

DATA SET CATALOG #96

Norad Orbital Element Tapes
CORRAD 9 tapes

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

<http://nssdc.gsfc.nasa.gov/nmc/>

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

- a. Associated Documents To find associated documents you will need to know the document ID number and then click here.
<http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/>

- b. Core Catalog Materials

SX-31A

ORIGINAL ELEMENTS, TAPE

SX-31A

This data set has been restored. There were originally fifteen 7-track, 800 BPI tapes written in BCD. There are two restored tapes written in ASCII. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The original tapes were created on a 7094 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIMS SPAN
-----	-----	-----	-----	-----
DR003986	DS003986	D022058	1	02/01/74
		D022059	2	02/01/74
		D022060	3	02/01/74
		D022061	4	02/01/74
		D022062	5	02/01/74
		D022063	6	02/01/74
		D022064	7	02/01/74 (a)
		D022065	8	02/01/74 (b)
DR003987	DS003987	D022066	1	02/01/74
		D022067	2	02/01/74 (c)
		D022068	3	02/01/74
		D022069	4	02/01/74 (d)
		D022070	5	02/01/74
		D022071	6	02/01/74 (e)
		D022072	7	02/01/74 (f)

- (a) D22063 : Read errors occurred in records 169, & 2413.
- (b) D22065 : Read error occurred in record 8.
- (c) D22067 : Read error occurred in record 68.
- (d) D22069 : Read error occurred in record 11.
- (e) D22071 : Read error occurred in record 117.
- (f) D22072 : Read error occurred in record 275.

RA 7532

DATA SET:

NORAD

DATE:

September 30, 1971

OBJECTIVE:

To force trailing zeros in place of blanks in the satellite number field.

DESCRIPTION:

This program is designed to take the first satellite number within a set (set = six 80 character image data record) and mask the field with zeros when blank. The records must be deblocked by a previous program before masking.

INPUT:

Cards:

One card is read-in to indicate the number of tapes to be mounted.

Cole. 1-2 = tape count

Tapes:

As many as 99 tapes can be mounted sequentially. They are all 800 BPI, 7 track, BCD, with block size equal to 80 words, or 480 bytes. These tapes are deblocked from their original 640 words by another program before they are input to this program on unit A5.

OUTPUT:

Tapes:

Same format as input, output unit is A6.

Printer:

Online messages to the operator to mount tapes.

March 3, 1971

NORAD ORBITAL ELEMENT TAPES

This data set consists of 9 NORAD Orbital Element Tapes. These tapes are 1/4 inch, 800 BPI, 7-track, BCD. The first 5 tapes in the data set contain element sets for 1959 through 1968. The last 3 tapes are for 1969 and 1970. The sixth tape in the data set (D-05161) contains trial element sets. The data on this tape should be disregarded.

The data on the tapes is ordered by catalog number found in columns 3-7 of each logical record. Each catalog number refers to an object in orbit or one that has been in orbit. These objects are either satellites or parts of satellites which have decayed.

Each physical record (3840 characters) contains 8 logical records of 480 characters. Each logical record consists of a set of 6, eighty character card images.

Three programs were written for these NORAD tapes. They are:

1. A program that lists the third element set, if available, for all selected satellites.
2. A program that lists all of the element sets for the selected satellites.
3. A program that redupes the tapes, eliminating bad data.

This data set catalog contains sample outputs from programs #1 and #3. The output from the second program is being used by the acquisition agents at this time.

D#	C#	CATALOG NUMBERS	TIME SPAN
D-05156	C-04708	4 - 403	1959 - 1968
D-05157	C-04709	463 - 975	1959 - 1968
D-05158	C-04710	975 - 1670	1959 - 1968
D-05159	C-04711	1670 - 2403	1959 - 1968
D-05160	C-04712	2403 - 3834	1959 - 1968
D-05161	C-04713	4 - 2573	1969 - 1970
D-05162	C-04714	2573 - 3938	1969 - 1970
D-05163	C-04715	3938 - 4370	1969 - 1970
D-05164	C-04716		

CHARACTER
POSITION

1
2
3-7
8
9
10
11
12-15
16
17-27
28
29-30
31
32
33
34
35
36-39
40
41-46
47
48
49-51
52

March 3, 1971

NORAD ORBITAL ELEMENT TAPES

This data set consists of 9 NORAD Orbital Element Tapes. These tapes are 1 file, 800 BPI, 7-track, BCD. The first 5 tapes in the data set contain element sets for 1959 through 1968. The last 3 tapes are for 1969 and 1970. The sixth tape in the data set (D-05161) contains trial element sets. The data on this tape should be disregarded.

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D-05158	C-04710	975 - 1670	1959 - 1968
D-05159	C-04711	1670 - 2403	1959 - 1968
D-05160	C-04712	2403 - 3834	1959 - 1968
D-05161	C-04713	4 - 2573	1969 - 1970
D-05162	C-04714	2573 - 3938	1969 - 1970
D-05163	C-04715	3938 - 4370	1969 - 1970
D-05164	C-04716		

CHARACTER
POSITION

1

2

3-7

8

9

10

11

12-15

16

17-27

28

29-30

31

32

33

34

35

36-39

40

41-46

47

48

49-51

52

NORAD ORBITAL ELEMENT TAPES
 FORMAT

FIGURE 1
 Page 1 of 3

<u>CHARACTER</u>	<u>FORMAT</u>	<u>SYMBOL</u>	<u>DESCRIPTION</u>
<u>POSITION</u>			
1	I1		CARD NUMBER . 1
2	1x		BLANK
3-7	I5	KATNO	CATALOG NUMBER
8	1x		BLANK
9	A1		CLASS
10	1x		BLANK
11	A1		SOURCE
12-15	I4		ELEMENT NUMBER
16	1x		
17-27	A6.A4		INTERNATIONAL NAME
28	1x		BLANK
29-36	I2		EPHMERIS
31	I1		DIFFERENTIAL CORRECTION
32	I1		ATMOSPHERE
33	1x		BLANK
34	I1		ACCURACY
35	1x		BLANK
36-39	F4.F		ESTIMATE LIFE FROM EPOCH
40	1x		BLANK
41-46	I6		REVOLUTIONS FROM LAUNCH AT EPOCH
47	1x		BLANK
48	I1	EPKYR	YEAR OF EPOCH
49-51	I3	EPKDA 1	JULIAN DAY OF EPOCH
52	1x		BLANK