

ISSUE DATE: 10/30/02 - 11:44

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  
OCTOBER 31, 2002  
304-305

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 : 24h 7m 40s

1200 RTLTL=24h 7m 48s

0000 RTLTL=24h 7m 58s

VOYAGER 1

FDSL : 11AF

CCSL : A045  
TWNC : ON  
SB : OFF XB : HIGH  
PYR : .05 / .10 / .25  
GYROS : BC ON

S/C 31 STATUS  
FDS CLOCK DRIFT:  
ADD TO S/C EVENT  
ERT: -23.302 sec  
ROLLREF = RIGIL  
KENTAURUS

↓ 1905 SLEW->HELIO-13A

----- TLC (SHORT-FORM) ----- | D/L | 2105

FDS MODE  
XB DATA RATE (MI)

CR-5T

160 (32)

31 | 0815 45 [D]

1340 |

65 [D] |

1940

0220 |

34 [D] |

0535

1950 |

25 [D] |

0215

DSN COVERAGE

HPTXR

32 |

43 [o] |

1305

0615 |

45 [D] |

HPTXR

RTLTL : 19h 4m 58s

1200 RTLTL=19h 5m 10s

0000 RTLTL=19h 5m 20s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

S/C 32 STATUS  
FDS CLOCK DRIFT:  
ADD TO S/C EVENT  
ERT: -2:09.692 min  
ROLLREF = VEGA

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: 10/30/02 - 11:44

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 1, 2002  
305-306

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 : 24h 7m 58s

1200 RTLTL=24h 8m 6s

0000 RTLTL=24h 8m 14s

VOYAGER 1

↓ 1905 SLEW->HELIO-12A

↓ 2039 AAI

FDSL : 11AF

2042 |----- MAGROL -----| 0237

↓ 0230 RAI TAPPOS 0720 |---

CCSL : A045  
TWNC : ON  
SB : OFF XB : HIGH  
PYR : .05 / .10 / .25  
GYROS : BC ON

↓ 0237 CRU

↓ 0237 GYROS OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160 (32)

31

1450 |----- 65 [D] -----| 1935

1920 |----- 15 [D] -----| 0320

0300 |----- 34 [D] -----| 0620

DSN COVERAGE  
HPTXR

32

----- 45 [D] -----| 1450

0500 |----- 45 [D] -----

HPTXR

RTLTL : 19h 5m 20s

1200 RTLTL=19h 5m 32s

0000 RTLTL=19h 5m 44s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
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 -----|----- VGR -----|----- ON CALL -----

NOTES

[1] S/C 31 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (2042-0237)

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: 10/30/02 - 11:44

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  
NOVEMBER 2, 2002  
306-307

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 : 24h 8m 14s

1200 RTLTL=24h 8m 24s

0000 RTLTL=24h 8m 32s

VOYAGER 1

1022 | 1023 PWS/RH

↓ 1905 SLEW->HELIO-11A

FDSL : 11AF

--- | 0857 TAPPOS 1230 | TAPPOS - | 1421

CCSL : A045  
TWNC : ON  
SB : OFF XB : HIGH  
PYR : .05 / .10 / .25  
GYROS : OFF

1022  
GS-4B 1023

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

CR-5T  
160(32)

31

1550 | ----- 65 [D] ----- | 1935

2335 | ----- 15 [D] ----- | 0255

0235 | ----- 45 [D] ----- | 0635

DSN COVERAGE  
HPTXR

32

----- 45 [D] ----- | 1445

45 [D] 0720 | ---

HPTXR

RTLTL : 19h 5m 44s

1200 RTLTL=19h 5m 54s

0000 RTLTL=19h 6m 6s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
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 @ 1022 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: 10/30/02 - 11:44

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  
NOVEMBER 3, 2002  
307-308

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 : 24h 8m 32s

1200 RTLTL=24h 8m 40s

0000 RTLTL=24h 8m 50s

VOYAGER 1

↓ 1905 SLEW->MIDPNT

FDSL : 11AF

CCSL : A045  
TWNC : ON  
SB : OFF XB : HIGH  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1540 |----- 65 [D] -----| 1930

1910 |-- 15 [D] ---| 2125

DSN COVERAGE  
HPTXR

32

----- 45 [D] ----- | 1440

0610 |-- 45 [D] --

HPTXR

RTLTL : 19h 6m 6s

1200 RTLTL=19h 6m 16s

0000 RTLTL=19h 6m 28s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
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: 10/30/02 - 11:44

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  
NOVEMBER 4, 2002  
308-309

