672

IMP H & J

HOUR AVERAGED PROTON FLUX 72-073A-08M/73-078A-08G

DAILY AVERAGED FLUXES 72-073A-080/73-078A-081

				The state of the s
672	72-073/	M80-4	SPMS-0	0489
672	72-073	Q80-P	SPHE-0	0506
672	73-078	A-08G	SPHE-0	0590
672	73-078	A-08I	SPHE-0	0506

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1. INTRODUCTION:

The documentation for this data set was originally on paper, kept in NSSDC's Data Set Catalogs (DSCs). The paper documentation in the Data Set Catalogs have been made into digital images, and then collected into a single PDF file for each Data Set Catalog. The inventory information in these DSCs is current as of July 1, 2004. This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system. The information existing in the DSCs is now not needed for locating the data files, but we did not remove that inventory information.

The offline tape datasets have now been migrated from the original magnetic tape to Archival Information Packages (AIP's).

A prior restoration may have been done on data sets, if a requestor of this data set has questions; they should send an inquiry to the request office to see if additional information exists.

2. ERRATA/CHANGE LOG:

NOTE: Changes are made in a text box, and will show up that way when displayed on screen with a PDF reader.

When printing, special settings may be required to make the text box appear on the printed output.

Version	Date	Person	Page	Description of Change
01				
02				

3 LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:

http://nssdc.gsfc.nasa.gov/nmc/

[NOTE: This link will take you to the main page of the NSSDC Master Catalog. There you will be able to perform searches to find additional information]

4. CATALOG MATERIALS:

a. Associated Documents

To find associated documents you will need to know the document ID number and then click here.

http://nssdcftp.gsfc.nasa.gov/miscellaneous/documents/

b. Core Catalog Materials

IMP H & J

HOUR AVERAGED PROTON FLUX

72-073A-08M / 73-078A-08G

SPMS-00489 SPHE-00590

THIS DATA SET CONSISTS OF THREE TAPES. IMP-H (72-073A-08M) DATA COVER YEARS 1972 AND 1973 OF THE FIRST TAPE TAPE ONLY. THE REST IS IMP-J (73-078A-08G). THE FIRST TWO TAPES ARE SINGLE FILED AND CONTAIN VAX BINARY DATA. THE THIRD TAPE CONTAINS THREE FILES (ONE FOR EACH YEAR OF DATA). THE THIRD TAPE CONTAINS THREE FILES (ONE FOR EACH YEAR OF DATA) AND IS IN ASCII FORMAT IN PAGES (WITH HEADERS FOR EACH PAGE). SAMPLE PAGES FROM EACH FILE ARE IN THE PRINTOUT SECTION. THE BINARY DATA TAPES ARE UNBLOCKED (60 BYTE RECORDS). THE D AND C NUMBERS AND TIME SPANS FOLLOW:

DD079140	DC027091	1			12/31/73 12/31/82	
DD079141	DC027092	1	01/01/83		10/28/88	(IMP-J)
DD086223	DC029247	3	10/25/88	_	12/30/90	(IMP-J)
DD108810	DC032877	2	01/01/95	_	10/17/96	(IMP-J)



PHYSICS & ASTRONOMY 913-864-4626 Telex: 535004 DEPT PHYS ASTR

January 13, 1989

MEMO

TO:

Joe King

IMP-8 Project Scientist

NSSDC

FROM: Thomas P. Armstrong

SUBJECT:

New Release of IMP 7 and 8 Solar Particle Data Set

This memo covers the shipment to you for immediate release to NSSDC of daily averaged plots of integral proton fluxes >1, 2, 4, 10, 30, and 60 MeV derived from the IMP 7 and 8 CPME instrument for the interval 1972 day 275 to 1988 day 300. I am also shipping you a magnetic tape data set of hourly averages of these same thresholds. We have taken great care to eliminate magnetospheric contributions to the lower thresholds of the daily averages and to flag the affected hourly averages on the tape. Note that this data set extends to lower thresholds, namely >1, 2, 4 MeV, the widely used solar proton data set. Note also the length of the data set and the fact that there are only a few missing days in the 16 year span. I expect that this data set will be widely used for studies of solar cycle time-scale statistical properties of solar particles.

