

DATA SET CATALOG #163

70-025A-04A

20 tapes

NIMBUS 4 SIRS

SIRS 'B' COMPACTED DATA

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

NIMBUS 4

SIRS 1B/ COMPACTED DATA

70-025A-04A

ESAD 00130

This data set has been restored. There was originally 20 Binary 2-Track, 556 BPI tapes. There are 3 restored tapes. The DR and DS tapes are 9-track, 6250 BPI. The tapes were created on an IBM 7094 computer. The DR and DS numbers along with the corresponding D numbers and the time spans are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR00847	DS00847	D08040	1-23	04/08/70 - 04/30/70
		D08041	24-47	05/01/70 - 05/24/70
		D08042	48-69	05/25/70 - 06/16/70
		D08043	70-88	06/17/70 - 07/05/70
		D08159	89-107	07/06/70 - 07/24/70
		D08130	108-125	07/26/70 - 08/12/70
		D08130	126-141	08/13/70 - 08/29/70
DR00848	DS00848	D08131	1-16	08/30/70 - 09/14/70
		D08132	17-32	09/15/70 - 09/30/70
		D08131	33-48	10/01/70 - 10/17/70
		D08133	49-66	10/18/70 - 11/04/70
		D08134	67-84	11/05/70 - 11/22/70
		D08135	85-101	11/23/70 - 12/09/70
		D08136	102-118	12/10/70 - 12/26/70
DR00849	DS00849	D08843	1-20	12/27/70 - 01/16/71
		D08844	21-38	01/17/71 - 02/03/71
		D08840	39-57	02/04/71 - 02/22/71
		D08842	58-77	02/23/71 - 03/14/71
		D08841	78-96	03/15/71 - 04/04/71
		D08839	97-100	04/05/71 - 04/08/71

NIMBUS IV SIRS

SIRS 'B' COMPACTED DATA
70-025A-04A

This data set consists of the following ²⁰~~14~~ tapes:

<u>D#</u>	<u>G#</u>	<u>FILES</u>	<u>ORBITS</u>	<u>TIME SPAN</u>
D-08040	C-05856	23	4 - 300	APRIL 8 - APRIL 30, 1970
D-08041	C-05857	24	310 - 626	MAY 1 - MAY 24, 1970
D-08042	C-05858	22	629 - 939	MAY 25 - JUNE 16, 1970
D-08043	C-05859	19	938 - 1194	JUNE 17 - JULY 5, 1970
D-08159	C-06187	19	1196 - 1459	JULY 6 - JULY 24, 1970
D-08130	C-06180	18	1462 - 1700	JULY 26 - AUGUST 12, 1970
D-08160	C-06230	17	1701 - 1932	AUGUST 13 - AUGUST 29, 1970
D-08131	C-06181	16	1932 - 2147	AUGUST 30 - SEPTEMBER 14, 1970
D-08132	C-06182	16	2147 - 2362	SEPTEMBER 15 - SEPTEMBER 30, 1970
D-08161	C-06231	17	2362 - 2587	OCTOBER 1 - OCTOBER 17, 1970
D-08133	C-06183	18	2590 - 2828	OCTOBER 18 - NOVEMBER 4, 1970
D-08134	C-06184	18	2832 - 3070	NOVEMBER 5 - NOVEMBER 22, 1970
D-08135	C-06185	17	3073 - 3302	NOVEMBER 23 - DECEMBER 9, 1970
D-08136	C-06186	17	3302 - 3530	DECEMBER 10 - DECEMBER 26, 1970
D-08843	C-06988	20	3530 - 3862	DECEMBER 27, 1970 - JANUARY 16, 1971
D-08844	C-06989	18	3863 - 4054	JANUARY 17 - FEBRUARY 3, 1971
D-08840	C-06981	19	4054 - 4305	FEBRUARY 4 - FEBRUARY 22, 1971
D-08842	C-06983	20	4306 - 4574	FEBRUARY 23 - MARCH 14, 1971
D-08841	C-06982	19	4577 - 4856	MARCH 15 - APRIL 4, 1971
D-08839	C-06980	4	4859 - 4906	APRIL 5 - APRIL 8, 1971

These tapes are 556 BPI, binary, 7 track. They contain fixed length records, 5100 characters per record. The 'D' tapes were made on a CDC 6600 and the 'C' tapes were created on the 7094.

the information needed by the users. All engineering and supporting data have been deleted from these archival tapes. Complete archival tapes with all experimental data are being retained by the National Environmental Satellite Center.

