

ISSUE DATE: 01/27/99 - 07:10

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  
JANUARY 28, 1999  
028-029

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 : 20h 18m 38s

1200 RTLTL=20h 18m 38s

0000 RTLTL=20h 18m 36s

VOYAGER 1

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS :

S/C 31 STATUS
FDS CLOCK DRIFT: ADD TO S/C EVENT ERT: -16.488 sec
ROLLREF = RIGIL KENTAURUS

↓ 1940 SLEW->HELIO-4C

SLEW->HELIO-5C 0740 ↓

FDS MODE  
XB DATA RATE (MI)

CR-5T

160 (32)

31 -----| 0855 63 [D] -----| 1140 |----- 14 [D] -----| 1640 -----| 0235 |----- 63 [D] -----| 0645

HPTXR

DSN COVERAGE

32

1630 |----- 15 [D] -----| 2150

1755 |----- 43 [B] -----| 2245 -----| 0430 |----- 34 [D] -----|

HPTXR

RTLTL : 16h 1m 22s

1200 RTLTL=16h 1m 22s

0000 RTLTL=16h 1m 24s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 21.379 sec
ROLLREF = VEGA

▼ 1822 DUMMY (BRACKETED 5MIN NO D/L)

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: 01/27/99 - 07:10

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  
JANUARY 29, 1999  
029-030

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 : 20h 18m 36s

VOYAGER 1

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS :

↓ 1222 GYRO INIT  
↓ 1222 GYROS AB ON  
↓ 1232 GYRO FAULT TEST  
1337 || 1340 CCSTIM(B)

↓ 1939 SLEW->HELIO-6C

SLEW->HELIO-7C 0739 ↓

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

31

1020 |----- 14 [D] -----| 1545

61 [D] 0800

DSN COVERAGE  
HPTXR

32

---| 0840 34 [D]

0315 |----- 34 [D] -----|

HPTXR

RTLTL : 16h 1m 24s

VOYAGER 2

FDSL : 11AF

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

1200 RTLTL=16h 1m 24s

0000 RTLTL=16h 1m 26s

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: 01/27/99 - 07:10

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  
JANUARY 30, 1999  
030-031

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 : 20h 18m 34s

1200 RTLTL=20h 18m 32s

0000 RTLTL=20h 18m 32s

VOYAGER 1

↓ 1939 SLEW->HELIO-8C

SLEW->HELIO-9C 0739 ↓

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

31 ----- 61 [D] ----- | 0800 - 1045 |----- 0230 |----- 63 [D] -----

1050 |----- 24 [D] ----- | 1345

DSN COVERAGE  
HPTXR

32 -- | 0835 34 [D]

0200 |----- 34 [D] ----- | 0630

HPTXR

RTLTL : 16h 1m 26s

1200 RTLTL=16h 1m 28s

0000 RTLTL=16h 1m 28s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
JANUARY 31, 1999  
031-032

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 : 20h 18m 32s  
 VOYAGER 1  
 FDSL : 11AF  
 CCSL : A030  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05/ .10/ .25  
 GYROS : ON

1200 RTLT=20h 18m 30s  
 0000 RTLT=20h 18m 30s

↓ 1939 SLEW->HELIO-10C  
 SLEW->MIDPNT-C 0739 ↓

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

31 63 [D] | 0900  
 1630 | ----- 25 [D] ----- | 2115  
 0225 | ----- 63 [D] -----

DSN COVERAGE HPTXR

32 0200 - 0725 | ----- 34 [D] ----- |

HPTXR

RTLT : 16h 1m 28s  
 VOYAGER 2  
 FDSL : 11AF  
 CCSL :  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05/ .10/ .25  
 GYROS : OFF

1200 RTLT=16h 1m 30s  
 0000 RTLT=16h 1m 30s

FDS MODE CR-5T  
 XB DATA RATE (MI) 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: 01/27/99 - 07:10

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  
FEBRUARY 1, 1999  
032-033

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 : 20h 18m 30s

1200 RTLTL=20h 18m 28s

0000 RTLTL=20h 18m 26s

VOYAGER 1

↓ 1912 SLEW->HELIO-11C

SLEW->HELIO-12C 0739 ↓

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

31 ---|0850 63 [D]