I believe that this data set testifies eloquently to the past success of the IMP 7 and 8 project and to the continuing value and importance of IMP 8 tracking and data reduction.

TPA/thw

Enclosure

cc: S.M. Krimigis R. McGuire

File

From: NCF::KING 20-MAR-1995 07:20:47.09

To: EMILY, POST

CC: KING

Subj: 1993-4 Armstrong fluxes

Ralph, the data referenced below should be a straight extension of 73-078A-08G. I assume you will capture it and add it to -08G. I also note that the AIM SATX says that data set runs only to end of 1990. It is clear OMNI has these data to end of 1992. Either AIM is out of date, or somehow -08G did not get extended when we last extended OMNI with these data. I assume you'll resolve/fix this also. (If you have to add the 1991-2 data to -08G, you'll have to take them from OMNI.)

Emily, for purposes of adding the 1993-4 data to OMNI, you mught want to coordinate with Ralph Post as to whether it would be better for you to get the data from him, or to do a separate independent download of the data from Kansas.

Joe King

From: KUPHSX::IMP 17-MAR-1995 16:56:20.89

To: NCF::KING

CC:

Subj: 1993 & 1994 hourly averages fluxes with old softwave

Dear Dr. King,

Those 1993 & 1994 hourly averages integer proton fluxes are now available in www at the following location:

http://kuspal.phsx.ukans.edu:8000/kuspal\$dkal00/imp/www/index.html

from Pua

Description of Hourly Average Flux File

Each record of the Hourly Average Flux file is 60-bytes long, and it has year, day, hour, 6 channels of flux (1 Mev, 2 Mev, 4 Mev, 10 Mev, 30 Mev, and 60 Mev), and 6 channels of flags. The times are stored in I*4; the fluxes are stored in R*4, and the flags are stored in I*4. Each flag corresponds to each channel. The flag value is always 1, except when the flux is dominated by magnetospheric event, the flag value is 0. The hourly average fluxes for 1972 and 1973 are computed from IMP 7 and the rest are from IMP 8.

MSB0:01 has the hourly average flux from time 1972 270 16 to 1982 365 22 and MSB0:02 has the hourly average flux from time 1983 1 2 to 1988 302 14.

Time		
Year	I*4	1
Day	I*4	2
Hour	I*4	3
Flux		
>1Mev	R*4	4
>2Mev	R*4	5
>4Mev	R*4	6
>10Mev	R*4	7
>30Mev	R*4	8
>60Mev	R*4	9
Flag		
>1Mev	I*4	10
>2Mev	I*4	11
>4Mev	I*4	12
>10Mev	I*4	13
>30Mev	I*4	14
>60Mev	I*4	15

