

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: February 14, 2018

For the Period: 02/15/18 to 03/05/18 (18/046 – 18/064)

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.	

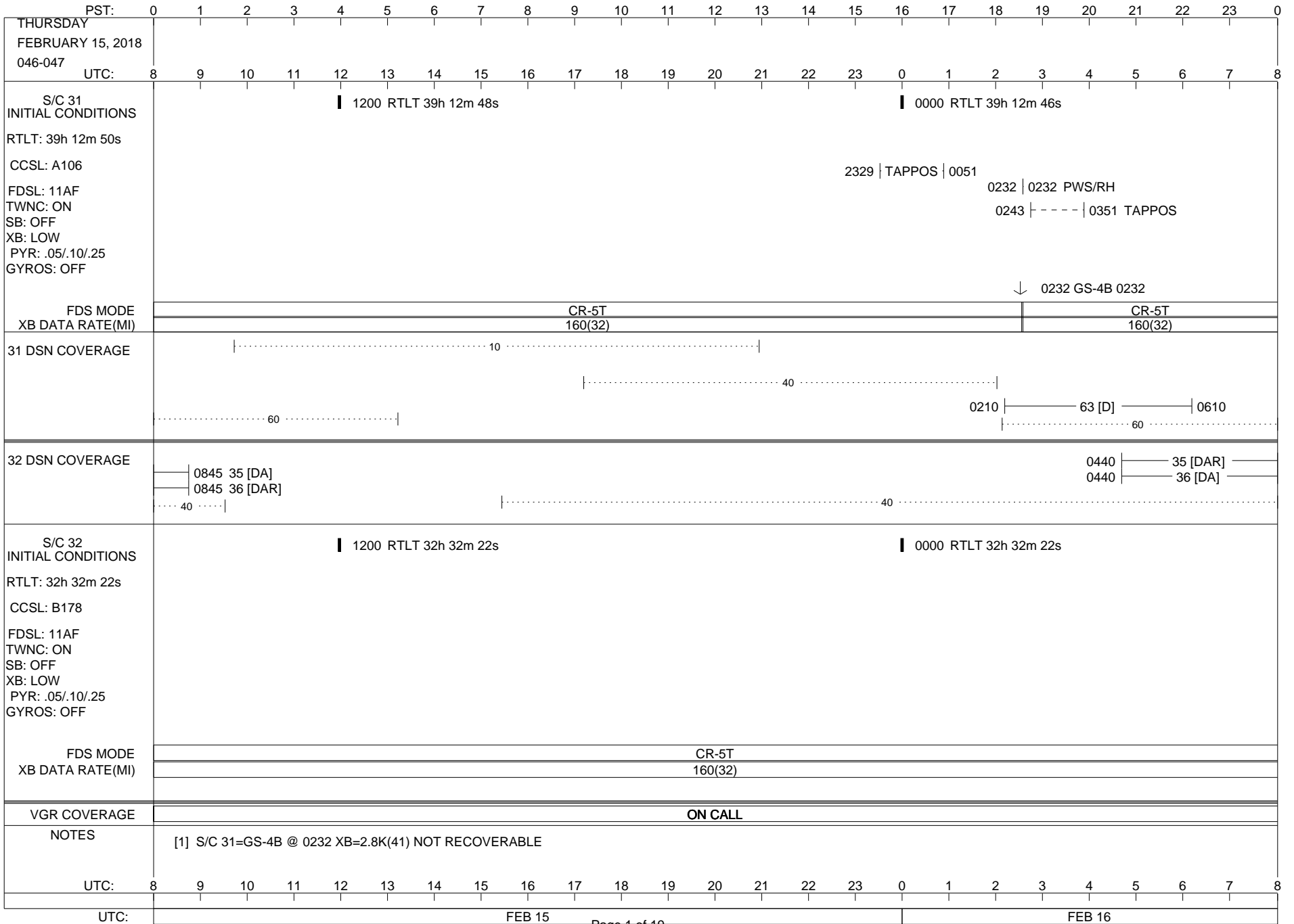
**LEGEND:**

- ∇ = 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

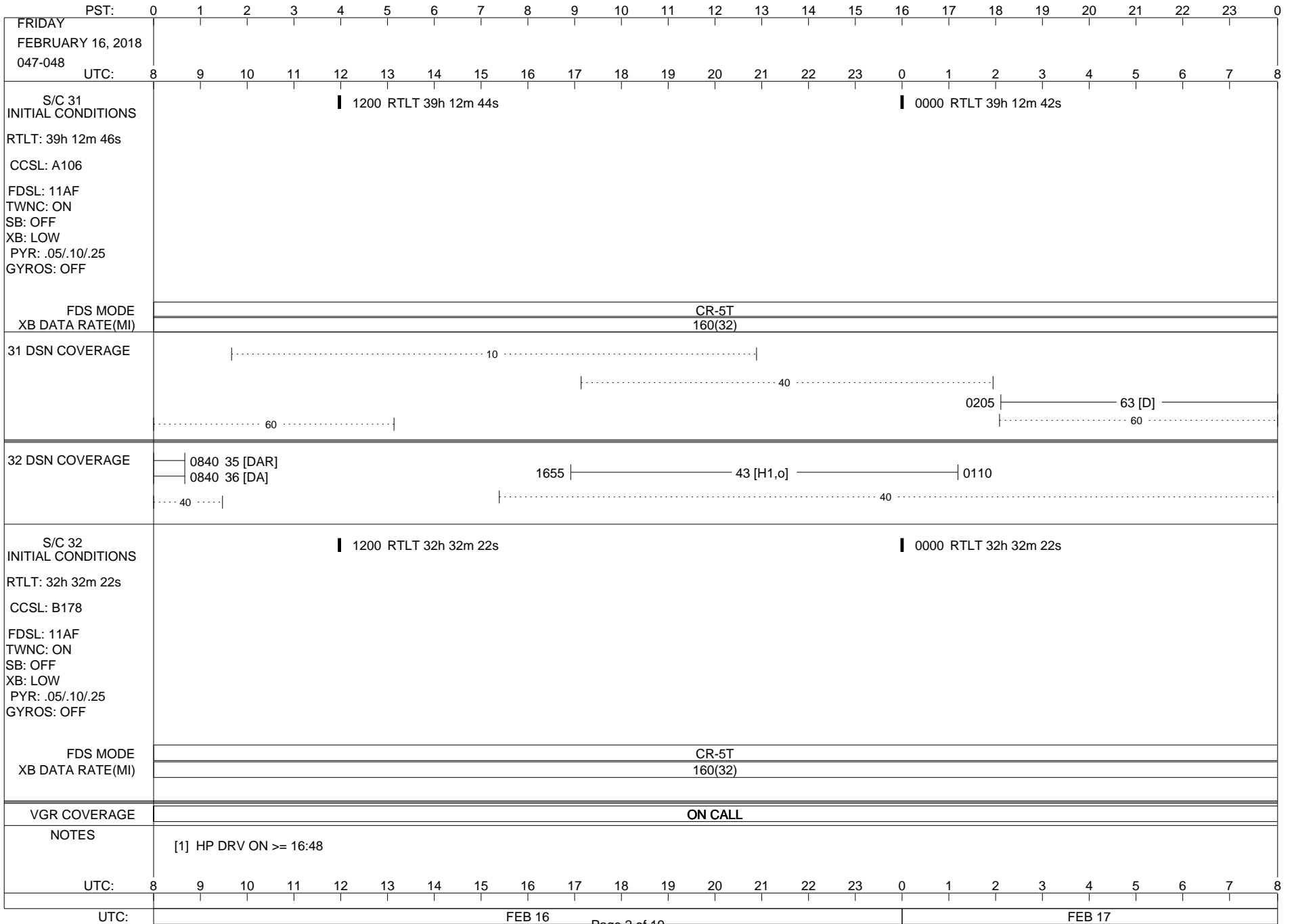
Posted at [http://voyager.jpl.nasa.gov/mission/soesfos/tracking\\_schedule.html](http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html)

