#605

AEROS-B
ELECTRON DENSITY DATA
74-055A-03A

AEROS 2

ELECTRON DENSITY DATA, TAPE

74-055A-03A

This data set has been restored. There were originally 2 9-track, 1600 BPI tapes written in BIN. There is 1 restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tape was created on an UNIVAC 1100 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
DR03646	DS03646	D58820	1	07/23/74 - 12/01/74
		D58821	2	12/01/74 - 09/25/75

REQ. AGENT	RAND NO.	ACQ. AGENT
RSH	V0201	RNH

AEROS-B
74-055A-03A
ELECTRON DENSITY DATA

This data set consists of 2 tapes which are 9-track, 1600 BPI, in Binary created on an UNIVAC 1100 computer system. Each tape has 1 file.

D#	C#	TIME SPAN
58820	23329	07/23/74 - 12/01/74
58821	23330	12/01/74 - 09/25/75

Prof. Dr. Dr. h. c. Karl Rawer

Herrenstr. 43
D-7801 March-Hugstetten
Tel. 07665-1384

11.5.83

Dr. J.I. VETTE, Director
WDC-A Rock. & Sat.
NASA-GSFC, Code 601

GREENBELT / Md.

20771 U.S.A.

Dear Jim.

with this letter you receive two tapes with the electron density data of the AEROS-B mission (16-07-74 ... 25-09-75) as measured by the on-board impedance probe. Wherever this experiment was "on" the sequence of data is much narrower than for the experiment RPA (data of which you have received earlierly as "KUERZ"). Therefore these data should be particularly suited for studying structures in electron density. The format is similar to that of the KUERZ tapes, only with 11 instead of 15 words per line. Coding is the same (binary); the tapes should be readable for you with almost the same program as you have for KUERZ. (I assume that procedure "NTRAN" has resolved the problems your collaborator earlierly had encountered).

This concludes the transfer of AEROS data from the plasma and optical experiments to your WDC.

With my best regards

sincerely yours

Karl

WORD IDENTIFICATION

DECIMAL DIGIT

WORD NUMBER	10	9	8	7	6	5	4	3	2	1
1	MISSION 1 OR 2	MODE	SOLAR ZENITH ANGLE			ORBIT NUMBER				
2	MEAN JULIAN DATE 1 (d)					MEAN JULIAN DATE 2 (10^{-6} d)				
3	CRI-	YEAR		DAY OF YEAR			UT HOUR		MINUTES	
4	Mc ILLWAIN'S L (1 / 100)				GEOM. HOURS	LOCAL TIME MINUTES			SECONDS	
5	MAGN. INDEX KP /3		COVINGTON INDEX			MAGN. INDEX AP		R (ZUERICH)		
6			MAGN. FIELD B (0.01T)			SATELLITE ALTITUDE (10m)				
7	GEODETIC LONGITUDE (10^{-4} RAD)					GEODETIC LATITUDE (10^{-4} RAD)				
8	GEOMAGNETIC LONGITUDE (10^{-4} RAD)					GEOMAGNETIC LATITUDE (10^{-4} RAD)				
9	MAGN. INCLINATION (10^{-4} RAD)					MAGN. DECLINATION (10^{-4} RAD)				
10	MODIFIED DIP (10^{-4} RAD)					INVARIANT LATITUDE (10^{-4} RAD)				
11	LN (PLASMA DENSITY / m^{-3})					LN (PLASMA DENSITY / m^{-3}) -empty-				

BLOCKING: Integer numbers only. Double words of 9 characters per pair, i. e. 4½ per number (36 bit). One block has 2200 words, subdivided into 200 lines of 11 words each. Each line contains all data of one measurement. In decimal writing 10 digits are available per word. Many words are subdivided. In words 7 ...9 the sign is given by the last digit: even forsign +, odd forsign.

