

Earth Sci

#258

NIMBUS 4, BUY

70-025A-05A SPHE-00648

Table of Contents

1. Introduction
2. Errata/Change Log
3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC
INFORMATION SYSTEM
4. Catalog Materials
 - a. Associated Documents
 - b. Core Catalog Materials

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

NIMBUS 4

70-025A-05A

SPHE-00648

The tapes in this catalog have been released as of 1.27.78.

This data set catalog is for information only.

NIMBUS IV B.U.V.

<u>D#</u>	<u>C#</u>	<u>L#</u>	<u>FILES</u>	<u>TIME SPANS</u>
D-13183	C-10890	5802	19	11/13/70 - 12/26/70 11/13/69 - 6/27/70
D-13184	C-10354	5803	43	8/22/70 - 8/27/70
D-13185	C-10355	5805	19	4/20/70 - 4/21/70
D-13186	C-10356	5806	13	4/22/70 - 4/23/70
D-13187	C-10357	5807	7	4/24/70 - 4/25/70
D-13189	C-10358	5809	17	4/28/70 - 4/29/70
D-13190	C-10359	5810	18	4/30/70 - 5/01/70
D-13191	C-10360	5811	3	5/02/70 - 5/02/70
D-13192	C-10361	5812	13	5/04/70 - 5/06/70
D-13193	C-10362	5813	17	5/06/70 - 5/08/70
D-13194	C-10363	5814	17	5/08/70 - 5/09/70
D-13195	C-10364	5815	26	5/09/70 - 5/11/70
D-13196	C-10365	5816	14	5/12/70 - 5/13/70
D-13197	C-10366	5817	22	5/13/70 - 7/29/70
D-13198	C-10367	5818	22	5/16/70 - 5/17/70
D-13199	C-10368	5819	23	5/18/70 - 5/20/70
D-13200	C-10369	5820	17	5/20/70 - 8/04/70
D-13201	C-10370	5821	17	5/22/70 - 5/21/70
D-13202	C-10371	5822	23	5/24/70 - 5/25/70
D-13203	C-10372	5823	16	5/25/70 - 5/25/70
D-13204	C-10373	5824	20	5/28/70 - 5/30/70
D-13206	C-10374	5826	14	5/31/70 - 6/02/70
D-13207	C-10376	5827	21	6/03/70 - 6/04/70
D-13208	C-10375	5828	14	6/05/70 - 6/05/70
D-13209	C-10377	5829	24	6/07/70 - 6/09/70
D-13210	C-10378	5830	24	5/30/70 - 6/11/70
D-13211	C-10379	5831	24	6/13/70 - 6/13/70
D-13212	C-10380	5832	14	6/13/70 - 6/14/70

<u>D#</u>	<u>C#</u>	<u>L#</u>	<u>FILES</u>	<u>TIME SPANS</u>
D-13214	C-10381	5834	21	6/17/70 - 9/08/70
D-13215	C-10382	5835	23	6/19/70 - 6/19/70
D-13216	C-10383	5836	23	6/21/70 - 7/11/70
D-13217	C-10384	5837	20	6/23/70 - 7/04/70
D-13218	C-10385	5838	23	6/25/70 - 6/27/70
D-13219	C-10386	5839	23	6/27/70 - 6/28/70
D-13220	C-10387	5840	23	6/29/70 - 6/30/70
D-13221	C-10388	5841	16	6/03/70 - 7/03/70
D-13222	C-10389	5842	22	7/04/70 - 7/04/70
D-13223	C-10390	5843	21	7/05/70 - 7/06/70
D-13224	C-10391	5844	23	7/07/70 - 7/09/70
D-13225	C-10392	5845	22	7/11/70
D-13226	C-10393	5846	21	7/11/70 - 7/12/70
D-13227	C-10394	5847	7	7/12/70 - 7/13/70
D-13228	C-10420	5849	17	7/17/70 - 7/18/70
D-13229	C-10422	5850	17	7/19/70 - 7/20/70
D-13230	C-10415	5851	20	7/21/70 - 7/22/70
D-13231	C-10417	5852	19	7/23/70 - 7/25/70
D-13232	C-10419	5853	21	7/25/70 - 7/27/70
D-13233	C-10421	5854	20	7/27/70
D-13234	C-10423	5855	12	7/31/70 - 8/01/70
D-13235	C-10889	5856	19	7/31/70 - 8/03/70
D-13237	C-10424	5858	23	8/04/70 - 8/05/70
D-13238	C-10425	5859	22	8/06/70 - 8/09/70
D-13239	C-10426	5860	19	8/08/70 - 8/09/70
D-13240	C-10427	5861	6	8/10/70 - 8/10/70

