

ISSUE DATE: 11/28/01 - 12:45

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  
NOVEMBER 29, 2001  
333-334

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

RTLTL : 23h 14m 50s

1200 RTLTL=23h 14m 54s

0000 RTLTL=23h 15m 0s

VOYAGER 1

----- TLC (SHORT-FORM) ----- | D/L - | 1735

FDSL : 11AF

S/C 31 STATUS
FDS CLOCK DRIFT: ADD TO S/C EVENT ERT: -22.771 sec
ROLLREF = RIGIL KENTAURUS

↓ 1715 SLEW->MIDPNT-B

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

31

----- 65 [D] ----- | 0810 - 1735

HPTXR  
DSN COVERAGE

32

----- 34 [D] ----- | 1245

2120 |----- 45 [D] ----- | 0315

HPTXR

RTLTL : 18h 23m 36s

1200 RTLTL=18h 23m 44s

0000 RTLTL=18h 23m 54s

VOYAGER 2

S/C 32 STATUS
FDS CLOCK DRIFT: ADD TO S/C EVENT ERT: -91.050 sec
ROLLREF = VEGA

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

VOYAGER 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

ISSUE DATE: 11/28/01 - 12:45

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  
NOVEMBER 30, 2001  
334-335

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

RTLTL : 23h 15m 0s

1200 RTLTL=23h 15m 6s

0000 RTLTL=23h 15m 10s

VOYAGER 1

↓ 1638 SLEW->HELIO-10B

PWS/RH 0732 - 0733

FDSL : 11AF

0429 --- 0511 TAPPOS

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

0733  
0732 CR-5T  
GS-4B

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

31

1130 |----- 65 [D] -----| 1730

DSN COVERAGE  
HPTXR

32

2040 |----- 45 [D] -----| 0005

HPTXR

RTLTL : 18h 23m 54s

1200 RTLTL=18h 24m 4s

0000 RTLTL=18h 24m 12s

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

VOYAGER COVERAGE

ON CALL

NOTES

[1] S/C 31=CR-5T @ 0732 XB=160(32)  
[2] S/C 31=GS-4B @ 0732 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

ISSUE DATE: 11/28/01 - 12:45

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 1, 2001  
335-336

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

RTLTL : 23h 15m 10s  
VOYAGER 1  
FDSL : 11AF  
CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

1200 RTLTL=23h 15m 16s 0000 RTLTL=23h 15m 22s

↓ 1738 SLEW->HELIO-9B

0930 | - - | 1007 TAPPOS

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31 0945 | - - - - - 65 [D] - - - - - | 1615 65 [D] 0800  
1555 | - - - - - 25 [D] - - - - - | 2015

DSN COVERAGE  
HPTXR

32 0900 | - - - - - 34 [o] - - - - - | 1240 2330 | - - - - - 34 [o] - - - - -

HPTXR

RTLTL : 18h 24m 12s  
VOYAGER 2  
FDSL : 11AF  
CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

1200 RTLTL=18h 24m 20s 0000 RTLTL=18h 24m 30s

1227 | 1228 PWS/RH

0926 | | 0940 TAPPOS

1436 | 1436 TAPPOS

1227  
GS-4B 1228

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

CR-5T  
160(32)

VOYAGER COVERAGE

----- ON CALL -----

NOTES

[1] S/C 32=GS-4B @ 1229 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

ISSUE DATE: 11/28/01 - 12:45

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 2, 2001  
336-337

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

RTLT : 23h 15m 22s

1200 RTLT=23h 15m 26s

0000 RTLT=23h 15m 32s

VOYAGER 1

↓ 1738 SLEW->HELIO-8B

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

-----65 [D] ----- | 0800 - 1145

65 [D] 0740 |

1540 |

-----25 [D] ----- | 0030

|

DSN COVERAGE  
HPTXR

32

-----34 [o] ----- | 1100

2040 |

-----43 [D] -----

HPTXR

RTLT : 18h 24m 30s

1200 RTLT=18h 24m 38s

0000 RTLT=18h 24m 48s

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

VOYAGER 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

ISSUE DATE: 11/28/01 - 12:45

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 3, 2001  
337-338

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

RTLTL : 23h 15m 32s

1200 RTLTL=23h 15m 36s

0000 RTLTL=23h 15m 42s

VOYAGER 1

↓ 1738 SLEW->HELIO-7B

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

65 [D]

