#460

Earth Sc

SEASAT-A

S-BAND DATA

78-064A-07A

ESGP-00115

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

SEASAT 1

S-BAND DATA

78-064A-07A ESGP-00115

THIS DATA SET HAS BEEN RESTORED. IT ORIGINALLY CONTAINED FIVE 9-TRACK, 1600 BPI TAPES WRITTEN IN BINARY. 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 AN IBM 360 COMPUTER AND WERE RESTORED ON THE MRS. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

DR#	DS#	D#	FILES	TIME SPAN
DR004298	DS004298	D032698	1	06/27/78 - 06/30/78
		D032699	2	07/01/78 - 07/31/78
		D032700	3	08/01/78 - 08/31/78 (a)
		D023755	4	09/01/78 - 09/30/78
		D032922	5	10/01/78 - 10/10/78

(a) D032700 - 1 ERROR, REC. 10, FILE 1

REQ. AGENT
CHP

BAND NO.
RD1253
RD1265

ACQ. AGENT
RWP

SEASAT-A

S-BAND DATA

78-064A-07A

This data set contains 5 data tapes. They are 9 track, 1600, BINARY, with 1 file per tape. These tapes were created on an IBM 360 computer.

D#	C#	TIME SPAN
D-32698	C-20262	6/18/78 - 6/30/78
D-32699	C-20263	7/ 1/78 - 7/31/78
D-32700	C-20264	8/ 1/78 - 8/31/78
D-32[illegible]	C-20271	9/01/78 - 9/30/78
D-32[illegible]22	C-20290	10/1/78 - 10/10/78

GEOS-C BINARY FORMAT

(* Information pertains to Laser Data)

The GEOS-C satellite will be tracked by many different systems and networks of tracking stations. It is intended that this format will accommodate data taken from all tracking systems and networks as well as altimeter data taken by the satellite. As a consequence of its design characteristics, this format not only meets the specifications of the GEOS-C project, but also the precise orbit determination requirements of all currently existing satellites.

The FORTRAN variable types used in this format description are:

I*2 - Half-Word Integer

I - Single Word Integer

R - Single Word Floating Point

DP - Double Word Floating Point

Figure 4.7.14

Description of Bytes 1-28 for all measurement types.

Bytes	FORTRAN Variable Type	Description
* 1-4	I	Satellite ID - This is the international satellite designation nnpppqq where:
		nn - last two digits of the year of launch (e.g., 1974-74, 1969-69).
		ppp - order of launch. Example: The 25th vehicle launch in a given year is designated with ppp = 025.
		qq - component identifier (e.g., component a-01, component ℓ-12, etc.)
* 5-6	I*2	Measurement Type
		10-14 Right Ascension and Declination
		10 = Optical
		11 = Laser Optical
		15-19 Hour Angle and Declination
		15 = DSN S-Band Radar
		20-29 Range or Range Difference
		* 20 = Laser
		21 = C-Band Radar
		22 = C-Band VLBI Range Difference Radars
		23 = DSN S-Band Radar
		24 = USB Radar
		25 = GRARR S-Band Radar
		26 = GRARR ATS-F C-Band Radar
		27 = GRARR VHF Radar

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description
(5-6 cont'd)		30-39 Range Rate or Range Rate Difference
		30 = Combined DSN/USB Radars
		31 = C-Band Radar
		32 = C-Band VLBI Range Rate Difference Radars
		33 = DSN S-Band Radar
		34 = USB Radar
		35 = GRARR S-Band Radar
		36 = GRARR ATS-F C-Band Radar
		37 = GRARR VHF Radar
		38 = TRANET Doppler
		39 = Geoceiver Doppler
		40-44 Altimeter Height
		40 = Long Pulse
		41 = Short Pulse
		45-49 Available for additional measurement types such as Altimeter Height Rate.
		50-54 ℓ and m Direction Cosines
		51 = Minitrack Equatorial Mode
		52 = Minitrack Polar Mode
		55-59 Available for additional angles or cosines
		60-63 X-Y Angles (East-West)
		60 = USB Radar

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description
(5-6 cont'd)		64-69 X-Y Angles (North-South)
		64 = USB Radar
		65 = GRARR S-Band Radar
		66 = GRARR ATS-F C-Band Radar
		67 = GRARR VHF Radar
		70-79 Azimuth and Elevation Angles
		* 70 = Laser
		71 = C-Band Radar
		73 = DSN S-Band Radar
		80-89 Available for additional Range type measurements
		90-99 Available for additional Range Rate type measurements
7-8	I*2	Time System Indicator (nm)

n value	description
0	Ground Received Time
*1	Satellite Transponder/Transmitter Time
2	Ground Transmitted Time (Effective Time for Averaged Altimeter Data, Types 40-44)
3	Satellite Receiver Time