TI	ME		FLUX								F	LAG	;	
YEAR	DAY	HH	>1 Mev	>2 Mev	>4 Mev	>10 Mev	>30 Mev	>60 Mev	F1	F2	-	F 4		F6
1972	270	17	0.409	0.361	0.353	0.348	0.345	0.345	1	1	1	1	1	1
1972	270	18	0.438	0.373	0.360	0.355	0.350	0.348	1	1	1	1	1	1
1972	270	19	0.423	0.362	0.347	0.341	0.337	0.335	1	1	1	1	1	1
1972	270	20	0.387	0.337	0.328	0.325	0.320	0.317	1	1	1	1	1	1
1972	270	21	0.387	0.323	0.316	0.313	0.306	0.304	1	1	1	1	1	1
1972	270	22	0.484	0.412	0.401	0.396	0.391	0.390	1	1	1	1	1	ī
1972	270	23	0.405	0.340	0.328	0.323	0.318	0.315	1	1	1	1	ī	ī
1972	271	0	0.408	0.345	0.335	0.331	0.327	0.325	1	ī	1	1	1	1
1972	271	1	0.388	0.317	0.305	0.301	0.299	0.295	1	ī	1	1	1	ī
1972	271	2	0.427	0.352	0.341	0.336	0.333	0.333	1	ī	1	î	ī	1
1972	271	3	0.407	0.343	0.333	0.328	0.324	0.323	1	1	1	ī	î	1
1972	271	4	0.380	0.320	0.311	0.306	0.300	0.295	1	1	1	1	ī	î
1972	271	5	0.409	0.355	0.346	0.342	0.339	0.334	ī	ī	ī	1	1	1
1972	271	6	0.433	0.366	0.355	0.349	0.345	0.343	ī	1	1	1	•	î
1972	271	7	0.420	0.345	0.336	0.332	0.330	0.328	ī	1	1	1	1	1
1972	271	8	0.428	0.340	0.330	0.326	0.322	0.321	1	1	ī	-	1	1
1972	271	9	0.424	0.335	0.326	0.322	0.318	0.315	1	1	î	î	1	1
1972	271	10	0.419	0.332	0.319	0.314	0.308	0.308	ī	1	1	1	1	1
1972	271	11	0.458	0.363	0.354	0.350	0.346	0.346	ī	1	•	1	1	1
1972	271	12	0.434	0.331	0.320	0.316	0.313	0.313	•	1	1	1	•	•
1972	271		0.457	0.343	0.333	0.328	0.325	0.323	•	1	•	-	•	1
1972	271	14	0.421	0.316	0.302	0.297	0.292	0.287	•	1	1	•	•	•
1972	271	15	0.477	0.380	0.372	0.369	0.363	0.363	1	1	1	1	1	1
1972			0.406	0.314	0.307	0.303	0.301	0.303	1	1	1	1	1	1
						0.505	0.301	0.301	1	1	1	1	1	1

Block number 1 (00000001), 60 (003C) bytes

F3733FBD C6A43FC1 81C03FC4 ACBE3FC9 4B243FE0 00000010 0000010E 000007B4 \\ \cdots \cdots \cdots \cdots \cdots \cdot \cdo

Block number 2 (00000002), 60 (003C) bytes

E1713FB0 6AE33FB2 924A3FB4 F2003FB8 67B83FD1 00000011 0000010E 000007B4 \cdot \tau \dots \dots \tau \tau \dots \tau \tau \tau \dots \dots \tau \dots \tau \dots \d

Block number 3 (00000003), 60 (003C) bytes

Block number 4 (00000004), 60 (003C) bytes

5DDD3FAC B2093FAE CAC23FB1 33083FB9 BF143FD8 00000013 0000010E 000007B4 \\frac{1}{2} \cdot \cdot

Block number 5 (00000005), 60 (003C) bytes

Block number 6 (00000006), 60 (003C) bytes

Block number 7 (00000007), 60 (003C) bytes

Block number 8 (00000008), 60 (003C) bytes

Block number 9 (00000009), 60 (003C) bytes

Block number 10 (0000000A), 60 (003C) bytes

FILE 1 RELUND 078F=1983 0001 = 00 BYTES

(0) (DF070000 10100000 02000000 0843EE72 96429808 84415EF0 58400808 8E3F2138 6A3F40D8 01000000 01000000 01000000 1/1/83 - 10/28/88

