

# VOYAGER

## Space Flight Operations Schedule (SFOS)

Issue Date: September 24, 2003

For the Period: 09/25/03 to 10/12/03 (03-268 - 03-285)

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**NOPEs (1)**  
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**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  
 D = Downlink only pass  
 A = Arrayed station  
 U = Uplink only pass  
 B = BLF  
 [o] = Ramp-through  
 H = High Power Transmitter  
 T = TLC Uplink

\*Electronic Copy Only  
 (23 – Dist/N: Paper Copies)  
 9/03/03

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
SEPTEMBER 25, 2003  
268-269

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

RTLT : 24h 54m 58s

1200 RTLT=24h 55m 8s

0000 RTLT=24h 55m 20s

VOYAGER 1

S/C 31 STATUS

FDSL : 11AF

▼ 0015 DUMMY (01:10)

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

FDS CLOCK DRIFT:  
ADD TO S/C EVENT  
ERT: 22.847 sec

U/L 0100 | - | - - - - - TLC (SHORT-FORM) - - - - -

ROLLREF = RIGIL  
KENTAURUS

FDS MODE  
XB DATA RATE (MI)

CR-5T

160 (32)

31

1715 | - - - - - 54 [D] - - - - - | 2040

2025 | - - - - - 26 [D] - - - - - | 2340

2345 | - - - - - 14 [T] - - - - - | 0345

DSN COVERAGE HPTXR

32

1045 | - - - - - 43 [o] - - - - - | 1730

0130 | - - - - - 45 [D] - - - - -

HPTXR

RTLT : 19h 42m 36s

1200 RTLT=19h 42m 48s

0000 RTLT=19h 42m 58s

----- COMMAND MORATORIUM ----- | 1916

VOYAGER 2

S/C 32 STATUS

FDSL : 11AF

FDS CLOCK DRIFT:  
ADD TO S/C EVENT  
ERT: -2:49.435 min

CCSL : B121  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

ROLLREF = VEGA

FDS MODE  
XB DATA RATE (MI)

CR-5T

160 (32)

VOYAGER COVERAGE

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

NOTES

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

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
SEPTEMBER 26, 2003  
269-270

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

RTLT : 24h 55m 20s  
 VOYAGER 1  
 FDSL : 11AF  
 CCSL : A048  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05/ .10/ .25  
 GYROS : OFF

↓ 1400 GYROS AB ON  
 ↓ 1401 GYRO INIT  
 ↓ 1410 GYRO FAULT TEST

----- TLC (SHORT-FORM) -----| D/L -| 0323

---

FDS MODE  
 XB DATA RATE (MI)

CR-5T  
 160 (32)

---

31  
 1230 |----- 65 [D] -----| 1950  
 1930 |----- 15 [D] -----| 0520

DSN COVERAGE HPTXR

---

32  
 45 [D] ---| 0920  
 1500 |--- 45 [D] ---| 1720  
 0120- 0620 |----- 45 [D] -----|

HPTXR

RTLT : 19h 42m 58s  
 VOYAGER 2  
 FDSL : 11AF  
 CCSL : B121  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05/ .10/ .25  
 GYROS : OFF

1200 RTLT=19h 43m 10s  
 0000 RTLT=19h 43m 22s

---

FDS MODE  
 XB DATA RATE (MI)

CR-5T  
 160 (32)

