

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: May 16, 2018

For the Period: 05/17/18 to 06/04/18 (18/137 – 18/155)

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

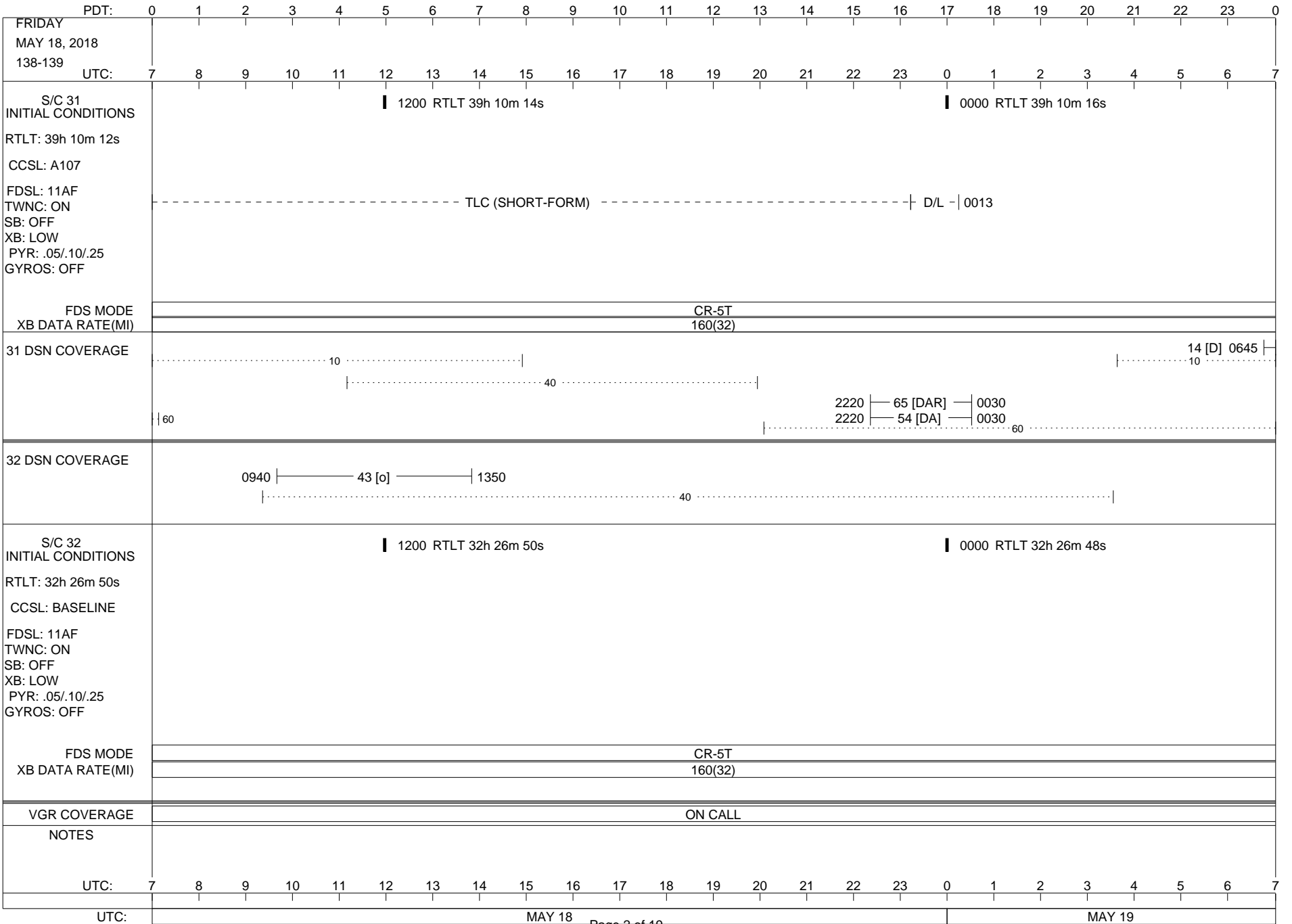
Posted at http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html

