

VOYAGER

Space Flight Operations Schedule (SFOS)

Issue Date: December 3, 2014

For the Period: 12/04/14 to 12/22/14 (14-338 – 14-356)

DSN OPSCHIEF (1) 230-102

DSOT (1) 230-102

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FLIGHT TEAM (14) 600-100

Dodd, S.
 Hall, J.
 Howard, S. (3)
 Ludwig, R. (2)
 Matsumoto, S.
 Medina
 Peralta, F.
 Weeks, T.
 Wong, R.
 Yang, L.
 Zottarelli, L.
 *odivers@san.rr.com

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

*Electronic Copy Only
 (16 – Dist/N: Paper Copies)
 09/08/10

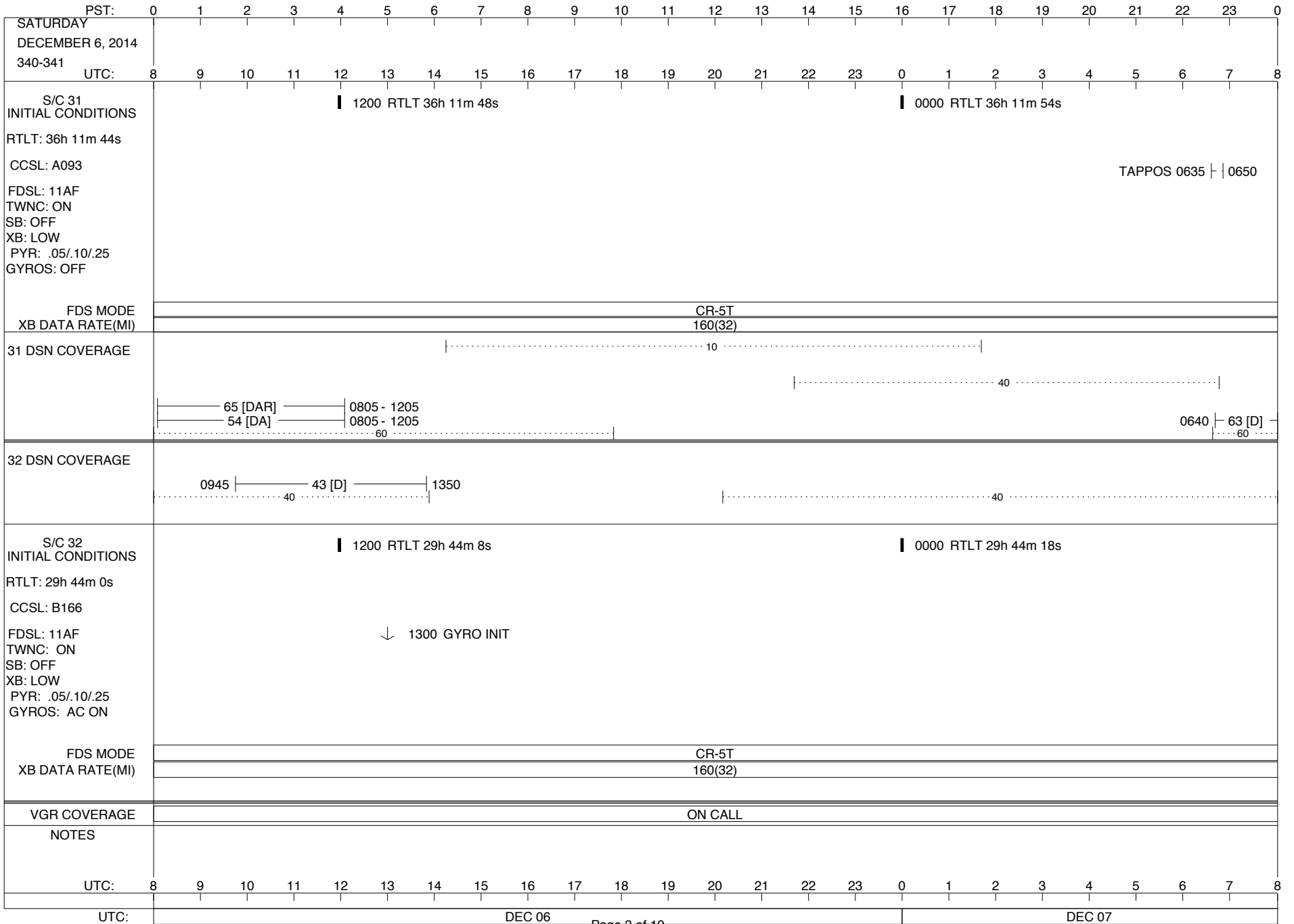
ISSUE DATE: 12/04/14 06:59

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S/C 31 INITIAL CONDITIONS RTLT: 36h 11m 22s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 36h 11m 28s												0000 RTLT 36h 11m 34s												
													0335 0336 TAPPOS PWS/RH 0636 0638 TAPPOS 0648 0704												
													0636 GS-4B 0638 ↓												
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE																									
32 DSN COVERAGE																									
S/C 32 INITIAL CONDITIONS RTLT: 29h 43m 26s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 29h 43m 36s												0000 RTLT 29h 43m 44s												