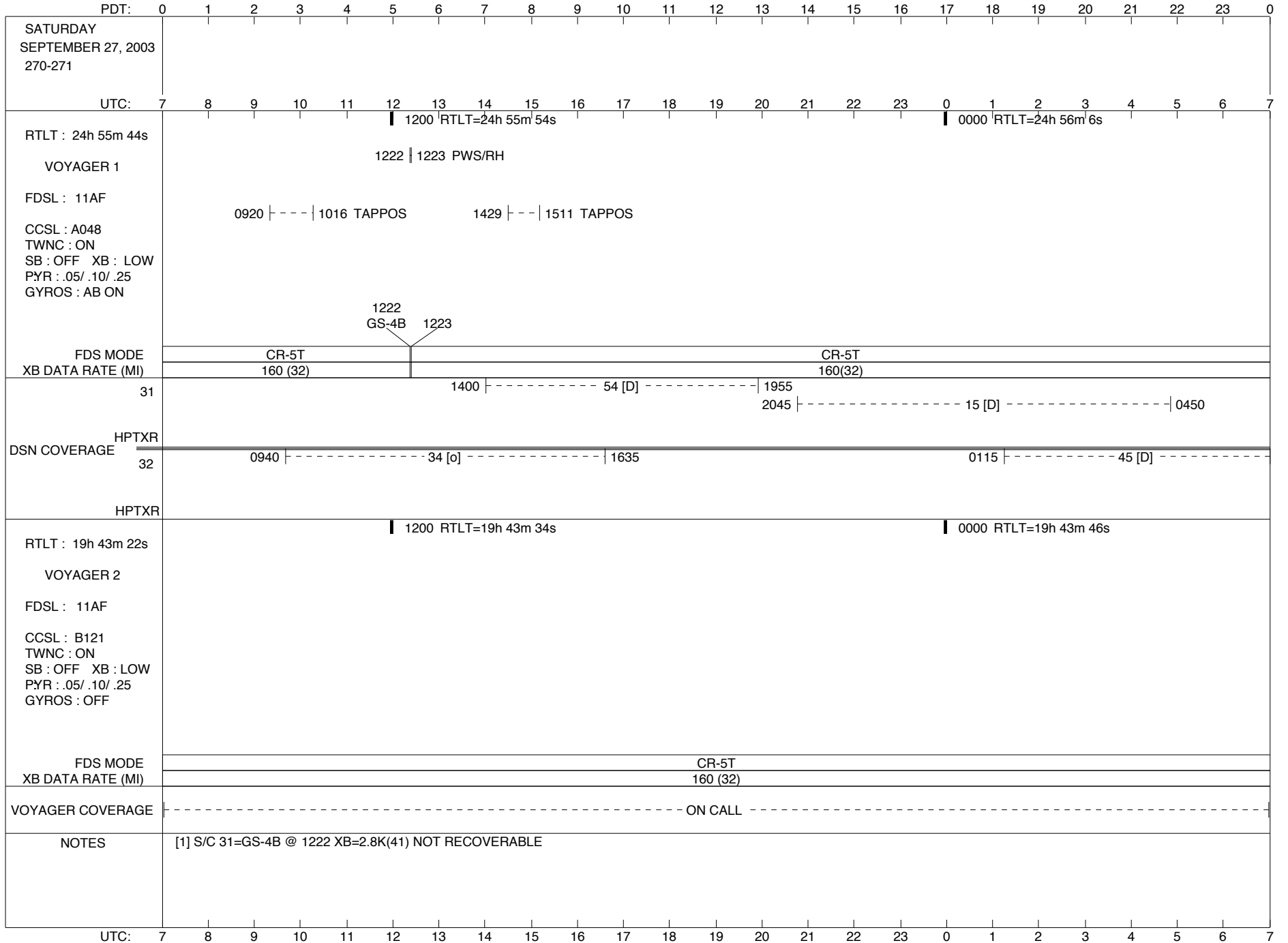
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VOYAGER COVERAGE ----- ON CALL -----| VGR -|----- ON CALL -----|

NOTES

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

ISSUE DATE: 09/24/03 - 08:58



ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
SEPTEMBER 28, 2003  
271-272

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

RTLT : 24h 56m 6s

1200 RTLT=24h 56m 18s

0000 RTLT=24h 56m 28s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : AB ON

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

0155 |-----43 [D]-----|0545

2030 |-----26 [D]-----|0105

DSN COVERAGE HPTXR

32

---45 [D]---|0915

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

HPTXR

RTLT : 19h 43m 46s

1200 RTLT=19h 43m 56s

0000 RTLT=19h 44m 8s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
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: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
SEPTEMBER 29, 2003  
272-273

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

RTLT : 24h 56m 28s  
 VOYAGER 1  
 FDSL : 11AF  
 CCSL : A048  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05/ .10/ .25  
 GYROS : AB ON

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

31 1345 |----- 54 [D] -----| 1950

DSN COVERAGE HPTXR  
32 --- 45 [D] --- | 0910

HPTXR

RTLT : 19h 44m 8s  
 VOYAGER 2  
 FDSL : 11AF  
 CCSL : B121  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05/ .10/ .25  
 GYROS : OFF