02/27/17

ISSUE DATE: 05/22/18 12:23

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THURSDAY MAY 17, 2018 137-138																												
S/C 31 INITIAL CONDITIONS	1200 RTLT 39h 10m 10s														0000 RTLT 39h 10m 12s													
RTLT: 39h 10m 6s	-- 0700 - 0738 SHUNT POWER TEST																											
CCSL: A107	▼ 0710 DUMMY (22:20)																											
FDSL: 11AF	U/L 0735 -																											
TWNC: ON	----- TLC (SHORT-FORM) -----																											
SB: OFF	1816 1842 TAPPOS																											
XB: LOW	2118 2119 PWS/RH																											
PYR: .05/.10/.25	2130 2142 TAPPOS																											
GYROS: OFF	↓ 2119 GS-4B 2119																											
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	14 [T] 0805														0430 - 0655 14 [D]													
													
	60														60													
32 DSN COVERAGE	0930 43 [D] 1330														0130 43 [D] 0335													
													
S/C 32 INITIAL CONDITIONS	1200 RTLT 32h 26m 52s														0000 RTLT 32h 26m 50s													
RTLT: 32h 26m 52s																												
CCSL: BASELINE																												
FDSL: 11AF																												
TWNC: ON																												
SB: OFF																												
XB: LOW																												
PYR: .05/.10/.25																												
GYROS: OFF																												
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
VGR COVERAGE	VGR														ON CALL													
NOTES	[1] S/C 31=GS-4B @ 2118 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			
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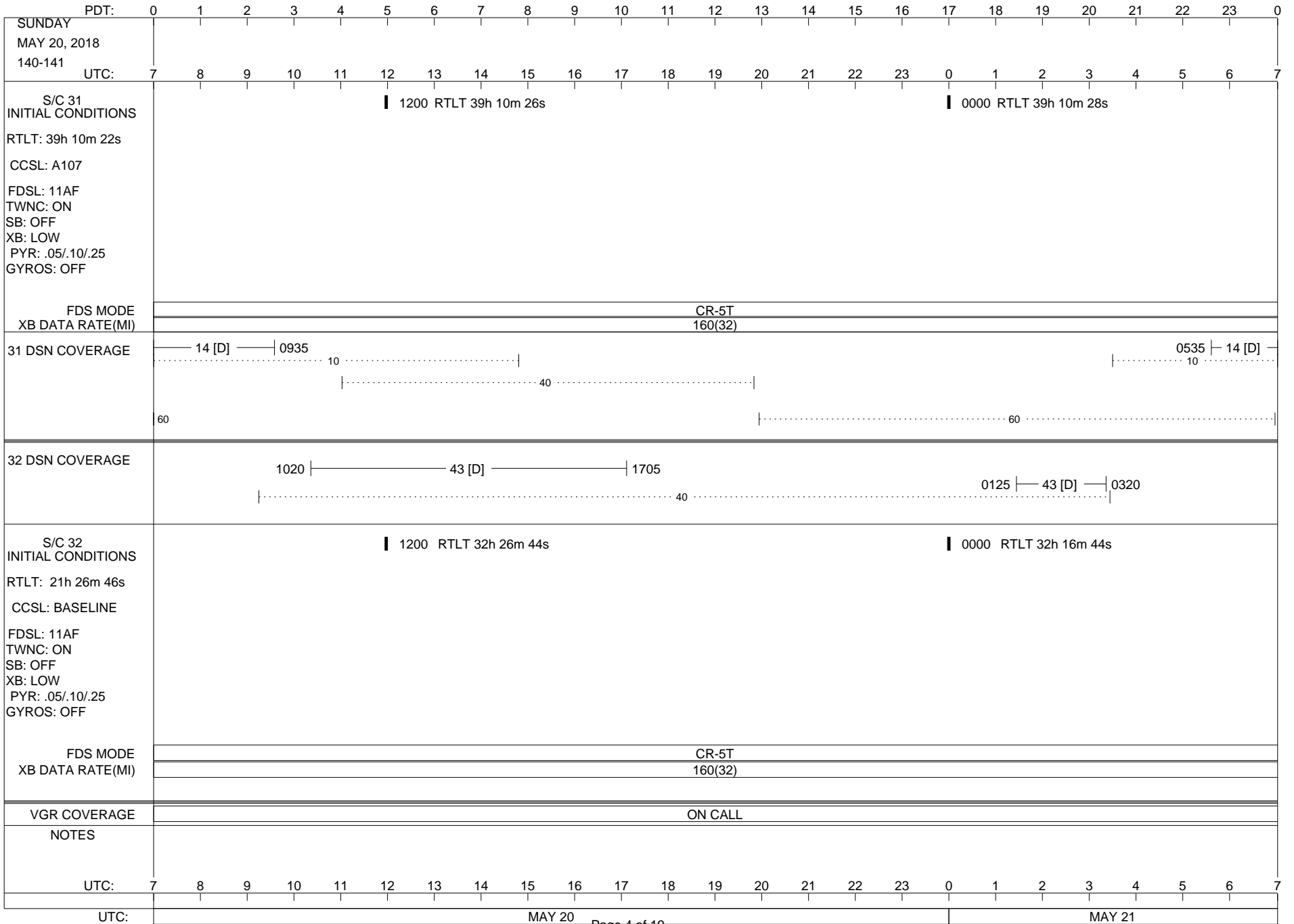
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ISSUE DATE: 05/22/18 12:23