	----- COMMAND MORATORIUM ----- 0715																								
	↓ 1300 GYROS AC ON																								
	↓ 1300 GYRO INIT																								
	↓ 1309 GYRO FAULT TEST																								
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 @ 0636 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 04												DEC 05												

ISSUE DATE: 12/04/14 06:59

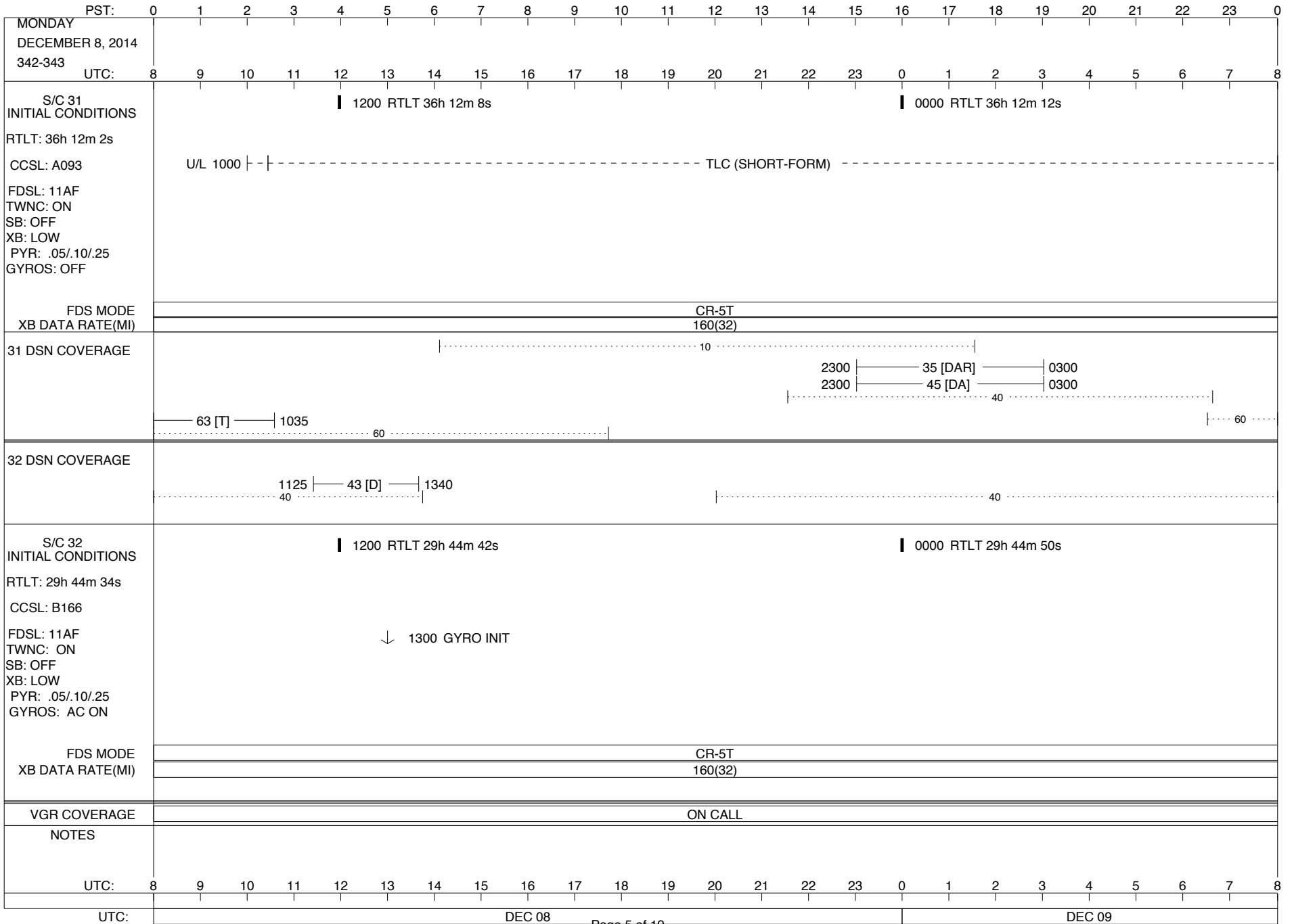
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FRIDAY DECEMBER 5, 2014 339-340	
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8	
S/C 31 INITIAL CONDITIONS RTLT: 36h 11m 34s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 36h 11m 38s 0000 RTLT 36h 11m 44s
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)
31 DSN COVERAGE 10 40 65 [DA] 0810 - 1210 55 [DAR] 0810 - 1210 60
32 DSN COVERAGE	1000 43 [D] 1355 40 40
S/C 32 INITIAL CONDITIONS RTLT: 29h 43m 44s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: AC ON	1200 RTLT 29h 43m 52s 0000 RTLT 29h 44m 0s
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 05 DEC 06