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

1200 RTLT=19h 44m 20s 0000 RTLT=19h 44m 32s

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

NOTES

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

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
SEPTEMBER 30, 2003  
273-274

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

RTLTL : 24h 56m 52s

1200 RTLTL=24h 57m 2s

0000 RTLTL=24h 57m 14s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : AB ON

↓ 2016 ALL DB=.05  
↓ 2032 AAI  
2033 | - | 2110 ASCAL  
U/L 2300 | - | ----- TLC (SHORT-FORM) -----

↓ 2108 RAI  
↓ 2110 CRU  
↓ 2119 ROLL=.25  
↓ 2119 YAW=.10  
↓ 2110 GYROS OFF

PWS/RH 0559 | 0600

▼ 2215 DUMMY (23:12)

0559  
GS-4B 0600

FDS MODE  
XB DATA RATE (MI)

CR-5T

2001 2113

EL-40

CR-5T

CR-5T

160(32)

40(30)

160(32)

31

1340 | ----- 54 [D] ----- | 1930

1910 | ----- 14 [T,4] ----- | 0020

0030 | ----- 24 [D] ----- | 0400

DSN COVERAGE  
HPTXR

32

0820 | ----- 34 [D] ----- | 1615

HPTXR

RTLTL : 19h 44m 32s

1200 RTLTL=19h 44m 44s

0000 RTLTL=19h 44m 56s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05/ .10/ .25  
GYROS : OFF

0445 | 0446 PWS/RH

FDS MODE  
XB DATA RATE (MI)

CR-5T

CR-5T

160 (32)

160(32)

0445  
GS-4B 0446

VOYAGER COVERAGE

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

NOTES

- [1] S/C 31 - D/L AGC/SNR VARIATIONS EXPECTED DURING ASCAL (2033-2110)
- [2] S/C 32=GS-4B @ 0445 XB=2.8K(41) NOT RECOVERABLE
- [3] S/C 31=GS-4B @ 0559 XB=2.8K(41) NOT RECOVERABLE
- [4] DUAL TLM STREAM SUPPORT

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

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 1, 2003  
274-275

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

RTLT : 24h 57m 14s

1200 RTLT=24h 57m 24s

0000 RTLT=24h 57m 36s

VOYAGER 1

FDSL : 11AF

TLC (SHORT-FORM)

D/L 0125

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1935

26 [D]

0435

1720 54 [D] 1940

DSN COVERAGE  
HPTXR

32

1035 43 [B]

1705

0310

34 [D]

HPTXR

34 [D] 0730 - 1055

0125 45 [D] 0330

RTLT : 19h 44m 56s

1200 RTLT=19h 45m 6s

0000 RTLT=19h 45m 18s

VOYAGER 2

▼ 1517 DUMMY (5 MIN BRACKETED 11:03)

FDSL : 11AF

CCSL : B121  
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: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7



ISSUE DATE: 09/24/03 - 08:58

PDT: 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 2, 2003  
275-276

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

RTLT : 24h 57m 36s

1200 RTLT=24h 57m 48s

0000 RTLT=24h 57m 58s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1445 |----- 54 [D] -----| 1915

2045 |----- 24 [D] -----| 0230

DSN COVERAGE  
HPTXR

32

----- 34 [D] ----- | 1140

0100 |----- 45 [D] -----

HPTXR

RTLT : 19h 45m 18s

1200 RTLT=19h 45m 30s

0000 RTLT=19h 45m 42s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
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: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 3, 2003  
276-277

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

RTLTL : 24h 57m 58s

1200 RTLTL=24h 58m 10s

0000 RTLTL=24h 58m 20s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1500 |-----54 [D]-----| 1915

1930 |-----26 [D]-----| 0155

DSN COVERAGE HPTXR

32

---45 [D]---| 0900

0405 |-----43 [D]-----|

HPTXR

RTLTL : 19h 45m 42s

1200 RTLTL=19h 45m 54s

0000 RTLTL=19h 46m 6s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
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: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 4, 2003  
277-278

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

RTLTL : 24h 58m 20s  
 VOYAGER 1  
 FDSL : 11AF  
 CCSL : A048  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05 / .10 / .25  
 GYROS : OFF