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SATURDAY MAY 19, 2018 139-140	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 10m 16s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 10m 20s												0000 RTLT 39h 10m 22s													
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE	14 [D] 1055										0335 14 [D]															
32 DSN COVERAGE	2110 43 [D] 0325																									
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 48s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 46s												0000 RTLT 32h 26m 46s													
FDS MODE	CR-5T																									
XB DATA RATE(MI)	160(32)																									
VGR COVERAGE	ON CALL																									
NOTES	[1] S/C 31=GS-4B @ 0018 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 19													MAY 20												

ISSUE DATE: 05/22/18 12:23



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MONDAY MAY 21, 2018 141-142																										
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 10m 28s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 10m 30s												0000 RTLT 39h 10m 34s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
31 DSN COVERAGE	14 [D] 0935												10 40 60 10													
32 DSN COVERAGE	0940 43 [H] 1310												40													
S/C 32 INITIAL CONDITIONS RTLT: 32h 16m 44s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 42s												0045 RTLT 32h 26m 42s													
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)													
VGR COVERAGE	ON CALL				VGR				ON CALL																	
NOTES													▼ 1110 DUMMY (19:37) ▼ 1139 CCSTIM F/C (20:06) ↓ 0146 BEGIN SEQUENCE B180													
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 21												MAY 22													

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 22, 2018 142-143	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 10m 34s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 10m 36s												0000 RTLT 39h 10m 40s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	0825 ----- 14 [T] ----- 1435												0300 ----- 0400 14 [D2] 14 [D] 0630 -----												
32 DSN COVERAGE	1840 ----- 43 [D] ----- 2340																								
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 42s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 40s												0000 RTLT 32h 26m 40s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	VGR ON CALL												VGR ON CALL												
NOTES	[1] S/C 31=GS-4B @ 1441 XB=2.8K(41) NOT RECOVERABLE [2] S/C 31 DSS-14 ECC TESTING																								
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 22												MAY 23												