ISSUE DATE: 12/04/14 06:59



ISSUE DATE: 12/04/14 06:59

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SUNDAY DECEMBER 7, 2014 341-342																													
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		1200 RTLT 36h 11m 58s														0000 RTLT 36h 12m 2s													
RTLT: 36h 11m 54s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF		0936 0938 PWS/RH 0948 - 1018 TAPPOS ↓ 0936 GS-4B 0938																											
FDS MODE		CR-5T														CR-5T													
XB DATA RATE(MI)		160(32)														160(32)													
31 DSN COVERAGE	 10 40 63 [D] 0900 60 0635 63 [T] 60																											
32 DSN COVERAGE	 1015 43 [D] 1350 2345 45 [D] 0350																											
S/C 32 INITIAL CONDITIONS		1200 RTLT 29h 44m 26s														0000 RTLT 29h 44m 34s													
RTLT: 29h 44m 18s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: AC ON																													
FDS MODE																CR-5T													
XB DATA RATE(MI)																160(32)													
VGR COVERAGE		ON CALL																											
NOTES		[1] S/C 31=GS-4B @ 0936 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 07														DEC 08													



ISSUE DATE: 12/04/14 06:59

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WEDNESDAY DECEMBER 10, 2014 344-345																									
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S/C 31 INITIAL CONDITIONS RTLT: 36h 12m 22s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLT 36h 12m 26s												0000 RTLT 36h 12m 30s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
31 DSN COVERAGE	-----												-----												
	60												40												
													0625 - 0745 63 [D]												
													55 [DAR] 0745												
													65 [DA] 0745												
													60												
32 DSN COVERAGE	1040 ----- 43 [D] ----- 1335												-----												
	40												40												
S/C 32 INITIAL CONDITIONS RTLT: 29h 45m 6s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: AC ON	1200 RTLT 29h 45m 14s												0000 RTLT 29h 45m 22s												
FDS MODE													CR-5T												
XB DATA RATE(MI)													160(32)												
VGR COVERAGE													ON CALL												
NOTES	----- COMMAND MORATORIUM -----																								
	↓ 1301 GYRO INIT																								
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												