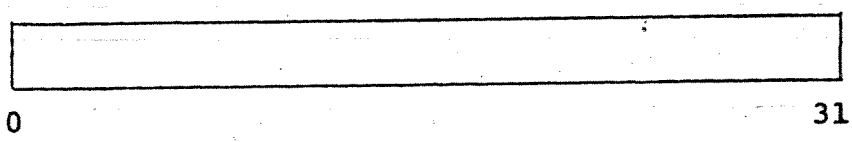
Figure 4.7.14

Bytes	FORTRAN Variable Type	Description
(7-8 cont'd)		m value — description
		0 — UT-0
		1 — UT-1
		2 — UT-2
		*3 — UTC
		4 — A.1
		5 — A.3 (A.T. B.I.H.)
		6 — A-S (Smithsonian)
* 9-12	I	Station Number
		0 — Altimeter
		1- 99 — USB
		500- 599 — DSN
		1000- 1999 — NASA STADAN
		1100- 1199 — S-Band Radar (GRARR)
		1500- 1599 — Minitrack
		1600- 1699 — VHF Radar (GRARR)
		2000- 2999 — U. S. Navy TRANET Doppler
		3000- 3999 — U. S. Air Force Optical
		4000- 4999 — Interagency C-Band
		5000- 5999 — U. S. Army Secor
		6000- 6999 — Worldwide BC-4 Network
		7000- 7999 — NASA SPEOPT
		8000- 8999 — International Observers

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description
(9-12 cont'd)		9000- 9999 SAO
		10000-99999 U. S. Navy GEOCEIVER Doppler
*13-16	I	Preprocessing Indicators/Report

The preprocessing indicators are bit switches packed into a single 32 bit word. The rightmost bit (bit 31) is of lowest order and the leftmost bit (bit 0) is of highest order.



The preprocessing bits are configured as follows:

Bits	Value	Description
*0		This bit should always be zero filled.
1 - 2		Format Indicator (Types 40-44)
	1	Format 1
	2	Format 2
	3	Format 3
3		Beacon Activity Indicator (Types 10-14)
	0	Beacon Inactive or No Beacon
	1	Beacon Active

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description		
(13-16 cont'd)		Bits	Value	Description
		4		Equator Designation (Types 10-14)
			0	Mean Equator and Equinox
			1	True Equator and Equinox
		5 - 6		Date of Equator and Equinox (Types 10-14)
			0	Standard Equator and Equinox (Jan 0.0 1950)
			1	Jan 0.0 of year of observation
			2	Equator and Equinox of Date (instant of observation)
			3	DODS Reference Date (0 hr. Sept. 19, 1957)
		7		Annual Aberration (Types 10-14)
			0	Data has been corrected
			1	Data has not been corrected
		8		Diurnal Aberration (Types 10-14)
			0	Data has been corrected
			1	Data has not been corrected
		9		Parallactic Refraction (Types 10-14)

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description		
(13-16 cont'd)		Bits	Value	Description
			0	Data has been corrected
			1	Data has not been corrected
		*10-12		Tropospheric Refraction (all but Types 10-14)
		9	0	Data has been corrected
			1	Data has not been corrected
		9	2	Data has been corrected using the correction formulas for international laser data. Correction value is for zero zenith.
			3	Data has not been corrected. Correction value is for zero zenith.
			>3	Data has not been corrected. Bytes 53-56 contains meteorological data.
		*13		Ionospheric Refraction (all but Types 10-14)
			0	Data has been corrected
			1	Data has not been corrected
		14		Transponder Delay (Types 20-29)
			0	Data has been corrected
			1	Data has not been corrected (correction is required)

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description		
(13-16 cont'd)		Bits	Value	Description
		*15		Antenna Axis Displacement (Types 20-29)
			0	Data has been corrected (or no correction required)
			1	Data has not been corrected (correction is required)
		*16-17		Receiver Mount Type (all but Types 10-14, and Types 38-59)
			0	X-Y (East-West)
			*1	X-Y (North-South)
			*2	Azimuth-Elevation
			3	Hour Angle-Declination
		18-19		Transmitter Mount Type (all but Types 10-14, and Types 38-59)
			0	X-Y (East-West)
			*1	X-Y (North-South)
			*2	Azimuth-Elevation
			3	Hour Angle-Declination
		20-21		Transponder Channel/Type (Radar Data Only) or Altimeter Mode (Data Types 40-44)

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description	
(13-16 cont'd)			Transponder Channel for GRARR
		0	Channel A
		1	Channel B
		2	Channel C
			Altimeter Mode
		0	Global Track Mode
		1	Intensive Track Mode
		>1	Not in track mode
			Transponder Type for Other Systems
		0	Skin Track
		1	Coherent
		2	Non-coherent
		22-25	Range Ambiguity Levels
			For DSN S-Band
		0	MARK 1A (824,809,582.0m)
		1	TAU (151,285,510.38518m)
			For USB
		1	824809582.0m
			For GRARR S-Band
		1	18737031.3m
		2	4684257.8m
		3	936851.6m