1200 RTLTL=24h 58m 32s  
 0000 RTLTL=24h 58m 42s

1159 | 1200 PWS/RH

0857 | - | 0925 TAPPOS  
 1407 | | 1421 TAPPOS

1159  
GS-4B 1200

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

31 1325 |-----54 [D]-----| 1930 0135 |-----43 [D]-----|

1925 |-----26 [D]-----| 2300

HPTXR

DSN COVERAGE 32 43 [D] | 0805 1050 |-----34 [o]-----| 1605 0340 |-----34 [D]-----|

HPTXR

RTLTL : 19h 46m 6s  
 VOYAGER 2  
 FDSL : 11AF  
 CCSL : B121  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05 / .10 / .25  
 GYROS : OFF

1200 RTLTL=19h 46m 18s  
 0000 RTLTL=19h 46m 28s

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

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

NOTES [1] S/C 31=GS-4B @ 1159 XB=2.8K(41) NOT RECOVERABLE

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

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 5, 2003  
278-279

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

RTLT : 24h 58m 42s  
 VOYAGER 1  
 FDSL : 11AF  
 CCSL : A048  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05 / .10 / .25  
 GYROS : OFF

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

1200 RTLT=24h 58m 54s  
 0000 RTLT=24h 59m 4s

31 ---| 0755 43 [D] ---  
 1500 |----- 54 [D] -----| 1925  
 1920 |----- 26 [D] -----| 2315  
 0125 - 0700 |----- 43 [D] -----

HPTXR  
 DSN COVERAGE  
 32 ---| 34 [D] ---| 0855  
 0045 |----- 45 [D] -----

HPTXR

RTLT : 19h 46m 28s  
 VOYAGER 2  
 FDSL : 11AF  
 CCSL : B121  
 TWNC : ON  
 SB : OFF XB : LOW  
 PYR : .05 / .10 / .25  
 GYROS : OFF

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

1200 RTLT=19h 46m 40s  
 0000 RTLT=19h 46m 52s

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

NOTES

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

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 6, 2003  
279-280

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

RTLT : 24h 59m 4s

1200 RTLT=24h 59m 16s

0000 RTLT=24h 59m 26s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31 0700 43 [D]

1705 | --- 63 [D] --- | 1920

1915 | ----- 26 [D] ----- | 2345

DSN COVERAGE HPTXR

32 --- 45 [D] --- | 0855

0420 | --- 45 [D] ---

HPTXR

RTLT : 19h 46m 52s

1200 RTLT=19h 47m 4s

0000 RTLT=19h 47m 16s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
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: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 7, 2003  
280-281

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

RTLT : 24h 59m 26s  
VOYAGER 1  
FDSL : 11AF  
CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

1200 RTLT=24h 59m 38s  
0000 RTLT=24h 59m 48s

▼ 1823 EL-40 (19:22)  
▼ 1846 ECR IMPL (19:45)  
▼ 1856 CCS TLMRST (19:55)

U/L 2145 |-----| TLC (SHORT-FORM)

▼ 1912 ECR AMRO (20:11)  
▼ 1919 ECR BMRO (20:18)  
▼ 1930 DUMMY (20:30)  
▼ 1947 CCSL A049 (20:46)  
▼ 2005 MRO TIC/CR-5 (21:04)

PWS/RH 0536 | 0537  
0536 GS-4B 0537

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

DSN COVERAGE

31  
HPTXR  
1755 |-----| 14 [T] |-----| 2240  
2220 |-----| 24 [D] |-----| 0410

32  
HPTXR  
45 [D] --| 0850  
1135 |-----| 43 [B] |-----| 1640

RTLT : 19h 47m 16s  
VOYAGER 2  
FDSL : 11AF  
CCSL : B121  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

1200 RTLT=19h 47m 28s  
0000 RTLT=19h 47m 40s

▼ 1512 DUMMY (5 MIN BRACKETED 11:00)