ISSUE DATE: 12/04/14 06:59

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 11, 2014 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: 36h 12m 30s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLTL 36h 12m 34s												0000 RTLTL 36h 12m 40s																	
FDS MODE	CR-5T												CR-5T																	
XB DATA RATE(MI)	160(32)												160(32)																	
31 DSN COVERAGE	<p>55 [DAR] 1030 65 [DA] 1030</p> <p>60</p> <p>10</p> <p>40</p> <p>0620 63 [D] 60</p>																													
32 DSN COVERAGE	<p>0930 43 [D] 1330</p> <p>40</p> <p>0000 45 [D] 0430</p> <p>40</p>																													
S/C 32 INITIAL CONDITIONS RTLTL: 29h 45m 22s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: AC ON	1200 RTLTL 29h 45m 30s												0000 RTLTL 29h 45m 38s																	
FDS MODE	CR-5T												CR-5T																	
XB DATA RATE(MI)	160(32)												160(32)																	
VGR COVERAGE	ON CALL						VGR						ON CALL						VGR						ON CALL					
NOTES	[1] S/C 31=GS-4B @ 0613 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																	

ISSUE DATE: 12/04/14 06:59

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SUNDAY DECEMBER 14, 2014 348-349																										
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S/C 31 INITIAL CONDITIONS RTLTL: 36h 12m 56s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 36h 13m 0s												0000 RTLTL 36h 13m 4s													
	0914 0915 PWS/RH 0925 - - - - 1036 TAPPOS																									
	↓ 0913 GS-4B 0915																									
FDS MODE	CR-5T												CR-5T													
XB DATA RATE(MI)	160(32)												160(32)													
31 DSN COVERAGE10.....40.....													
	54 [DAR] 1010 55 [DA] 1010												0610 63 [D] 60.....60.....													
32 DSN COVERAGE43 [D] 1320											40.....40.....													
S/C 32 INITIAL CONDITIONS RTLTL: 29h 46m 10s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: BC ON	1200 RTLTL 29h 46m 16s												0000 RTLTL 29h 46m 24s													
FDS MODE													CR-5T													
XB DATA RATE(MI)													160(32)													
VGR COVERAGE													ON CALL													
NOTES	[1] S/C 31=GS-4B @ 0913 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 14													DEC 15												

ISSUE DATE: 12/04/14 06:59

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 17, 2014 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 RTLTL: 36h 13m 20s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	1200 RTLTL 36h 13m 22s												0000 RTLTL 36h 13m 26s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)															
31 DSN COVERAGE	0820 63 [D] 54 [DA] 0800 - 1005 55 [DAR] 0800 - 1005												1730 14 [1T] 1945 0555 - 0735 63 [D] 55 [DAR] 0730 54 [DA] 0730															
32 DSN COVERAGE	0925 43 [B] 1310												1939															
S/C 32 INITIAL CONDITIONS RTLTL: 29h 46m 54s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: BC ON	1200 RTLTL 29h 47m 0s												0000 RTLTL 29h 47m 8s															
FDS MODE XB DATA RATE(MI)	CR-5T 160(32)												CR-5T 160(32)															
VGR COVERAGE	ON CALL				VGR				ON CALL				VGR				ON CALL											
NOTES	[1] DSS-14 RTS U/L DEMO																											
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													