02/27/17

ISSUE DATE: 02/14/18 10:31



ISSUE DATE: 02/14/18 10:31



ISSUE DATE: 02/14/18 10:31

PST: 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  
FEBRUARY 17, 2018  
048-049 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

S/C 31  
INITIAL CONDITIONS  
RTLTL: 39h 12m 42s  
CCSL: A106  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 39h 12m 40s

0000 RTLT 39h 12m 38s

0229 | - - - - | 0337 TAPPOS

0531 | 0532 PWS/RH

TAPPOS 0543 | - - - - | 0637

0531 GS-4B 0531 ↓ 0532

FDS MODE  
XB DATA RATE(MI)

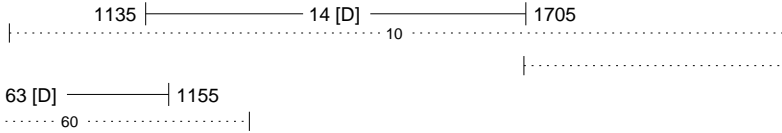
CR-5T

160(32)

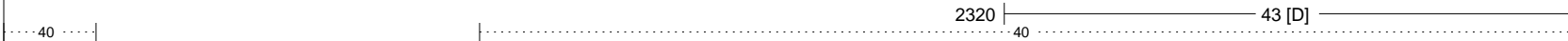
CR-5T

160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 32h 32m 22s  
CCSL: B178  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLT 32h 32m 22s

0000 RTLT 32h 32m 22s

FDS MODE  
XB DATA RATE(MI)

CR-5T

160(32)

