

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 5, 2018

For the Period: 12/06/18 to 12/24/18 (18/340 – 18/358)

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

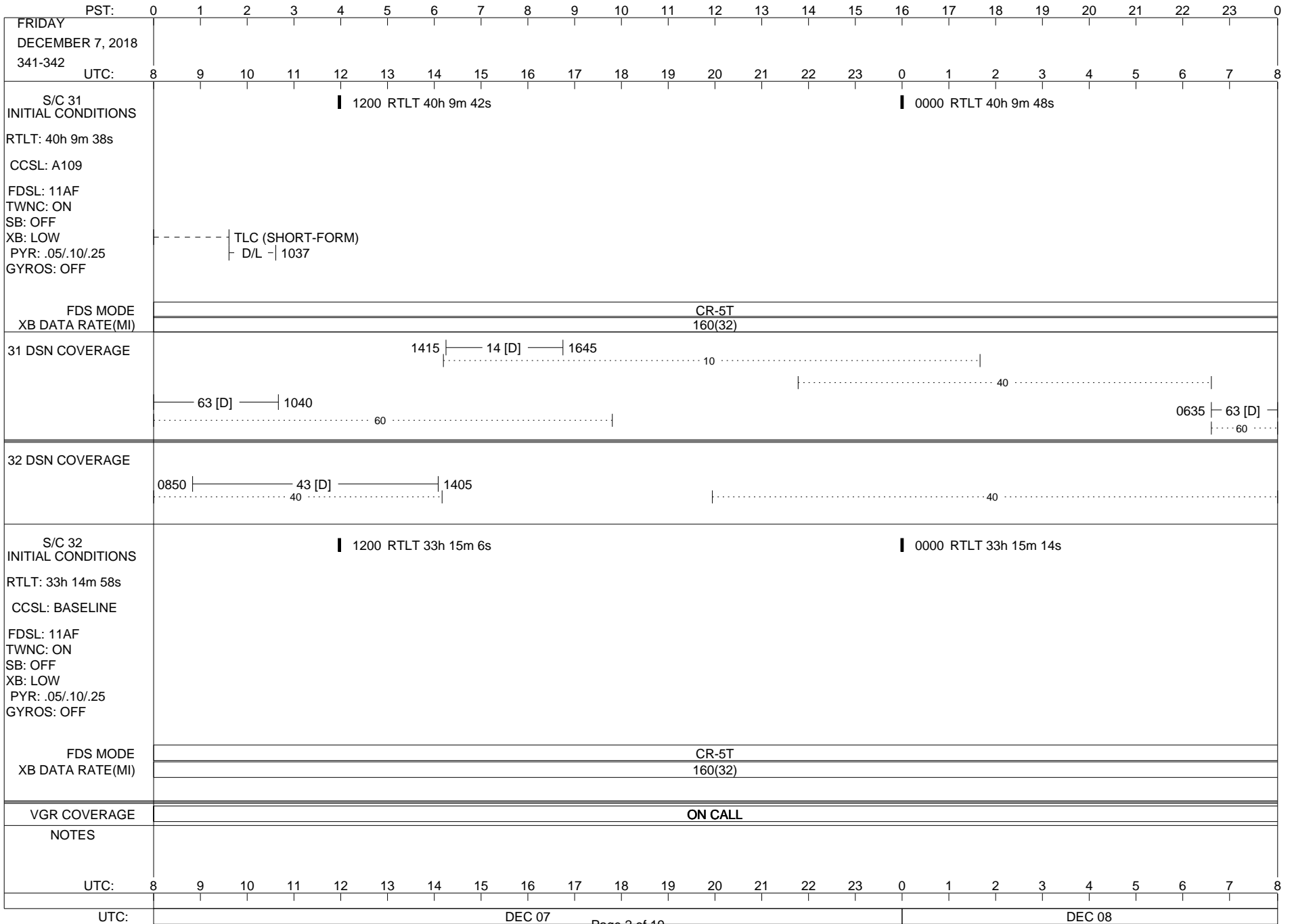
Posted at http://voyager.jpl.nasa.gov/mission/soesfos/tracking_schedule.html