1435 |-----25 [D]-----| 2110

0220 - 0800 |-----63 [D]-----|

DSN COVERAGE  
HPTXR

32

1640 |-----43 [D]-----| 2215

2210 - 0730 |-----34 [o]-----|

HPTXR

RTLTL : 16h 1m 30s

1200 RTLTL=16h 1m 32s

0000 RTLTL=16h 1m 32s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 2, 1999  
033-034

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 : 20h 18m 26s

1200 RTLT=20h 18m 26s

0000 RTLT=20h 18m 24s

VOYAGER 1

↓ 1322 GYRO INIT

FDSL : 11AF

↓ 1939 SLEW->HELIO-13C  
2139 | 2140 PWS/RH

SLEW->HELIO-14C 0739 ↓

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

2139  
GS-4B 2140

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160 (32)

CR-5T  
160(32)

31 0800 63 [D]

1435 |----- 25 [D] -----| 2105

0215 |----- 63 [D] -----| 0645

DSN COVERAGE  
HPTXR

32

1700 |----- 43 [D] -----| 2045

0040 |----- 34 [o] -----|

HPTXR

RTLT : 16h 1m 32s

1200 RTLT=16h 1m 32s

0000 RTLT=16h 1m 34s

VOYAGER 2

2054 | 2054 PWS/RH  
2105 |----- DTR MAINT -----| 0231

0233 | 0235 TAPPOS

FDSL : 11AF

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

2054  
GS-4B 2054

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 @ 2054 XB=2.8K(41) NOT RECOVERABLE  
[2] S/C 31=GS-4B @ 2139 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: 01/27/99 - 07:10

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  
FEBRUARY 3, 1999  
034-035

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 : 20h 18m 24s

1200 RTLT=20h 18m 22s

0000 RTLT=20h 18m 20s

VOYAGER 1

FDSL : 11AF

CCSL : A030

TWNC : ON

SB : OFF XB : LOW

PYR : .05/ .10/ .25

GYROS : ON

1355 | PLSCAL | 1537

1355 | --- MAGCAL --- | 1657

1355 | --- PESCAL --- | 1715

↓ 1939 SLEW->HELIO-15C

SLEW->HELIO-16C 0739 ↓

FDS MODE

XB DATA RATE (MI)

CR-5T

160(32)

31

1100 |----- 24 [D] -----| 1720

0215 |----- 63 [D] -----| 0645

HPTXR

DSN COVERAGE

32

0820 34 [o]

1630 |----- 43 [D] -----| 2225

0545 |--- 43 [B] ---

HPTXR

2205 |----- 42 [D] -----| 0605

RTLT : 16h 1m 34s

1200 RTLT=16h 1m 34s

0000 RTLT=16h 1m 34s

VOYAGER 2

FDSL : 11AF

CCSL :

TWNC : ON

SB : OFF XB : LOW

PYR : .05/ .10/ .25

GYROS : OFF

DUMMY (BRACKETED 5MIN 23:04) 0702 ▼

FDS MODE

XB DATA RATE (MI)

CR-5T

160(32)

VOYAGER COVERAGE

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

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: 01/27/99 - 07:10

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  
FEBRUARY 4, 1999  
035-036

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 : 20h 18m 20s

1200 RTLT=20h 18m 20s

0000 RTLT=20h 18m 18s

VOYAGER 1

▼ 1555 DUMMY (12:13)

FDSL : 11AF

U/L 1615 | - | - - - - - TLC (SHORT-FORM) - - - - -

↓ 1939 SLEW->HELIO-17C

SLEW->HELIO-18C 0739 ↓

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1500 | - - - - - 24 - - - - - | 2100

DSN COVERAGE  
HPTXR

32

0845 43 [B]

