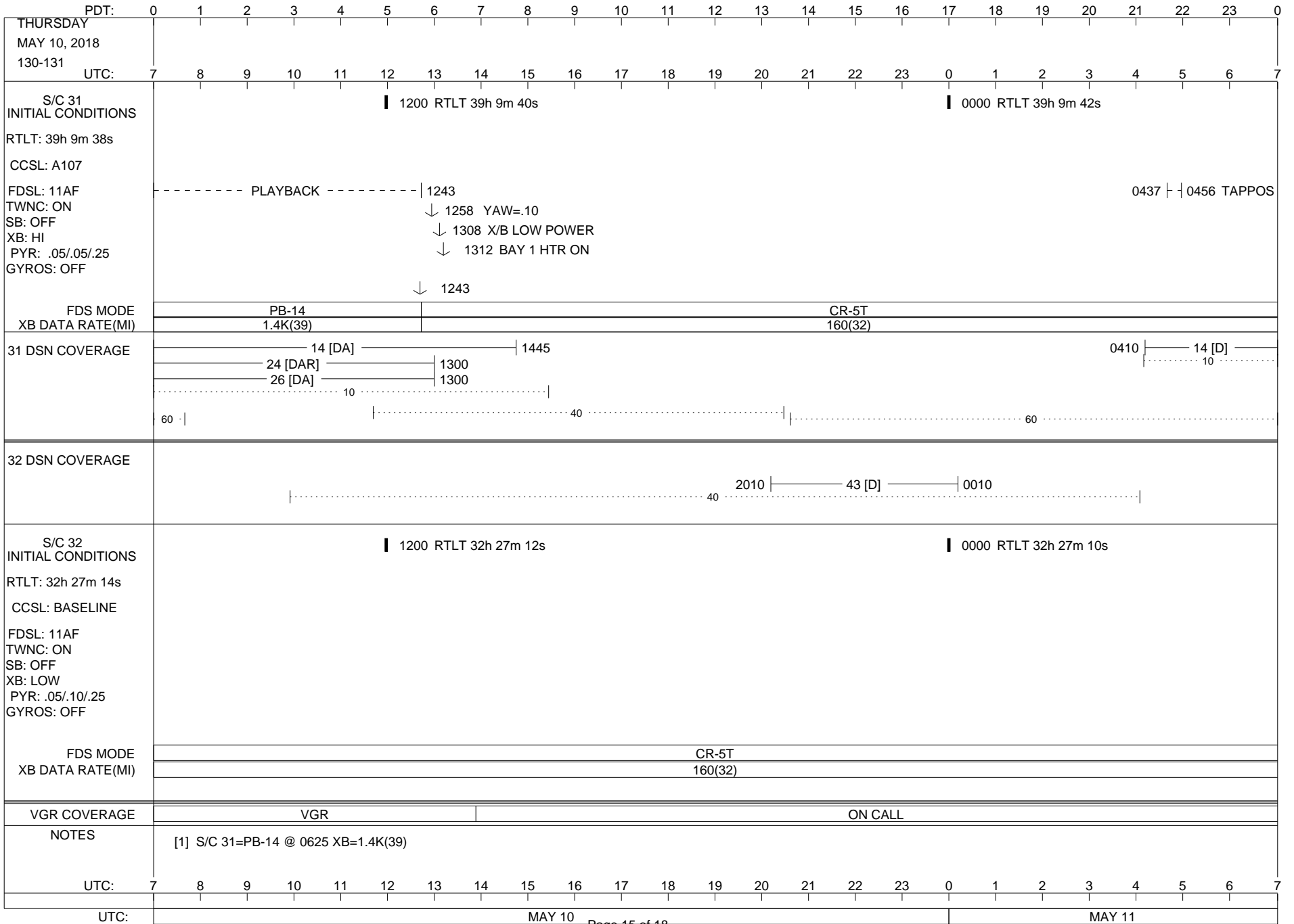
VGR COVERAGE ON CALL VGR ON CALL

NOTES  
[1] S/C 31=GS-4B @ 1528 XB=2.8K(41) NOT RECOVERABLE  