02/27/17

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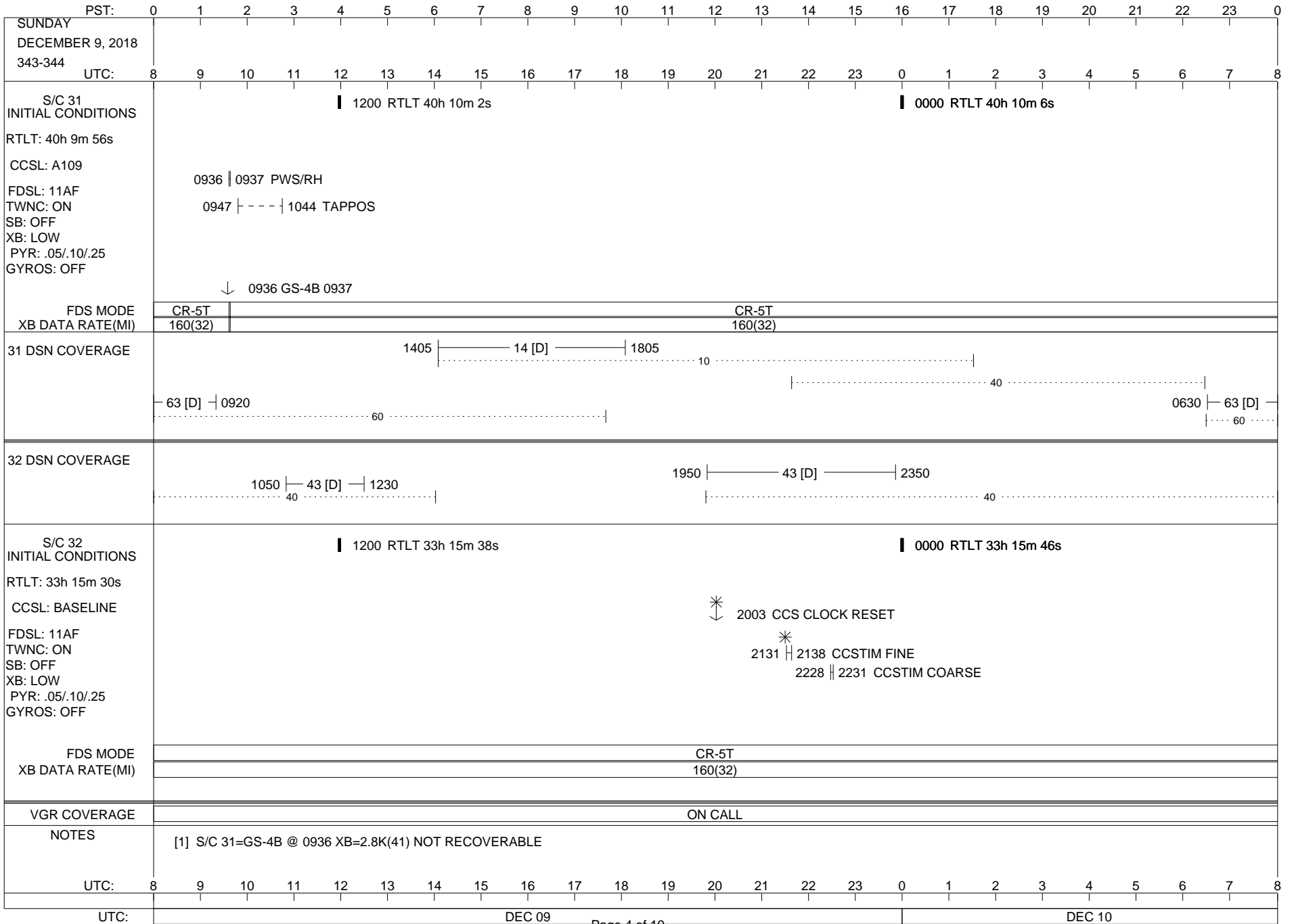
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THURSDAY DECEMBER 6, 2018 340-341	UTC: 8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8
S/C 31 INITIAL CONDITIONS RTLTL: 40h 9m 28s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 9m 32s												0000 RTLTL 40h 9m 38s												
0334 - 0403 TAPPOS PWS/RH 0635 0637 TAPPOS 0647 - 0730 - -																									
TLC (SHORT-FORM)																									
0635 GS-4B 0637 ↓																									
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	<p>63 [D] 0800 - 1005 40 60</p> <p>1005 55 [DAR] 1145 60</p> <p>1005 65 [DA] 1145 60</p> <p>0640 63 [D] 60</p>																								
32 DSN COVERAGE	<p>1015 43 [D] 1415 40</p>																								
S/C 32 INITIAL CONDITIONS RTLTL: 33h 14m 42s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 14m 50s												0000 RTLTL 33h 14m 58s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)																								
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0635 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:	DEC 06												DEC 07												