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description
(13-16 cont'd)		

Bits	Value	Description
26-31		Preprocessing Report
	0	Report not specified
	---	Other values to be assigned later

*17-20	I	Modified Julian Date (MJD) of observation. JD = MJD + 2400000.5 See RALPH'S DATE CHART AT END
*21-28	DP	Fraction of Day Past Midnight (GMT)
29-68		These words have different uses for each of the measurement types, except for Bytes 53-56 which contains meteorological data for the troposphere if Bit 10 of the preprocessing indicator word (Bytes 13-16) has been set on. If Bit 10 of the preprocessing indicator word is on, the format of Bytes 53-56 is as follows:
53-56	I	Meteorological Data Report

The pressure temperature and relative humidity are packed into a single 32-bit word. The rightmost bit (bit 31) is of lowest order and the leftmost bit (bit 0) is of highest order.

0 31

The meteorological bits are configured as follows:

Bits	Values	Description
0		This bit should always be zero filled.
1- 7	0-100	Relative humidity at the tracking site.

Figure 4.7.14

Bytes	FORTRAN Variable Type	Description

(53-56 cont'd)

Bits	Values	Description
8-19	>0	Temperature in Degrees Kelvin
20-31	>0	Atmospheric pressure in millibars.

Bytes 29-68 for Angle Measurements (Types 10-19, 60-79)

Bytes	FORTRAN Variable Type	Description
*29-36	DP	Observation Value in Radians for Right Ascension, or Hour Angle, or Azimuth, or X-Angle
*37-44	DP	Observation Value in Radians for Declination, or Elevation, or Y-Angle
45-48	R	Standard Deviation in Radians for Observation in Bytes 29-36. For R.A. and H.A. sigma value is multiplied by cosine of the declination. For Azimuth sigma value is multiplied by cosine of elevation.
49-52	R	Standard Deviation in Radians for Observation in Bytes 37-44.
53-56	R	Tropospheric Refraction Correction in Radians for X-Angle
57-60	R	Tropospheric Refraction Correction in Radians for Y-Angle or Elevation
60-68		Not Used

Figure 4.7.14

Bytes 29-68 for Range and Range Rate Measurements (Types 20-39)

Bytes	FORTRAN Variable Type	Description
*29-36	DP	Observation Value in Meters for Range (Types 20-29) and Meters/Second for Range Rates (Types 30-39)
37-40	I	Transmitting or Reference Station Number for Average Range Rate or VLBI Range Difference and Range Rate Difference
41-44	I	Relay Satellite ID for Satellite-to-Satellite Tracking Data
45-48	R	Standard Deviation of Observation in Same Units as Observation
49-52	I	Counting Internal in Microseconds for Average Range Rate Data (Types 30, 33, 34, and 38)
53-56	R	Tropospheric Refraction Correction in Same Units as Observation. For international observers, the value in this field is for a zenith angle of zero degrees.
57-60	R	Ionospheric Refraction Correction in Same Units as Observation
61-64	R	Receiver Antenna Axis Displacement in Meters
65-68	R	Transmitter Antenna Axis Displacement in Meters

Figure 4.7.14

GEOS-C DECIMAL FORMAT

(* Information Pertains to Laser Data)

Range and Range Difference

Columns	Subset	Description
* 1- 7		Satellite - ID
* 8- 9		Measurement Type 20-29 Range or Range Difference 20= Laser 21= C-Band Radar 22= C-Band VLBI Range Difference Radars 23= DSN S-Band Radar 24= USB Radar 25= GRARR S-Band Radar 26= GRARR ATS-F S-Band Radar 27= GRARR VHF Radar
*10-11		Time System Indicator
	*10	0 = Ground Received Time *1 = Satellite Transponder/Transmitter Time 2 = Ground Transmitted Time 3 = Satellite Receiver Time
	*11	0 = UT-0 1 = UT-1 2 = UT-2 *3 = UT-C 4 = A.1 5 = A.3 (A.T. B.I.H.) 6 = A-S (Smithsonian)
* 2-16		Station ID
* 7-32		GMT of Observation
	*17-18	Year
		YY

Figure 4.7.15

Columns	Subset	Description
	*19-21	Day of Year
		DDD
	*22-26	Time of Day (Seconds from midnight GMT)
	*27-32	Fractional Part of Seconds (in microseconds)
3-35		Preprocessing Indicators
	*33	0 = Data has been corrected for ionospheric refraction effects.
		1 = Data not corrected for ionospheric refraction.
	*34	0 = Data has been corrected for tropospheric refraction effects.
		1 = Data not corrected for tropospheric refraction.
		2 = Data has been corrected for tropospheric refraction using the correction formulas for international laser data (see Cols. 76-80).
		3 = Data not corrected for tropospheric refraction. Cols. 76-80 contain coefficient for use with international laser formulas.
	35	0 = Data has been corrected for transponder delay effects.
		1 = Data not corrected for transponder delay.
36-54		Observation Data
	*36-45	Range or Range Difference (Km)
	*46-54	Range or Range Difference XXX.XXXXXX Meters (NOTE: In this format, XX.XX - Decimal Point is implied.)

