Data Set Catalog # 60

Alouette 1 Alosyn Data
62-049A-01C 6 tapes

Table of Contents

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

ALOUETTE 1

ALOSYN SCALED DATA

62-049A-01C

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY SIX 7-TRACK, 556 BPI TAPES, WRITTEN IN BCD. THERE IS ONE RESTORED TAPE, WRITTEN IN EBCDIC. THE DR TAPE IS A 3480 CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON THE MODCOMP COMPUTER. THE DR AND DS NUMBERS, ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR002947	DS002947	D000384	1	09/29/62 - 04/30/63
		D000385	2	05/01/63 - 12/31/63
		D000877	3	01/01/64 - 08/31/64
		D006054	4	01/01/65 - 02/28/65
		D006055	5	03/01/65 - 04/30/65
		D006056	6	01/01/67 - 06/30/67

ALOUETTE 1

ALOSYN SCALED DATA

62-049A-01C

This data set has been restored. There were originally 6 7-track, 556 BPI written EBCDIC. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The original tapes were created on a MOD computer. The DR, DS, and DD numbers along with the time spans are given as follows:

DR #	DS #	DD #	FILES	TIME SPAN
DR02947	DS02947	D-00384	1	09/29/62 - 04/30/63
		D-00385	2	05/01/63 - 12/31/63
		D-00877	3	01/01/64 - 08/31/64
		D-06054	4	01/01/65 - 02/28/65
		D-06055	5	03/01/65 - 04/30/65
		D-06056	6	01/01/67 - 06/30/67

62-049A-01C

Alouette 1 Alosy.. Data

First Set Consists of 3 tapes. All are 7 Track, BCD, 556 BPI, One File.

D#	C#	Start Time	Stop Time
D-00384	C-00173	09/29/62	04/30/63
D-00385	C-00174	05/01/63	12/31/63
D-00877	C-00515	01/01/64	08/31/64

Second Set consists of 3 tapes. All are 7 Track, BCD, 800 BPI, One File.

D#	C#	Start Time	Stop Time
D-06054	C-04954	01/01/65	02/28/65
D-06055	C-04933	03/01/65	04/30/65
D-06056	C-04956	01/01/67	06/30/67

62-049A-01C

FORMAT FOR ALOUETTE 1

IONOSPHERIC DATA ALOSYN

Resolute Bay, Canada
College, Alaska
Prince Albert, Canada
East Grand Forks, U.S.A.
Ottowa, Canada
St. Johns, Canada
Winkfield, U.K.

Hawaii, U.S.A.
Fort Meyers, U.S.A.
Quito, Equador
Antofagasta, Chile
Port Stanley, Falkland Islands
Santiago, Chile
Woomera, Australia

The symbols used in the tabulation are:

YR	Year
MO	Month
DY	Day of the month
GMT	GMT at which the record was taken, in hours, minutes, and seconds, with the minutes and seconds separated by a solidus. The time given is 30± seconds before the occurence of 0.5 Mc/s frequency marker.
LMT	Local Mean Time in hours and minutes
LONG	Longitude
LAT	Latitude
HGT	Height of satellite
CHI	Solar zenith angle,X
DIP	Angle of dip of earth's magnetic field at the satellite
FH	Gyrofrequency at the satellite, in Mc/s. The dip and gyrofrequency are calculated by using the set of 48 spherical harmonic coefficients determined by Jensen and Cain (epoch 1960).
JFOS	Ordinary wave frequency at the satellite, calculated from the observed extraordinary wave frequency. That is, JFOS is the plasma frequency at the satellite.
FXS	Observed extraordinary wave frequency at the satellite
FXS A	Accuracy of observation, according to the following code: 1. Estimated error less than .025 Mc/s. 2. Estimated error less than .05 Mc/s. 3. Estimated error less than .1 Mc/s. 4. Magnitude of FXS less than tabulated value. 5. Magnitude of FXS greater than tabulated value.
FOF2	Observed ordinary wave penetration frequency of the F2 layer
FOF2 A	Accuracy of observation according to the following code: 1. Estimated error less than .05 Mc/s. 2. Estimated error less than .1 Mc/s. 3. Estimated error less than .2 Mc/s. 4. Magnitude of FOF2 less than tabulated value. 5. Magnitude of FOF2 greater than tabulated value.
FOF2	Quality of the reflection trace at the ordinary wave penetration frequency according to the quality table.
JFOF2	Ordinary wave penetration frequency of the F2 layer, calculated from the observed FXF2. The gyrofrequency appropriate to a height of 300 kilometers is used for this calculation.