154

<u>D#</u>	<u>C#</u>	<u>L#</u>	<u>FILES</u>	<u>TIME SPAN</u>
D-13241	C-10428	5862	41	8/28/70 - 8/31/70
D-13242	C-10429	5863	41	9/01/70 - 9/08/70
D-13243	C-10430	5864	40	9/05/70 - 9/09/70
D-13244	C-10395	5865	35	9/09/70 - 9/12/70
D-13245	C-10431	5866	40	9/12/70 - 12/25/70 ^{9/15/70?}
D-13246	C-10432	5867	34	9/16/70 - 9/19/70
D-13247	C-10418	5868	18	9/19/70 - 9/21/70
D-13248	C-10412	5869	41	9/24/70 - 9/28/70
D-13249	C-10413	5870	40	9/28/70 - 11/12/70
D-13250	C-10396	5871	40	10/01/70 - 10/05/70
D-13251	C-10397	5872	37	10/05/70 - 10/08/70
D-13252	C-10398	5873	39	10/08/70 - 10/12/70
D-13253	C-10400	5874	40	10/12/70 - 10/12/70
D-13254	C-10401	5875	41	10/15/70 - 10/19/70
D-13255	C-10399	5876	28	10/18/70 - 10/22/70
D-13256	C-10402	5877	40	10/25/70 - 10/30/70
D-13257	C-10403	5878	41	10/28/70 - 11/01/70
D-13258	C-10404	5879	41	11/01/70 - 11/08/70
D-13259	C-10416	5880	43	7/13/70 - 8/15/70
D-13260	C-10405	5881	37	11/12/70 - 11/16/70
D-13261	C-10406	5882	41	11/16/70 - 11/20/70
D-13262	C-10407	5883	21	11/20/70 - 11/23/70
D-13263	C-10408	5884	40	11/25/70 - 11/28/70
D-13266	C-10409	5887	41	12/06/70 - 12/10/70
D-13272	C-10410	8986	37	12/15/70 - 12/17/70
D-13273	C-10411	8987	73	12/23/70 - 12/31/70
D-13275	C-10414	8999	4	11/23/70 - 11/23/70

Problems encountered on the following tapes prevented their processing and therefore were omitted from this data set.

<u>L#</u>	<u>Problem Encountered</u>
5800	Bad input
5802	Bad input
5805	Given to Ray Sears (12/07/70)
5808	Bad input
5814	Tape should have 16 files. Last 3 are EOF's. File 13 doesn't contain Nimbus data.
5821	Orbits and dates on this tape are not sequential (both orbits and dates are in decending order). This tape contains orbits associated with a previous tape.
5825	Bad input
5833	Tape drive distroyed input tape (D-13213)
5845	Start of tape appears inaccurate. Data does not fit the format.
5857	Tape is physically damaged
5854	Final day does not match format.
5885	Bad input
5886	Bad input
5888	Bad input
5889	Bad input
5890	Bad input
8982	Bad first orbit (extra digit at end)
8984	Given to Ray Sears (12/07/73)
8988	Given to Ray Sears (10/24/73)

Tapes containing the first 15 days of January, 1971 are no good.