Figure 4.7.15

Columns	Subset	Description
55-56		Preprocessing Indicators
	55	Preprocessing Report 0 = Report not indicated 1-9, A-Z values to be assigned.
	56	Transponder type for pulse radars 1 - coherent 2 - non-coherent or Transponder Channel for GRARR 1 = Channel A or 1st sidetone 2 = Channel B or 2nd sidetone 3 = Channel C or 3rd sidetone
57-61		Reference station number for range differencing or transmitting station number for station-to-satellite-to-satellite-to-station data.
62-68		Relay satellite-ID for satellite-to-satellite data.
69-73		Measurement standard deviation XX.XXX Meters
74		Range ambiguity indicator For DSC S-Band 1 - MARK 1A (824809582.0 m) 2 - TAU (151285510.38518 m) For USB 1 - 824809582.0 m

Figure 4.7.15

Columns	Subset	Description
		For GRARR S-Band 1 - 18737031.3 m 2 - 4684257.8 m 3 - 936851.6 m
75		Not used
76-80		Tropospheric refraction correction XX.XXX Meters or, Coefficient of Tropospheric Refraction for international lasers (see Col. 34). XX.XXX Meters

GEOS-C Decimal Azimuth/Elevation and X-Y Angles Format

Columns	Subset	Description
* 1- 7		Satellite-ID
* 8- 9		Measurement Type 60-63 X-Y Angles (East-West) 60 = USB Radar 64-69 X-Y (North-South) 64 = USB Radar 65 = GRARR S-Band Radar 66 = GRARR ATS-F C-Band Radar 67 = GRARR VHF Radar 70-79 Azimuth and Elevation Angles *70 = Laser 71 = C-Band Radar 73 = DSN S-Band Radar
*10-11		Time System Indicator
	*10	0 = Ground Received Time *1 = Satellite Transponder/Transmitter Time 2 = Ground Transmitted Time 3 = Satellite Receiver Time

Figure 4.7.15

Columns	Subset	Description
	*11	0 = UT-0 1 = UT-1 2 = UT-2 *3 = UT-C 4 = A.1 5 = A.3 (A.T. B.I.H.) 6 = A-S (Smithsonian)
*12-16		Station ID
*17-32		GMT of Observation
	*17-18	Year YY
	*19-21	Day of Year DDD
	*22-26	Time of Day (seconds from midnight GMT)
	*27-32	Fractional Part of Seconds (in microseconds)
*33-34		Refraction Indicators
	33	0 = Data has been corrected for ionospheric effects. 1 = Data not corrected for ionospheric effects.
	34	0 = Data has been corrected for tropospheric effects. 1 = Data not corrected for tropospheric effects.
35		Not used.
36-54		Observation Data
	*36-38	Azimuth or X angle (degrees). Sign of X angle appears in Col. 36.

Figure 4.7.15

Columns	Subset	Description
	*39-40	Azimuth or X angle (arc minutes)
	*41-45	Azimuth or X angle XX.XXXX Arc Seconds
	46	Sign of Y angle
	47-48	Elevation or Y angle (degrees)
	49-50	Elevation or Y angle (minutes)
	51-54	Elevation or Y angle XX.XX Arc Seconds
55-57		Not Used.
58-61		Standard deviation in X angle or azimuth XX.XX Arc Minutes
62-65		Standard deviation in elevation or Y angle XX.XX Arc Minutes
66		Preprocessing Report 0 = Report not indicated 1-9, A-Z Values to be assigned
67-71		Tropospheric refraction correction to X angle XXX.XX Arc Minutes
72-76		Tropospheric refraction correction to Y angle or elevation XXX.XX Arc Minutes
77-80		Not used.