1 2		ingueste control control control (
3	NO1.004 10 and	:
5	\$\$ \$EXE TPLIST BS 12/31/88 - 12/30/90	**************************************
6.77	INPUT PARAMETERS ARF: AS FL=1=1 3 1 1	9
8		. 8
10	TAFE NC. 1 FILE NO. 1 RECORD 1 LENSTH 1:9 1 1988 HOURLY AVG	
12.		11
13 14		:3
15 16	PECCRC 1 55 LENGTH 89 1988 355 23 : 40.5 7.78 1.49 3.591 .371 1.335	15 18
17	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	00000000000000000000000000000000000000
18 19	KLUVX . Let $LENS$ be a larger of the second of t	18 19
20 21 22		20 21
22 23		22 22 23
24 25	RECORD 5738 LENGTH 84	24
26		26 26
27 28		27 28
29	1 1990 HOURLY AVS	29 30
30 31		31
33 34	TAPE NO. 1 FILE NO. 3 PECCRD 6361 LENGTH 84	32 33
35	and the contract of the contra	34 ************************************
36 37	**** JOB GONE. Sexe tplist as	36 37
38		38
39 40 41		39 40
42_	RECORD 1 LENGTH 109	41 42
43	* * * * * * * * * * * * * * * * * * *	43 44
45 46		45 46
47 ⁻		47 48
48 49 50		49
51 52	SWEO LES	50 51
53		52 crerorecenscoccccc 53
54 55		54 55
56_ 		58
59		57 58
60		59 60
*** 61 62_		61 62