1.5.3 NSSDC Archival Tape Structure

Each set of radiances with associated supporting information is archived in fifteen 24-bit words. Upon inspection of the data the user will note that the normal 2-second interval between data sets is frequently interrupted due to data deletions as mentioned in the above sections. Each record contains 85 sets of data and each day comprises one file of data. A double end of file is written at the end of tape.

The following table describes the format of the data.

TABLE 1-1 NIMBUS 4 SIRS DATA FORMAT

Record Length = 1275 24 bit words

Record Length = 510 60 bit words

850 36 bit words

85 logical records / block

Word (24 bit)	Format	Description
1	SPEC 1	Cal. code, quality flags
2	I	Day
3	I	Month
4	I	Year
5	I	Time-sec. (G. M. T.)
6	F2	Principal Point Latitude
7	F2	Principal Point Longitude
8	F2	Zenith Angle
9-15	SPEC 2	Radiance, Channels 1-14

Format Description

SPEC 1	bits $2^0 - 2^{13}$ channels 1-14 quality flags (channel 14 quality flag in bit 2^0 ; 13 in bit 2^1 , etc.).
	bits $2^{20} - 2^{23}$ calibration code, right adjusted.
SPEC 2	Two 12 bit words packed in each 24 bit word. Word 9 contains channel 1 in bits $2^{23} - 2^{12}$, channel 2 in bits $2^{11} - 2^0$. Word 10 contains channel 3 in bits $2^{23} - 2^{12}$, etc.
I	right adjusted integer
F2	right adjusted integer - decimal point is understood to be between 2nd and 3rd decimal digits - i.e., 1.70 is stored as 2528 right adjusted - when read as 170_{10} is multiplied by 10^{-2} to retrieve the original value 1.70.

Incomplete records will be zero filled.

1

Apr 8-30, 1970

X-423

X-424

D-08040

C-05856

2977	115277630670	066407211055	170015121427	125710300066	140000000000	001000000000	000010000000	21510010315
3028	777511257777	122014161041	116607650670	36540717055	173115261427	106910422766	140010000000	215100100000
3073	000001060020	215330010327	777511177777	122014351427	120037106070	06640713155	176715041437	10730430760
3121	140000000000	001000000000	000001060020	21530010327	777511127777	122015010451	126407150672	06640713055
3165	200115531450	17510430762	140000000000	001000000000	000001060020	215700010354	777511047777	122015041674
3217	122607770672	06640713055	201515671452	11010430762	140000000000	001000000000	000001060020	22300001151
3265	777523106020	000001060020	000001060020	124201302074	067757204077	202401010151	112711041020	140000000000
3313	000001060020	22300001151	777523106020	000001060020	124401260712	067700131050	202401010151	112711041020
3361	140000000000	001000000000	000001060020	22300001151	777523106020	000001060020	124201302074	067757204077
3409	224216101526	112511060004	140000000000	001000000000	000001060020	22300001151	777523106020	000001060020
3457	154010300714	06740731050	120201010151	113111060004	140000000000	001000000000	000001060020	22300001151
3505	777527230000	000013621427	23610300712	067727311947	203401010151	113511021004	140000000000	000001060020
3553	000001060020	22300001151	777522600000	000001060020	123403000712	067727311947	203401010151	113511021004
3601	140000000000	001000000000	000001060020	22300001151	777522600000	000001060020	123403000712	067727311947
3649	203016010514	112710741003	140000000000	001000000000	000001060020	22300001151	777522600000	000001060020
3697	123010320710	06770731055	202415721427	114101010151	140000000000	001000000000	000001060020	22300001151
3745	777522600000	000001060020	122410300712	067727311947	203401010151	113511021004	140000000000	000001060020
3793	000001060020	22300001151	777522600000	000001060020	123403000712	067727311947	203401010151	113511021004
3841	140000000000	001000000000	000001060020	22300001151	777522600000	000001060020	123403000712	067727311947
3889	203015721427	112710741003	140000000000	001000000000	000001060020	22300001151	777522600000	000001060020
3937	123010320710	06770731055	202415721427	114101010151	140000000000	001000000000	000001060020	22300001151
3985	777522600000	000001060020	122410300712	067727311947	203401010151	113511021004	140000000000	000001060020
4033	000001060020	22300001151	777522600000	000001060020	123403000712	067727311947	203401010151	113511021004
4081	140000000000	001000000000	000001060020	22300001151	777522600000	000001060020	123403000712	067727311947
4129	152114401370	106310676775	140000000000	001000000000	000001060020	22300001151	777522600000	000001060020
4177	112010107675	077710311131	152514401355	106310676775	140000000000	001000000000	000001060020	22300001151
4225	777545227777	244607711055	110210150755	077710311131	152514401355	106310676775	140000000000	001000000000
4273	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131	152514401355	106310676775
4321	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131
4369	152514401355	106310676775	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055
4417	107210150755	077710311131	152514401355	106310676775	140000000000	001000000000	000001060020	22300001151
4465	777545227777	244607711055	110210150755	077710311131	152514401355	106310676775	140000000000	001000000000
4513	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131	152514401355	106310676775
4561	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131
4609	152514401355	106310676775	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055
4657	105410076752	100510331135	147314301355	106310676775	140000000000	001000000000	000001060020	22300001151
4705	777545227777	244607711055	110210150755	077710311131	152514401355	106310676775	140000000000	001000000000
4753	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131	152514401355	106310676775
4801	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131
4849	107316021500	111107010114	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055
4897	116010360762	106310676775	170515044773	115101010151	140000000000	001000000000	000001060020	22300001151
4945	777545227777	244607711055	110210150755	077710311131	152514401355	106310676775	140000000000	001000000000
4993	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131	152514401355	106310676775
5041	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131
5089	152115211464	110310741003	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055