1630 | - - - - - 43 [D] - - - - - | 2205

2215 | - - - - - 34 [o] - - - - - | 0600

HPTXR

RTLT : 16h 1m 34s

1200 RTLT=16h 1m 34s

0000 RTLT=16h 1m 36s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 5, 1999  
036-037

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 : 20h 18m 18s

1200 RTLTL=20h 18m 16s

0000 RTLTL=20h 18m 14s

VOYAGER 1

↓ 1955 X/B LOW POWER  
↓ 1959 BAY 1 HTR ON

----- TLC (SHORT-FORM) ----- | D/L - | 1401

SLEW->HELIO-20C 0739 ↓

FDSL : 11AF

↓ 1332 AAI  
↓ 1310 BAY 1 HTR OFF  
↓ 1314 X/B HI POWER

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : ON

1335 |----- MAGROL -----| 1930  
↓ 1923 RAI  
↓ 1930 CRU  
↓ 1930 GYROS OFF  
↓ 1939 SLEW->HELIO-19C

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31

1045 |----- 14 [D] -----| 1555

0205 |----- 63 [D] -----|

1535 |----- 24 [D] -----| 2055

DSN COVERAGE  
HPTXR

32

1625 |----- 43 [D] -----| 2205

2200 |----- 34 [o] -----|

HPTXR

RTLTL : 16h 1m 36s

1200 RTLTL=16h 1m 36s

0000 RTLTL=16h 1m 36s

VOYAGER 2

FDSL : 11AF

CCSL :  
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 - D/L AGC VARIATIONS EXPECTED DURING MAGROL (1335-1930)

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: 01/27/99 - 07:10

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  
FEBRUARY 6, 1999  
037-038

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 : 20h 18m 14s

1200 RTLT=20h 18m 14s

0000 RTLT=20h 18m 12s

VOYAGER 1

↓ 1910 SLEW->HELIO-1B

SLEW->HELIO-2B 0739 ↓

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31 | 0815 63 [D]

1445 |----- 24 [D] -----| 2050

0200 |----- 63 [D] -----|

DSN COVERAGE  
HPTXR

32 | 0810 34 [o]

1620 |----- 43 [D] -----| 2220

0305 |----- 42 [D] -----| 0705

HPTXR

RTLT : 16h 1m 36s

1200 RTLT=16h 1m 36s

0000 RTLT=16h 1m 36s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 7, 1999  
038-039

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 : 20h 18m 12s

1200 RTLTL=20h 18m 10s

0000 RTLTL=20h 18m 8s

VOYAGER 1

↓ 1939 SLEW->HELIO-3B

SLEW->HELIO-4B 0739 ↓

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31 | 0815 63 [D] | 1130 |----- 24 [D] -----| 1445 | 0200 |----- 63 [D] -----|

DSN COVERAGE  
HPTXR

32 | 1615 |----- 43 [D] -----| 2215

HPTXR

RTLTL : 16h 1m 36s

1200 RTLTL=16h 1m 36s

0000 RTLTL=16h 1m 36s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 8, 1999  
039-040

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 : 20h 18m 8s

1200 RTLTL=20h 18m 6s

0000 RTLTL=20h 18m 4s

VOYAGER 1

↓ 1939 SLEW->HELIO-5B

SLEW->HELIO-6B 0739 ↓

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31 | 0815 63 [D]

1400 | ----- 24 [D] ----- | 1845

0205 | ----- 63 [D] -----

DSN COVERAGE  
HPTXR

32

1615 | ----- 43 [D] ----- | 2045

HPTXR

RTLTL : 16h 1m 36s

1200 RTLTL=16h 1m 36s

0000 RTLTL=16h 1m 36s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 9, 1999  
040-041

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 : 20h 18m 4s

1200 RTLTL=20h 18m 4s

0000 RTLTL=20h 18m 2s

VOYAGER 1

↓ 1939 SLEW->HELIO-7B  
2115 | 2116 PWS/RH

FDSL : 11AF

U/L 0540 | - |  
TLC (SHORT-FORM) | - - - - - |  
SLEW->HELIO-8B 0739 ↓

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

2115  
GS-4B 2116

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

CR-5T  
160(32)

31 | 0815 63 [D]

1345 | - - - - - 24 [D] - - - - - | 2040

0205 | - - - - - 63 [T] - - - - - | 0645

DSN COVERAGE  
HPTXR

32

1610 | - - - - - 43 [D] - - - - - | 2210

HPTXR

RTLTL : 16h 1m 36s

1200 RTLTL=16h 1m 36s

0000 RTLTL=16h 1m 36s

VOYAGER 2

2030 | 2030 PWS/RH  
2207 | PLSCAL - | 2350  
2207 | - - - - - MAGCAL - - - - - | 0110  
2207 | - - - - - PESCAL - - - - - | 0127

