DATA SET CATALOG # 76

Mariner 2 -- Ephemeris
62-041A-00D 1 tape

62-041A-[redacted] 00D
MARINER 2
~~Celest'al Mechanics~~ Spacecraft

800 BPI, Binary, 7-track, 2 files, IBM 7094

| D# | C# | START | STOP |
|---|---|---|---|
| D-01537 | C-01053 | 08/27/62 | 01/04/63 |

62-0414-00A
62-0414-~~[illegible]~~00D

[illegible] FOR [illegible] II

[illegible] ON [illegible] No. 9154

Celestial mech

[illegible] Title 1 has the trajectory [illegible] (Sept. [illegible], 1968, [illegible]) [illegible] (Jan. 4, 1963, [illegible]) [illegible] 27, 1968, [illegible] [illegible] 1968, [illegible]

[illegible] Sept. 5, [illegible] [illegible] 1968, [illegible] to Dec. 16, [illegible] 1 hour [illegible]

[illegible] 27, [illegible] [illegible] Aug. 27, [illegible] and then 1 hour [illegible] to Sept. 5, [illegible]

[illegible] contents of the [illegible] given in the attached [illegible] [illegible] included which are Celestial [illegible], [illegible] [illegible], and [illegible] Bank.

[illegible] INFORMATION

DATE: July 26, 1965

REF: 315.21/[illegible]

TO: Distribution

FROM: [illegible]

SUBJECT: [illegible] Tape Format

An [illegible] feature of the trajectory [illegible] is the ability [illegible] records of [illegible] information on magnetic tape. [illegible] can be used as [illegible] a variety of trajectory-oriented [illegible] routine called [illegible] and is [illegible] subroutine [illegible]. The [illegible] allows [illegible] to access variables by [illegible] on the tape.

[illegible] trajectory-type data in a block called [illegible] called [illegible] at the beginning of the tape are [illegible] of the various tables and [illegible] the position of a [illegible] the location of the same [illegible] in the data [illegible] on the ID block.

The [illegible] record [illegible] the following information:

[illegible] items of the main table.
[illegible] of the main table items.
[illegible] subtables, [illegible] There are [illegible] subtables, [illegible] a total of [illegible] items [illegible] each [illegible] and [illegible] the labels [illegible] subtables [illegible]. The [illegible] record is the logical [illegible] of all previous [illegible].

[illegible], the main ID record [illegible] in the file. The [illegible] record always has [illegible] of the format:

[illegible] (File Number)
[illegible] $(\text{[illegible]}_2 + N_3 + 4 + \text{[illegible]} + N_5 + \text{[illegible]})$
[illegible] $N_2$
[illegible] $N_3$
[illegible] $N_4$
[illegible] $N_5$
[illegible] $0$ (0 [illegible])
Logical check [illegible]

The computer listing [illegible] the following [illegible] the items on the [illegible] Save Tape.

July 26, 1968

Distribution

On pages 11 and 12 are the listings of the 89 variables composing the main table. To the right of the [illegible] are the internal computer symbol used, the relative [illegible] the record, the description of each quantity, and the [illegible] used by READER to address each of these items are listed on pages 15 and 16.

On pages 12 and 13, opposite references to [illegible], are descriptions of the contents of each suitable variable. Page 14 shows the 5 suitable names, and page 17 shows the 36 names that READER [illegible] to get suitable variables.

[illegible]

Distribution:

[illegible] (5)
[illegible]
[illegible]
[illegible]