ISSUE DATE: 12/04/14 06:59

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THURSDAY DECEMBER 18, 2014 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 RTLTL: 36h 13m 26s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	1200 RTLT 36h 13m 30s												0000 RTLT 36h 13m 34s												
----- TLC (SHORT-FORM) -----																									
0248 TAPPOS 0412 0549 0551 PWS/RH 0601 - 0740 TAPPOS - 0549 GS-4B 0551 ↓																									
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
31 DSN COVERAGE 10 40 55 [DAR] 0955 54 [DA] 0955 60 0550 - 0745 63 [D] 60																								
32 DSN COVERAGE	0905 43 [D] 1305 40 0100 43 [D] 40																								
S/C 32 INITIAL CONDITIONS RTLTL: 29h 47m 8s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: BC ON	1200 RTLT 29h 47m 16s												0000 RTLT 29h 47m 22s												
----- COMMAND MORATORIUM -----																									
↓ 0104 BAY 1 HTR OFF ↓ 0108 X/B HI POWER ↓ 0120 AAI 0123 - 0719 MAGROL RAI 0711 ↓ GYROS OFF 0719 ↓ CRU 0719 ↓																									
FDS MODE	CR-5T												CR-5T												
XB DATA RATE(MI)	160(32)												160(32)												
VGR COVERAGE	ON CALL												VGR												
NOTES	[1] S/C 31=GS-4B @ 0549 XB=2.8K(41) NOT RECOVERABLE [2] S/C 32=D/L AGC & SNR VARIATIONS EXPECTED DURING MAGROL (0123-0719)																								
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												

ISSUE DATE: 12/04/14 06:59

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 19, 2014 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 RTLTL: 36h 13m 34s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	<p>1200 RTLTL 36h 13m 36s</p> <p>0000 RTLTL 36h 13m 40s</p> <p>0801 D/L</p> <p>1416 ----- 1559 AACS MRO</p> <p>1600 ----- 1811 FDS MRO</p> <p>1812 ----- 1927 CCSA MRO</p> <p>1928 ----- 2043 CCSB MRO</p> <p>EL-40 1401 ↓</p> <p>↓ 2045 CR-5T</p> <table border="1"> <tr> <td>FDS MODE</td> <td>CR-5T</td> <td>EL-40</td> <td>CR-5T</td> </tr> <tr> <td>XB DATA RATE(MI)</td> <td>160(32)</td> <td>40(30)</td> <td>160(32)</td> </tr> </table>	FDS MODE	CR-5T	EL-40	CR-5T	XB DATA RATE(MI)	160(32)	40(30)	160(32)
FDS MODE	CR-5T	EL-40	CR-5T						
XB DATA RATE(MI)	160(32)	40(30)	160(32)						
31 DSN COVERAGE	<p>1330 ----- 14 [D] ----- 2210</p> <p>..... ----- 10 ----- 40 ----- </p> <p>..... ----- 60 ----- 0600 ----- 63 [D] ----- </p> <p>..... ----- 60 ----- 60</p>								
32 DSN COVERAGE	<p>43 [D] 0900</p> <p>..... ----- 40 ----- 40 ----- </p>								
S/C 32 INITIAL CONDITIONS RTLTL: 29h 47m 22s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	<p>1200 RTLTL 29h 47m 30s</p> <p>0000 RTLTL 29h 47m 36s</p> <p>----- COMMAND MORATORIUM ----- 0131</p> <table border="1"> <tr> <td>FDS MODE</td> <td>CR-5T</td> </tr> <tr> <td>XB DATA RATE(MI)</td> <td>160(32)</td> </tr> </table>	FDS MODE	CR-5T	XB DATA RATE(MI)	160(32)				
FDS MODE	CR-5T								
XB DATA RATE(MI)	160(32)								
VGR COVERAGE	<table border="1"> <tr> <td>ON CALL</td> <td>VGR</td> <td>ON CALL</td> </tr> </table>	ON CALL	VGR	ON CALL					
ON CALL	VGR	ON CALL							
NOTES	<p>[1] S/C 31=EL-40 @ 1401 XB=40(30)</p> <p>[2] S/C 31=CR-5T @ 2045 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 19 DEC 20									