FXF2	Observed ordinary wave penetration frequency of the F2 layer
FXF2 A	Accuracy of observation, according to the FOF2 accuracy code
FXF2 Q	Quality of the reflection trace at the extraordinary wave penetration frequency of the quality table
FES	Maximum frequency of observation of sporadic E.
FES Q	Quality of sporadic E, according to the first row of the quality table
C	Stroogth of signal returned from the earth, according to the following code:

1. Strong well defined echoes.
2. Weak and intermittent echoes.
3. Echoes not observed.

KP 3 hourly Magnetic KP index

FORMAT

~~Character~~ B	Col. 1	JFOS	Col. 44-47
Year	Col. 2-3	FXS	Col. 48-51
Month	Col. 4-5	A	Col. 52
Day	Col. 6-7	Q	Col. 53
Hour	Col. 8-9	FOF2	Col. 54-57
Minute	Col. 10-11	A	Col. 58
/-slash	Col. 12	Q	Col. 59
Second	Col. 13-14	JFOF2	Col. 60-64
LMT	Col. 15-18	FXF2	Col. 65-68
LONG	Col. 19-24	A	Col. 69
LAT	Col. 25-29	Q	Col. 70
ALT	Col. 30-33	FES	Col. 71-74
CHI	Col. 34-36	C	Col. 75-76
DIP	Col. 37-39	Q	Col. 77-78
FH	Col. 40-43	KP	Col. 79-80

Col. 1 B INDICATES SCALED IONOGRAM (ALOSYN)

We wish to inform you, that as of February 24,1971, our new mailing address should read as follows:

Director-General,
Communications Research Centre,
Shirley Bay,
P.O. Box 490, Station "A",
Ottawa, Ontario.
K1N 8T5

62-049A 01 C

OUR FILE NO. CRC 6135-2-4 (NRPL) PROGRAM
NOTRE DOSSIER

DEPARTMENT OF COMMUNICATIONS — MINISTÈRE DES COMMUNICATIONS

CANADA

COMMUNICATIONS RESEARCH CENTRE
CENTRE DE RECHERCHES SUR LES COMMUNICATIONS

APR 20 1971

SHIRLEY BAY
P.O. BOX 490
Station "A"
OTTAWA, ONT.
K1N 8T5

31 March, 1971

Dr. L. Bauch
Nasa Space Science Data Centre
Goddard Space Flight Centre
Code 601
Greenbelt, Maryland 20771
U.S.A.

Dear Sir:

Enclosed are three magnetic tapes (9 track, 800 bpi, EBCDIC code) containing blocked Alosyn data from Alouette I satellite.

Tape # R613 - Alouette I Alosyn for the period January 1, 1965 to February 28, 1965

Tape # R614 - Alouette I Alosyn for the period March 1, 1965 to April 30, 1965

Tape # R615 - Alouette I Alosyn for the period January 1, 1967 to June 30, 1967

The first record on tape signifies the time period which the data covers. The data is then blocked, each block containing 40 records (each record is 80 characters long) this makes a total of 3200 characters. You should have a booklet describing the data format, but one is enclosed for your convenience.

We hope that this data will be of assistance to you.

Sincerely,

E. Hewens (Mrs.)
for Director-General

Encl.