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 : 24h 8m 50s

1200 RTLTL=24h 8m 58s

0000 RTLTL=24h 9m 6s

VOYAGER 1

↓ 1905 SLEW->HELIO-10A

FDSL : 11AF

U/L 1730 | - | ----- TLC (SHORT-FORM) -----

CCSL : A045  
TWNC : ON  
SB : OFF XB : HIGH  
PYR : .05 / .10 / .25  
GYROS : OFF

▼ 1700 DUMMY (17:09)

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31

1335 | ----- 65 [D] ----- | 1635

1615 | ----- 63 [T] ----- | 2015

DSN COVERAGE  
HPTXR

32

----- 45 [D] ----- | 1435

HPTXR

RTLTL : 19h 6m 28s

1200 RTLTL=19h 6m 40s

0000 RTLTL=19h 6m 50s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
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 ----- + - 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: 10/30/02 - 11:44

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  
NOVEMBER 5, 2002  
309-310

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 : 24h 9m 6s

1200 RTLTL=24h 9m 14s

0000 RTLTL=24h 9m 22s

VOYAGER 1

↓ 1905 SLEW->HELIO-9A

0359 | 0400 PWS/RH

FDSL : 11AF

----- TLC (SHORT-FORM) ----- † D/L -| 1906

CCSL : A045  
TWNC : ON  
SB : OFF XB : HIGH  
PYR : .05 / .10 / .25  
GYROS : OFF

0359  
GS-4B 0400

FDS MODE  
XB DATA RATE (MI)

CR-5T

CR-5T

160(32)

160(32)

31

1340 |----- 65 [D] -----| 1920

0230 - 0735 |----- 45 [D] -----|

DSN COVERAGE  
HPTXR

32

0910 |----- 43 [B] -----| 1450

0430 |----- 34 [D] -----|

HPTXR

RTLTL : 19h 6m 50s

1200 RTLTL=19h 7m 2s

0000 RTLTL=19h 7m 12s

VOYAGER 2

▼ 1215 EL-40 (07:23)

0250 | 0251 PWS/RH

FDSL : 11AF

▼ 1230 WPM CHANGE (07:37)  
▼ 1237 CCS B118 & ECRs (07:44)  
▼ 1251 TLMRST (07:58)

CCS CHKSUM 0752 - 0756 || \*

CCSL : B117  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

▼ 1315 DUMMY (08:22)

▼ 1320 CCSCAL (08:27)  
▼ 1330 CR-5T (08:37)

0250  
GS-4B 0251

\*  
0724  
EL-40

FDS MODE  
XB DATA RATE (MI)

CR-5T

CR-5T

160 (32)

160(32)

VOYAGER COVERAGE

----- ON CALL ----- † --- VGR --- †----- ON CALL ----- † VGR †

NOTES

[1] S/C 32=GS-4B @ 0250 XB=2.8K(41) NOT RECOVERABLE  
[2] S/C 31=GS-4B @ 0359 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: 10/30/02 - 11:44

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  
NOVEMBER 6, 2002  
310-311

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 : 24h 9m 22s

1200 RTLTL=24h 9m 30s

0000 RTLTL=24h 9m 40s

VOYAGER 1

↓ 1905 SLEW->HELIO-8A

↓ 0312 X/B LOW POWER

FDSL : 11AF

↓ 0316 BAY 1 HTR ON

CCSL : A045  
TWNC : ON  
SB : OFF XB : HIGH  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1335 |----- 65 [D] -----| 1920

2325 |----- 25 [D] -----| 0225

0200 |----- 34 [D] -----| 0605

DSN COVERAGE  
HPTXR

32

----- 34 [D] -----| 1405

0530 |----- 45 [D] -----

HPTXR

RTLTL : 19h 7m 12s

1200 RTLTL=19h 7m 24s

0000 RTLTL=19h 7m 34s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

\*  
0838

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

VOYAGER COVERAGE

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

NOTES

(1) S/C32 = EL-40 @ 0724 XB=40(30)

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: 10/30/02 - 11:44

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 7, 2002  
311-312

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 : 24h 9m 40s

1200 RTLT=24h 9m 48s

0000 RTLT=24h 9m 56s

VOYAGER 1

↓ 1906 SLEW->HELIO-7A

FDSL : 11AF

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1340 |-----| 65 [D] |-----| 1915

0015 - 0725 |-----| 45 [D] |-----|

DSN COVERAGE  
HPTXR

32

--- 45 [D] --- | 1000

0300 |-----| 34 [o] |-----|

HPTXR

RTLT : 19h 7m 34s

1200 RTLT=19h 7m 46s

0000 RTLT=19h 7m 56s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
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: 10/30/02 - 11:44