ISSUE DATE: 05/22/18 12:23

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WEDNESDAY MAY 23, 2018 143-144																												
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 10m 40s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 10m 42s												0000 RTLT 39h 10m 46s															
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)															
31 DSN COVERAGE	14 [D] 1040												2140 55 [DA] 0140 2140 54 [DAR] 0140															
32 DSN COVERAGE	0905 43 [D] 1215												0115 43 [D] 0310															
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 40s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 40s												0000 RTLT 32h 26m 38s															
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			
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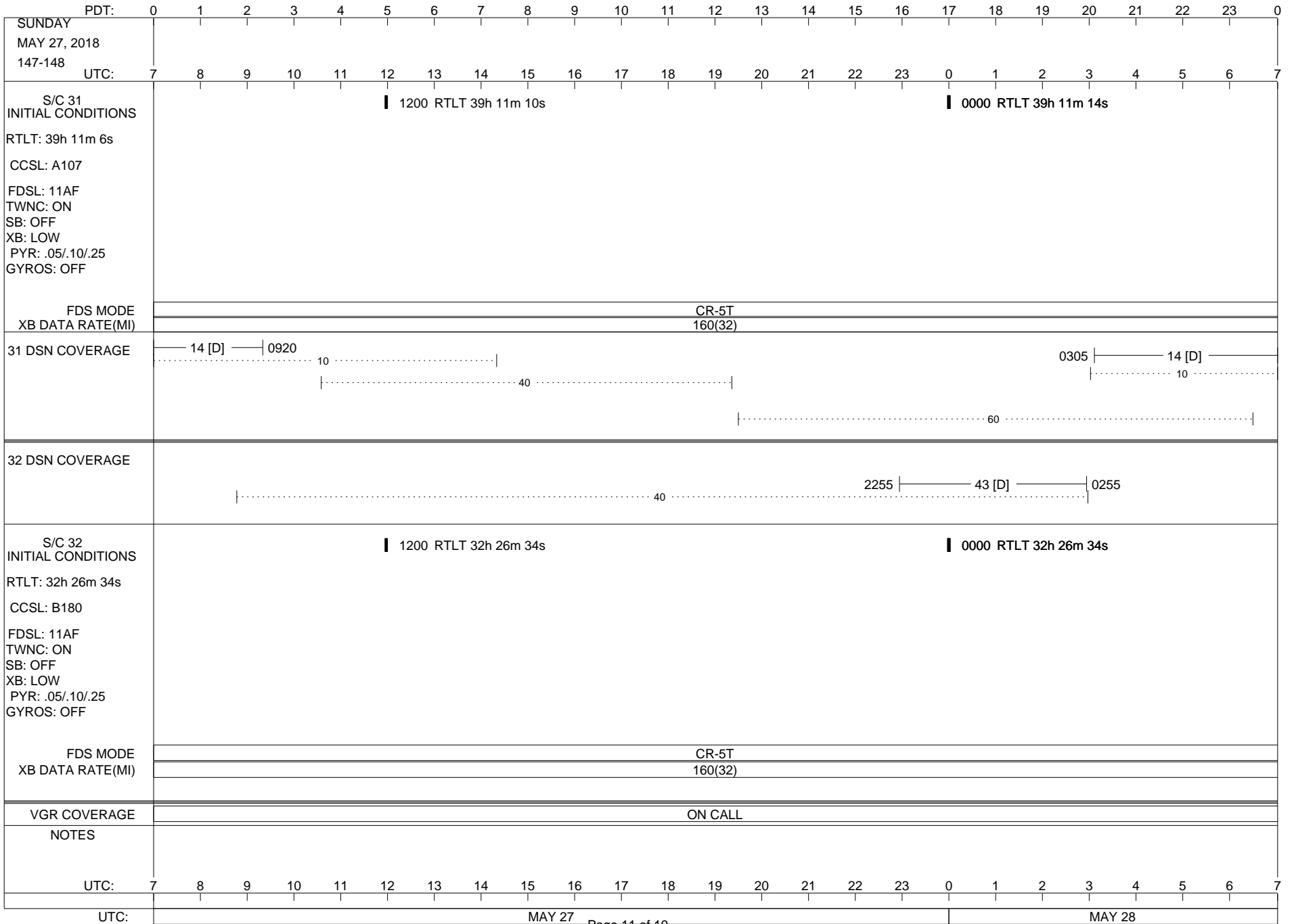
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THURSDAY MAY 24, 2018 144-145																												
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S/C 31 INITIAL CONDITIONS RTLT: 39h 10m 46s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 10m 50s												0000 RTLT 39h 10m 52s															
FDS MODE	CR-5T												CR-5T															
XB DATA RATE(MI)	160(32)												160(32)															