1.7.4 BUV Archive Tape Format

The BUV archive tapes stored at the National Space Science Data Center consist of 200 36-bit floating-point binary-word records.

The first and subsequent records will be DATA RECORDS and will be written according to the DATA RECORD FORMAT given in Table 1-7. Each data record will contain data for a BUV instrument wavelength scan, which may refer to backscattered UV measurements, to diffuser plate measurements, or to one of the calibration scans. The scans will be numbered consecutively within each orbit, regardless of their type. Scans not written on the tape will not be assigned a number.

The last record for each orbit will be a SUMMARY RECORD - DOCUMENTATION & HISTORY according to the format given in Table 1-8.

The first word of each record will be a record-type identifier according to the code given in Note 4 of the DATA RECORD FORMAT.

An "end of file" mark will be written after the last record pertaining to a given satellite orbit.

In order to conserve tape space, each physical record on a BUV archive tape shall comprise ^{three} two 200-word records. If there are an odd number of records for a given orbit, the last 200 words of the last physical record shall consist of -77.0 fill data. Each tape will contain several orbits.

The experiment sensory data is monitored via a 5 sample per second VIP Digital A Channel. In each BUV frame, seven types of data are monitored via the Digital A telemetry. The BUV word definitions are as follows:

a. Photometer Analog Data	BUV Word 1
b. Photometer Housekeeping Data	BUV Word 2
c. Monochromator Analog Data	BUV Word 3
d. Monochromator Housekeeping Data	BUV Word 4
e. Photometer Pulse Count Data	BUV Word 5
f. Monochromator Pulse Count Data	BUV Word 6
g. Monochromator Energetic Particle Data	BUV Word 7

The data and calibration sequences and timing are described in the Nimbus IV User's Guide.

TABLE 1-7

BUV DATA RECORD FORMAT

Word	Units	Contents
1	-	Record type identifier (see Note 6)
2	-	Orbit number
3	-	BUV Scan number within this orbit
4	Days	Day of year at beginning of scan
5	Seconds	Seconds of day at beginning of scan
6	Degrees	Geodetic Latitude at beginning of scan
7	Degrees	Geodetic Longitude at beginning of scan
8	kms	Satellite height at beginning of scan
(See Note 1 re words 9 and 10.)		
9	Degrees	Solar or lunar zenith angle at beginning of scan
10	Degrees	Solar or lunar azimuth angle at beginning of scan
11	Degrees	MUSE solar aspect-elevation <u>or</u> Satellite pitch at beginning of scan
12	Degrees	MUSE solar aspect-azimuth <u>or</u> Satellite yaw at beginning of scan
13	Degrees	Satellite roll at beginning of scan or -99.0 if MUSE data in words 11 and 12.
(MUSE data are to be used in words 11 and 12, when available.)		
14	Volts	Photometer PMT high voltage - 1st value for scan
15	Volts	Monochromator PMT high voltage - 1st value for scan
16	-	Day (0) - Night (2) - Twilight (1) Code
17-29	Same as words 4-16, inclusive, but for end of scan. For words 14-15, second values for scan.	
30	Degrees C	PMT - Temperature
31	Degrees C	Housing Temperature
32	Degrees C	Arm Gradient
33	Degrees C	Housing Gradient
34	Angstroms	Nominal wavelength for data following. (3398 Å for first)
35		Spare.
(See Note 2 re words 36-46.)		
36-39	Amperes	Photometer PMT cathode current for the four values in BUV Word 1.
40	Amperes	Photometer PMT cathode current from pulse count in BUV Word 5.
41-44	Amperes	Monochromator PMT cathode current for the four values in BUV Word 3.

TABLE 1-7

BUV DATA RECORD FORMAT (Continued)

45	Amperes	Monochromator PMT cathode current from pulse count in BUV Word 6.
46	- <i>counts</i>	Number of pulse counts in BUV Word 7 (-99.0 if no BUV Word 7 for this wavelength).
47-59, 60-72, . . . , 177-189, same as 34-46, but for remaining wavelengths in order 3312, 3175, . . . , 2555Å. These word blocks are referred to as λ -blocks 1 through 12, respectively.		