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 8, 2002  
312-313

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 : 24h 9m 56s

1200 RTLT=24h 10m 4s

0000 RTLT=24h 10m 12s

VOYAGER 1

↓ 1906 SLEW->HELIO-6A

FDSL : 11AF

TAPPOS 0657 | - - - -

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1335 | - - - - - 65 [D] - - - - - | 1920

2320 | - - - - 15 [D] - - - - | 0205

0145 - 0725 | - - - - - 45 [D] - - - - - |

DSN COVERAGE  
HPTXR

32

- - - - - 34 [o] - - - - - | 1405

0605 | - - - 43 [D] - -

HPTXR

RTLT : 19h 7m 56s

1200 RTLT=19h 8m 8s

0000 RTLT=19h 8m 18s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
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: 10/30/02 - 11:44

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  
NOVEMBER 9, 2002  
313-314

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 : 24h 10m 12s

VOYAGER 1

FDSL : 11AF

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

0959 | 1000 PWS/RH

↓ 1906 SLEW->HELIO-5A

-- | 0834 TAPPOS 1207 | TAPPOS - | 1358

0959  
GS-4B 1000

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

CR-5T  
160(32)

31

1650 | ----- 15 [D] ----- | 0220

DSN COVERAGE

HPTXR

32

HPTXR

----- 43 [D] ----- | 1225 0605 | -- 43 [D] --

1205 | -- 45 [D] -- | 1415

2255 | ----- 34 [D] ----- | 0205

RTLT : 19h 8m 18s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

1200 RTLT=19h 8m 30s

0000 RTLT=19h 8m 40s

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

VOYAGER COVERAGE

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

NOTES

[1] S/C 31=GS-4B @ 0959 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: 10/30/02 - 11:44

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  
NOVEMBER 10, 2002  
314-315

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 : 24h 10m 26s

1200 RTLTL=24h 10m 34s

0000 RTLTL=24h 10m 42s

VOYAGER 1

↓ 1906 SLEW->HELIO-4A

FDSL : 11AF

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1335 |----- 65 [D] -----| 1900

0255 |----- 45 [D] -----| 0645

2315 |----- 25 [D] -----| 0225

DSN COVERAGE  
HPTXR

32

----- 43 [D] -----| 1345

45 [D] 0730 |-----

HPTXR

RTLTL : 19h 8m 40s

1200 RTLTL=19h 8m 50s

0000 RTLTL=19h 9m 2s

VOYAGER 2

FDSL : 11AF

CCSL : B117  
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: 10/30/02 - 11:44

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  
NOVEMBER 11, 2002  
315-316

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 : 24h 10m 42s

1200 RTLTL=24h 10m 50s

0000 RTLTL=24h 10m 58s

VOYAGER 1

↓ 1906 SLEW->HELIO-3A

FDSL : 11AF

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1330 | --- 65 [D] --- | 1555

0200 - 0715 | ----- 45 [D] ----- |

1535 | ----- 63 [D] ----- | 1955

2210 | ----- 25 [D] ----- | 0220

DSN COVERAGE  
HPTXR

32

----- 45 [D] ----- | 1410

0545 | -- 43 [B] --

HPTXR

RTLTL : 19h 9m 2s

1200 RTLTL=19h 9m 12s

0000 RTLTL=19h 9m 22s

VOYAGER 2

↓ 1917 BEGIN SEQUENCE B118

FDSL : 11AF

CCSL : B117  
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: 10/30/02 - 11:44

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  
NOVEMBER 12, 2002  
316-317

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 : 24h 10m 58s

1200 RTLTL=24h 11m 6s

0000 RTLTL=24h 11m 12s

VOYAGER 1

↓ 1906 SLEW->HELIO-2A

0336 | 0337 PWS/RH

FDSL : 11AF

▼ 1630 DUMMY (16:41)

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

U/L 1830 |----- TLC (SHORT-FORM) -----

0336  
GS-4B 0337

FDS MODE  
XB DATA RATE (MI)

CR-5T

CR-5T

160(32)

160(32)

31

1550 |----- 63 [T] -----| 1950

1930 |----- 25 [D] -----| 0220

DSN COVERAGE  
HPTXR

32

43 [B] |-----| 1440

0600 |----- 45 [D] -----

0230 |----- 34 [D] -----| 0620

HPTXR

RTLTL : 19h 9m 22s

1200 RTLTL=19h 9m 34s

0000 RTLTL=19h 9m 44s

VOYAGER 2

0228 | 0228 PWS/RH

FDSL : 11AF

▼ 1332 DUMMY (5 MIN BRACKETED 8:42)