EH/cm

62 0494-01C

ALOSYN Data on Magnetic Tape

The ALOSYN data is available on digital magnetic tape for computer processing. The data is recorded in ~~BCD~~ EBCDIC format, permitting almost any computer to read the tape. Data on a single tape contains all the ALOSYN data for a two month period (or four, or six month period, if desired).

Tape Format

1. Label:

The first record on a tape is an 80 character label giving the begin and end dates of data on tape. The format is given in Appendix A.

2. Data:

The ALOSYN data from an ionogram is a string of 80 characters, for convenience called an ALOSYN record, whose format is given in Appendix B. To conserve tape, 40 consecutive ALOSYN records are assembled to form a string of 3200 characters. The string of 3200 characters is written as one physical record on tape (one tape record). Thus, the data on tape consists of tape records 3200 characters long, each of which contains forty-80 character ALOSYN records. Further, a tape record contains only data for the same day. When the date changes, the remainder of the 3200 character record is filled with ~~BCD~~ EBCDIC zeros. The next tape record begins with the first ALOSYN record for the new day. If, for example, there were 1023 ALOSYN records produced for a particular day, on tape this would consist of 25 tape records (each of which represent 40 ALOSYN records), plus one tape record

made up of 23 ALOSYN records followed by 17 dummy ALOSYN records containing ~~800~~ zeros. The next tape record would begin with the first ALOSYN record for the next day. An "end-of-file" is written after the last tape record.

Typically, a tape containing two months data has about 1000 tape records and will require about 5 minutes computer reading time. Less than 1/4 of the tape is used. (Density is ~~556~~ b.p.i.)

Since the tape does not contain a forward [illegible], a potential user of the limitations in the data, use of the tapes is restricted to TSSNG members, who, by possessing ALOSYN books, will be aware of the restraints. Users desiring ALOSYN data on tape should supply the tape (or tapes), the periods for which data is requested, and the period desired on individual tapes. (A compromise is made between the storage of a lot of data (6 months, for example) on a single tape, and the computer time required to locate specific data on the tape.)

Periods for which data is available are

	1962	1963	1964
Jan - Feb		X	X
Mar - Apr		X	X
May - Jun		X	
Jul - Aug		X	
Sept - Oct	X	X	
Nov - Dec	X	X	

G.E.K. Lockwood - DRTE

Appendix A

The format for the 80 character tape is:

Char. Position	Function	Example
1 - 19	blanks	
20 - 35	BCD	ALOSYN DATA FROM
36	blank	
37 - 38	year	63
39 - 40	month	01
41 - 42	day	01
43	blank	
44 - 45	BCD	TO
46 - 51	blanks	
52 - 53	year	63
54 - 55	month	02
56 - 57	day	28
58 - 80	blanks	

APPENDIX B

Format for an ALOSYN record

Char. position	Function	Example	Format
1	constant integer	8 (always)	I1 or 1X
2 - 3	year	63	I2
4 - 5	month	04	I2
6 - 7	day	01	I2
8 - 9	hour	02	I2
10 - 11	minutes	40	I2
12	slash	/ (always)	1X
13 - 14	seconds	56	I2
15 - 18	LMT	2100	I4
19 - 24	LONG	Δ-85.2	F6.1
25 - 29	LAT	Δ65.4	F5.1
30 - 33	hgt.	1032	I4
34 - 36	chi	103	I3
37 - 39	dip	Δ84	I3
40 - 43	gyrofreq.	1.07	F4.2
44 - 47	FOS≡ FN	0.40	F4.2
48 - 51	fxS	1.20	F4.2
52	fxS accuracy	2	I1
53	fxS quality	D	A1 or R1
54 - 57	foF2	Δ4.2	F4.1
58	foF2 accuracy	2	I1
59	foF2 quality	D	A1 or R1

Appendix B (cont'd)

60 - 64	foF2	Δ4.73	F5.2
65 - 68	fxF2	Δ5.5	F4.1
69	fxF2 accuracy	4	I1
70	fxF2 quality	G	A1 or R1
71 - 74	fEs	-0.Δ	F4.1
75	fEs quality	Δ	A1 or R1
76	ground echo	2	I1
77 - 78	Kp	3+	A2 or R2
79 - 80	blanks	ΔΔ	or I1, A1 or I1, F1 2X

Note: the symbol Δ indicates a blank.