Sub-Record for MCSA calibrations

	Units	Quantity
190	Amperes	Mean of the 12 photometer PMT cathode currents given in BUV Word 1 in λ -blocks 4, 5, and 6, incl.
191	Amperes	Standard deviation of quantities used to obtain preceding mean.
192	Amperes	Mean of the 4 photometer PMT cathode currents in BUV Word 5.
193	Amperes	Standard deviation of quantities used to obtain preceding mean.
194-197	Same as words 1-4,	but for monochromator data (BUV Words 3, 6)
198	-	Mean of 2 pulse counts in BUV Word 7 in λ -blocks 3 and 5. (This mean is subtracted from pulse count total in BUV Word 7 in λ -block 7 before these latter counts are accumulated for the statistics in the header record.)

Sub-Record for MCSD calibrations

190	Ångstroms	Apparent position of Hg2537 Å line computed from BUV Word 3 data in λ -blocks 5, 6, 7, 8.
191	Ångstroms	Apparent position of Hg2537 Å line computed from BUV word 6 data in λ -blocks 5, 6, 7, 8.
192	Amperes	Central Intensity from BUV Word 3 calculation
193	Amperes	Central Intensity from BUV Word 6 calculation

- (1) If words 9 and 10 refer to lunar values (re sub-satellite point on dark side of terminator), 1000 shall be added to the zenith angle and azimuth.

TABLE 1-7

BUV DATA RECORD FORMAT (Continued)

- (2) If data are not available for the Nimbus major frame corresponding to one-half of a scan, the corresponding cathode currents are given as -99.0 in words 36-46, 49-59, . . . , 179-189. If the corresponding PMT is not in high gain mode, words 40 or 45 (etc.), shall be given as 0.0; if the photometer or monochromator pulse counter has overflowed, words 40 or 45 (etc.), respectively, shall be given as -999.0.
- (3) When Electrometer data word is full scale, value is set = -999
- (4) When Electrometer data word is zero, value is set = 000
- (5) Data for a scan are not processed or written on the BUV archive tape if:
- (a) BUV power is off for both major frames of the scan, OR
 - (b) there is loss of SYNC for both major frames of the scan.

- (6) Record type identifiers are as follows:

Record Type	Word 1 of Record
SUMMARY RECORD	-111.0
MCSA DATA RECORD	-222.0
MCSB, C DATA RECORD	-333.0
MCSD DATA RECORD	-444.0
DIFFUSER PLATE DATA RECORD	-555.0
BACKSCATTERED UV DATA RECORD	-666.0
MCSE DATA RECORD	-777.0

- (7) In the calibration scans, part of the data do not apply to the calibration per se. However, since these "irrelevant" data may be useful in monitoring instrument performance, they are written on the tape in the usual way, taking account of Note 2 above.
- (8) Spare locations, including those of words 190-200, which may not be used for a particular type of record, are filled with -77.0.
- (9) In normal data records only, words 190-192 will contain the spacecraft velocity components $\dot{x}$, $\dot{y}$ and $\dot{z}$.

Master calib Seq (MCS)