VGR COVERAGE

ON CALL

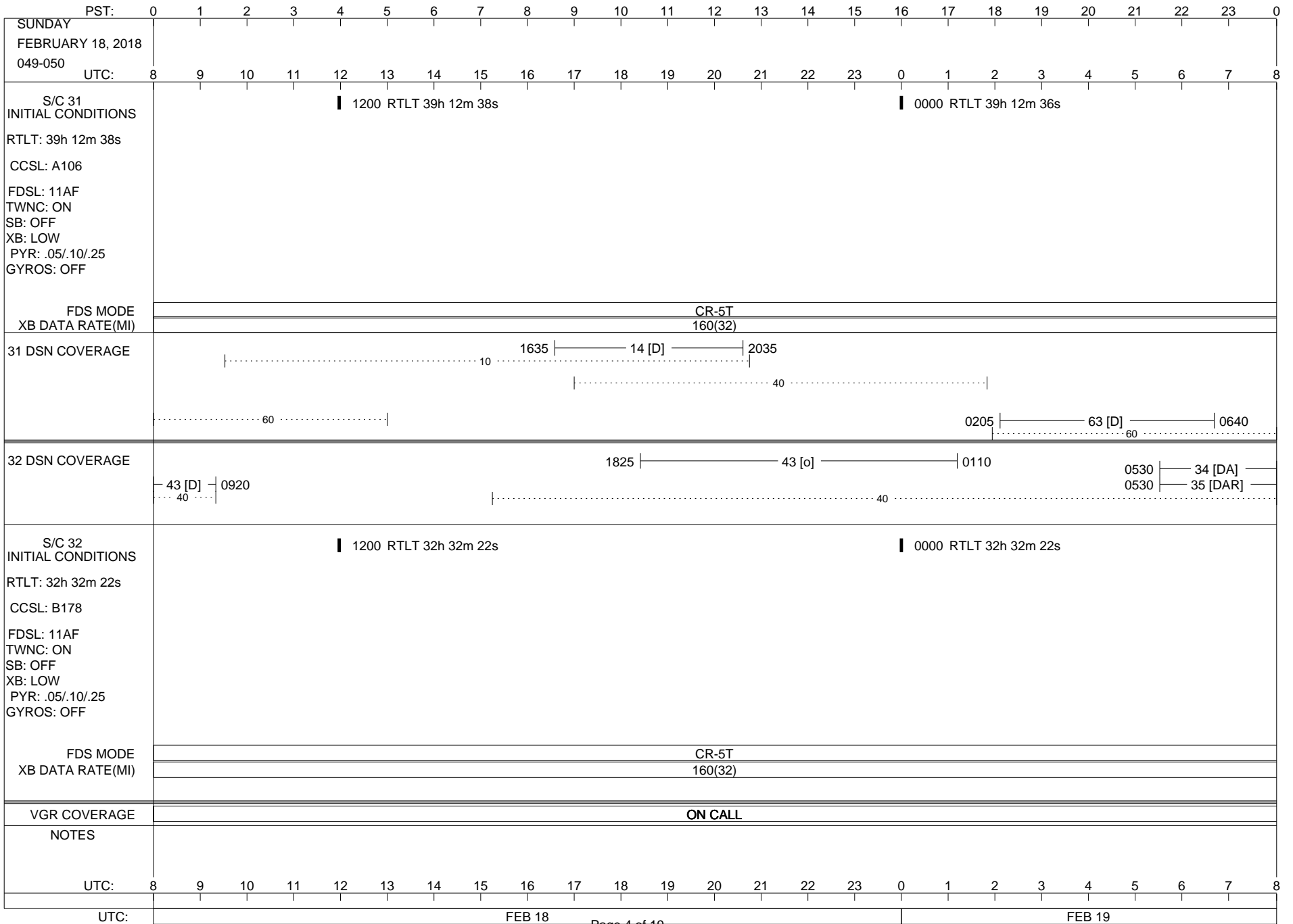
NOTES

[1] S/C 31=GS-4B @ 0531 XB=2.8K(41) NOT RECOVERABLE

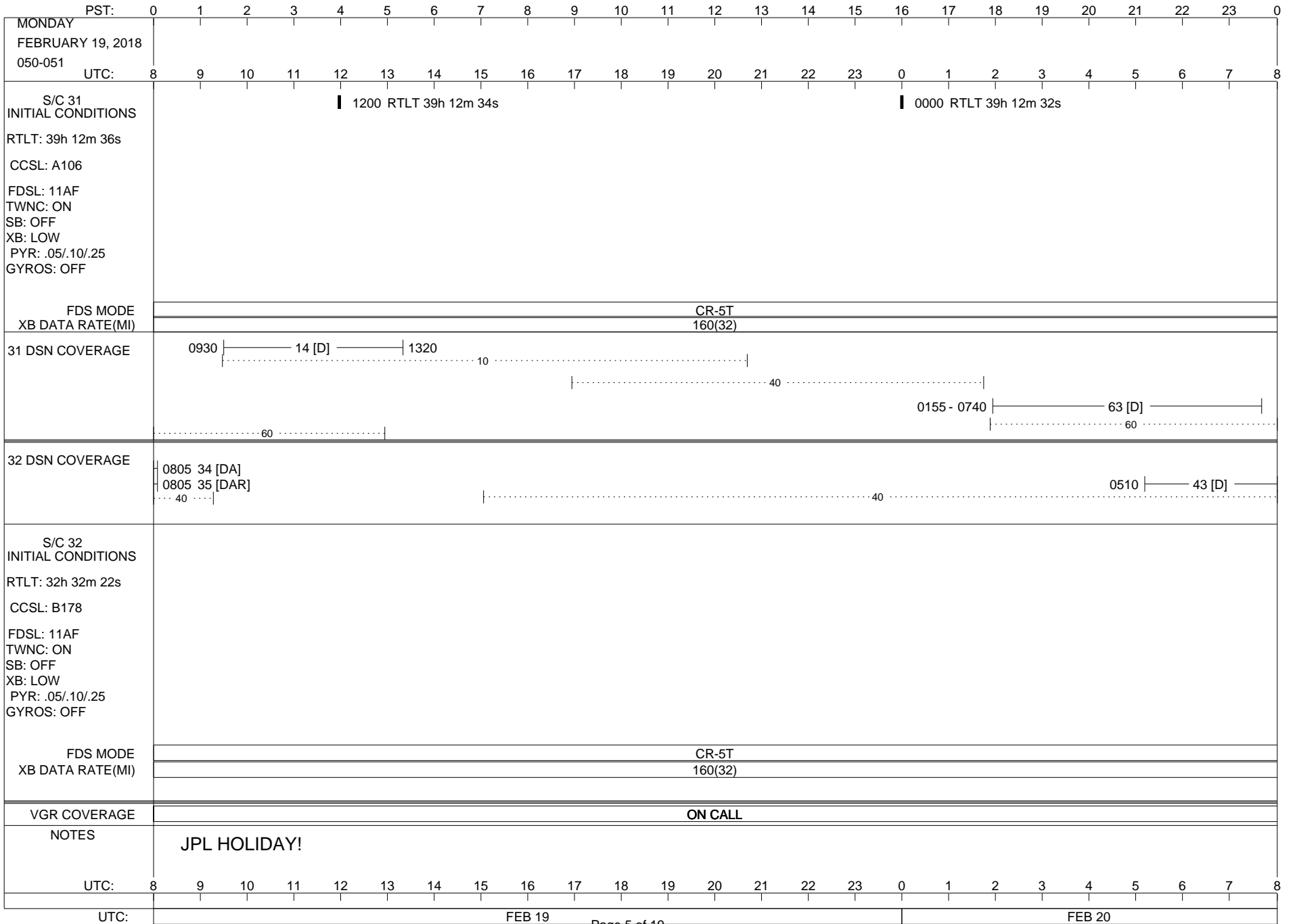
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8

UTC: FEB 17 Page 3 of 19 FEB 18

ISSUE DATE: 02/14/18 10:31



ISSUE DATE: 02/14/18 10:31



ISSUE DATE: 02/14/18 10:31

PST:	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 FEBRUARY 20, 2018 051-052																									
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
S/C 31 INITIAL CONDITIONS RTLT: 39h 12m 32s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 39h 12m 30s												█ 0000 RTLT 39h 12m 28s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	-----  10												-----  40												
	-----  60												0150 - 0745  -----  63 [T]  -----  60												
32 DSN COVERAGE	43 [D]  -----  0910												0205  -----  43 [D]  -----  0505												
	-----  40												-----  40												
S/C 32 INITIAL CONDITIONS RTLT: 32h 32m 22s CCSL: B178 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 32h 32m 22s												█ 0000 RTLT 32h 32m 22s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	ON CALL												VGR						ON CALL						
NOTES	[1] S/C 31=GS-4B @ 1954 XB=2.8K(41) NOT RECOVERABLE																								
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:	FEB 20												Page 6 of 19						FEB 21						