ALDSYN DATA FROM 620929 IC 630430 0000

```
862 929 742/ 42127-153.7 59.31CA4 1.7 720.981.432.0040-0. 10 2.77 3.560-0. 230 862 929 744/162143
50.3 52.11043123 680.940.921.5040-0. 0 3.32 4.050-0. 330 862 929 745/122148-149.2 49.11042126 6
.920.941.5040-0. 0 1.79 2.550-C. 230 862 929 745/312150-148.9 48.01042127 650.910.461.1030-0. 0
2.42 3.130-0. 330 862 929 745/492151-148.6 47.01042128 640.900.951.5040-0. 0 2.73 3.420-0. 330
862 929 746/ 82153-148.3 46.01041125 640.890.611.2030-0. 0 2.84 3.520-0. 330 862 929 746/272154
48.1 45.01041130 630.890.961.5040-0. 0 3.10 3.720-0. 230 862 929 746/452156-147.8 44.01041131 6
.880.741.3030-0. 0 2.86 3.530-C. 230 862 929 747/ 42157-147.5 42.91041132 610.870.971.5040-0. 0
3.57 4.230-0. 230 862 929 747/232158-147.3 41.91040133 610.861.512.0040-0. 0 3.58 4.230-0. 230
862 9291606/ 01100 -76.4 38.31017 42 690.971.111.703A 6.53A 5.30 7.03A-0. 326 862 9291606/181101
76.2 39.31017 43 690.981.111.703A 6.62A 6.30 7.03A-0. 226 862 9291606/371103 -76.0 40.41018 44 7
.991.101.703A 6.32A 6.29 7.03A-0. 226 862 9291606/561104 -75.8 41.41019 45 710.991.101.7030 6.32
6.29 7.03A-0. 226 862 9291607/151105 -75.5 42.51019 46 721.001.091.7030 6.138 6.03 6.738-0. 226
862 9291607/331106 -75.3 43.51020 47 721.010.981.6030 6.138 6.03 6.738-0. 326 862 9291607/521108
75.0 44.51021 48 731.010.971.6030 5.638 5.57 6.338-0. 226 862 9291608/111109 -74.8 45.51021 49 7
.020.971.6030 5.420 5.47 6.220-0. 226 862 9291608/291111 -74.5 46.61022 50 741.020.961.6030 5.32
5.27 6.030-0. 226 862 9291608/481112 -74.2 47.61022 51 751.020.961.6030 5.320 5.31 6.020-0. 226
862 9291609/ 71114 -73.9 48.71023 52 751.030.961.6030 5.320 5.26 6.020-0. 226 862 9291609/251115
73.5 49.71024 53 761.030.951.6030 5.220 5.21 5.920-0. 226 862 9291609/421117 -73.2 50.61024 53 7
.030.901.5530-0. 0 4.85 5.63E-0. 226 862 9291610/ 31119 -72.8 51.71025 55 771.040.951.6030 4.42