TABLE 1-8

BUV SUMMARY RECORD-DOCUMENTATION & HISTORY

Word	Unit	Contents
1	-	Record Type identifier = -111.0 (see list).
2	-	Satellite ID = 4 for Nimbus 4.
3	-	Orbit number
4	Days	Day of year orbit begins
5	Seconds	Second of day orbit begins
6	Days	Day of year orbit ends
7	Seconds	Second of day orbit ends
8	Volts	Mean value of analog housekeeping +4 Volt Monitor for orbit
9	Volts	Standard deviation of quantities used to get mean in word 8
10	Volts	Minimum value
11	Volts	Maximum value
12	-	Number of quantities in data sample
13-17	Volts	As 8-12 above, but for -6.375 Volt Monitor
18-22	Degrees C	As 8-12 above, but for Housing Absolute Temp.
23-27	Degrees C	" " Photomultiplier Tube Temp.
28-32	"	" " Sensor Module Electronics Temp.
33-37	"	" " Motor Current Limiter Temp.
38-42	"	" " Static Inverter I Temp.
43-47	"	" " Static Inverter II Temp.
48-52	"	" " Arm Temp Gradient
53-57	"	" " Housing Temp. Gradient
The following words 58-142 are derived from MCSA sub records:		
58	Amperes	Average photometer PMT dark current (cathode) from BUV Word 1.
59	Amperes	Standard Deviation of quantities used to get this average.
60	Amperes	Minimum value
61	Amperes	Maximum value
62	-	Number of quantities in data sample.
63-67	Amperes	As 58-62 above, but for data obtained from BUV Word 5.
68-72	"	" " Word 3
73-77	"	" " Word 6
78-82	Counts	As 58-62 above, but for data obtained from BUV Word 7.(100Hz pulses at 2 times High Level Discriminator threshold.)

TABLE 1-8

BUV SUMMARY RECORD-DOCUMENTATION & HISTORY (Continued)

83-87	Counts	As 58-62 above, but for data obtained from BUV Word 5 (125KHz pulses at 0.5 times High Level Discriminator threshold.)
88-92	Counts	As 58-62 above, but for data obtained from BUV Word 6 (125KHz pulses at 0.5 times High Level Discriminator threshold.)
93-97	Counts	As 58-62 above, but for data obtained from BUV Word 5 (125KHz pulses at 2 times Low Level Discriminator threshold.)
98-102	Counts	As 58-62 above, but for data obtained from BUV Word 6 (125KHz pulses at 2 times Low Level Discriminator threshold.)
103-107	Amperes	As 58-62 above, but for last 3 BUV Word 1's (constant current 9×10^{-11} amperes, photo-meter PMT low gain.)
108-112	Amperes	As 58-62 above, but for last 3 BUV Word 1's (constant current 9×10^{-11} amperes, photo-meter PMT high gain.)
113-117	Amperes	As 58-62 above, but for BUV Word 3's (constant current 9×10^{-11} amperes, monochromator PMT <u>low</u> gain.)
118-122	Amperes	As 58-62 above, but for BUV Word 3's (constant current 9×10^{-11} amperes, monochromator PMT <u>high</u> gain.)
123-142	Amperes	Same as 103-122 but for constant current calibration 5×10^{-10} amperes
143	-	Number of MCSB, C calibrations this orbit
144	-	Number of MCSD calibrations this orbit
145	-	Number of diffuser plate scans this orbit
146	-	Time of ED/EN Terminator
147-200	Spare, use -77.0 as fill	