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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 DECEMBER 8, 2018 342-343																													
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: 40h 9m 48s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 40h 9m 52s														0000 RTLT 40h 9m 56s													
FDS MODE XB DATA RATE(MI)																CR-5T 160(32)													
31 DSN COVERAGE																													
32 DSN COVERAGE																													
S/C 32 INITIAL CONDITIONS RTLTL: 33h 15m 14s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF		1200 RTLT 33h 15m 22s														0000 RTLT 33h 15m 30s													
FDS MODE XB DATA RATE(MI)																CR-5T 160(32)													
VGR COVERAGE		ON CALL								VGR								ON CALL											
NOTES		[1] HP DRV OFF <= 12:40																											
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:		DEC 08														DEC 09													



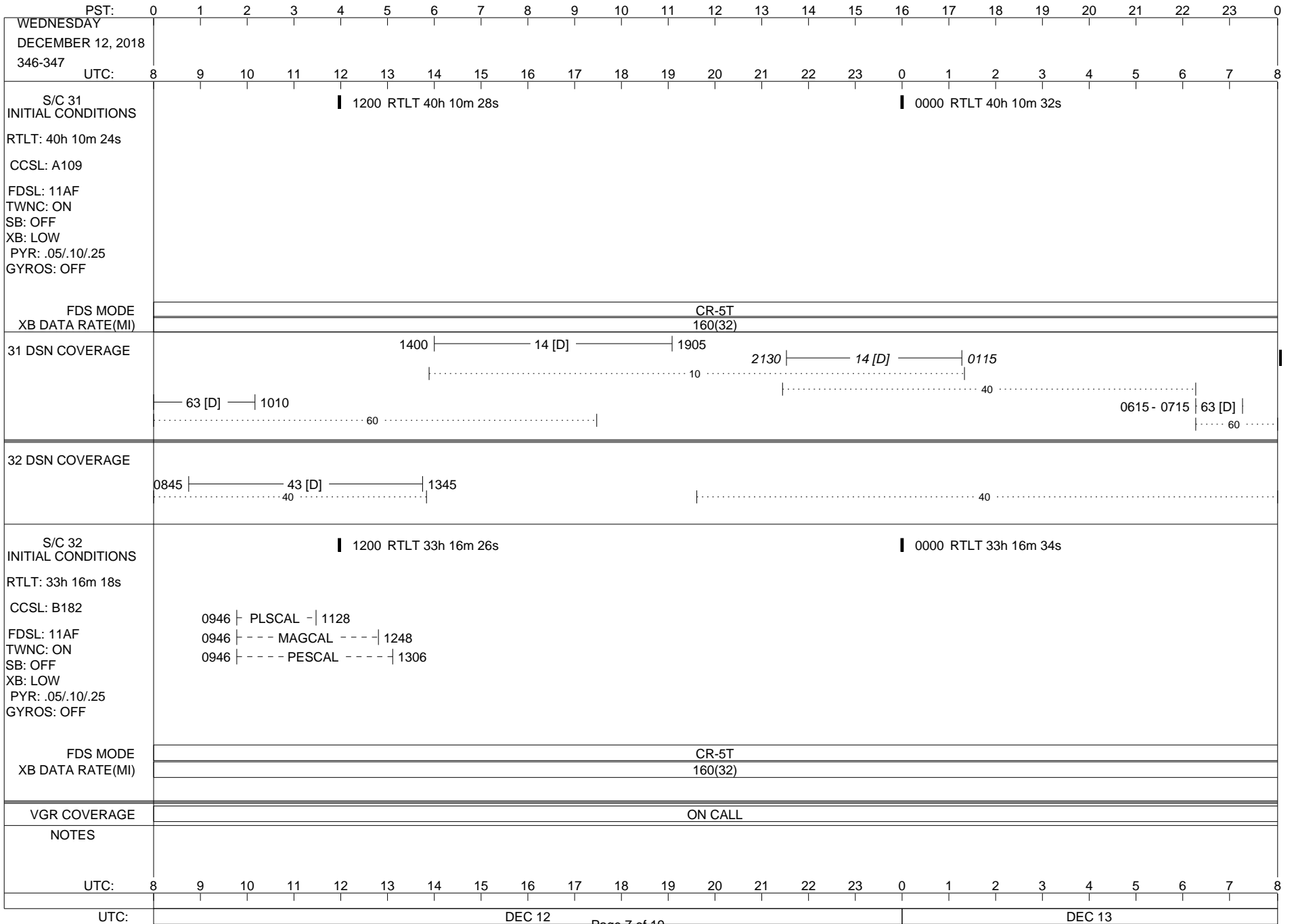
ISSUE DATE: 12/11/18 08:53

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MONDAY DECEMBER 10, 2018 344-345	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: 40h 10m 6s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 10m 10s												0000 RTLT 40h 10m 16s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1405 ----- 14 ----- 1620 ----- 63 [D] ----- 1300 ----- 60 -----												----- 10 ----- ----- 40 ----- ----- 60 -----												
32 DSN COVERAGE	1035 ----- 43 [D] ----- 1355 ----- 40 -----												----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLT: 33h 15m 46s CCSL: BASELINE FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 15m 54s												0000 RTLT 33h 16m 2s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE													ON CALL												
NOTES													↓ 0210 BEGIN SEQUENCE B182												
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:	DEC 10												DEC 11												

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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 DECEMBER 11, 2018 345-346	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: 40h 10m 16s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 40h 10m 20s												0000 RTLTL 40h 10m 24s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)												
31 DSN COVERAGE	1140 ----- 63 [D] ----- 1705												2359 0000 PWS/RH ↓ 2359 GS-4B 0000												
