

Data Set Catalog #61

Explorer 33 & 35
soft X-ray Burst Listing

66-058A-05D

1 tape

67-070A-01D

1 tape

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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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

IMP-D

IMP-E

SOFT X-RAY BURST LISTING

66-058A-05D

67-070A-01D

THESE DATA SETS HAVE BEEN RESTORED. ORIGINALLY THERE WAS ONE 7-TRACK, 800 BPI TAPE WRITTEN IN BCD CONTAINING BOTH OF THESE DATA SETS. THERE IS ONE RESTORED TAPE, WRITTEN IN EBCDIC, WHICH WAS PADDED DURING THE RESTORATION PROCESS. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPE WAS CREATED ON AN IBM 7094 COMPUTER. THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING D NUMBER AND TIMESPAN ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR003432	DS003432	D000082	1	07/03/66 - 07/26/67

IMP-D

IMP-E

SOFT X-RAY BURST LISTING

66-058A-05D

67-070A-01D

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DR#	DS#	D#	FILES	TIME SPAN
DR03432	DS03432	D00082	1	07/03/66 - 07/26/67

EXPLORER 33 & 35 SOFT X-RAY BURST LISTING

66-058A-05D - 67-0^{71A}~~05~~-01D

Data set contains one 800 BPI, 7-track, BCD tape. This tape was generated on a UNIVAC 418 computer. Included is a listing of the first and last 100 records of the tape.

TIME SPAN*- 7/03/66 - 8/13/69

*All bursts before 7/26/67 are from Explorer 33 data and all after 7/26/67 are from Explorer 35 data.

Also included is a sample of the microfilm output created from this tape.

2-6

7-9

10-15

20-29

30-39

40-49

50-59

60-69

70-79

80-89

90-99

100-109

110-119

120-129

JUN 2 1970

DESCRIPTION OF FIELD BURST PEAK PARAMETERS FORMAT

<u>PARAMETER</u>	<u>FORMAT</u>	<u>DESCRIPTION</u>
1-6		Fortran look ahead.
7-9	I3	Last two digits of year.
10-19	F10.5	Interpolated start time in decimal days (Jan 1 = dec. day 0). The interpolation is discussed below.
20-29	F10.5	Time of peak or maximum total burst flux in decimal days.
30-39	F10.5	Interpolated end time in decimal days (interpolation discussed below).
40-48	F9.3	Flux increase above background evaluated at burst maximum; in milli-erg (cm ² sec) ⁻¹ .
49-56	F8.3	Ratio of total flux to background flux evaluated at burst maximum.
57-69	F9.3	Integral of flux increase above background for duration of event, in erg cm ⁻² . A triangular extrapolation was used at each end to attempt to include the contributions occurring before (after) the begin (end) times.
70-87	I2	Flag which is non-zero if interpolated beginning time lies in a data gap (break of 5 minutes or more between data points).
88-89	I2	Flag which is non-zero if the peak flux point lies on the edge of a data gap.
90-91	I2	Flag which is non-zero if the interpolated ending time lies in a data gap.
92-93	I2	Flag whose value is the number of data gaps between the beginning and peak burst times.
94-95	I2	Flag whose value is the number of data gaps between the peak and ending burst times.
96-97	I2	Flag whose value is the number of data gaps between the first and last peak of multiple peaked bursts; these data gaps are not counted by any of the previous flags.

generated
100

er 7/26/67

his tape.

<u>FORMID POSITION</u>	<u>FORMID</u>	<u>DESCRIPTION</u>	<u>FORMID POSITION</u>	<u>FORMID</u>
70-72	10	Flag which has a value of 0 if beginning and end points determined by interpolation; value of 1 if the beginning time was not interpolated but is just first preceding minimum; value of 2 if ending time was not interpolated but is first following minimum; and value of 3 if both beginning and ending not determined by interpolation but as described in the preceding.	1-6	
			7-16	70.3
			17-24	70.3
80-82	10	Flag whose value is the number of burst peaks listed for each event. For individual events it is 1; for multiply peaked events it is 2 or more. This flag is used to identify multiply peaked events.	25-32	10
			27-34	70.3
80-87	76.3	Value of the ratio of time lost in data gaps during the event to the duration of the event. This value can range from 0.000 for complete coverage to 1.000 if each point on the burst is on the edge of a data gap.		

Done

Data created on a UNIVAC -18.

Data created on a UNIVAC -18.

SECONDARY BURST PEAK PARAMETERS FORM

at beginning
interpolation;
line was not
to preceding
time was not
lowest minimum;
flag and ending
on but as

START POSITION

FORM

DESCRIPTION

1-6

Fortran look ahead.

7-16

F10.5

Time of the secondary peak (maximum) total
burst flux in decimal days.

17-24

F8.3

Flux increase above background, in milli-erg
($\text{cm}^2 \text{sec}^{-1}$), evaluated at burst maximum.