FDSL : 11AF

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

2030  
GS-4B 2030

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 @ 2030 XB=2.8K(41) NOT RECOVERABLE  
[2] S/C 31=GS-4B @ 2115 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: 01/27/99 - 07:10

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  
FEBRUARY 10, 1999  
041-042

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 : 20h 18m 2s

1200 RTLTL=20h 18m 0s

0000 RTLTL=20h 17m 58s

VOYAGER 1

↓ 1939 SLEW->HELIO-9B

FDSL : 11AF

SLEW->HELIO-10B 0739 ↓

TLC (SHORT-FORM)

D/L 0326

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31

1115 54 [D] 1225

0145 ----- 63 [D] ----- 0645

DSN COVERAGE  
HPTXR

32

1815 ----- 43 [B] ----- 2205

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

HPTXR

RTLTL : 16h 1m 36s

1200 RTLTL=16h 1m 36s

0000 RTLTL=16h 1m 36s

VOYAGER 2

▼ 1842 DUMMY (BRACKETED 5MIN NO D/L)

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 11, 1999  
042-043

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 : 20h 17m 58s

1200 RTLT=20h 17m 56s

0000 RTLT=20h 17m 54s

VOYAGER 1

↓ 1939 SLEW->MIDPNT-B

SLEW->HELIO-11B 0713 ↓

FDSL : 11AF

▼ 1745 DUMMY (14:03)

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1420 |--- 14 [D] ---| 1630

0140 |----- 63 [D] -----|

1615 |----- 24 -----| 2030

HPTXR

DSN COVERAGE

32

| 0810 45 [D]

1600 |----- 43 [D] -----| 2205

HPTXR

RTLT : 16h 1m 36s

1200 RTLT=16h 1m 36s

0000 RTLT=16h 1m 36s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 12, 1999  
043-044

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 : 20h 17m 54s

1200 RTLT=20h 17m 52s

0000 RTLT=20h 17m 50s

VOYAGER 1

↓ 1939 SLEW->HELIO-12B

SLEW->HELIO-13B 0739 ↓

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31 -- | 0830 63 [D]

1345 |----- 24 [D] -----| 2030

0515 |---- 61 [D] ----

DSN COVERAGE  
HPTXR

32

1600 |----- 43 [D] -----| 2200

0335 |----- 34 [o] -----| 0700

HPTXR

RTLT : 16h 1m 36s

1200 RTLT=16h 1m 34s

0000 RTLT=16h 1m 34s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 13, 1999  
044-045

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 : 20h 17m 50s

1200 RTLT=20h 17m 48s

0000 RTLT=20h 17m 46s

VOYAGER 1

↓ 1939 SLEW->HELIO-14B

SLEW->HELIO-15B 0739 ↓

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31 61 [D] | 0915

1330 | ----- 24 [D] ----- | 2025

0145 | ----- 63 [D] -----

DSN COVERAGE  
HPTXR

32

1600 | ----- 43 [o] ----- | 0255

HPTXR

RTLT : 16h 1m 34s

1200 RTLT=16h 1m 34s

0000 RTLT=16h 1m 34s

VOYAGER 2

FDSL : 11AF

CCSL :  
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: 01/27/99 - 07:10

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  
FEBRUARY 14, 1999  
045-046

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 : 20h 17m 46s

1200 RTLT=20h 17m 44s

0000 RTLT=20h 17m 42s

VOYAGER 1

↓ 1939 SLEW->HELIO-16B

SLEW->HELIO-17B 0739 ↓

FDSL : 11AF

CCSL : A030  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

31 | 0830 63 [D] | 0130 | 63 [D] |  
0955 |----- 24 [D] -----| 2020

DSN COVERAGE  
HPTXR

32 | 1550 |----- 43 [D] -----| 2155 | 0315 - 0715 |----- 34 [D] -----|

HPTXR

RTLT : 16h 1m 34s

1200 RTLT=16h 1m 32s

0000 RTLT=16h 1m 32s

VOYAGER 2

FDSL : 11AF

CCSL :  
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