4.45 5.220-0. 226 862 9291610/221121 -72.4 52.81026 55 781.040.831.5030 4.220 4.40 5.120-0. 326
862 9291610/401123 -72.0 53.81026 56 781.040.951.6030 4.120 4.14 4.920-0. 226 862 9291610/591125
71.6 54.81027 57 791.040.831.5030 4.020 4.04 4.820-0. 326 862 9291611/181127 -71.1 55.81027 58 7
.040.831.5030-0. 0 4.75 5.54G-C. 326 862 9291611/361129 -70.6 56.81028 59 791.040.831.5030 3.72
3.84 4.620-0. 326 862 9291611/551131 -70.1 57.81029 60 801.040.831.5030 3.720 3.79 4.530-0. 226
862 9291612/181135 -69.4 59.11029 62 801.040.831.5030 3.72G 3.79 4.53G-0. 226 862 9291612/321137
69.0 59.81030 62 801.040.831.503G 3.72G 3.79 4.52G-0. 226 862 9291612/511140 -68.3 60.81030 63 81
.041.061.703G 4.020 4.04 4.820-C. 226 862 9291613/101143 -67.6 61.91031 64 811.041.171.803G 4.520
4.55 5.320-0. 226 862 9291753/491109-101.2 45.91021 49 731.031.071.702A 5.330 5.25 6.030-0. 326
862 9291754/ 71110-100.9 46.91022 50 731.031.061.702A-0. 0 4.95 5.73A-0. 226 862 9291754/231112-
00.6 47.81023 51 741.041.061.702A 5.03A 4.74 5.53A-0. 226 862 9291755/221117 -99.6 51.11025 54 76
.051.051.702A-0. 0 3.00 3.830-C. 226 862 9291755/591121 -98.8 53.11026 56 781.061.041.702A 4.120
4.22 5.030-0. 326 862 9291756/191123 -98.4 54.21026 57 781.071.041.7020 4.020 4.11 4.930-0. 226
0000

862 9291803/231313 -72.5 75.71038 79 861.051.051.7020 4.018 3.95 4.728-0. 226 862 9291941/221119-
25.5 52.61026 55 731.021.081.7020 3.53G 3.85 4.63G-0. 236 862 9291941/ 31117-125.9 51.61025 54 72
.011.081.7020 4.020 3.96 4.730-0. 236 862 9291941/591123-124.7 54.61027 57 741.031.071.7020 4.020
3.74 4.530-0. 236 862 9291942/191125-124.2 55.71027 58 751.031.011.6530 3.730 3.84 4.630-0. 336
862 9291942/371128-123.7 56.71028 59 761.041.001.6530 3.720 3.73 4.520-0. 336 862 9291942/551130-
23.3 57.71029 60 771.041.001.6530 3.61A 3.53 4.32A-0. 336 862 9291945/441160-116.6 66.61034 69 83
