DATA SET CATALOG #86

Vela Ephemeris Data

67-040A-00E
67-040B-00E
69-046D-00E
69-046E-00E
70-027A-00E
70-027B-00E

} 1 tape

VELA EPHEMERIS DATA

This data consists of one 800 BPI, Binary, 7-track, IBM 7094 tape and its duplicate which is also 800 BPI, Binary, 7-track, IBM 7094 tape.

		File	Data Set
VELA (?)	6577	1	(?)
VELA 4A	6638	2	67-040A-00E
VELA 4B	6679	3	67-040B-00E
VELA 5A	6909	4	69-046D-00E
VELA 5B	6911	5	69-046E-00E
VELA 6A	7033	6	70-027A-00E
VELA 6B	7044	7	70-027B-00E

D#	C#	Start	Stop
D-02956	C-02343	6/22/70	2/28/71

Word	Content
8,9,10	fourth differences, first body
11,12,13	x, y, z coordinates, second body
:	
9n-1, 9n, 9n+1	fourth differences, nth body
9n+2	check sum word.

2.2.1 Reference

DDI Programming Document 1201-52 Subroutine KPERTMAK, Milestone 11, Data Dynamics, Inc., 13 December 1963.

2.3 7090 EPHEMERIS (KEPMFUN)

A binary tape is output in IBM 7090 format. It contains "n" blocks of data followed by a double end of file.

The format of each block is:

File 1

EOF

File 2

Record 1 - Header (IBM BCD Binary Mode)

GEOCENTbLATbbbbbbb
GEODETICbLATbbbbbbb
ALTITUDEbbbbbbbbbbbb
VELOCITYbbbbbbbbbbbb
LONGITUDEbbbbbbbbbbb
Xbbbbbbbbbbbbbbbbbbb
Ybbbbbbbbbbbbbbbbbbb
Zbbbbbbbbbbbbbbbbbbb
XbDOTbbbbbbbbbbbbbbb
YbDOTbbbbbbbbbbbbbbb
ZbDOTbbbbbbbbbbbbbbb
bbbbbbbbbbbbbbbbbbbb
(b indicates a blank)