32 DSN COVERAGE	1045 ----- 43 [D] ----- 1350												0620 ----- 63 [D] -----												
S/C 32 INITIAL CONDITIONS RTLTL: 33h 16m 2s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 33h 16m 10s												0000 RTLTL 33h 16m 18s												
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												0146 PLSCAL - 0328 0146 --- MAGCAL --- 0448 0146 --- PESCAL --- 0506												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 2359 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:	DEC 11												DEC 12												

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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 DECEMBER 13, 2018 347-348	
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: 40h 10m 32s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 40h 10m 36s</p> <p>0000 RTLTL 40h 10m 40s</p> <p>0310 - - - - 0421 TAPPOS PWS/RH 0612 0613 0624 - 0748 TAPPOS </p> <p>0612 GS-4B 0613 ↓</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32) CR-5T 160(32)
31 DSN COVERAGE	<p>1350 ----- 14 [D] ----- 1745</p> <p>..... 10 </p> <p> 40 </p> <p>..... 60 60</p>
32 DSN COVERAGE	<p>1035 ----- 43 [D] ----- 1345</p> <p>..... 40 40</p>
S/C 32 INITIAL CONDITIONS RTLTL: 33h 16m 34s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<p>1200 RTLTL 33h 16m 42s</p> <p>0000 RTLTL 33h 16m 50s</p>
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
VGR COVERAGE	ON CALL
NOTES	[1] S/C 31=GS-4B @ 0612 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:	DEC 13 DEC 14

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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 DECEMBER 14, 2018 348-349	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: 40h 10m 40s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 10m 44s												0000 RTLT 40h 10m 48s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	63 [D] 0830 - 1115 60												10 40 60												
32 DSN COVERAGE	0850 43 [B] 1340 40												40												
S/C 32 INITIAL CONDITIONS RTLT: 33h 16m 50s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 16m 58s 1141												0000 RTLT 33h 17m 4s ----- CMD MORATORIUM -----												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	VGR												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:	DEC 14												DEC 15												