31 DSN COVERAGE																	
40.....										2140 ----- 65 [DAR] ----- 0140 2140 ----- 54 [DA] ----- 0140 60.....																	
32 DSN COVERAGE	0950 ----- 34 [DA] ----- 1340 0950 ----- 36 [DAR] ----- 1340 40.....																											
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 38s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 38s												0000 RTLT 32h 26m 36s															
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 @ 2054 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			
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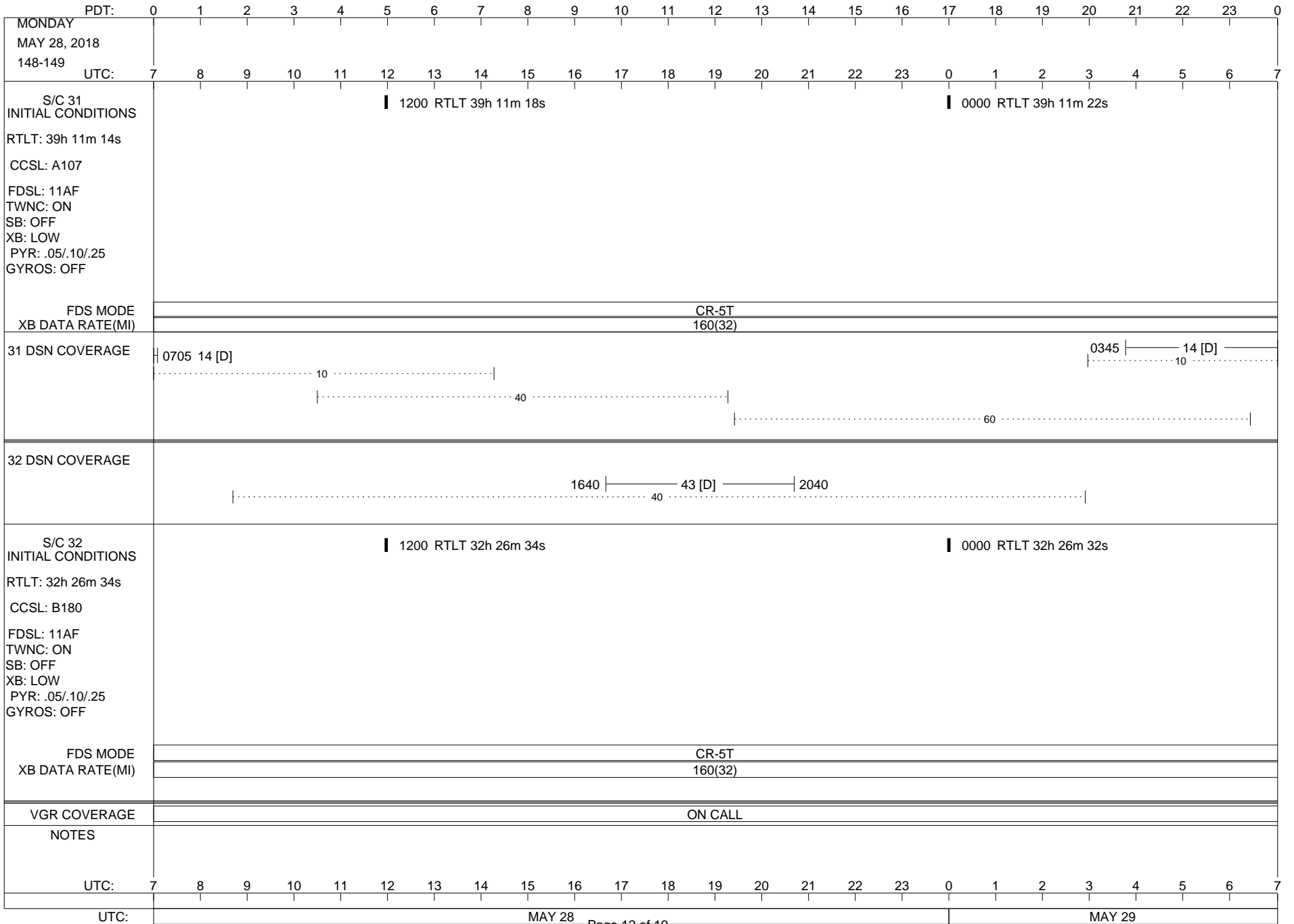
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S/C 31 INITIAL CONDITIONS RTLT: 39h 10m 52s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 10m 56s												0000 RTLT 39h 11m 0s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
31 DSN COVERAGE 10 40 0445 14 [D] 10					
32 DSN COVERAGE	0855 43 [o] 1255			 40										0110 43 [D] 0305											
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 36s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 36s												0000 RTLT 32h 26m 36s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													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 25													MAY 26												