CCSL : B118  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

0228  
GS-4B 0228

FDS MODE  
XB DATA RATE (MI)

CR-5T

CR-5T

160(32)

160(32)

VOYAGER COVERAGE

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

NOTES

[1] S/C 32=GS-4B @ 0228 XB=2.8K(41) NOT RECOVERABLE  
[2] S/C 31=GS-4B @ 0336 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: 10/30/02 - 11:44

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  
NOVEMBER 13, 2002  
317-318

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 : 24h 11m 12s

1200 RTLTL=24h 11m 20s

0000 RTLTL=24h 11m 28s

VOYAGER 1

↓ 1906 SLEW->HELIO-1A

1951 | PLSCAL -| 2134

1951 | --- MAGCAL --- | 2254

1951 | --- PESCAL --- | 2311

FDSL : 11AF

CCSL : A045

TWNC : ON

SB : OFF XB : LOW

PYR : .05 / .10 / .25

GYROS : OFF

----- TLC (SHORT-FORM) ----- | D/L -| 2009

FDS MODE

XB DATA RATE (MI)

CR-5T

160(32)

31

1525 | --- 65 [D] --- | 1850

1830 | --- 25 [D] --- | 0215

DSN COVERAGE

HPTXR

32

----- 45 [D] ----- | 1320

0440 | --- 45 [D] ---

HPTXR

RTLTL : 19h 9m 44s

1200 RTLTL=19h 9m 54s

0000 RTLTL=19h 10m 6s

VOYAGER 2

FDSL : 11AF

CCSL : B118

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: 10/30/02 - 11:44

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 14, 2002  
318-319

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 : 24h 11m 28s

1200 RTLT=24h 11m 34s

0000 RTLT=24h 11m 42s

VOYAGER 1

FDSL : 11AF

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1530 |----- 63 [D] -----| 1930

0010 |----- 14 [D] -----| 0305

DSN COVERAGE  
HPTXR

32

----- 45 [D] -----| 1400

2200 |----- 45 [D] -----

HPTXR

RTLT : 19h 10m 6s

1200 RTLT=19h 10m 16s

0000 RTLT=19h 10m 26s

VOYAGER 2

FDSL : 11AF

CCSL : B118  
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: 10/30/02 - 11:44

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 15, 2002  
319-320

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 : 24h 11m 42s

1200 RTLTL=24h 11m 50s

0000 RTLTL=24h 11m 56s

VOYAGER 1

FDSL : 11AF

0634 TAPPOS

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1330 |-----65 [D]-----| 1845

1910 |-----15 [D]-----| 0210

DSN COVERAGE  
HPTXR

32

HPTXR

-----45 [D]-----| 1150

0215 |-----34 [D]-----

RTLTL : 19h 10m 26s

1200 RTLTL=19h 10m 36s

0000 RTLTL=19h 10m 46s

VOYAGER 2

FDSL : 11AF

CCSL : B118  
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: 10/30/02 - 11:44

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  
NOVEMBER 16, 2002  
320-321

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 : 24h 11m 56s

0936 | 0937 PWS/RH

VOYAGER 1

FDSL : 11AF

| 0811 TAPPOS 1134 | TAPPOS | 1307

CCSL : A045

TWNC : ON

SB : OFF XB : LOW

PYR : .05 / .10 / .25

GYROS : OFF

0936  
GS-4B 0937

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

CR-5T  
160(32)

31

1330 | ----- 65 [D] ----- | 1840

2200 | ----- 15 [D] ----- | 0200

DSN COVERAGE

HPTXR

32

----- 34 [D] ----- | 1325

2205 | ----- 45 [D] -----

HPTXR

RTLTL : 19h 10m 46s

| 1200 RTLTL=19h 10m 58s

| 0000 RTLTL=19h 11m 8s

VOYAGER 2

FDSL : 11AF

CCSL : B118

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 @ 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

ISSUE DATE: 10/30/02 - 11:44

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  
NOVEMBER 17, 2002  
321-322

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 : 24h 12m 10s

1200 RTLTL=24h 12m 18s

0000 RTLTL=24h 12m 24s

VOYAGER 1

FDSL : 11AF

CCSL : A045  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1515 |----- 65 [D] -----| 1835

2300 |----- 25 [D] -----| 0200

DSN COVERAGE HPTXR

32

----- 45 [D] -----| 1200

0600 |----- 45 [D] -----

HPTXR

RTLTL : 19h 11m 8s

1200 RTLTL=19h 11m 18s

0000 RTLTL=19h 11m 28s

VOYAGER 2

FDSL : 11AF

CCSL : B118  
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