0001	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055	110210150755	077710311131
0049	153751517460	110511010151	140000000000	001000000000	000001060020	22300001151	777545227777	244607711055
0097	107210107675	077710311131	152514401355	106310676775	140000000000	001000000000	000001060020	22300001151
0145	777510620000	533070015745	107210107675	077710311131	152514401355	106310676775	140000000000	001000000000
0193	000001060020	22300001151	777510620000	533070015745	107210107675	077710311131	152514401355	106310676775
0241	140000000000	001000000000	000001060020	22300001151	777510620000	533070015745	107210107675	077710311131
0289	152115211464	110310741003	140000000000	001000000000	000001060020	22300001151	777510620000	533070015745
0337	107010150755	077710311131	152514401355	106310676775	140000000000	001000000000	000001060020	22300001151
0385	777510620000	533070015745	107210107675	077710311131	152514401355	106310676775	140000000000	001000000000
0433	000001060020	22300001151	777510620000	533070015745	107210107675	077710311131	152514401355	106310676775
0481	140000000000	001000000000	000001060020	22300001151	777510620000	533070015745	107210107675	077710311131
0529	152715041450	112710741003	140000000000	001000000000	000001060020	22300001151	777510620000	533070015745
0577	106210150755	077710311131	152514401355	106310676775	140000000000	001000000000	000001060020	22300001151
0625	777567230000	533070015745	107210107675	077710311131	152514401355	106310676775	140000000000	001000000000
0673	000001060020	22300001151	777567230000	533070015745	107210107675	077710311131	152514401355	106310676775
0721	140000000000	001000000000	000001060020	22300001151	777567230000	533070015745	107210107675	077710311131