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 26, 2018 146-147	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 11m 0s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 11m 2s												0000 RTLT 39h 11m 6s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	14 [D] 0910										0310 14 [D]														
32 DSN COVERAGE	1920 43 [D] 0205																								
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 36s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 36s												0000 RTLT 32h 26m 34s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 2354 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 26												MAY 27												



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TUESDAY MAY 29, 2018 149-150	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 11m 22s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 11m 24s												0000 RTLT 39h 11m 28s												
	1417 1418 PWS/RH												1429 ----- DTR MAINT ----- 1953												
	↓ 1417 GS-4B 1418												1957 --- TAPPOS --- 2232												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE	14 [D] 0840										0415 14 [D]														
														
														
														
32 DSN COVERAGE	1545 43 [D]										1945														
														
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 32s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 32s												0000 RTLT 32h 26m 32s												
	1546 PLSCAL - 1728												1546 --- MAGCAL --- 1848												
	1546 --- PESCAL ---- 1906												↓ 1603 BAY 1 HTR OFF												
	↓ 1603 GYROS AC ON												1603 ----- 1903 AC GYRO CONDITIONING												
	↓ 1606 EL-40 1606												↓ 1903 GYROS OFF												
													↓ 1911 BAY 1 HTR ON												
													↓ 1915 WGY = BC												
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 @ 1417 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
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ISSUE DATE: 05/22/18 12:23

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 30, 2018 150-151																									
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 11m 28s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 11m 32s												0000 RTLT 39h 11m 36s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	14 [D] 095040..... 60.....											10.....												
32 DSN COVERAGE	1040 43 [D] 144040.....																								
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 32s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 32s												0000 RTLT 32h 26m 32s												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL						VGR						ON CALL												
NOTES	1321 1327 AACs 6 MIN FULMRO REPLAY FROM 2017 DOY 353 1306 EL-40 ↓ ↓ 1329 CR-5T																								
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UTC:	MAY 30												MAY 31												

ISSUE DATE: 05/22/18 12:23

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 31, 2018
151-152 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 11m 36s
CCSL: A107
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF
1200 RTLT 39h 11m 40s
0000 RTLT 39h 11m 44s
▼ 1220 DUMMY (03:32)
U/L 1245 | - | TLC (SHORT-FORM)
1729 | - - - - | 1825 TAPPOS
2031 | 2032 PWS/RH
2042 | - - - - | 2153 TAPPOS
↓ 2030 GS-4B 2032

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

31 DSN COVERAGE 0745 | 14 [T] | 1345 0245 | 14 [D] |
|..... 10| |..... 10|
|..... 40| |..... 60|

32 DSN COVERAGE 0840 | 43 [D] | 1245 0055 | 43 [D] | 0240
|..... 40| |..... 40|

S/C 32
INITIAL CONDITIONS
RTLT: 32h 26m 32s
CCSL: B180
FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF
1200 RTLT 32h 26m 32s
0000 RTLT 32h 26m 32s