ISSUE DATE: 02/14/18 10:31

PST: 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  
FEBRUARY 21, 2018  
052-053

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

S/C 31  
INITIAL CONDITIONS  
RTLTL: 39h 12m 28s  
CCSL: A106  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 39h 12m 26s

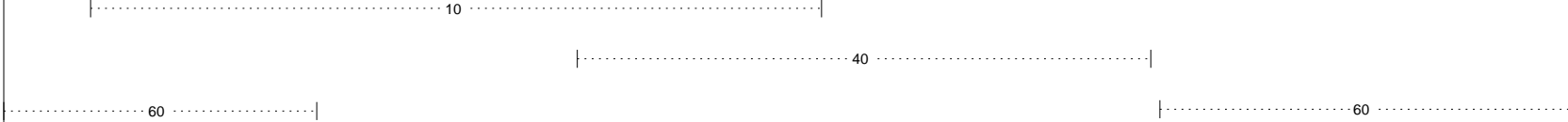
0000 RTLTL 39h 12m 24s

TLC (SHORT-FORM)

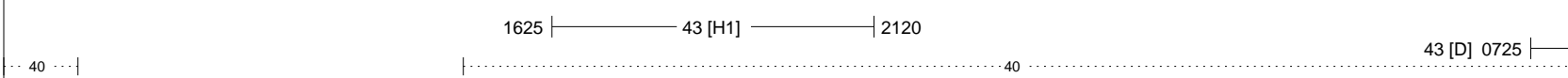
FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32  
INITIAL CONDITIONS  
RTLTL: 32h 32m 22s  
CCSL: B178  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF

1200 RTLTL 32h 32m 22s

0000 RTLTL 32h 32m 20s

- ▼ 1845 DUMMY (03:17)
- ▼ 1901 EL-40 (03:34)
- ▼ 1923 CCSL B179 (03:55)
- ▼ 2001 CR-5T (04:34)

FDS MODE  
XB DATA RATE(MI)

CR-5T  
160(32)

VGR COVERAGE

ON CALL

VGR

ON CALL

NOTES

[1] HP TXR >= 15:04

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

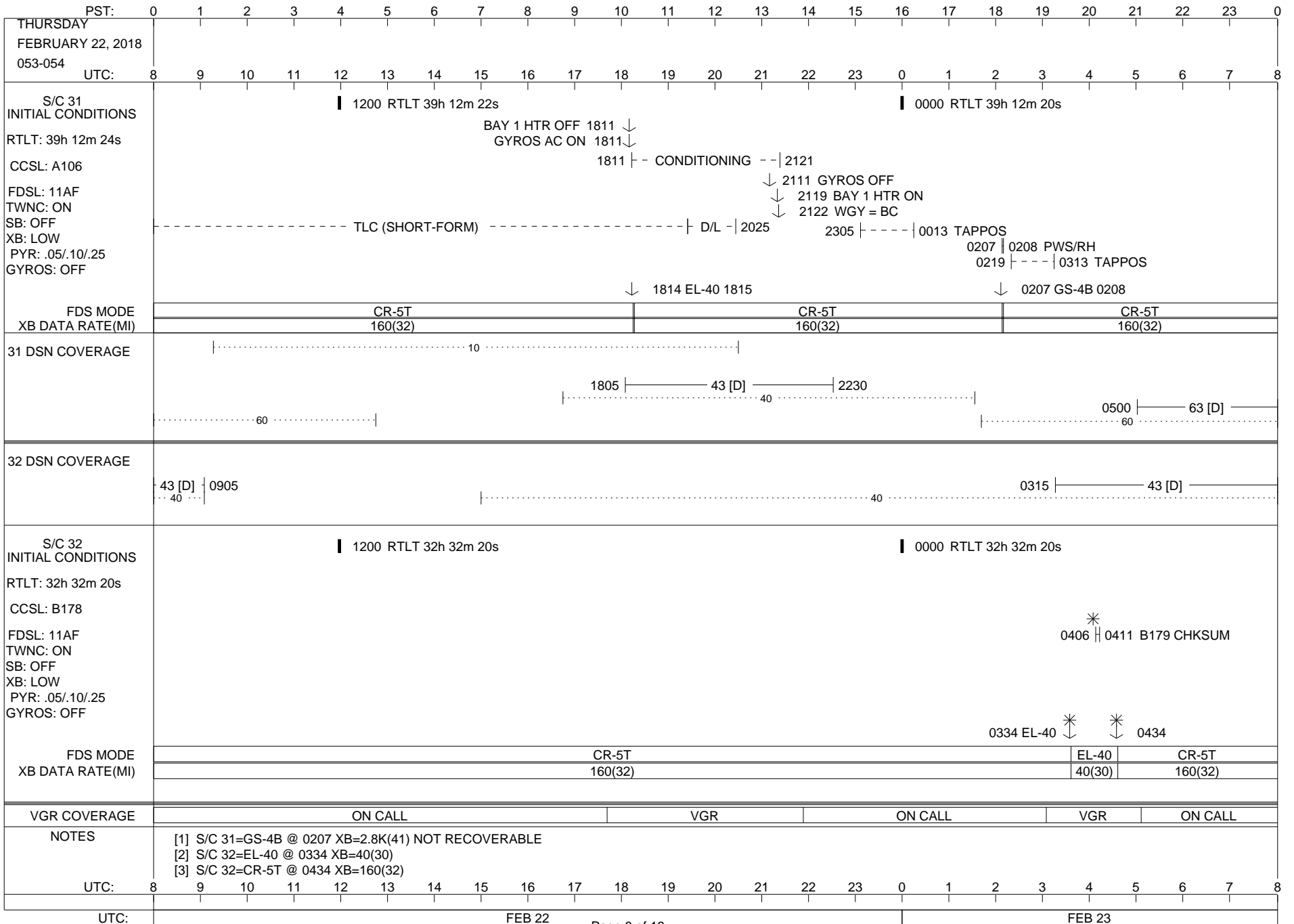
UTC:

FEB 21

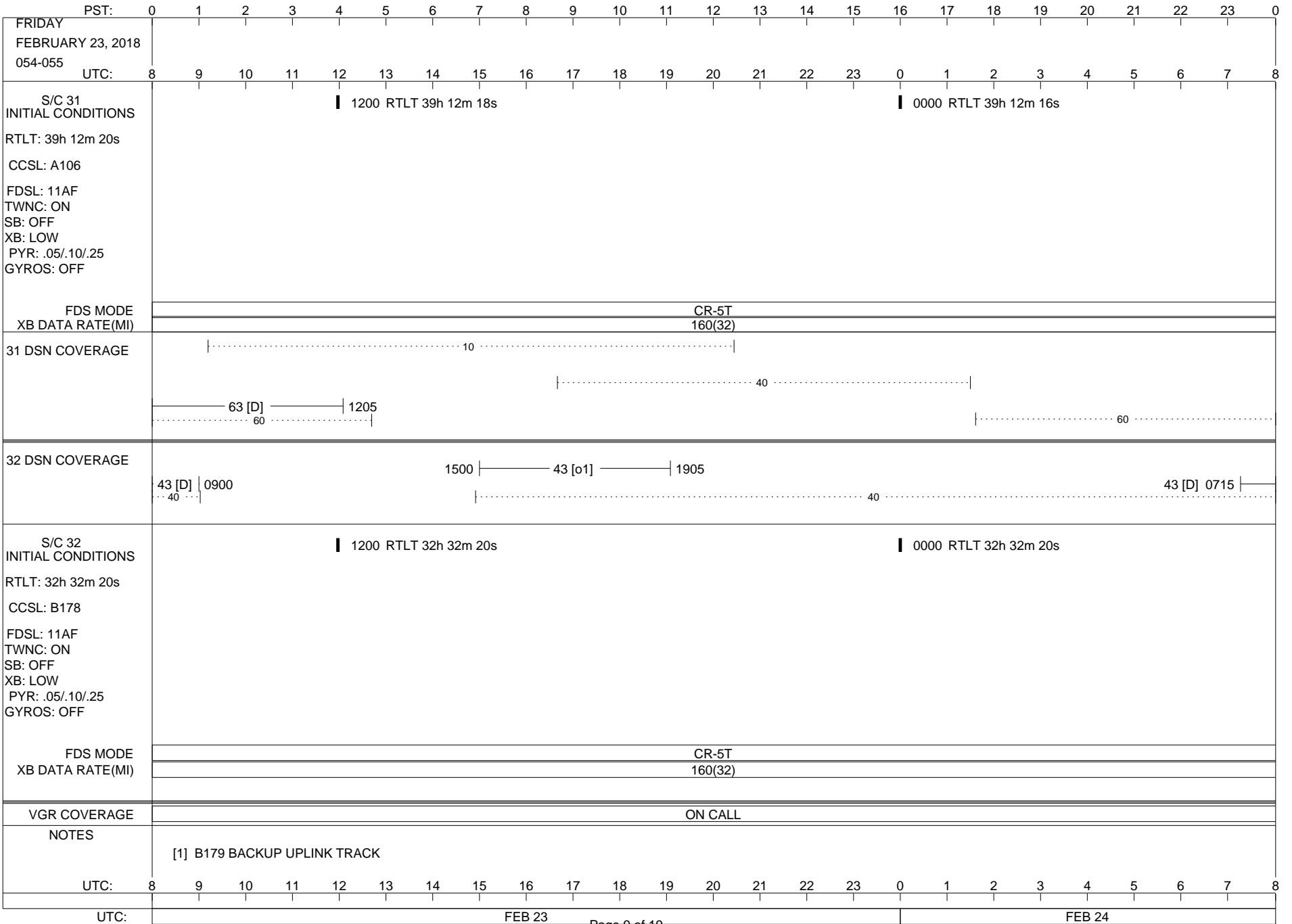
FEB 22



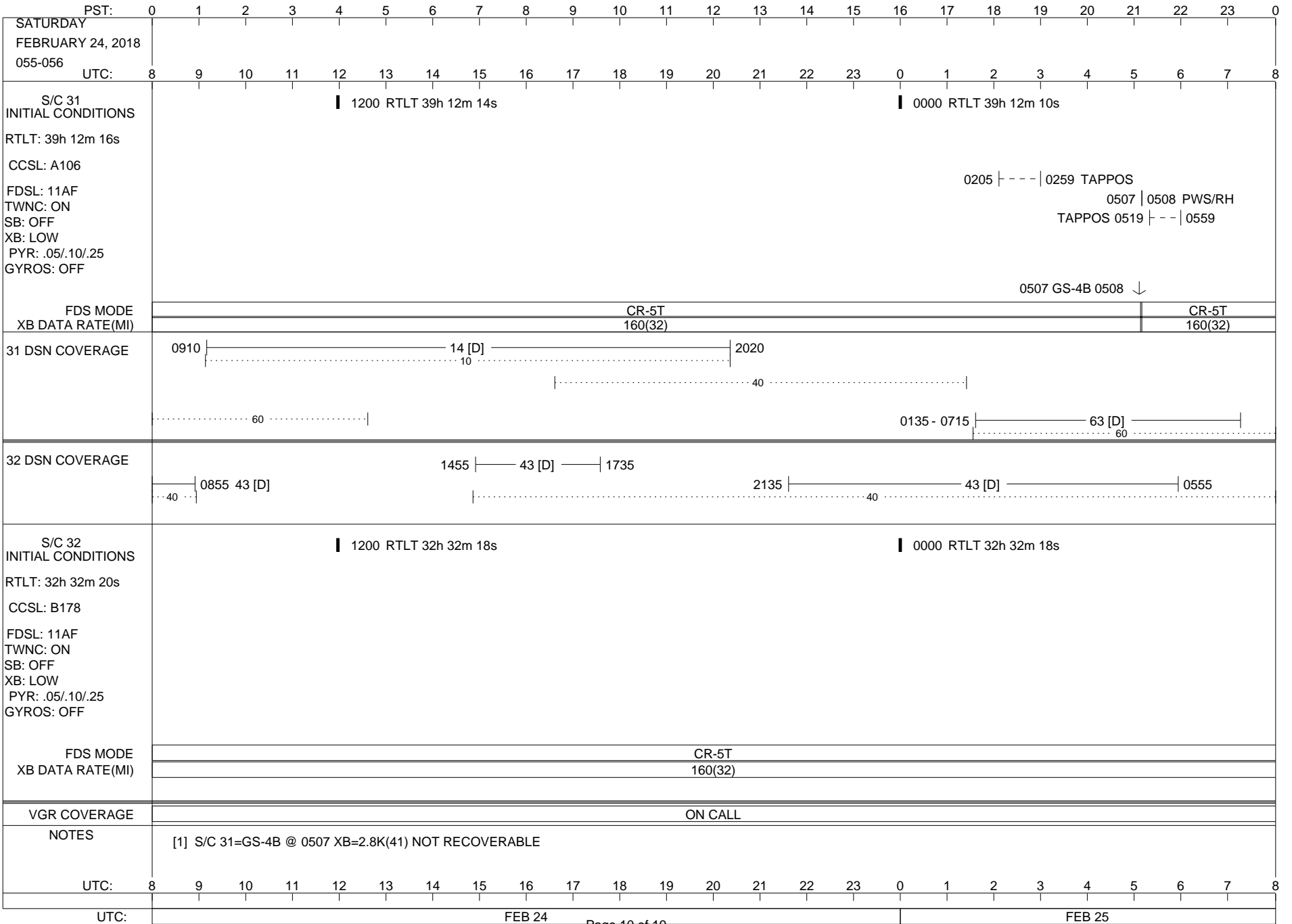
ISSUE DATE: 02/14/18 10:31



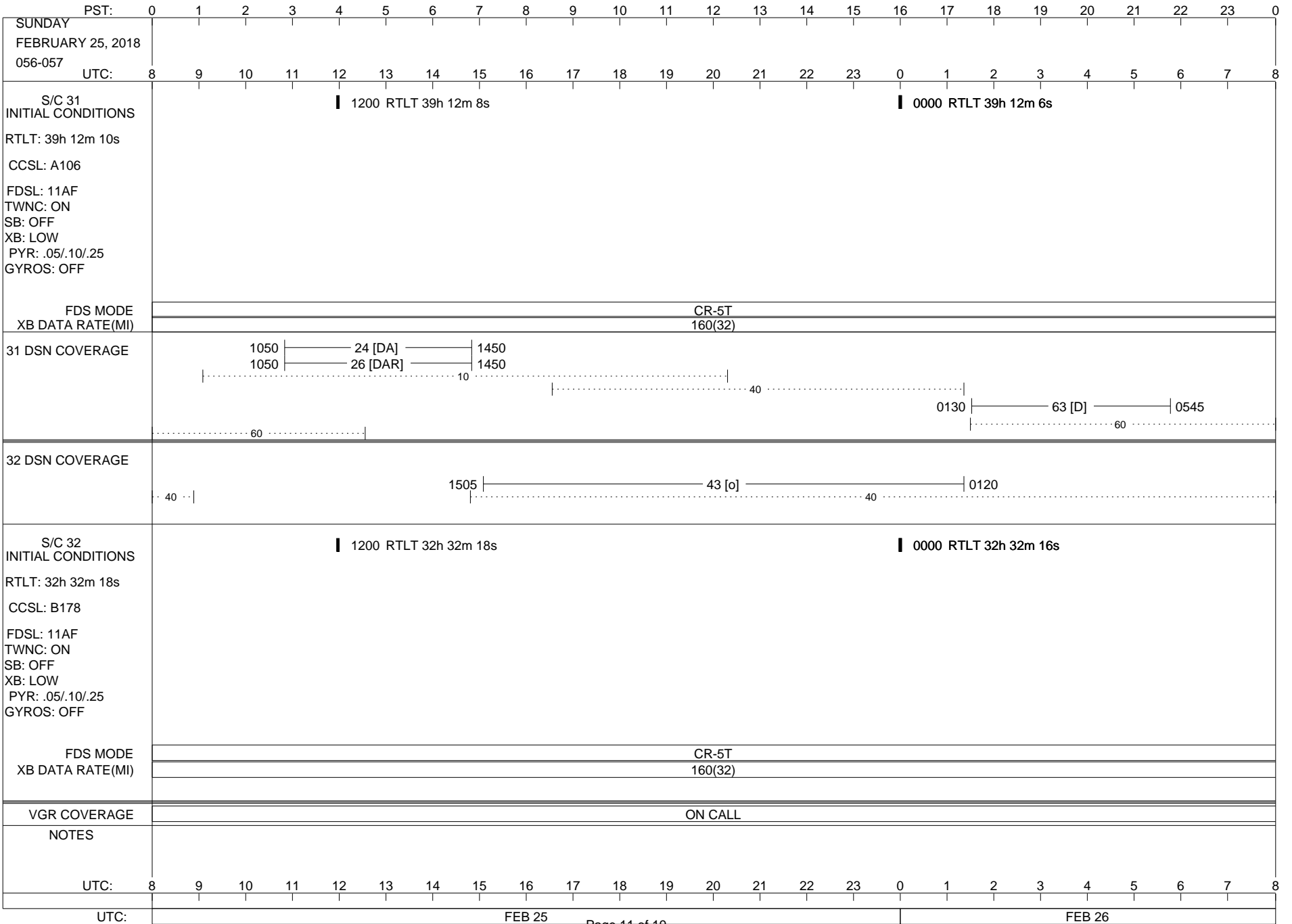
ISSUE DATE: 02/14/18 10:31



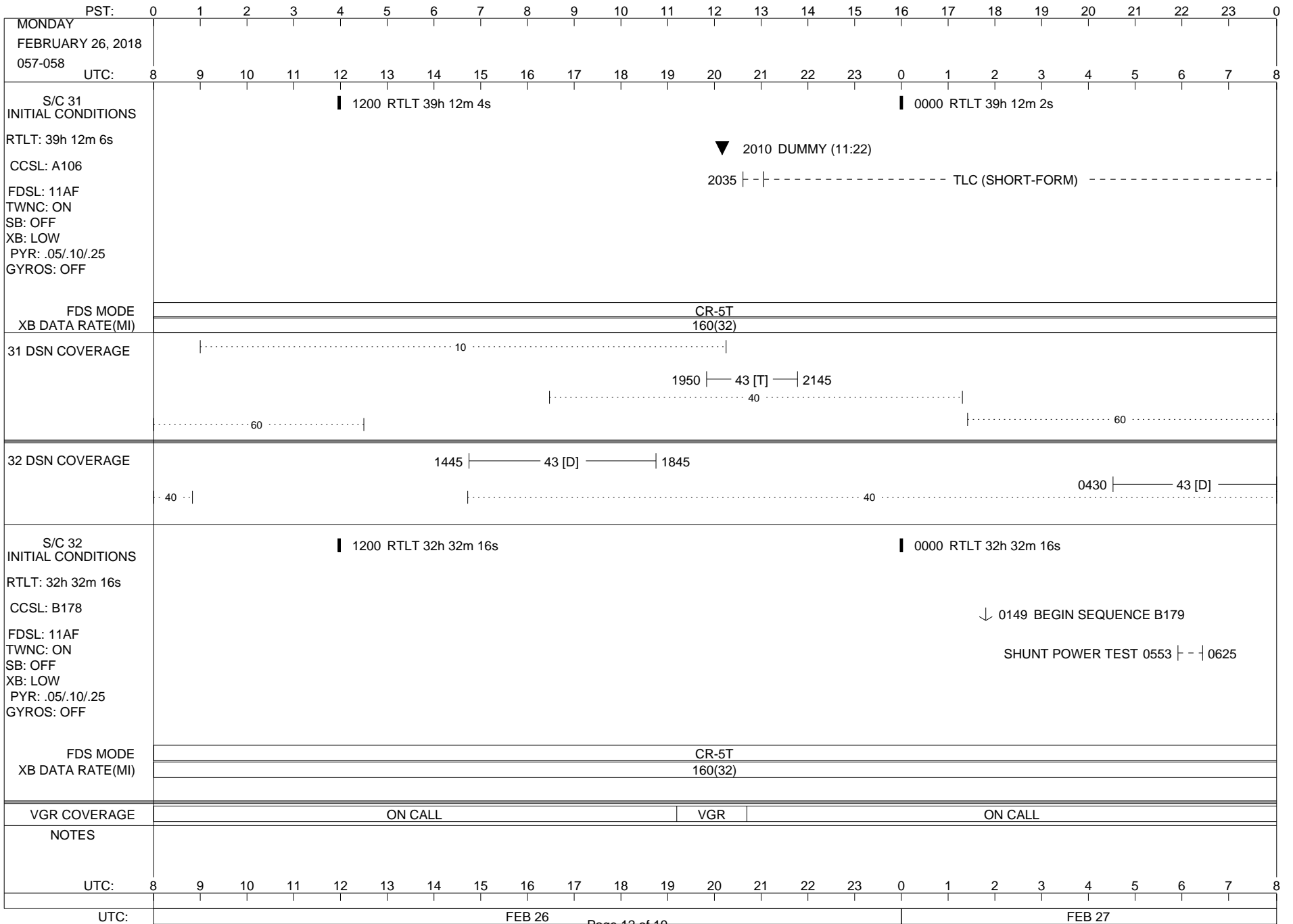
ISSUE DATE: 02/14/18 10:31



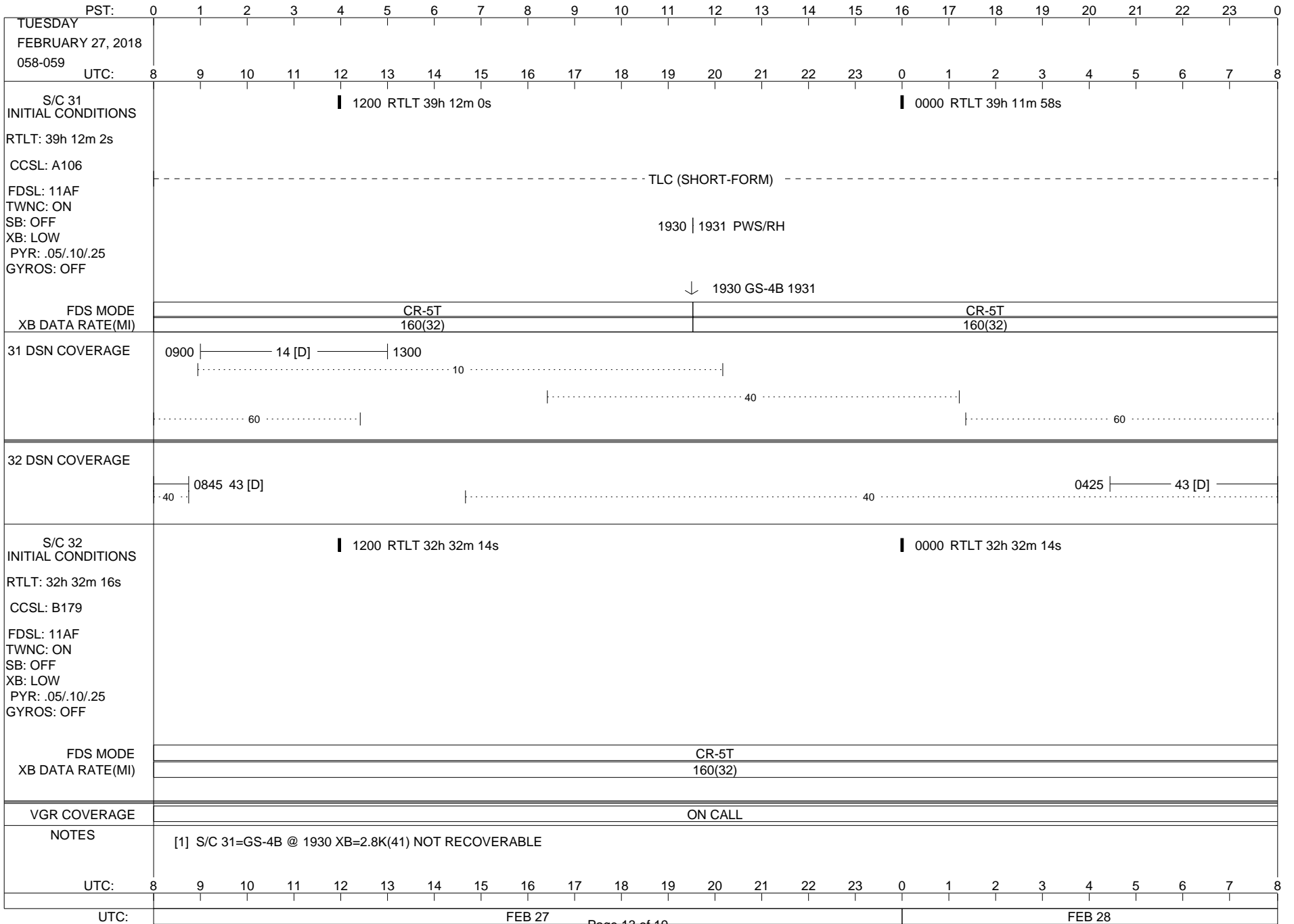
ISSUE DATE: 02/14/18 10:31



ISSUE DATE: 02/14/18 10:31



ISSUE DATE: 02/14/18 10:31



ISSUE DATE: 02/14/18 10:31

PST: 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  
FEBRUARY 28, 2018  
059-060 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

S/C 31  
INITIAL CONDITIONS  
RTLT: 39h 11m 58s  
CCSL: A106  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF  
1200 RTLT 39h 11m 56s  
0000 RTLT 39h 11m 54s  
--- TLC (SHORT-FORM) --- | D/L - | 1315  
1121 | --- MAGCAL --- | 1423  
1121 | --- PESCAL --- | 1441

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



S/C 32  
INITIAL CONDITIONS  
RTLT: 32h 32m 14s  
CCSL: B179  
FDSL: 11AF  
TWNC: ON  
SB: OFF  
XB: LOW  
PYR: .05/.10/.25  
GYROS: OFF  
1200 RTLT 32h 32m 12s  
0000 RTLT 32h 32m 12s

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

VGR COVERAGE ON CALL

NOTES

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: FEB 28 MAR 01

ISSUE DATE: 02/14/18 10:31

PST:	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 MARCH 1, 2018 060-061																												
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S/C 31 INITIAL CONDITIONS RTLT: 39h 11m 54s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 11m 52s														0000 RTLT 39h 11m 50s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	0850  ----- 14 [D] -----  1315  ----- 10 -----   ----- 40 -----   ----- 60 -----																											