	1988 HOUI	RLY AVG				
Alla.	YR=1988 DAY=299 11 Ø Ø	IMPS				
				>10 NEV		
	1988 299 11 0 0 0.469 1988 299 21 0 0 0.435	0.282	0.275	0.275	Ø. 275	0.275
	1968 299 22 0 0 0.483	0.280 0.293	0.254 0.282	0.250	0.259	0.257
*40000	1988 299 23 0 0 0.547	0. 329	Ø.312	0.279 0.307	0.275 0.301	0.271 0.298
	1988 300 0 0 0 0.534	0.295	0.278	0.274	Ø.271	0.250 0.268
	1988 300 0 59 59 0.543	0.333	0.319	0.315	0.307	0.303
	1988 300 2 0 0 0.547	0.329	0.312	0.308	0.304	0.302
1	1988 3 00 3 0 0 0.49 5	0.298	0.284	0.279	Ø.276	0.275
	1988 300 3 59 59 0.454	0.295	0.283	0.279	0.275	0.272
1	1988 300 5 0 0 0.411	0.287	0.276	9.272	0.270	Ø.269
	1988 3 00 6 0 0 0.39 5	0.282	0.275	0.272	Ø.269	0.266
	1988 3 00 7 0 0 0.39 2	0.283	0.275	0.272	0.269	0.256
	1988 3 00 8 0 0 0.39 7	0.297	0.290	Ø.287	Ø.285	9.284
180	1988 300 9 0 0 0.404	0.305	0.298	Ø.295	0.291	0.289
	1988 300 10 0 0 0.390	Ø.303	0.296	0.294	Ø.289	0.286
	1988 300 11 0 0 0.389	0.298	0.292	0.290	0.285	0.285
	1988 300 12 0 0 0.399	Ø.293	0.285	0.282	0.278	9.276
	1988 300 13 0 0 0.348 1988 300 14 0 0 0.347	9.277	0.259	0.267	0.264	0.262
	1988 300 14 0 0 0.347 1988 300 23 0 0 0.337	0.285	0.277	0,274	0.271	0.263
	1988 301 0 0 0 0.348	0.295 0.305	0.293 0.302	0.292	Ø.291	Ø.288
*489	1988 301 0 59 59 0.302	0.263	0. 260	0.300 0.258	0.298 0.255	0.294 0.253
	1988 301 2 0 0 0.312	Ø.254	0. 250	0.258	0.255 0.256	0.253 0.254
	1988 3 01 3 0 0 0.36 0	0.316	0.311	0.310	Ø.307	0.304
2000	1988 301 3 59 59 0.331	0. 283	0.278	0.275	0.273	Ø. 271
	1988 3 01 5 0 0 0.324	0.280	0.277	0.275	0.271	0.257
	1988 3 01 6 0 0 0.28 2	0.250	0.246	0.245	0.241	0.240
	1988 3 0 1 7 0 0 0.34 9	0.307	0.302	0.301	0.294	0.291
	1988 301 8 0 0 0.33 6	0.304	0.301	0.300	Ø.296	0.294
	1988 301 9 0 0 0.315	0.282	0.279	0.278	0.274	0.273
	1988 301 10 0 0 0.295	0. 263	0.251	0.260	0.257	0.256
1110	1988 301 11 0 0 0,321	0. 285	0. 282	0.281	9.277	0.275
	1988 301 12 0 0 0.323	0.287			0.279	0.276
1	1988 301 13 0 0 0.324	0.293	0.290	Ø.289	Ø.285	0.281
	1988 301 14 0 0 0.316 1988 301 15 0 0 0.332	0.284	0.281	0.280	0.277	0.274
	1988 301 15 0 0 0.332 1988 301 16 0 0 0.286	Ø.298	0.295	0.294	9.291	0.289
	1988 301 20 0 0 0.340	0.254 0.315	0.253 0.315	0.252 0.314	0.244	0.238
	1988 301 21 0 0 0.312		0. 287		0.309 0.283	0.303 - 0.280
******	1988 3 01 22 0 0 0.32 7	0.304	0.302	Ø.301	0.297	0.295
	1988 302 3 59 59 0.317	0.293	0.289	0.287	0.282	Ø.28Ø
	1988 302 5 0 0 0.293	0.270	0.267	0.255	0.262	0.260
	1988 3 0 2 6 0 0 0.33 5	0.311	0.305	0.303	Ø.30Ø	0.298
-	1988 3 02 7 0 0 0.328	0.293	9. 283	0.281	Ø.28Ø	0.279
	1988 302 8 0 0.344	0.304	0.293	0.289	9.287	0.286
	1986 3 0 2 9 0 0 0.45 1	0.339	0.302	0.292	Ø.288	0.287
A770.	1988 302 10 0 0 4.77	1.32	0.4 38	0.304	0.279	0.275
	1988 302 11 0 0 5.90	1.55	0.482	0.302	Ø.265	0.265
1	1988 302 12 0 0 15.6	3.46	9.748	0.379	0.308	Ø.305
ella.	1988 302 13 0 0 22.5	4.73	Ø.855	Ø.369	9.277	9.274
	1988 302 15 0 0 30.6	6.19	1.01	0.453	0.371	0.360
	1988 3 02 16 0 0 30.1 1988 3 06 14 0 0 4.8 3	5.94	1.02	0.442	0.343	0.343
	1988 3 0 6 14 0 0 4.83 1988 3 0 6 15 0 0 4.62	0.609	0.307 0.328	Ø. 261	9.254	0.250
	1988 306 16 0 0 4.32	0.524 0.575	0. 316	0.284	Ø.281	0.277 a 250
	1988 306 17 0 0 4.18	0. 563	Ø.315	0.275 0.277	0.271 0.275	0.269 0.273
	1988 306 18 0 0 3.94	0.540	0.292	0.254	Ø.275 Ø.251	0.2/3 0.247
1990	1988 306 19 0 0 3.94	0.544	Ø.318	0.251	9.277	Ø.277
1	1988 306 20 0 0 4.05	0.565	0. 338	0.301	0.295	0.295
	1988 3 05 21 0 0 4.18	Ø.555	0.330	0.292	9.286	0.282
,						