L-5802

D-13183

ORBITS 2946-3468

11/13/70 - 6/27/71

11/13/70 - 12/26/70

7600
600 words208
1200

0001 612425400000	214560200000	201400000000	211475000000	220652614000	210515240420	207632001460	213425023340
0049 213414776740	213405445340	204412560460	603535236620	607614000000	212470652200	212670360400	202400000000
0097 211475000000	220663014000	210517510560	207662275660	213425015660	213414435040	213407016360	204441654430
0145 603535525420	607614000000	212470652200	212670360400	202400000000	205604221300	205567627400	577702430000
0193 177442460000	214650600000	304164201310	143450411000	143441665320	143441665320	143450411000	575000000000
0241 135611437400	135600557500	135600557500	135611437400	575000000000	575000000000	214636000000	204144201310
0289 143441665320	143441665320	143441665320	143441665320	575000000000	136513711700	136513711700	136513711700
0337 136504337300	575000000000	607614000000	214614700000	204144201310	143441665320	143441665320	143441665320
0385 143441665320	575000000000	137421463360	137421463360	137421463360	137421463360	575000000000	575000000000
0433 214606500000	204144201310	143441665320	143441665320	143441665320	143441665320	575000000000	137444717620
0481 137453507120	137444717620	137453507120	575000000000	607614000000	214576200000	204144201310	143441665320
0529 143433256500	143441665320	143441665320	575000000000	137510117360	137517545740	137510117360	137510117360
0577 575000000000	575000000000	214571300000	204144201310	143441665320	143441665320	143441665320	143433256500
0625 575000000000	137436245700	137436245700	137436245700	137436245700	575000000000	607614000000	214553700000
0673 204144201310	143441665320	143433256500	143441665320	143433256500	575000000000	137633710300	137633710300
0721 137633710300	137622505460	575000000000	575000000000	214555200000	204144201310	143441665320	143433256500
0769 143433256500	143433256500	575000000000	137715353540	137730043000	137730043000	137715353540	575000000000
0817 607614000000	214547400000	204144201310	143433256500	143433256500	143433256500	143433256500	575000000000
0865 137471445360	137471445360	137471445360	137462415540	575000000000	575000000000	214541600000	204144201310
0913 143424762620	143433256500	143424762620	143433256500	575000000000	137510117360	137510117360	137510117360
0961 137510117360	575000000000	607614000000	214525700000	204144201310	143433256500	143424762620	143424762620
1009 143433256500	575000000000	136616045140	136627162400	136627162400	136627162400	575000000000	575000000000
1057 214477300000	214154201310	143424762620	143433256500	143433256500	143424762620	575000000000	135421452000
1105 135413336300	135413336300	135413336300	575000000000	607614000000	607464000000	607464000000	607464000000
1153 607464000000	607464000000	607464000000	607464000000	607464000000	607464000000	607464000000	607464000000
1201 612515000000	214560200000	202400000000	211475000000	220653014000	210517510560	207662275660	213425015660
1249 213414435040	213407016360	204470737020	603536034120	607614000000	214532071610	214452515500	202400000000
1297 211475000000	220663214000	210521315250	207722307660	213425002300	213414062740	213410742740	204547044530
1345 603536731520	607614000000	214532071610	214452515600	202400000000	205604221300	205567627400	577702430000
1393 177442460000	214650600000	130044201310	575000000000	106473070040	106446256340	106422741600	612753400000
1441 575000000000	575000000000	575000000000	575000000000	117472367520	204674343510	214636000000	110044201310
1489 123565715660	123545222660	123535204220	123535204220	124426033310	575000000000	575000000000	575000000000
1537 575000000000	120424345370	607614000000	214614700000	110044201310	123506172220	123506172220	123476720740
1585 123460571120	124410116650	575000000000	575000000000	122400112240	575000000000	120601124120	205641616200
1633 214606500000	110044201310	123451707100	123460571120	123451707100	123434515600	123764750440	575000000000
1681 575000000000	575000000000	575000000000	120524664450	607614000000	214576200000	110044201310	123443143720
1729 123426202540	123443143720	123434515600	612763400000	575000000000	575000000000	575000000000	575000000000
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NIMBUS 4 B.U.V.

L5803

D-13184

ORBITS 1830-1898

8/22/70-8/27/70

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2161	125467210300	575000000000	607614000000	214525700000	210144201310	140701557020	140701557020	140701557020
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2881	131442624500	131442624500	131442624500	575000000000	607614000000	214576200000	210104201310	140577445060
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D-13186

L-5806

ORBIT-210

4/22/70-4/23/70

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1345	205401522600	607614000000	214532071610	214452515600	202400000000	205612416200	205561432500	577702430000
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0721	575000000000	575000000000	114755242410	204456161650	214555200000	110044251310	575000000000	575000000000
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D-13187

L-5807

ORBIT 24-227

4/24/70-4/25/70

D-13275

L-8999

RBIT/15771-1583

11/23/70 - 11/23/70

(First orbit
should be
1577)

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