32 DSN COVERAGE	40  ----- 40 -----   ----- 40 -----  0250  ----- 43 [o] -----																											
S/C 32 INITIAL CONDITIONS RTLT: 32h 32m 12s CCSL: B179 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 32m 10s														0000 RTLT 32h 32m 10s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
VGR COVERAGE	ON CALL																											
NOTES	[1] S/C 31=GS-4B @ 0142 XB=2.8K(41) NOT RECOVERABLE																											
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:	MAR 01														MAR 02													



ISSUE DATE: 02/14/18 10:31

	PST:	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 MARCH 2, 2018 061-062	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							
S/C 31 INITIAL CONDITIONS RTLT: 39h 11m 50s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 39h 11m 48s																											
FDS MODE XB DATA RATE(MI)																																	
31 DSN COVERAGE		0845	----- 14 [D] -----  1535																														
			----- 10 -----																														
			----- 40 -----																														
			----- 60 -----																														
32 DSN COVERAGE		0830 43 [o]																															
		40																															
S/C 32 INITIAL CONDITIONS RTLT: 32h 32m 10s CCSL: B179 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF						█ 1200 RTLT 32h 32m 8s																											
FDS MODE XB DATA RATE(MI)																																	
VGR COVERAGE																																	
NOTES																																	
	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:	MAR 02											MAR 03																				

ISSUE DATE: 02/14/18 10:31

PST:	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 MARCH 3, 2018 062-063	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
S/C 31 INITIAL CONDITIONS RTLTL: 39h 11m 46s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 39h 11m 44s												0000 RTLTL 39h 11m 40s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	0950  -----  14 [D]  -----  1515  -----  10  -----   -----  60  -----												40  -----  0300 - 0715  -----  65 [DAR]  -----   -----  40  -----  0300 - 0715  -----  54 [DA]  -----   -----  60  -----												
32 DSN COVERAGE	0830 43 [D]  -----  1425  -----  43 [D]  -----  2205 40  -----  40  -----												0310  -----  43 [D]  -----												
S/C 32 INITIAL CONDITIONS RTLTL: 32h 32m 8s CCSL: B179 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 32h 32m 6s												0000 RTLTL 32h 32m 6s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0442 XB=2.8K(41) NOT RECOVERABLE																								
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:	MAR 03												MAR 04												

ISSUE DATE: 02/14/18 10:31

PST:	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
SUNDAY MARCH 4, 2018 063-064	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
S/C 31 INITIAL CONDITIONS RTLT: 39h 11m 40s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 11m 38s												0000 RTLT 39h 11m 36s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	-----10-----												-----40-----												
	-----60-----												-----60-----												
32 DSN COVERAGE	-----1425-----43 [D]-----1725-----												-----0230-----43 [D]-----												
S/C 32 INITIAL CONDITIONS RTLT: 32h 32m 6s CCSL: B179 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 32m 4s												0000 RTLT 32h 32m 2s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL																								
NOTES																									
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:	MAR 04												MAR 05												

ISSUE DATE: 02/14/18 10:31

PST:	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		
MONDAY MARCH 5, 2018 064-065																											
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		
S/C 31 INITIAL CONDITIONS RTLT: 39h 11m 36s CCSL: A106 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;">  1200 RTLT 39h 11m 34s         </div>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> </div> <div style="text-align: center; margin-top: 10px;"> </div> <div style="text-align: center; margin-top: 10px;"> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> </div> <div style="text-align: center; margin-top: 10px;"> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 32m 2s CCSL: B179 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;">  1200 RTLT 32h 32m 2s         </div>																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
VGR COVERAGE	ON CALL																										
NOTES																											
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:	MAR 05													MAR 06													