1615

1535

25 [D]

0040

DSN COVERAGE  
HPTXR

32

43 [D] | 0905

0545 | - - 43 [B] - - -

HPTXR

RTLTL : 18h 24m 48s

1200 RTLTL=18h 24m 56s

0000 RTLTL=18h 25m 4s

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

VOYAGER 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

ISSUE DATE: 11/28/01 - 12:45

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 4, 2001  
338-339

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

RTLTL : 23h 15m 42s

VOYAGER 1

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

1200 RTLTL=23h 15m 46s

0000 RTLTL=23h 15m 50s

↓ 1739 SLEW->HELIO-6B

1915 | | 1935 AACS MRO  
1935 | | 1947 CCS MRO  
1947 | | 1959 FDS MRO

0108 | 0109 PWS/RH

U/L 2205 | | ----- TLC (SHORT-FORM) -----

▼ 1830 DUMMY (17:46)

0108  
GS-4B 0109

FDS MODE  
XB DATA RATE (MI)

CR-5T

1901 1959

EH-12

CR-5T

CR-5T

160(32)

160(32)

160(32)

31

1715 | ----- 14 (T) ----- | 2240

65 [D] 0745 |

DSN COVERAGE  
HPTXR

32

----- 43 [B] ----- | 1215

0140 | ----- 45 [D] -----

HPTXR

RTLTL : 18h 25m 4s

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

1200 RTLTL=18h 25m 14s

0000 RTLTL=18h 25m 22s

▼ 0903 EL-40 (03:29)

0005 | 0006 PWS/RH

\*  
0348 | | 0352 CCS CHK SUM

▼ 0915 CCSL B114 (03:41)

\*  
0403 | | 0420 DRIBBLE MRO

▼ 0936 DRIBBLE MRO 5614B (04:01)

▼ 0945 DRIBBLE MRO 5646B (04:11)

\*  
0440 | | 0442 CCSCAL DATA

▼ 1015 CCSCAL (04:40)

▼ 1031 CR-5T (04:57)

0005  
GS-4B 0006

\*  
0330 0458

FDS MODE  
XB DATA RATE (MI)

CR-5T

CR-5T

EL-40

CR-5T

160(32)

160(32)

40(30)

160(32)

VOYAGER COVERAGE

----- VGR ----- | ----- ON CALL ----- | ----- VGR ----- | ----- ON CALL ----- | ----- VGR ----- | ----- ON CALL -----

NOTES

[1] S/C 32=GS-4B @ 0005 XB=2.8K(41) NOT RECOVERABLE  
[2] S/C 31=GS-4B @ 0108 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

ISSUE DATE: 11/28/01 - 12:45

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 5, 2001  
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

RTLT : 23h 15m 50s

1200 RTLT=23h 15m 56s

0000 RTLT=23h 16m 0s

VOYAGER 1

1659 | PLSCAL -| 1842  
1659 | --- MAGCAL ---| 2002  
1659 | --- PESCAL ---| 2019

FDSL : 11AF

↓ 1739 SLEW->HELIO-5B

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

----- TLC (SHORT-FORM) -----+ D/L -| 2249

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31 ----- 65 [D] -----| 1105  
1525 |----- 25 [D] -----| 0020  
65 [D] 0745 |

DSN COVERAGE  
HPTXR

32 ----- 45 [D] -----| 1225  
2030 |----- 43 [D] -----| 0150

HPTXR

RTLT : 18h 25m 22s

1200 RTLT=18h 25m 30s

0000 RTLT=18h 25m 38s

COMMAND MORATORIUM 0551 |-----

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

VOYAGER 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

ISSUE DATE: 11/28/01 - 12:45

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 6, 2001  
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