[2] DSS-43 HP TXR DRV ON >= 11:25

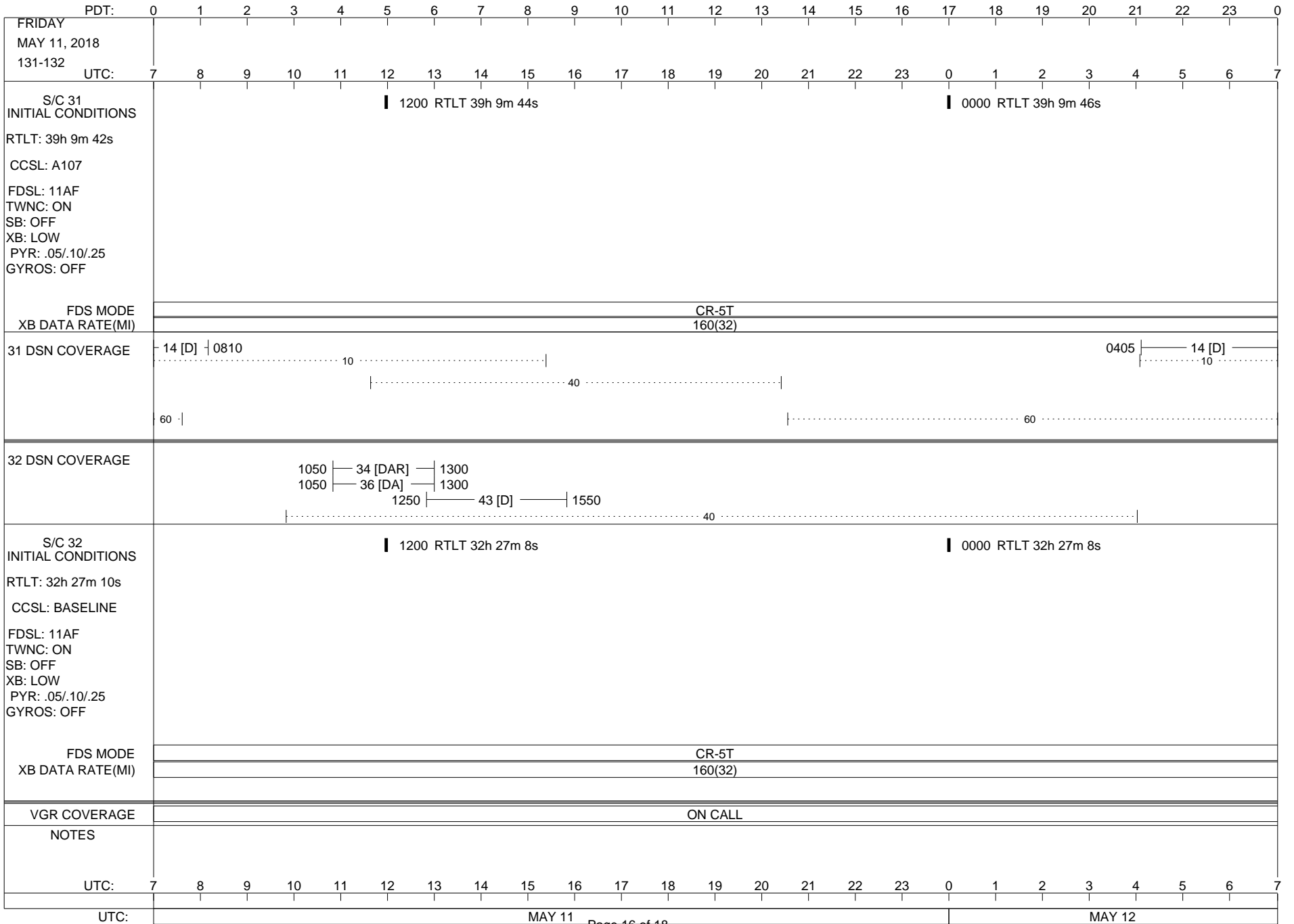
UTC: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