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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 DECEMBER 17, 2018 351-352	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: 40h 11m 4s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 8s												0000 RTLT 40h 11m 12s												
D/L 0839																									
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE10.....40.....												
	63 [D] 1055												0555 63 [D]												
60.....60.....												
32 DSN COVERAGE	1020 43 [D] 1325												0425 34 [DA] 0625 0425 36 [DAR] 0625 0425 43 [DA] 0625												
40.....40.....												
S/C 32 INITIAL CONDITIONS RTLT: 33h 17m 34s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 33h 17m 42s												0000 RTLT 33h 17m 48s												
COMMAND MORATORIUM	-----																								
													BAY 1 HTR OFF 0428 ↓ GYROS BC ON 0428 ↓ GYRO FAULT TEST 0438 ↓ GYRO INIT 0429 ↓ AAI 0459 ↓ MAGROL 0502 - 0537 RAI 0541 ↓ CRU 0547 ↓ ↓ 0431 EL-40 0432												
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 32 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0428-0547)																								
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:	DEC 17												DEC 18												

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 DECEMBER 18, 2018 352-353																												
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: 40h 11m 12s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 40h 11m 16s														0000 RTLT 40h 11m 18s													
FDS MODE	CR-5T														CR-5T													
XB DATA RATE(MI)	160(32)														160(32)													
31 DSN COVERAGE	<p>63 [D] 0955</p> <p>60</p> <p>40</p> <p>40</p> <p>0555 63 [D]</p> <p>60</p>																											
32 DSN COVERAGE	<p>0930 43 [o] 1325</p> <p>40</p> <p>0000 - 0715 36 [D]</p> <p>40</p>																											
S/C 32 INITIAL CONDITIONS RTLT: 33h 17m 48s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 33h 17m 56s														0000 RTLT 33h 18m 2s													
FDS MODE	CR-5T														EL-40													
XB DATA RATE(MI)	160(32)														40(30)													
VGR COVERAGE	ON CALL														VGR													
NOTES	<p>[1] S/C 31=GS-4B @ 2335 XB=2.8K(41) NOT RECOVERABLE</p> <p>[2] S/C 32=EL-40 @ 0011 XB=40(30)</p> <p>[3] S/C 32=CR-5T @ 0654 XB=160(32)</p>																											
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:	DEC 18														DEC 19													

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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 DECEMBER 19, 2018 353-354																									
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: 40h 11m 18s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	█ 1200 RTLT 40h 11m 22s												█ 0000 RTLT 40h 11m 26s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	1310 ----- 14 [D] ----- 1645												10												
	----- 0835 63 [D] -----												----- 40												
	----- 60												0550 - 0715 ----- 63 [D] -----												
													----- 60												
32 DSN COVERAGE 40												1900 ----- 43 [D] ----- 2345												
													----- 40												
S/C 32 INITIAL CONDITIONS RTLT: 33h 18m 2s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	█ 1200 RTLT 33h 18m 10s												█ 0000 RTLT 33h 18m 16s												
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:	DEC 19												DEC 20												

ISSUE DATE: 12/11/18 08:53

		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 DECEMBER 21, 2018 355-356		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: 40h 11m 32s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF				1200 RTLT 40h 11m 36s												0000 RTLT 40h 11m 38s													
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)															
31 DSN COVERAGE		63 [D] 1345												40															
														0540 63 [D] 0640 55 [DAR] 0800 65 [DA] 0800															
32 DSN COVERAGE		34 [DA] 0815 - 1005 35 [DAR] 0815 - 1005 1005 43 [D] 1310												40															
S/C 32 INITIAL CONDITIONS RTLT: 33h 18m 30s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON		1200 RTLT 33h 18m 38s												0000 RTLT 33h 18m 44s															
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:		DEC 21														DEC 22													

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 DECEMBER 24, 2018 358-359	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: 40h 11m 50s CCSL: A109 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 40h 11m 54s</p> <p>TLC (SHORT-FORM)</p> </div>																								
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	<div style="text-align: center;"> <p>1310 ----- 14 ----- 1710</p> <p>0820 63 [D]</p> </div>																								
32 DSN COVERAGE	<div style="text-align: center;"> <p>1855 ----- 43 [D] ----- 2255</p> </div>																								
S/C 32 INITIAL CONDITIONS RTLT: 33h 19m 10s CCSL: B182 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	<div style="text-align: center;"> <p>1200 RTLT 33h 19m 18s</p> </div>																								
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:	DEC 24												DEC 25												