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

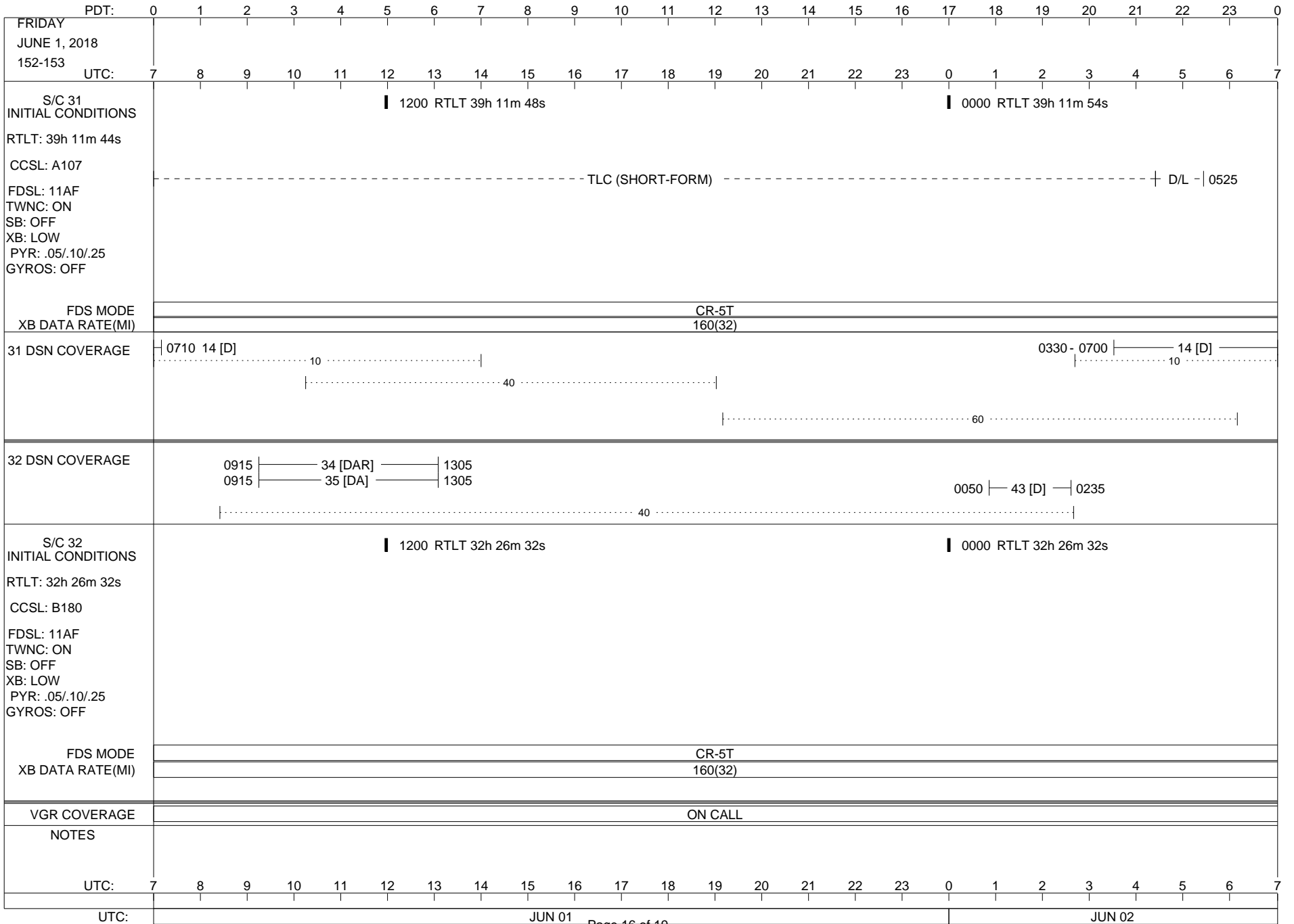
VGR COVERAGE ON CALL VGR ON CALL

NOTES [1] S/C 31=GS-4B @ 2030 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 31 Page 15 of 19 JUN 01