Figure 4.7.15

TABLE I

JULIAN DAY NUMBER

DAYS ELAPSED AT GREENWICH NOON, A. D. 1950–2000

Year	Jan. 0	Feb. 0	Mar. 0	Apr. 0	May 0	June 0	July 0	Aug. 0	Sept. 0	Oct. 0	Nov. 0	Dec. 0
1950	243 3282	3313	3341	3372	3402	3433	3463	3494	3525	3555	3586	3616
1951	3647	3678	3706	3737	3767	3798	3828	3859	3890	3920	3951	3981
1952	4012	4043	4072	4103	4133	4164	4194	4225	4256	4286	4317	4347
1953	4378	4409	4437	4468	4498	4529	4559	4590	4621	4651	4682	4712
1954	4743	4774	4802	4833	4863	4894	4924	4955	4986	5016	5047	5077
1955	243 5108	5139	5167	5198	5228	5259	5289	5320	5351	5381	5412	5442
1956	5473	5504	5533	5564	5594	5625	5655	5686	5717	5747	5778	5808
1957	5839	5870	5898	5929	5959	5990	6020	6051	6082	6112	6143	6173
1958	6204	6235	6263	6294	6324	6355	6385	6416	6447	6477	6508	6538
1959	3 6569	6600	6628	6659	6689	6720	6750	6781	6812	6842	6873	6903
1960	243 6934	6965	6994	7025	7055	7086	7116	7147	7178	7208	7239	7269
1961	7300	7331	7359	7390	7420	7451	7481	7512	7543	7573	7604	7634
1962	7665	7696	7724	7755	7785	7816	7846	7877	7908	7938	7969	7999
1963	8030	8061	8089	8120	8150	8181	8211	8242	8273	8303	8334	8364
1964	8395	8426	8455	8486	8516	8547	8577	8608	8639	8669	8700	8730
1965	243 8761	8792	8820	8851	8881	8912	8942	8973	9004	9034	9065	9095
1966	9126	9157	9185	9216	9246	9277	9307	9338	9369	9399	9430	9460
1967	9491	9522	9550	9581	9611	9642	9672	9703	9734	9764	9795	9825
1968	9856	9887	9916	9947	9977	*0008	*0038	*0069	*0100	*0130	*0161	*0191
1969	244 0222	0253	0281	0312	0342	0373	0403	0434	0465	0495	0526	0556
1970	244 0587	0618	0646	0677	0707	0738	0768	0799	0830	0860	0891	0921
1971	0952	0983	1011	1042	1072	1103	1133	1164	1195	1225	1256	1286
1972	1317	1348	1377	1408	1438	1469	1499	1530	1561	1591	1622	1652
1973	1683	1714	1742	1773	1803	1834	1864	1895	1926	1956	1987	2017
1974	2048	2079	2107	2138	2168	2199	2229	2260	2291	2321	2352	2382
1975	244 2413	2444	2472	2503	2533	2564	2594	2625	2656	2686	2717	2747
1976	2778	2809	2838	2869	2899	2930	2960	2991	3022	3052	3083	3113
1977	3144	3175	3203	3234	3264	3295	3325	3356	3387	3417	3448	3478
1978	3509	3540	3568	3599	3629	3660	3690	3721	3752	3782	3813	3843
1979	3874	3905	3933	3964	3994	4025	4055	4086	4117	4147	4178	4208
1980	244 4239	4270	4299	4330	4360	4391	4421	4452	4483	4513	4544	4574
1981	4605	4636	4664	4695	4725	4756	4786	4817	4848	4878	4909	4939
1982	4970	5001	5029	5060	5090	5121	5151	5182	5213	5243	5274	5304
1983	5335	5366	5394	5425	5455	5486	5516	5547	5578	5608	5639	5669
1984	5700	5731	5760	5791	5821	5852	5882	5913	5944	5974	6005	6035
1985	244 6066	6097	6125	6156	6186	6217	6247	6278	6309	6339	6370	6400
1986	6431	6462	6490	6521	6551	6582	6612	6643	6674	6704	6735	6765
1987	6796	6827	6855	6886	6916	6947	6977	7008	7039	7069	7100	7130
1988	7161	7192	7221	7252	7282	7313	7343	7374	7405	7435	7466	7496
1989	7527	7558	7586	7617	7647	7678	7708	7739	7770	7800	7831	7861
1990	244 7892	7923	7951	7982	8012	8043	8073	8104	8135	8165	8196	8226
1991	8257	8288	8316	8347	8377	8408	8438	8469	8500	8530	8561	8591
1992	8622	8653	8682	8713	8743	8774	8804	8835	8866	[illegible]	[illegible]	8957
1993	8988	9019	9047	9078	9108	9139	9169	9200	9231	[illegible]	[illegible]	9322
1994	9353	9384	9412	9443	9473	9504	9534	9565	9596	9626	[illegible]	9687
1995	244 9718	9749	9777	9808	9838	9869	9899	9930	9961	9991	*0022	*0052
1996	245 0083	0114	0143	0174	0204	0235	0265	0296	0327	0357	0388	0418
1997	0449	0480	0508	0539	0569	0600	0630	0661	0692	0722	0753	0783
1998	0814	0845	0873	0904	0934	0965	0995	1026	1057	1087	1118	1148
1999	1179	1210	1238	1269	1299	1330	1360	1391	1422	1452	1483	1513
2000	245 1544	1575	1604	1635	1665	1696	1726	1757	1788	1818	1849	1879

