Data Set Catalog #124
Mariner 5, Pioneer 6, 7, 8, 9
Two Frequency Beacon

D-06047 C-05015

1 tape

MARINER 5, PIONEER 6,7,8,9

TWO FREQUENCY BEACON

D-06047 and C-05015

SATELLITE	NSSDC ID	START TIME	STOP TIME
MARINER 5	67-060A-02C	SEPTEMBER 1, 1967	OCTOBER 26, 1967
PIONEER 6	65-105A-04D	JANUARY 9, 1966	May 25,1966
PIONEER 7	66-075A-04D	AUGUST 15, 1966	OCTOBER 26, 1967
PIONEER 8	66-123A-03C	DECEMBER 19, 1967	MARCH 7, 1971
PIONEER 9	68-100A-03C	NOVEMBER 11, 1968	MARCH 7, 1971

Tapes are 800, Binary, 7-Track, 3 Files.

File 1 contains data from Mariner 5 and Pioneer 7

File 2 contains data from Pioneer 6

File 3 contains data from Pioneer 8 and Pioneer 9

START-STOP TIMES

The third word is the time given in hours with a base of 1/1/66. To acquire date convert hexadecimal to decimal then divide by 24, to obtain the number of days from 1/1/66. If this number is less than 365, add 1 then convert Julien day to Calander day to obtain Start-Stop time, if this number is greater than 365, divid by 365 add quotient to 66 to obtain year, then take remainder add one and convert to Cakander day unless leap year.

ex. $3B96_{16}=25254_{10}$ ÷ 24 = 1052 + 365 = 2 with remainde~ of 322. 66+2=1968 (year). 322= November 18 (day).

Time = November 18, 1968

STOP-START TIMES

MARINER 5

START-TIME

$3908_{16} = 14602_{10}$

$\div 24$

608

$\div 365$

1r.243 Day = 243 +1=244 = Sept. 1, 1967

Year = 1966 + 1 = 1967

STOP-TIME

$3E25_{16} = 15909_{10}$

$\div 24$

663

$\div 365$

1r.298 Day = 298 + 1 = 299 = Oct. 26. 1967

Year = 1966 + 1 = 1967.

PIONEER 6

START-TIME

$CA_16 = 192_{10}$

$\div 24$

8 Day = 8 + 1 = 9 = January 9.1966

STOP-TIME

$D95_{16} = 3477_{10}$

$\div 24$

144 Day = 144 + 1 = 145 = May 25. 1966

PIONEER 7

START-TIME

$153C_{16} = 15909_{10}$

$\div 24$

$\div 365$

226 Day = 226 + 1 = 227 = Aug. 15, 1966

STOP-TIME

3E25 = 15909

$\div 24$

663

$\div 365$

1r.298 Day = 298 + 1 = 299 = Oct. 26, 1967

PIONEER 8

START-TIME

4344 = 17220
÷ 24
717
÷ 365
1r.352 Day = 352 + 1 = 353 = December 19, 1967
Year = 1966 + 1 = 1967

STOP-TIME

B13C = 45372
÷ 24
1890
÷ 365
5r,65 Day = 65 + 1 = 66 = March 7, 1971
Year = 1966 + 5 = 1971

PIONEER 9

START-TIME

61F2 = 25094
÷ 24
1045
÷ 365
2r.315 Day = 315 = November 11, 1968
Year = 1966 + 2 = 1968

STOP-TIME

B13C = 45372
÷ 24
1890
÷ 365
5r.65 Day = 65 + 1 = 66 = March 7, 1971
Year = 1966 + 5 = 1971