D-86223 File 1 Sample page

	:							
	i i		1989 HOUR	RLY AVG				
	1	389 DAY= 2		IMPS				
W##		DAY HH MM 55	>1 MEV	>2 MEV				>50 MEV
-0000	1989 1989	2 11 0 0	1.10	Ø.476	0.353	0.307	0.255	0.250
	1989		1.09	0.492 0.491	0.380 0.379	0.337 0.330	0.298	Ø.283
~~10000	1989		1.13	0.554		0.368	0.293 0.314	0.285 0.294
	1989		1.06	V.505	0.351	0.292	Ø.249	Ø. 242
	1989		1.24	0.524		0.347	0.307	Ø. 296
6	1989		1.62	0.739		0.313	0.250	0.254
	1989	2 18 0 0	1.91	0.821	0.432	0.329	0.284	0.271
	1989	2 19 0 0	2.43	0.922		0.318	Ø.259	0.259
	1989	2 20 0 0	2.63	0.885	0.408	0.294	0.250	0.238
erka.	1989	2 21 0 0	3.47	1.04	0.457	0.327	0.273	0.255
	1989	3 9 0 0	38.7	8.02	1.41	0.452	0.276	0.258
	1989	3 10 0 0	39.9	8.19	1.34	0.405	0.241	0.231
illa.	1989	3 11 0 0	42.7	8.35	1.36	0.437	0.266	0.256
	1989	3 12 0 0	40.8	8.22	1.34	0.417	0.254	0.245
	1989	3 13 0 0	36.8	7.46	1.27		0.250	0.245
ella.	1989	3 14 0 0	35.5	7.04	1,20	0.394	0.250	0.240
W)	1989	3 15 0 0	41.3	7.92	1.33		0.274	Ø. 266
	1989	3 16 0 0	52.3	9.39	1.49		9.238	0.235
<i>(</i>)	1989 1989	3 17 0 0	52.0	9.87	1.55	0.484	0.276	Ø.266
*****	1989	3 18 0 0 3 19 0 0	41.5 37.5	7.84	1.35		0.237	0.228
	1989	3 20 0 0	37.0	7.21 7.24	1.28		Ø.254	0.240
	1989	3 21 0 0	40.0	7.54	1.30 1.29	0.442 0.419	0.269 0.257	9.255
2000a.	1989	3 22 0 0	43.1	7.99	1.35		Ø.287	0.253 0.278
	1989	3 23 0 0	47.5	8.55	1.49	0.410	0.247	0.240
	1989	4 0 0 0	44.5	7.61	1.26		0.268	Ø. 261
	1989	4 0 59 59	40.5	7.19	1.23	0.421	Ø.265	0.257
	1989	4 2 0 0	37.8	5.57	1.10	0.355	0.223	0.218
	1989	4 3 0 0	32.1	5.59	1.91	0.387	0.250	0.252
	1989	4 3 59 59	28.4	4.94		0.385	0.272	0.265
-50	1989	4 11 0 0	21.3	3.76	0.754	0.353	0.257	0.267
	1989	4 12 0 0	22.3	3.76	0.729	0.325	0.233	0.222
	1989	4 13 0 0		4.44			Ø.297	0.287
elle.	1989	4 14 0 0		3.85				0.251
(()	1989	4 15 0 0		3.02			Ø.257	Ø.256
	1989	4 16 0 0		3.49			0.258	0.253
(11to.	1989	4 17 0 0		2.67			0.251	0.254
W	1989	4 18 0 0	22.5	4.92	9.785	0.349	0.251	
	1989 1989	4 19 Ø Ø 4 20 Ø Ø		0.19	1.31	0.483	0.327	0.317
<i>((</i>)),	1989	4 21 0 0				0.574 1.07		Ø.389
****	1989	4 22 Ø Ø		17 0	2.03 6 6:	1.59	W.44/	Ø.369
	1989	4 23 0 0		100.		4.63		0.389
		5 0 0 0						Ø.569
*****	1989	5 0 59 59	428.	231	69.1	8.06	Ø 9AA	Ø.784
	1989	5 14 0 0		200.	26. A	2.00		0.308
	1989	5 15 0 0		201.	25.4	1.88	0.343	0.317
	1989	5 15 0 0		168.	22.9		0.327	0.306
	1989	5 17 0 0		175.			0.329	Ø.3Ø8
	1989	5 18 0 0	672.	152.			0.354	0.322
	1989	5 19 0 0		168.	23.4	1.67	0.329	0.312
	1989	5 20 0 0		145.		1.62	0.335	0.322
	1989	5 21 0 0			14.1		0.304	0.290
	1989	5 22 0 0		103.			0.281	0.259
lite	1989	5 23 0 0		77.3			0.254	0.250
	1989	6 0 0 0		73.8				0.238
	1989	6 Ø 59 59		65.4				0.274
(II).	1989 1989	6 2 0 0 6 3 0 0		55.1			0.277	0.268
	1202	u a v v	2/1.	54.6	7.50	0.875	0.257	0.247