ISSUE DATE: 04/25/18 10:56

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																																																																																																			
WEDNESDAY																																																																																																																													
MAY 9, 2018																																																																																																																													
129-130																																																																																																																													
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		1200 RTLT 39h 9m 36s												0000 RTLT 39h 9m 38s																																																																																																															
RTLT: 39h 9m 36s																										BAY 1 HTR OFF 0608 ↓																																																																																																			
CCSL: A107																										X/B HI POWER 0612 ↓																																																																																																			
FDSL: 11AF																										YAW=.05 0616 ↓																																																																																																			
TWNC: ON																										PLAYBACK 0625   - -																																																																																																			
SB: OFF																																																																																																																													
XB: LOW																																																																																																																													
PYR: .05/.10/.25																																																																																																																													
GYROS: OFF																																																																																																																													
FDS MODE		CR-5T																																																																																																																											
XB DATA RATE(MI)		160(32)																																																																																																																											
31 DSN COVERAGE		<table border="0"> <tr> <td>0735 24 [DAR]</td> <td colspan="23"></td> <td>14 [DA] 0600</td> </tr> <tr> <td>0735 26 [DA]</td> <td colspan="23"></td> <td>24 [DAR] 0600</td> </tr> <tr> <td colspan="10">.....10.....</td> <td colspan="10">.....40.....</td> <td colspan="4">.....60.....</td> </tr> <tr> <td colspan="2">.60 . </td> <td colspan="24"></td> </tr> </table>																								0735 24 [DAR]																								14 [DA] 0600	0735 26 [DA]																								24 [DAR] 0600	.....10.....										.....40.....										.....60.....				.60 .																									
0735 24 [DAR]																								14 [DA] 0600																																																																																																					
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32 DSN COVERAGE		<table border="0"> <tr> <td colspan="12">.....40.....</td> <td colspan="4">2050  -----43 [D]----- 0300</td> <td colspan="8"></td> </tr> </table>																								.....40.....												2050  -----43 [D]----- 0300																																																																																							
.....40.....												2050  -----43 [D]----- 0300																																																																																																																	
S/C 32 INITIAL CONDITIONS		1200 RTLT 32h 27m 16s												0000 RTLT 32h 27m 14s																																																																																																															
RTLT: 32h 27m 18s																																																																																																																													
CCSL: BASELINE																																																																																																																													
FDSL: 11AF																										* 2209    2214 B180 CHKSUM																																																																																																			
TWNC: ON																																																																																																																													
SB: OFF																																																																																																																													
XB: LOW																																																																																																																													
PYR: .05/.10/.25																																																																																																																													
GYROS: OFF																																																																																																																													
FDS MODE		CR-5T												EL-40				CR-5T																																																																																																											
XB DATA RATE(MI)		160(32)												40(30)				160(32)																																																																																																											
VGR COVERAGE		ON CALL																																																																																																																											
NOTES		<p>[1] S/C 31=EL-40 @ 2132 XB=40(30)</p> <p>[2] S/C 32=CR-5T @ 2232 XB=160(32)</p>																																																																																																																											
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:		MAY 09												MAY 10																																																																																																															







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 MAY 12, 2018 132-133	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: 39h 9m 46s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 9m 48s												0000 RTLT 39h 9m 50s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	14 [D]   0835												0405   14 [D]												
	.....												.....												
	60												60												
32 DSN COVERAGE	0950   43 [D]   1350																								
	.....												.....												
S/C 32 INITIAL CONDITIONS RTLT: 32h 27m 8s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 27m 6s												0000 RTLT 32h 27m 4s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE													ON CALL												
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:	MAY 12												MAY 13												