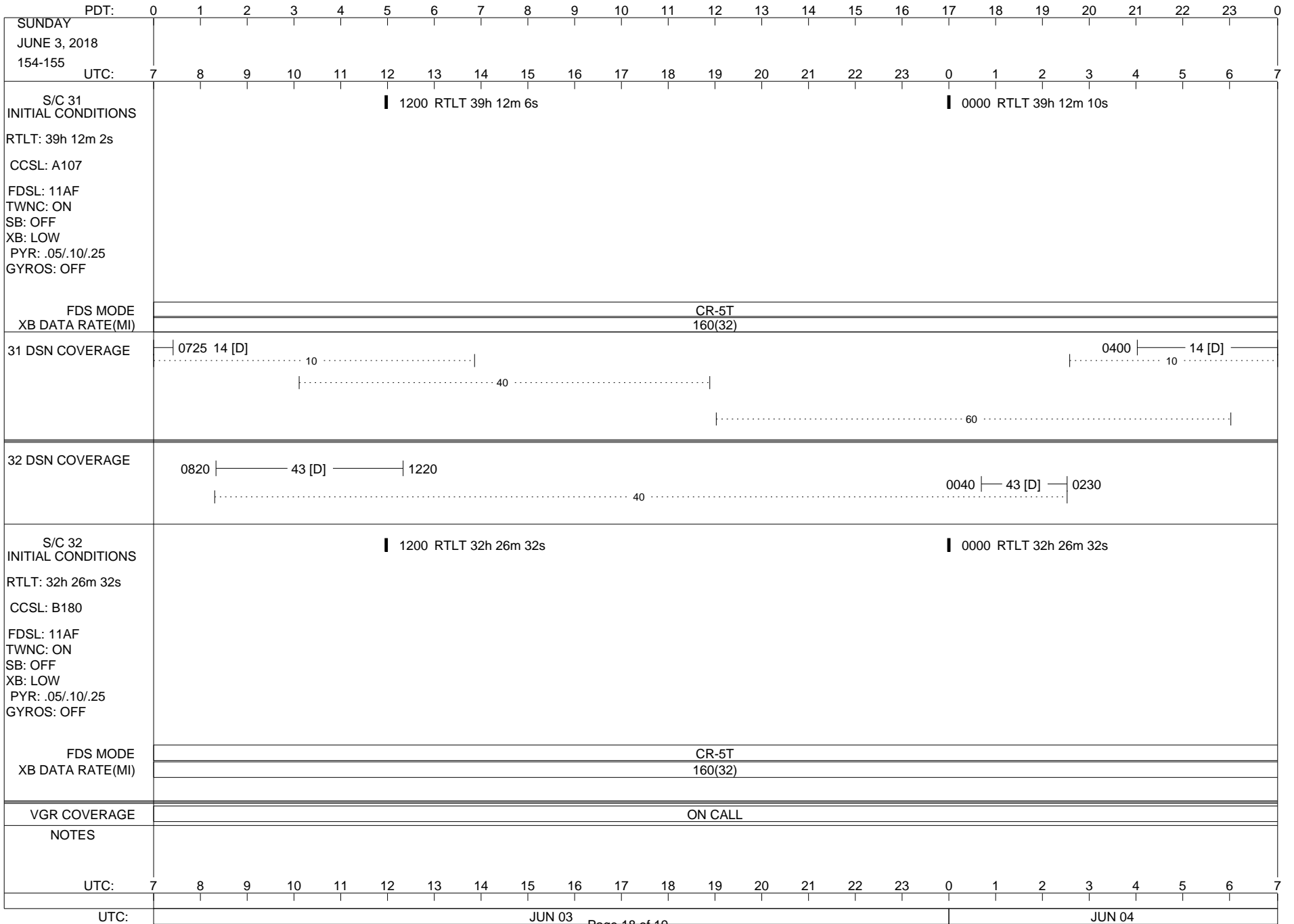
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ISSUE DATE: 05/22/18 12:23

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SATURDAY JUNE 2, 2018 153-154	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 11m 54s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 39h 11m 58s												0000 RTLT 39h 12m 2s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	0700 14 [D]40..... 60.....												0230 14 [D]10.....												
32 DSN COVERAGE	0825 43 [D] 1225 40.....												0015 43 [o] 0230 												
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 32s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 32h 26m 32s												0000 RTLT 32h 26m 32s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 2331 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:	JUN 02												JUN 03												

ISSUE DATE: 05/22/18 12:23



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		
MONDAY JUNE 4, 2018 155-156																											
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 12m 10s CCSL: A107 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 39h 12m 16s																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														160(32)													
31 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> 14 [D] 0825 10 </div> <hr style="border-top: 1px dotted black;"/> <div style="display: flex; justify-content: space-between;"> 40 </div>																										
32 DSN COVERAGE	<div style="display: flex; justify-content: space-between;"> 0815 43 [D] 1215 </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 32h 26m 32s CCSL: B180 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 32h 26m 32s																										
FDS MODE														CR-5T													
XB DATA RATE(MI)														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:	JUN 04													JUN 05													