DUMP OF TAPE ~~X-429~~ D-32698

6/18/78 - 6/30/78 -

SPACE-A

INPUT TAPE X-429 ON MS4
DATA INPUT H9 FL 1 1 1

FILE	RECORD		LENGTH							
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(80)	00004040	00220003	00000047	11CD5000	0000AA9D	405FB425	ED097842	C3401124	CF85EF13	00000047
(120)	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003
(160)	00000047	11CD5000	0000AA9D	405FBBBB	BBBBBBBB	C3401105	3F0C5689	00000047	00000000	00000000
(200)	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000
(240)	0000AA9D	405FC351	8A6DFC35	C3401120	9F9F9988	00000047	00000000	00000000	00989680	00FFFFFF
(280)	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000	0000AA9D	405FCAE7
(320)	592D3CAE	C3401130A	384F87AE	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000
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(400)	C0997BBF	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000
(440)	00004040	00220003	00000047	11CD5000	0000AA9D	405FDA12	F6846DA1	C3401084	14AF176F	00000047
(480)	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003
(520)	00000047	11CD5000	0000AA9D	405FE1A8	C536FE1A	C3401FFF	E596EFC3	00000047	00000000	00000000
(560)	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000
(600)	0000AA9D	405FE93E	93E93E93	C3401048	E82C58AF	00000047	00000000	00000000	00989680	00FFFFFF
(640)	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000	0000AA9D	405FF0D4
(680)	62987F0D	C3400F9A	940A2A4D	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000
(720)	00000000	00480000	00004040	00220003	00000047	11CD5000	0000AA9D	405FF86A	314DBF86	C3401050
(760)	05074F8D	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000
(800)	00004040	00220003	00000047	11CD5000	0000AA9D	406000000	00000000	C3401015	D45EDF74	00000047
(840)	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003
(880)	00000047	11CD5000	0000AA9D	406000795	CEB24079	C3401109D	365D3D25	00000047	00000000	00000000
(920)	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000
(960)	0000AA9D	40600F2B	9D648CF2	C3401075	CF9C6CEE	00000047	00000000	00000000	00989680	00FFFFFF
(1000)	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000	0000AA9D	406016C1
(1040)	6C16C16C	C3401FE6	ABC19575	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000
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(1120)	885FAA1C	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000
(1160)	00004040	00220003	00000047	11CD5000	0000AA9D	406025ED	097B425E	C3400DE5	C009A6B3	00000047
(1200)	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00480000	00004040	00220003	
(1240)	00000047	11CD5000	0000AA9D	40602D82	D82D82D8	C3400E50	2546F662	00000047	00000000	00000000
(1280)	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000
(1320)	0000AA9D	406033516	A6DFC351	C3400A74	AF987E53	00000047	00000000	00000000	00989680	00FFFFFF
(1360)	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000	0000AA9D	406003CAE
(1400)	759203CA	C3400096E	E2638CAE	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000
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(1520)	00004040	00220003	00000047	11CD5000	0000AA9D	406084BDA	12F6848D	C3400B3C	87CBC49B	00000047
(1560)	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003
(1600)	00000047	11CD5000	0000AA9D	406536F	E1A8C536	C3400FE9	E9A3B6AA	00000047	00000000	00000000
(1640)	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000
(1680)	0000AA9D	40605B05	B05B05B0	C3400666B	F924CC36	00000047	00000000	00000000	00989680	00FFFFFF
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(1800)	00000000	00480000	00004040	00220003	00000047	11CD5000	0000AA9D	406606A31	4DBF86A3	C3400555
(1840)	2E7C61F3	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000
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(1920)	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00480000	00004040	00220003	
(1960)	00000047	11CD5000	0000AA9D	406079 5C	EB240795	C3400286	506AA49B	00000047	00000000	00000000
(2000)	00989680	00FFFFFF	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000
(2040)	0000AA9D	406087F2	B9D648CF	C3400259	3B2379E3	00000047	00000000	00000000	00989680	00FFFFFF
(2080)	00000000	00000000	00000000	00480000	00004040	00220003	00000047	11CD5000	0000AA9D	406088
(2120)	8B8BB889	C3400036	1EA6A22B	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000
(2160)	00000000	00480000	00004040	00220003	00000047	11CD5000	0000AA9D	40609D1E	573AC901	C3400099
(2200)	7172E326	00000047	00000000	00000000	00989680	00FFFFFF	00000000	00000000	00000000	00480000
(2240)	00771DC1	00220003	00000025	11CD5000	0000AA9D	40D7DA12	F684BDA1	4F[illegible]	[illegible]	[illegible]