0001	040000000000	000000000000	000000100000	07610001354	090140470000	000010631251	114410331002	103310651217
0049	103615671000	107410641010	040000000000	003600003004	000001060000	07610001354	000137600000	000010651283
0097	114610361000	10631071217	16401571500	107610661002	040000000000	003600000004	000011600000	076000017353
0145	000113671000	000010691251	114610351000	10631071217	164215771504	110010640775	040000000000	003600000000
0193	000001060000	0767000217346	000136030000	07010661255	114610351002	102310651217	164415731502	107106207000
0241	040000000000	036600000004	000001060000	077106017341	000135150000	000010651283	114410351000	102310712173
0289	165015671500	106610626773	040000000000	003600000000	000001060000	077106017341	000134300000	00010631251
0337	114210377776	10231074210	165015711476	126410566771	040000000000	040000000000	000001060000	076000017353
0385	000133430000	00000961251	114210370774	10231071212	165015671472	10710640771	000000000000	000000000000
0433	000001060000	077700017322	000132560000	000010631247	114010357772	10231074212	164215671476	107610617577
0481	040000000000	003600000004	000001060000	105500017602	000057770000	000001061221	100000770000	040000000000
0529	135613561313	10501060775	040000000000	003600000004	000010600000	102700017571	000000000000	040000000000
0577	077607700774	10631071217	134711311311	16421060768	040000000000	003600000000	000000000000	000000000000
0625	000005610000	03360610111	077407700770	132211061217	135113531312	102310650771	000000000000	000000000000
0673	000001060000	106300017547	000005012000	033606000000	077707640770	000001061221	100000770000	040000000000
0721	040000000000	036600000004	000001060000	105500017536	000005000000	003600000000	000000000000	000000000000
0765	124113451315	10521066773	040000000000	003607000000	000001060000	000000000000	000000000000	000000000000
0817	076407640772	106310610121	133113431313	105410607777	000006000000	003600000000	000000000000	000000000000
0865	000054030000	033605751003	076407640770	1361071217	135113451307	102310640767	000006000000	000000000000
0913	000001060000	107300017503	000005360000	000005761501	076407620770	10631061221	132713451307	100000000000
0961	040000000000	003600000004	000001060000	116106015032	000111427777	244112301353	000000000000	102010651200
1009	178216721000	127101011012	040000000000	003600000004	000001060000	115300106523	000001060000	244112313555
1057	120410377777	102310612217	127101011012	178216721000	113710110055	003600000000	000001060000	115300106014
1105	000110507777	244112313555	120610350775	106310651003	178616741600	114711651004	040000000000	003600000000
1153	000013670000	115700010600	000110137777	044112541365	126103507774	102210651203	176417051502	113110710004
1201	040000000000	003600000004	000001060000	116100015776	000107567777	244112621372	120610350775	102210651202
1249	203010701002	114511071010	040000000000	003600000004	000001060000	116300015767	000107217777	244112671374
1297	120610410765	106310651202	206410763404	113711111005	040000000000	003600000000	000001060000	114500015765
1345	000106567777	244112313555	121010630770	12210651202	103147031502	11311131010	040000000000	000000000000
1393	000001060000	124300016147	000055340000	000111421325	121210641004	102210661100	173416971375	115300106023
1441	040000000000	003600000004	000001060000	124500101516	000005000000	000011361323	000000000000	102107101176
1489	173016551575	116212131025	040000000000	003600000004	000001060000	124700010125	000005000000	000000000000
1537	121010541002	102310651176	121210541002	11611240125	040000000000	003600000004	000001060000	000000000000
1585	000054030000	000001321321	121210541002	102310631200	171216471577	114711261025	000001060000	000000000000
1633	040001060000	125300101502	000054030000	000111341321	121210641002	102210661100	121410641002	102310651174
1681	040000000000	003600000004	000001060000	125300101502	000003357000	102210661100	121410641002	102310651174
1729	171216431562	116011261025	040000000000	003600000004	000003357000	125700010600	000003310000	000011401323
1777	121410641002	102310651174	172103351567	116411211025	000003357000	125700010600	000003310000	000011401323
1825	000053040000	000011413323	121410641002	102310651174	172103351567	115311211025	000003310000	000011401323
1873	000001060000	133700016013	000021260000	000003357000	000003357000	125700010600	000003310000	000011401323
1921	040000000000	003600000004	000001060000	000003357000	000003357000	125700010600	000003310000	000011401323
1969	174163015016	113101110104	040000000000	003600000004	000003357000	125700010600	000003310000	000011401323
2017	121010641002	102210651203	175416301516	113111011014	040000000000	003600000004	000001060000	000000000000
2065	000026030000	03351221351	126105710055	102210651203	176216341520	113111071016	040000000000	000000000000
2113	000001060000	134700015741	000001060000	003600000004	000003357000	125700010600	000003310000	000011401323
2161	040000000000	003600000004	000001060000	000003357000	000003357000	125700010600	000003310000	000011401323
2209	175016261573	113711070104	040000000000	003600000004	000003357000	125700010600	000003310000	000011401323
2257	102210641002	102210651203	175416301516	113111011014	040000000000	003600000004	000001060000	000000000000
2305	000001060000	03351221351	122106061001	1063106511203	173016301537	113711031016	040000000000	000000000000
2353	000001060000	143700010474	000005347777	244112201347	121010530772	102210661100	175416301516	113711051012
2401	040001060000	003600000004	000001060000	143500014463	000053257777	244112201347	121010510772	100010600166
2449	176416301526	111111071012	040000000000	003600000004	000001060000	143700010452	000005031677	244112201347
2497	121010640772	102105011175	176416241526	111111135036	040000000000	000005031677	244112201347	100010600166
2545	000052567777	244112201347	121010640772	12210521170	176416221531	111111071016	040000000000	000000000000
2593	000001060000	144300014427	000005247777	244112221347	121010450777	102210661100	177016221531	113711051012
2641	040000000000	003600000004	000001060000	144500014416	000052307777	244112221347	121010450777	100010600166
2689	177616201533	111111057777	040000000000	003600000004	000001060000	144700014405	000001060000	000000000000
2737	121210450776	100210450776	175416241533	112111011004	040000000000	003600000004	000001060000	000000000000
2785	000051727777	244112301353	121210470773	175416261536	111711051003	102210661100	177016221531	113711051012
2833	000001060000	152700014364	000027560000	000112221363	122410661000	102210661100	177016221531	113711051012
2881	040000000000	003600000004	000001060000	153100141351	000027440000	00001221361	122410661000	102210661100
2929	177216411515	112210651301	040000000000	003600000004	000001060000	153300014337	000027310000	000012213535

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