.070.921.603G 3.33G 3.41 4.23G-0. 236 862 9291946/ 21204-115.5 67.51034 70 831.071.151.803G 4.23G
4.22 5.03G-0. 236 862 9291948/101249-104.9 73.81037 77 871.070.811.503J-0. 0 2.60 3.43J-0. 236
862 9291949/321338 -92.8 77.21039 81 891.061.051.703G 3.33G 3.94 4.73G-0. 136 862 9291950/ 91410
85.1 78.51039 83 881.051.051.703G 3.83G 3.74 4.53G-0. 236 862 9291950/431445 -76.5 79.51040 85 87
.051.171.803G 4.23G 4.26 5.03G-0. 236 862 9291951/ 51510 -70.2 79.91040 86 871.041.001.653G 3.83G
3.75 4.53G-0. 236 862 9291951/241534 -64.3 80.21041 87 861.040.951.603G 3.91G 3.86 4.62G-0. 236
862 9291951/421558 -58.4 80.41041 88 861.041.121.753G 4.22E 4.27 5.01E-0. 236 862 9291952/ 11624
52.1 80.51041 89 851.030.901.5530 4.020 3.97 4.730-0. 236 862 9291952/201650 -45.6 80.51041 90 85
.030.961.6030 4.010 3.97 4.710-C. 336 862 9291952/381714 -39.7 80.31042 91 841.020.961.6030 4.32G
4.08 4.83G-0. 336 862 9291952/571738 -33.7 80.11042 92 841.020.851.503G 3.520 3.47 4.230-0. 336
862 9292125/341111-153.6 48.21023 51 640.900.981.5030 4.320 4.31 4.920-0. 256 862 9292125/531113-1
53.2 49.31024 52 650.910.991.5530-0. 0 4.46 5.120-0. 256 862 9292126/121115-152.9 50.31024 53 66
.921.041.603A 4.220 4.25 4.920-0. 256 862 9292126/301116-152.5 51.31025 54 670.930.981.553A 4.120
4.14 4.820-0. 256 862 9292126/491118-152.2 52.41025 55 680.941.031.603A 4.120 4.13 4.820-0. 256
862 9292127/ 81120-151.8 53.41026 56 690.950.951.5530 4.120 3.97 4.620-0. 256 862 9292127/241122-1
51.4 54.31027 57 690.961.011.603A 4.02A 3.81 4.53A-0. 256 862 9292127/451124-150.9 55.41027 58 70
.970.951.553A-0. 0 3.80 4.530-C. 256 862 9292128/ 41126-150.4 56.41028 59 710.970.891.5030 3.720
3.49 4.230-0. 256 862 9292128/221129-149.9 57.41028 60 720.980.881.5030-0. 0 3.58 4.230-0. 256
862 9292128/411131-149.4 58.41029 61 720.990.881.5030 3.520 3.43 4.120-0. 256 862 9292129/ 01134-1
48.8 59.51030 62 731.000.871.5030 3.530 3.42 4.120-0. 256 862 9292129/181137-148.2 60.41030 63 741