RTLT : 23h 16m 0s

1200 RTLT=23h 16m 4s

0000 RTLT=23h 16m 10s

VOYAGER 1

↓ 1739 SLEW->HELIO-4B

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31 ----- 65 [D] ----- | 1515

65 [D] 0725 | - -

DSN COVERAGE  
HPTXR

2035 | - - - - - 43 [D] - - - - -

32

HPTXR

RTLT : 18h 25m 38s

1200 RTLT=18h 25m 48s

0000 RTLT=18h 25m 56s

VOYAGER 2

- COMMAND MORATORIUM -

↓ 2347 GYRO INIT  
↓ 2347 GYROS AB ON  
↓ 2357 GYRO FAULT TEST

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

0048 || 0054 CCSTIM(B)

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

VOYAGER COVERAGE

----- ON CALL ----- + 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



ISSUE DATE: 11/28/01 - 12:45

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 7, 2001  
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

RTLTL : 23h 16m 10s

1200 RTLTL=23h 16m 14s

0000 RTLTL=23h 16m 18s

VOYAGER 1

↓ 1739 SLEW->HELIO-3B

PWS/RH 0708 || 0709

FDSL : 11AF

0406 | | 0420 TAPPOS

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

0708 GS-4B  
0709 CR-5T

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31

65 [D] - - - - - | 1700

65 [D] 0720 | - - -

DSN COVERAGE  
HPTXR

32

43 [D] - | 0930

2055 | - - - - - 43 [D] - - - - - | 0150

HPTXR

RTLTL : 18h 25m 56s

1200 RTLTL=18h 26m 4s

0000 RTLTL=18h 26m 12s

COMMAND MORATORIUM

0520

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

VOYAGER COVERAGE

ON CALL

NOTES

- [1] S/C 31=CR-5T @ 0708 XB=160(32)
- [2] S/C 31=GS-4B @ 0708 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

ISSUE DATE: 11/28/01 - 12:45

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, 2001  
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

RTLT : 23h 16m 18s

VOYAGER 1

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

0916 | 0916 TAPPOS

↓ 1739 SLEW->HELIO-2B

1200 RTLT=23h 16m 22s

0000 RTLT=23h 16m 26s

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31 ----- 65 [D] ----- | 1100

1520 | ----- 25 [D] ----- | 0020

65 [D] 0715 |-----

DSN COVERAGE  
HPTXR

32

2025 |----- 43 [D] ----- | 0145

HPTXR

RTLT : 18h 26m 12s

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

0904 | | 0919 TAPPOS

1200 RTLT=18h 26m 20s

0000 RTLT=18h 26m 28s

1206 | 1207 PWS/RH

1414 | 1414 TAPPOS

1206  
GS-4B 1207

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

CR-5T

160(32)

VOYAGER COVERAGE

----- ON CALL -----

NOTES

[1] S/C 32=GS-4B @ 1206 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

ISSUE DATE: 11/28/01 - 12:45

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 9, 2001  
343-344

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

RTLT : 23h 16m 26s

1200 RTLT=23h 16m 32s

0000 RTLT=23h 16m 36s

VOYAGER 1

↓ 1739 SLEW->HELIO-1B

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31

----- 65 [D] ----- | 1650

1630 |----- 25 (D) -----| 0015

DSN COVERAGE  
HPTXR

32

2015 |----- 43 (D) -----

HPTXR

RTLT : 18h 26m 28s

1200 RTLT=18h 26m 36s

0000 RTLT=18h 26m 44s

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

VOYAGER 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

ISSUE DATE: 11/28/01 - 12:45

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 10, 2001  
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

RTLT : 23h 16m 36s

1200 RTLT=23h 16m 40s

0000 RTLT=23h 16m 44s

VOYAGER 1

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1525 |----- 25 [D] -----| 0000