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 20, 2014
354-355

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

1200 RTLT 36h 13m 44s

0000 RTLT 36h 13m 46s

RTLT: 36h 13m 40s

CCSL: A093

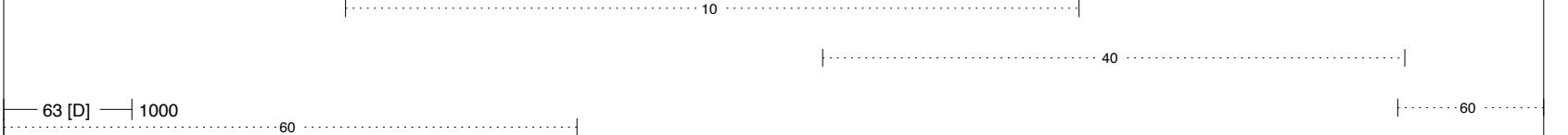
0548 - 0726 | TAPPOS - |

FDSL: 11AF
TWNC: ON
SB: OFF
XB: LOW
PYR: .05/.10/.25
GYROS: OFF

FDS MODE
XB DATA RATE(MI)

CR-5T
160(32)

31 DSN COVERAGE



32 DSN COVERAGE



S/C 32
INITIAL CONDITIONS

1200 RTLT 29h 47m 44s

0000 RTLT 29h 47m 50s

RTLT: 29h 47m 36s

CCSL: B166

FDSL: 11AF
TWNC: ON
SB: OFF
XB: HI
PYR: .05/.10/.25
GYROS: OFF

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 20

DEC 21

ISSUE DATE: 12/04/14 06:59

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 DECEMBER 21, 2014 355-356	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: 36h 13m 46s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 36h 13m 50s												█ 0000 RTLTL 36h 13m 54s												
0849 0851 PWS/RH 0901 - TAPPOS - 1054 ↓ 0849 GS-4B 0851																									
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
31 DSN COVERAGE	1315 ----- 14 [D] ----- 1730 ----- 10 ----- ----- 40 -----												----- 60 ----- ----- 0540 ----- 63 [D] ----- ----- 60 -----												
32 DSN COVERAGE	0855 ----- 43 [D] ----- 1255 ----- 40 -----												----- 40 -----												
S/C 32 INITIAL CONDITIONS RTLTL: 29h 47m 50s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/10/25 GYROS: OFF	█ 1200 RTLTL 29h 47m 56s												█ 0000 RTLTL 29h 48m 4s												
FDS MODE XB DATA RATE(MI)													CR-5T 160(32)												
VGR COVERAGE	ON CALL																								
NOTES	[1] S/C 31=GS-4B @ 0849 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 21												DEC 22												

ISSUE DATE: 12/04/14 06:59

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 22, 2014 356-357																											
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: 36h 13m 54s CCSL: A093 FDSL: 11AF TWNC: ON SB: OFF XB: LOW PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 36h 13m 56s</p> </div>																										
FDS MODE XB DATA RATE(MI)														CR-5T 160(32)													
31 DSN COVERAGE	<div style="text-align: center;"> <p>1315 ----- 14 [D] ----- 1545</p> </div>																										
	<div style="text-align: center;"> <p>63 [D] ----- 0940</p> <p>60</p> </div>																										
32 DSN COVERAGE	<div style="text-align: center;"> <p>43 [D] ----- 0820 - 1250</p> <p>40</p> </div>																										
S/C 32 INITIAL CONDITIONS RTLT: 29h 48m 4s CCSL: B166 FDSL: 11AF TWNC: ON SB: OFF XB: HI PYR: .05/.10/.25 GYROS: OFF	<div style="text-align: center;"> <p>1200 RTLT 29h 48m 10s</p> </div>																										
	<div style="text-align: center;"> <p>↓ 0838 X/B LOW POWER</p> <p>↓ 0842 BAY 1 HTR ON</p> </div>																										
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 22													DEC 23													