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(  5040)  00000000  00480000  00771DC1  00220003  00000025  11CD5000  0000AA9D  40D98A6D  FC3518A6  3D9ED958
(  5080)  1A3264B5  00000025  00000000  00000000  00989680  00FFFFFF  00000000  00000000  00000000  00480000
(  5120)  00771DC1  00220003  00000025  11CD5000  0000AA9D  40D992C3  CAE75923  3D52742D  FA64FE8F  00000025
(  5160)  00000000  00000000  00989680  00FFFFFF  00000000  00000000  00480000  00771DC1  00220003  00000025
(  5200)  00000025  11CD5000  0000AA9D  40D99999  99999999  BDC0646B  3CCD4B96  00000025  00000000  00000000
(  5240)  00989680  00FFFFFF  00000000  00000000  00000000  00480000  00771DC1  00220003  00000025  11CD5000
(  5280)  0000AA9D  40D9A12F  684BDA12  3D7BAE44  F34C1B70  00000025  00000000  00000000  00989680  00FFFFFF
(  5320)  00000000  00000000  00000000  00480000  00771DC1  00220003  00000025  11CD5000  0000AA9D  40D9A8C5
(  5360)  36FE1A8C  3CDBEC7A  C986C05B  00000025  00000000  00000000  00989680  00FFFFFF  00000000  00000000
(  5400)  00000000  00480000  00771DC1  00220003  00000025  11CD5000  0000AA9D  40D9B7F0  D4629B7F  BD180C8D
(  5440)  6573F840  00000025  00000000  00000000  01312D00  00FFFFFF  00000000  00000000  00000000  00480000
(  5480)  00771DC1  00220003  00000025  11CD5000  0000AA9D  40D9BF86  A314DBF6  3D7BAE44  F34C1B70  00000025
(  5520)  00000000  00000000  00989680  00FFFFFF  00000000  00000000  00000000  00480000  00771DC1  00220003
(  5560)  00000025  11CD5000  0000AA9D  40D9C71C  71C71C71  BD972A54  43E62EBC  00000025  00000000  00000000
(  5600)  00989680  00FFFFFF  00000000  00000000  00000000  00480000  00771DC1  00220003  00000025  11CD5000
(  5640)  0000AA9D  40D9CEB2  40795CEB  3D44B626  4DCC9289  00000025  00000000  00000000  00989680  00FFFFFF
(  5680)  00000000  00000000  00000000  00480000  00771DC1  00220003  00000025  11CD5000  0000AA9D  40D9D648
(  5720)  0F2B9D64  3C6DFC3D  64C3602D  00000025  00000000  00000000  00989680  00FFFFFF  00000000  00000000
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(  5800)  778C5C84  00000025  00000000  00000000  00989680  00FFFFFF  00000000  00000000  00000000  00480000
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(  5920)  00000025  11CD5000  0000AA9D  40D9F49F  49F49F49  BD293A16  F8E71CE2  00000025  00000000  00000000
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(  6120)  00000000  00480000  00771DC1  00220003  00000025  11CD5000  0000AA9D  40DA0B6C  B6DB6DB6  BD36F81E
(  6160)  A1342683  00000025  00000000  00000000  00989680  00FFFFFF  00000000  00000000  00000000  00480000
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(  6280)  00000025  11CD5000  0000AA9D  40DA1A8C  536FE1A8  3D9E0958  1A3264B5  00000025  00000000  00000000
(  6320)  00989680  00FFFFFF  00000000  00000000  00000000  00480000  00771DC1  00220003  00000025  11CD5000
(  6360)  0000AA9D  40DA2222  22222222  BD9C4B50  6D99F8AF  00000025  00000000  00989680  00FFFFFF
(  6400)  00000000  00000000  00000000  00480000  00771DC1  00220003  00000025  11CD5000  0000AA9D  40DA29B7
(  6440)  F0D4629B  BD52742D  F6199C27  00000025  00000000  00000000  00989680  00FFFFFF  00000000  00000000
(  6480)  00000000  00480000  00771DC1  00220003  00000025  11CD5000  0000AA9D  40DA314D  BF86A314  3D896C4C
(  6520)  9B992512  00000025  00000000  00000000  00989680  00FFFFFF  00000000  00000000  00000000  00480000
(  6560)  00771DC1  00220003  00000025  11CD5000  0000AA9D  40DA38E3  8E38E38E  BD6DF03D  46B3AF6A  00000025
(  6600)  00000000  00000000  00989680  00FFFFFF  00000000  00000000  00000000  00480000  00771DC1  00220003
(  6640)  00000025  11CD5000  0000AA9D  40DA4079  5CEB2407  BD44B626  4DCC9289  00000025  00000000  00000000
(  6680)  00989680  00FFFFFF  00000000  00000000  00000000  00480000  00771DC1  00220003  00000025  11CD5000
(  6720)  0000AA9D  40DA48DF  2B9D6480  3D671139  74B2DBCD  00000025  00000000  00000000  00989680  00FFFFFF
(  6760)  00000000  00000000  00000000  00480000  00771DC1  00220003  00000025  11CD5000  0000AA9D  40DA4FA4
(  6800)  FA4FA4FA  BD4B952A  1FCD6626  00000025  00000000  00000000  00989680  00FFFFFF  00000000  00000000
(  6840)  00000000  00480000  00771DC1  00220003  00000017  11CD5000  0000AAA6  4019A12F  684EDA12  4E000091
(  6880)  C77E2CA6  00000017  00000000  00000000  00000000  00FFFFFF  00000000  00000000  00480000  00771DC1
(  6920)  00771DC1  00220003  00000017  11CD5000  0000AAA6  4019A8C5  36FE1A8C  C3A819AC  72DCAA18  00000017
(  6960)  00000000  00000000  00989680  00FFFFFF  00000000  00000000  00480000  00771DC1  00220003  00000017
(  7000)  00000017  11CD5000  0000AAA6  4019B05B  05B05B05  C3A51950  28D12FCB  00000017  00000000  00000000
(  7040)  00989680  00FFFFFF  00000000  00000000  00000000  00480000  00771DC1  00220003  00000017  11CD5000
(  7080)  0000AAA6  4019B7F0  D4629B7F  C3A1DC5B  2C760120  00000017  00000000  00000000  00989680  00FFFFFF
(  7120)  00000000  00000000  00000000  00480000  00771DC1  00220003  00000017  11CD5000  0000AAA6  4019BF86
(  7160)  A314DBF8  C39E5F3D  19E77F93  00000017  00000000  00000000  00989680  00FFFFFF  00000000  00000000
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FILE 1 RECORD 58 LENGTH 3316BYTES