0423 | 0423 PWS/RH  
0423 GS-4B 0423

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

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

NOTES  
[1] S/C 32=GS-4B @ 0423 XB=2.8K(41) NOT RECOVERABLE  
[2] S/C 31=GS-4B @ 0536 XB=2.8K(41) NOT RECOVERABLE

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

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 8, 2003  
281-282

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

RTLTL : 24h 59m 48s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

1200 RTLTL=25h 0m 0s

0000 RTLTL=25h 0m 10s

\*  
2011 | 2016 ECR AMRO  
\*  
2018 | 2024 ECR BMRO

----- TLC (SHORT-FORM) -----

| D/L -| 0013

\*  
2052 | 2058 CCSL CHKSUM  
\*  
2104 | 2110 MRO TIC

\* 1923 \* 2111

FDS MODE  
XB DATA RATE (MI)

CR-5T

EL-40

CR-5T

160(32)

40(30)

160(32)

31

1120 |----- 65 [D] -----| 1520

1910 |----- 26 [D,1] -----| 0025

HPTXR  
DSN COVERAGE

32

|----- 43 [D] -----| 0745 - 1215

0400 |----- 34 [D] -----|

HPTXR

RTLTL : 19h 47m 40s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

1200 RTLTL=19h 47m 52s

0000 RTLTL=19h 48m 4s

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

VOYAGER COVERAGE

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

|--- VGR ---|

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

NOTES

[1] DUAL TLM STREAM SUPPORT

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

ISSUE DATE: 09/24/03 - 08:58

PDT: 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 9, 2003  
282-283

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

RTLT : 25h 0m 10s

1200 RTLT=25h 0m 20s

0000 RTLT=25h 0m 32s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1900 |----- 26 [D] -----| 0115

DSN COVERAGE HPTXR

32

-- 34 [D] --| 0845

0030 - 0700 |----- 45 [D] -----|

HPTXR

RTLT : 19h 48m 4s

1200 RTLT=19h 48m 14s

0000 RTLT=19h 48m 26s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
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: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7



ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 10, 2003  
283-284

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

RTLT : 25h 0m 32s

1200 RTLT=25h 0m 42s

0000 RTLT=25h 0m 52s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31

1900 |----- 26 [D] -----| 0025

0105 |----- 43 [D] -----|

DSN COVERAGE HPTXR

32

0700 45 [D]

0030 - 0620 |----- 45 [D] -----|

HPTXR

RTLT : 19h 48m 26s

1200 RTLT=19h 48m 38s

0000 RTLT=19h 48m 50s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
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: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 11, 2003  
284-285

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

RTLTL : 25h 0m 52s

1200 RTLTL=25h 1m 4s

0000 RTLTL=25h 1m 14s

VOYAGER 1

1137 | 1138 PWS/RH

FDSL : 11AF

0834 | 0835 TAPPOS

1344 | | 1357 TAPPOS

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

1137  
GS-4B 1138

FDS MODE  
XB DATA RATE (MI)

CR-5T  
160(32)

CR-5T  
160(32)

31

-- | 0730 43 [D] 1000 |----- 63 [D] ----- | 1515

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

HPTXR

1810 |----- 15 [D] ----- | 0025

DSN COVERAGE

32

0120 |----- 43 [O] -----

HPTXR

RTLTL : 19h 48m 50s

1200 RTLTL=19h 49m 2s

0000 RTLTL=19h 49m 14s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
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 @ 1137 XB=2.8K(41) NOT RECOVERABLE

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

ISSUE DATE: 09/24/03 - 08:58

PDT: 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  
OCTOBER 12, 2003  
285-286

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

RTLT : 25h 1m 14s

1200 RTLT=25h 1m 24s

0000 RTLT=25h 1m 34s

VOYAGER 1

FDSL : 11AF

CCSL : A048  
TWNC : ON  
SB : OFF XB : LOW  
PYR : .05 / .10 / .25  
GYROS : OFF

FDS MODE  
XB DATA RATE (MI)

CR-5T

160(32)

31 -- 45 [D] - | 0835

1500 |----- 54 [D] ----- | 1900

2050 |----- 15 [D] ----- | 0335

DSN COVERAGE  
HPTXR

32 -- | 0740 43 [o]

2335 |----- 43 [D] ----- | 0335

HPTXR

RTLT : 19h 49m 14s

1200 RTLT=19h 49m 26s

0000 RTLT=19h 49m 38s

VOYAGER 2

FDSL : 11AF

CCSL : B121  
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: 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7