DSN COVERAGE  
HPTXR

32

--- 43 (D) --- | 1005

0545 |--- 43 [o] ---

HPTXR

RTLT : 18h 26m 44s

1200 RTLT=18h 26m 52s

0000 RTLT=18h 27m 0s

VOYAGER 2

↓ 1825 BEGIN SEQUENCE B114

↓ 0047 GYRO INIT

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

VOYAGER 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

ISSUE DATE: 11/28/01 - 12:45

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, 2001  
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

RTLTL : 23h 16m 44s

1200 RTLTL=23h 16m 48s

0000 RTLTL=23h 16m 52s

VOYAGER 1

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

0045 | 0045 PWS/RH

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

CR-5T  
160(32)

0045  
GS-4B 0045

31

1510 |-----25 [D]-----| 0005

DSN COVERAGE  
HPTXR

32

---43 [o]---| 1030

2345 |-----45 [D]-----| 0430

HPTXR

RTLTL : 18h 27m 0s

1200 RTLTL=18h 27m 8s

0000 RTLTL=18h 27m 16s

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

2342 | 2343 PWS/RH  
0056 | PLSCAL -| 0238  
0056 |---MAGCAL---| 0358  
0056 |-----PESCAL-----| 0416

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

CR-5T  
160(32)

2342  
GS-4B 2343

VOYAGER COVERAGE

-----ON CALL-----

NOTES

[1] S/C 32=GS-4B @ 2342 XB=2.8K(41) NOT RECOVERABLE  
[2] S/C 31=GS-4B @ 0045 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

ISSUE DATE: 11/28/01 - 12:45

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 12, 2001  
346-347

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

RTLTL : 23h 16m 52s  
VOYAGER 1  
FDSL : 11AF  
CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

U/L 2330 |----- TLC (SHORT-FORM) -----

▼ 2300 DUMMY (NO D/L)

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

31 1455 |----- 25 [D] -----| 2010 2220 |----- 24 [T] -----| 0005 0700 |65 [D]

HPTXR  
DSN COVERAGE

32 2025 |----- 43 [B] -----| 2345

HPTXR

RTLTL : 18h 27m 16s  
VOYAGER 2  
FDSL : 11AF  
CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

▼ 2102 DUMMY (5 MIN BRACKETED NO D/L)

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

VOYAGER COVERAGE ----- ON CALL ----- |----- 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

ISSUE DATE: 11/28/01 - 12:45

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, 2001  
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

RTLTL : 23h 16m 58s  
 VOYAGER 1  
 FDSL : 11AF  
 CCSL : A041  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05/ .10/ .25  
 GYROS : OFF

1200 RTLTL=23h 17m 2s  
 0000 RTLTL=23h 17m 6s

↓ 1439 SLEW->HELIO-1A  
 ↓ 0239 SLEW->HELIO-2A

----- TLC (SHORT-FORM) ----- D/L -|0015

---

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

31 ----- 65 [D] ----- | 1045  
 1450 |----- 25 [D] ----- | 1935  
 0700 | 65 [D]

HPTXR  
 DSN COVERAGE  
 32  
 1940 |----- 43 [D] -----

HPTXR

RTLTL : 18h 27m 30s  
 VOYAGER 2  
 FDSL : 11AF  
 CCSL : B114  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05/ .10/ .25  
 GYROS : ON

1200 RTLTL=18h 27m 38s  
 1258 |-----  
 0000 RTLTL=18h 27m 46s  
 ----- COMMAND MORATORIUM -----

↓ 0058 AAI  
 0101 |----- MAGROL -----| 0656  
 RAI 0649 ↓  
 CRU 0656 ↓  
 GYROS OFF 0656 ↓

---

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

VOYAGER COVERAGE ----- ON CALL ----- |----- VGR ----- |

NOTES [1] S/C 32 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (0101-0656)

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

ISSUE DATE: 11/28/01 - 12:45

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, 2001  
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