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(    80)  00771DC1  00220003  00000047  11ED5000  0000AAA9  40F72B9D  6480F2B9  C1FDF5A9  3E7E9174  00000047
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SEASAT-A S-BAND

D. 32922 10/1/78-10/10/78

DUMP OF TAPE X-429

INPUT TAPE X-429 ON MS1
DATA INPUT H9 FL 1 2 2

FILE 1 RECORD 1 LENGTH 7204BYTES

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(80)	00004040	00220003	00000018	11ED5000	0000AB06	3F2C9C1E	573AC901	C4170E80	156F7A5D	00000018
(120)	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003
(160)	00000018	11ED5000	0000AB06	3F2D097B	425ED097	C416E64B	604F5566	00000018	00000000	00000000
(200)	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000
(240)	0000AB06	3F2D82D8	2D82D82D	C4168B00	97F2C10F	00000018	00000000	00989680	4F12F3E6	
(280)	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F2DFC35
(320)	18A6DFC3	C4168C5F	B5378BF7	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C
(360)	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F2E7592	03CAE759	C4165A2B
(400)	7C030350	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000
(440)	00004040	00220003	00000018	11ED5000	0000AB06	3F2EEEEE	EEEEEEEE	C4162426	65EF1AE2	00000018
(480)	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003
(520)	00000018	11ED5000	0000AB06	3F2F684B	DA12F684	C415EA07	461357D5	00000018	00000000	00000000
(560)	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000
(600)	0000AB06	3F2FE1A8	C536FE1A	C415AB82	18E76A44	00000018	00000000	00000000	00989680	4F12F3E6
(640)	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F305B05
(680)	B05B05B0	C4156848	CDAC4D82	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C
(720)	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F30D462	9B7F0D46	C4152304
(760)	FD48F706	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000
(800)	00004040	00220003	00000018	11ED5000	0000AB06	3F314DBF	86A314DB	C414D25A	AFBCA1FD	00000018
(840)	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003
(880)	00000018	11ED5000	0000AB06	3F31C71C	71C71C71	C4147EF8	ECD80FED	00000018	00000000	00989680
(920)	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000
(960)	0000AB06	3F324079	5CEB2407	C4142549	4D716AF1	00000018	00000000	00000000	00989680	4F12F3E6
(1000)	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F32B9D6
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(1080)	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F333333	33333333	C4135DC8
(1120)	2D228E59	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000
(1160)	00004040	00220003	00000018	11ED5000	0000AB06	3F33AC90	1E573AC9	C412EEFE	5225DE5E	00000018
(1200)	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003
(1240)	00000018	11ED5000	0000AB06	3F3425ED	097B425E	C4127837	FD4ED0A3	00000018	00000000	00000000
(1280)	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000
(1320)	0000AB06	3F349F49	F49F49F4	C411F8F8	4C50BE3D	00000018	00000000	00000000	00989680	4F12F3E6
(1360)	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F3518A6
(1400)	DFC3518A	C4117CBF	EEB80E37	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C
(1440)	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F359203	CAE75920	C41CDF10
(1480)	5EC4188E	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000
(1520)	00004040	00220003	00000018	11ED5000	0000AB06	3F360B60	B60B60B6	C410436F	5F15087C	00000018
(1560)	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003
(1600)	00000018	11ED5000	0000AB06	3F3684BD	A12F684B	C3F9D687	5DF7FCAB	00000018	00000000	00000000
(1640)	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000
(1680)	0000AB06	3F36FE1A	8C536FE1	C3EEC910	1C4CD464	00000018	00000000	00000000	00989680	4F12F3E6
(1720)	00000000	4127020C	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F377777
(1760)	77777777	C3E308A1	3814D96	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C
(1800)	4127020C	00480000	00004040	00220003	00000018	11ED5000	0000AB06	3F37F3D4	629B7F0D	C3D69097
(1840)	9111A24D	00000018	00000000	00000000	00989680	4F12F3E6	00000000	4127020C	4127020C	00480000
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