D-86223 tile 2 Sample Page

U-86223 File 1 Sample Page

IMP-H & J

DAILY AVERAGED FLUXES

72-073A-080/73-078A-08I

SPHE-00506

THIS DATA SET CATALOG CONSISTS OF ONE TAPE. THE TAPE IS 9-TRACK, 6250 BPI, MULTI-FILED, WRITTEN IN ASCII AND CREATED ON THE VAX. FILES 1 THRU 19 CONTAIN IMP-J DATA AND THE FILES 20-26, CONTAIN IMP-H DATA. THE D AND C NUMBERS AND TIME SPANS ARE AS FOLLOWS:

D#	C#	FILES	TIME SPAN	
D079800	C027300	1-19 20-26	10/30/73 - 08/11/91 (IMP-J 09/26/72 - 10/21/78 (IMP-H	

IMP 8 DAILY AVERAGED PROTON FLUXES

	IMP	7	&	II.	1P	8	DA	ILY	AVE	RAGED
(1)			19	73	DA	I	ΔY	PROT	ON	FLUX
(2)		3	19	74	DA	I	LY	PROT	ON	FLUX
(3)		3	19	75	DA	I	LΥ	PROI	ON	FLUX
(4)	1 EC	3	19	76	DA	I	LY	PROI	ON	FLUX
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1 EOF IMP7 1978 DAILY PROTON FLUX 12 EOF

(26)

From:

KUPHSX::ARMSTRONG

5-FEB-1992 10:51:21.42

Tai

alme_a.uis ARMSTRONG

Subj:

Solar Particle Fluxes

Memo to: Dr. Zawodny, Langley Research Center

Charles Jackman, Goddard Space Flight Center

Joan Feynman, Jet Propulsion Lab.
Joe King, Goddard Space Flight Center
Steve Gabriel, Univ. of Southampton, UK

Tom Krimigis. Applied Physics Lab./Johns Hopkins U.

From: Tom Armstrong, University of Kansas

Date: February 4, 1992

Subject: Solar Proton Integral Fluxes

We have recently updated the daily averaged proton fluxes covering the period through day 300, 1991. In order to simplify the servicing of requests for this data set, I am sending each of you a copy of our standard "flat file" in ASCII text of the times and fluxes of >1, >2, >4, >10, >30, and >60 MeV protons. The units are "number/cmsq sec sr". Please acknowledge all use of these data for publication as deriving from the Charged Particle Measurement Experiment (CPME) aboard IMP8 (S.M. Krimigis, PI).

ORTANT NOTES ABOUT THESE DATA

In comparing absolute fluxes derived from the IMP 8 CPME instrument with those derived from GOES 7 for the March 1971 flare event, the \10, \30, and \60 proton flux values from IMP8 appear to be too large by about factors of 2 to 5 during the decay phase of the event. This is almost certainly due to unintended electron sensitivities of some of the IMP 8 higher energy proton channels. Thus, the absolute flux values for times when the relativistic electron flux is of the same order at the \10, \30, and \60 MeV protong fluxes should be treated as uncertain. Thus far, only the March 89 event decay phase has been so identified. There may be others. We are in process of evaluating the entire data set (1972 to present) so that we can introduce any necessary adjustments to the fluxes.

T.P. Armstrong KUPHSX::ARMSTRONG

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