RTLT : 23h 17m 6s

1200 RTLT=23h 17m 10s

0000 RTLT=23h 17m 14s

VOYAGER 1

↓ 1439 SLEW->HELIO-3A

↓ 0239 SLEW->HELIO-4A

FDSL : 11AF

PWS/RH 0645 | 0646

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

0342 | 0356 TAPPOS

0645  
GS-4B 0646

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

CR-5T  
160(32)

31

----- 65 [D] ----- | 1115

1415 | ----- 15 [D] ----- | 1805

0655 | 65 [D] |

DSN COVERAGE  
HPTXR

32

43 [D] | 0900

2020 | ----- 43 [D] ----- | 2355

0600 | -- 43 [D] -- |

HPTXR

1200 RTLT=18h 27m 54s

0000 RTLT=18h 28m 0s

RTLT : 18h 27m 46s

----- COMMAND MORATORIUM -----

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

VOYAGER COVERAGE

----- ON CALL -----

NOTES

[1] S/C 31=GS-4B @ 0645 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



ISSUE DATE: 11/28/01 - 12:45

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 15, 2001  
349-350

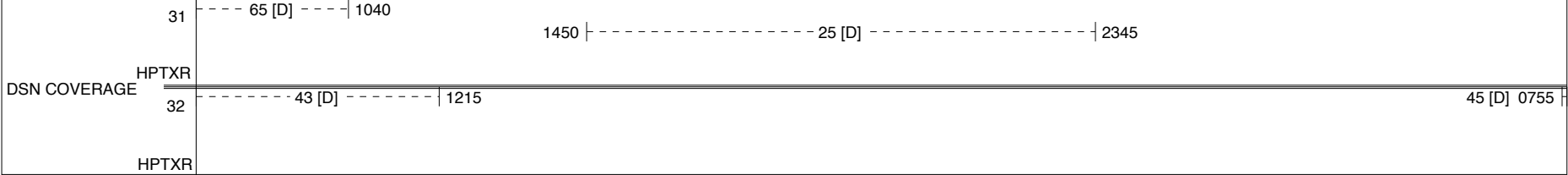
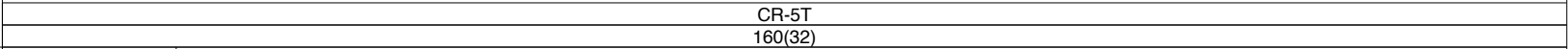
UTC: 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8

RTLTL : 23h 17m 14s  
VOYAGER 1  
FDSL : 11AF  
CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF



0852 | - | 0919 TAPPOS

FDS MODE  
XB DATA RATE (MI)



RTLTL : 18h 28m 0s  
VOYAGER 2  
FDSL : 11AF  
CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF



COMMAND MORATORIUM - | 1228  
1143 | 1144 PWS/RH  
| 0842 - 0855 TAPPOS  
1351 | 1351 TAPPOS

FDS MODE  
XB DATA RATE (MI)



VOYAGER COVERAGE ----- ON CALL -----

NOTES

[1] S/C 32=GS-4B @ 1143 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

ISSUE DATE: 11/28/01 - 12:45

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 16, 2001  
350-351

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

RTLTL : 23h 17m 20s

1200 RTLTL=23h 17m 24s

0000 RTLTL=23h 17m 26s

VOYAGER 1

↓ 1439 SLEW->HELIO-7A

↓ 0239 SLEW->HELIO-8A

FDSL : 11AF

CCSL : A041  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

65 [D]

0810 - 1620

65 [D] 0750

1600

25 [D]

2330

DSN COVERAGE  
HPTXR

32

45 [D]

1155

0645 34 [D]

1955

45 [D]

2345

HPTXR

RTLTL : 18h 28m 16s

1200 RTLTL=18h 28m 22s

0000 RTLTL=18h 28m 30s

VOYAGER 2

FDSL : 11AF

CCSL : B114  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

VOYAGER 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