25-26

I2

Flag whose value minus one gives the number
of following secondary burst peaks.

27-34

F8.3

Ratio of total flux to background flux
evaluated at secondary maximum.

of burst
For individual
peaked events
used to
is.

in data
duration of
is from 0.000
if each point
a data gap.

Done Smith

Date created on a UNIVAC 418.

-N 66 181.20981 183.30960 183.32.94 5.556 4.063 7.455 0 0 0 0 0 0 0 1 0.000

)))

-N 66 185.05426 185.06129 185.07857 2.370 1.790 2.515 0 0 0 0 0 0 0 1 0.000

)))

0 -N 66 185.18947 185.20238 185.20522 2.927 1.976 2.197 0 0 0 0 0 0 0 1 0.000

)))

1 -N 66 185.29997 185.30748 185.31946 2.060 1.667 2.006 0 0 0 0 0 0 0 1 0.000

)))

2 -N 66 185.52692 185.55461 185.56218 3.303 2.026 4.921 1 0 0 0 0 0 0 1 0.214

)))

3 -N 66 185.57162 185.57734 185.61193 5.891 2.760 10.608 0 0 0 0 0 0 0 1 0.000

)))

4 -N 66 185.77158 185.78470 185.81106 10.758 3.599 14.175 0 0 0 0 1 0 0 1 0.190

)))

5 -N 66 185.84347 185.84908 185.86024 11.246 3.564 4.979 0 1 0 0 0 0 0 1 0.933

)))

6 -N 66 185.90935 185.94097 185.98390 7.109 2.492 10.747 0 0 0 2 0 0 0 1 0.262

)))

7 -N 66 186.02612 186.02499 186.10850 7.062 2.017 28.478 0 0 0 0 0 1 0 2 0.056

EXPL 33, 35
SOFT X-RAY BURST
LISTING

67 207

5.656	4.063	7.455 0 0 0 0 0 0 0 1 0.00	REC	1. LENGTH	510
2.370	1.790	2.515 0 0 0 0 0 0 0 1 0.000	REC	2. LENGTH	510
2.927	1.976	2.197 0 0 0 0 0 0 0 1 0.000	REC	3. LENGTH	510
2.060	1.687	2.006 0 0 0 0 0 0 0 1 0.000	REC	4. LENGTH	510
3.303	2.026	4.921 1 0 0 0 0 0 0 1 0.214	REC	5. LENGTH	510
1.891	2.760	10.604 0 0 0 0 0 0 0 1 0.000	REC	6. LENGTH	510
1.753	3.599	14.175 0 0 0 0 1 0 0 1 0.190	REC	7. LENGTH	510
1.246	3.564	4.979 0 1 0 0 0 0 0 1 0.933	REC	8. LENGTH	510
1.109	2.492	10.747 0 0 0 2 0 0 0 1 0.292	REC	9. LENGTH	510
1.062	2.017	26.478 0 0 0 0 0 1 0 2 0.056	REC	10. LENGTH	510

111

B -N 186.08391 1.062 1 1.667

111

W -N 68 186.14052 186.15662 186.15349 8.905 2.078 21.469 0 0 0 0 0 0 0 2 3.600

111

-N 186.18427 10.750 1 3.631

111

-H 56 186.23074 186.23351 186.24015 18.705 3.803 9.633 0 0 0 0 0 0 0 1 0.000

111

-N 68 186.26877 186.27233 186.27769 8.568 2.327 4.142 0 0 0 0 0 0 0 1 0.000

111

C -N 68 186.34027 186.34598 186.36193 11.403 2.717 11.138 0 0 0 0 0 0 0 1 0.000

111

-N 68 186.57537 186.59016 186.63077 5.108 1.733 17.636 0 0 0 0 0 0 0 1 1 0.000

111

-N 68 186.60495 186.60355 186.70700 6.374 1.931 14.225 0 0 0 0 0 1 0 0 1 0.126

111

-N 66 186.74910 186.77512 186.76435 4.864 1.722 6.434 0 0 0 0 1 0 0 0 1 0.164

REC 11. LENGTH 510

2.078 21.469 0 0 0 0 0 0 0 2 0.000

REC 12. LENGTH 510

REC 13. LENGTH 510

3.903 9.633 0 0 0 0 0 0 0 1 0.000

REC 14. LENGTH 510

2.327 4.142 0 0 0 0 0 0 0 1 0.000

REC 15. LENGTH 510

2.717 12.138 0 0 0 0 0 0 0 1 0.000

REC 16. LENGTH 510

1.738 17.636 0 0 0 0 0 0 0 1 0.000

REC 17. LENGTH 510

1.931 14.226 0 0 0 0 1 0 0 1 0.138

REC 18. LENGTH 510

1.722 6.434 0 0 0 1 0 0 0 1 0.184

REC 19. LENGTH 510