.000.861.5030-0. 0 3.42 4.120-C. 256 862 9292129/371140-147.5 61.41031 64 751.010.861.5030 3.520
```

```
630430                                         9000
432.0040-0. 0 2.71 3.550-0. 230 862 929 744/162143-1          REC   1. LENGTH   84
4.050-0.  330  862 929 745/122148-149.2 49.11042126 660       REC   2. LENGTH  "3204"
29 745/312150-148.9 48.01042127 650.910.461.1030-0. 0
17.01042128 640.900.951.5040-0. 0  2.73 3.420-0.  330              C-0173
511.2030-0. 0  2.84 3.520-0.  330  862 929 746/272154-1
3.720-0.  230  862 929 746/452156-147.8 44.01041131 620
29 747/ 42157-147.5 42.91041132 610.870.971.5040-C. 0
11.91040133 610.861.512.0040-0. 0  3.58 4.230-0.  230
111.703A 6.53A 5.30 7.03A-0.  326  862 9291606/181101 -
7.03A-0.  226  862 9291606/371103 -76.0 40.41018 44 700
291606/561104 -75.8 41.41019 45 710.991.101.7030 6.32A
12.51019 46 721.001.091.7030 6.138 6.03 6.738-0.  226
081.6030 5.138 6.03 6.738-0.  326  862 9291607/521108 -
.338-0.  226  862 9291608/111109 -74.8 45.61021 49 741
91608/291111 -74.5 46.61022 50 741.020.961.6030 5.320
7.61022 51 751.020.961.6030 5.320 5.31 6.020-0.  226
61.6030 5.320 5.26 6.020-0.  226  862 9291609/251115 -
.920-0.  226  862 9291609/421117 -73.2 50.61024 53 761
91610/ 31119 -72.8 51.71025 55 771.040.951.6030 4.420
2.81026 55 781.040.831.5030 4.220 4.40 5.120-0.  326
51.6030 4.120 4.14 4.920-0.  226  862 9291610/591125 -
.820-0.  326  862 9291611/181127 -71.1 55.81027 58 791
91611/361129 -70.6 56.81028 59 791.040.831.5030 3.720
7.81029 65 801.040.831.5030 3.720 3.79 4.530-0.  226
31.5030 3.72G 3.79 4.53G-0.  226  862 9291612/321137 -
.52G-0.  226  862 9291612/511140 -68.3 60.81030 63 811
91613/101143 -67.6 61.91031 64 811.041.171.803G 4.520
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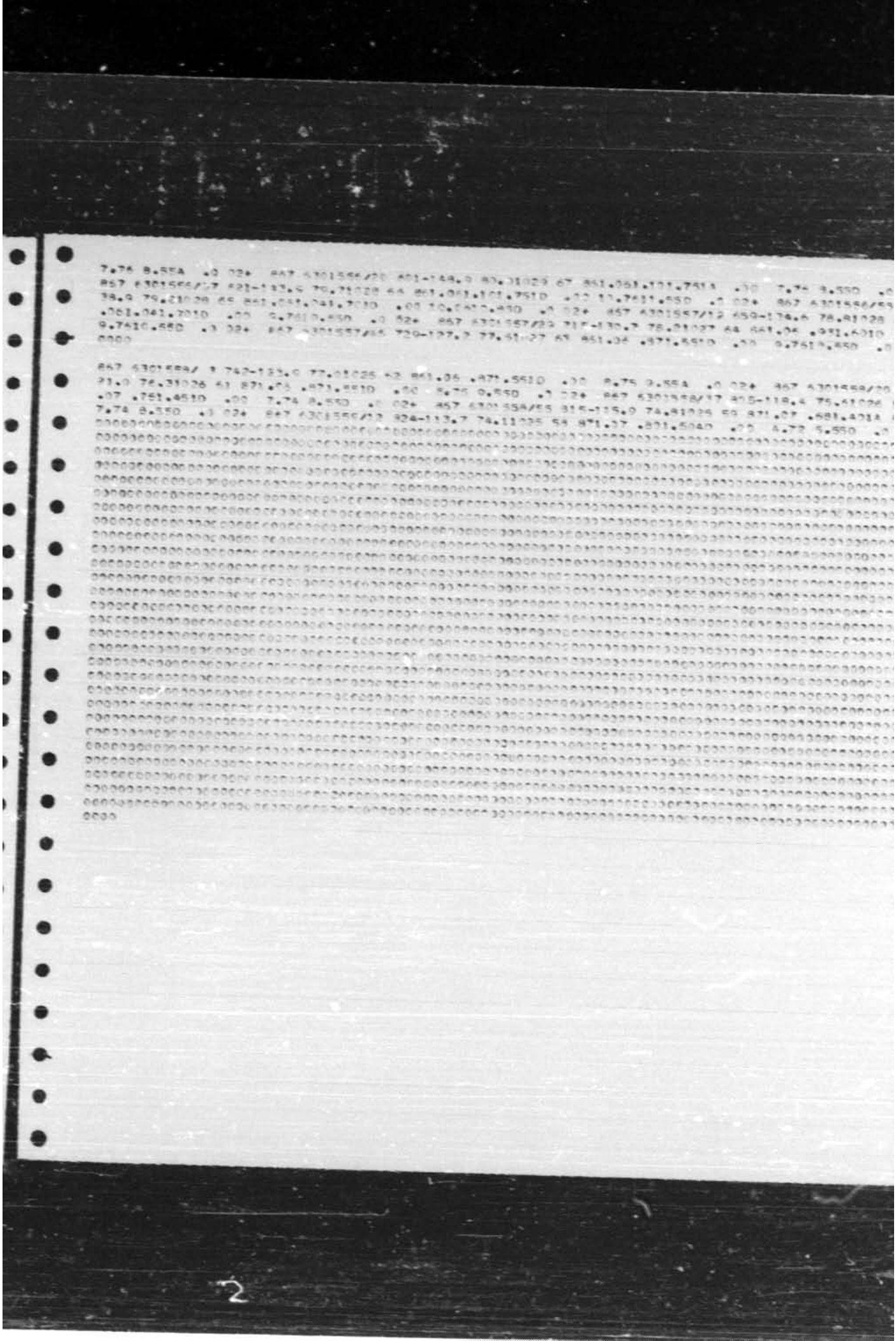

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