DS03646

7/23/74 12/1/74

DUMP OF TAPE CN1112

INPUT TAPE CN1112 ON HT
DATA INPUT OS NF=2 FL=2=1=1

FILE	1 RECORD	1 LENGTH	132 BYTES					
( )	17 2763 1	2 615442371	76527.66	1	16763 56714	1 7512454	01037644276	00045630444
(48)	3 713227 5	2754 2676	763 6 0	17 165 614	20 1 4425 3	1476527.66	0716122361	016763056 714
(96)	1067 12262	1161 126762	1611314	03 2 743571	271 4 3244	2 1347753	1702656140	020615442605
(144)	1476527.66	716122367	763 6 6714	0011 1 15327	0076122 0144	0 11140076	02747615755	002645317410
(192)	2213 472	17 2 5 614	615442717	1476527.66	0716122366	16763056714	0011 0315133	000731502630
(24)	4 46674	2677256637	1 6 1356	221 17487	17 165 6140	615443 21	1476527.66	000712261344
(288)	16763 56714	1111 14736	7817 5314	2 6756417	2028111 23	0153412332	221217427	017025374200
(336)	2 615443132	1476527.66	7162 1343	16763 56714	1 1 14541	6531565	0011738 1464	002554134507
(384)	46742527	2217114364	2537420	615443	1476527.664	7122613 1	16763.56714	001103176 02
(432)	23341164	1476 16762	5621 6171	2421312 34	2213114164 0	017025374 2	20615443346	01476527066 0
(48)	7 6420251	16763 56714	11317402	0073623646	0017653426 0	0242575775 3	0235156140 0	022140035340
(528)	17 2527421	2 615443	76527.66	7 642 257	16763 56714	2 11317202	05441 633	000226251554
(576)	2584 3437	0023 3637446	146731 40	17 2426224	20615443661	01476527066	0070642 0256	016763056714
(624)	1 1 1 2224	0 1515177514	25576705	0023 411723	0203371 5514	0215562454	017024262240	020615443663
(672)	1476527.66	7 642 284	763 56714	1 1 1 622736	0046546222 0	0 3 5504344	0222502225	002164165064
(72)	226611624	17 2426224	1543775	1476527.66	187 2557163	016763056714	0011 621633	000436553364
(768)	0235221644	0215142 6471	113317236	0221642 0243	17 2426240	0215444 77	1476527.66	000702557171
(816)	16763 56714	1 1 1 124666	437 36051	0033647371 4	0227522 6255	0024165141	022173110500	017024262240
(864)	2 2544421	1476527.66	7 2557171	016763 56714	0011112 4461	0036127234	0104144 4434	002020217341
(912)	177 5 3564	0221757516	7 2314 3	2 615444412	1476527.66	7 2557176	16763 56714	000111124253
(96)	0353411724	0144 171730	1744 17125	0017185 7235	223 5342 40	017 2315031	20615444424	01476527066 0
(1 8)	7 2557175	16763 56714	111427304	0003 1531 2	0004737 7226	0016662 01511	0016437442 10	022214235540
(1 56)	17 2315031	2 615444626	76527.66	0 16767161 3	16763 56714	111427 74	0025176 5566	000523424524
(1104)	1410334075	0 1571161164	2142 5540	017 2315	20615444637	01476527066	0067671613	016763056714
(1152)	0111732123	0022225 252	5537 0520	0015317377761	0015142 2244	0222226260 0	017022036340	020615444741
(12)	1476527.66	676716111	763 56714	0011 1731711	0017 5 3 3736	0 6 2657314	0014541223 43	001437752022
(1248)	2 3121624	17 2 3634	6154 5753	1476527.66	1676716110	16763 56714	0011 2234736	000143624120
(1296)	2332 3316	0 1376304727	1364360302	0222376 6560	017022036340	0 2615445155	01476527066 0	000676716116
(1344)	16763 56714	0 0112234523	1141 6604	0006621121 6	0013176 1613	0013173 1362	0222376 6560	017022036340
(1392)	2 615445267	1476527.66	676716116	016763 56714	0011 3 7546	6437127	0071243614	001237617277
(1440)	1234725242	0022 4 6735	17 22 3634	0 2615445371	1476527.660	673055423	16763056714	000112537331
(1488)	2 34653754	0174 2153400	1603 4465	0011531 7624	0225426374 0	017 2 7244	0206154455 2	014765270660
(1536)	673 55122	16763 56714	123 42353	0 5136440	0007724773 74	0011 1740351	0011 75272246	022254263740
(1584)	17 2 7244	2 615445634	76527.66	673 55 3	16763 56714	0011 3142134	0001 21613664	001021406172
(1632)	1 22 5537	0 1 1 46 72	2623 0 740	017 2 7244	20615445716	01476527.66	0067 55026	016763056714
(168)	2 113345154	0 1 1331146	5173216	0074161 35521	0007374 1226 0	0222767412 0	017 2 7244 0	020615446020
(1728)	1476527.66	673 551 4	1763 56714	0011 3344733	0011 1837732	0 1 1 640762	0006624 27 7	000660767144
(1776)	27 7412	17 2 7244	6 3446131	1476527.66	673 55 33	16763 56714	0011 3647751	000127755216
(1824)	1131164756	0 3 315 73	1534338	022277 262	17 1 7612440	2 615446233	1476527.660	000673055111
(1872)	16763 56714	113647527	1566 4302	0011637 2254	0005223 0061	0 521473016	0222776 2230	017017612440
(192)	2 615446345	1476527.66	673 55110	16763 56714	0011415 2543	1 2 7207764	0121 417552	000440621347
(1968)	244 14334	223 51162 0	17 1761244	2 615445647	1476527.66	673 55110	16763 56714	000114455557
(2 16)	2 3611655	1224 743346	36 6 3031	0036 561476	223152 200	017 1761244	0206154465 0	014765270660
(2 64)	673 55115	16763 56714	114435332	2 3 6644 2874	0117 1461 42	2 376272617	0027627 4272	022320761740
(2112)	17 16 5	3 3446682	76527.66	67 4 23	16763 56714	11476 344	2 315351	001320176336
(216)	1542226 5	2 1542 4264	52 761740	017 185	2 615446774	1476527066	0006672140 22	016763056714
(2208)	1135 63395	0 3 587332	1347713636	0013317 5373	0013317 1650	0223271 4674	017016500 0	020615447076
(2256)	1476527.66	67214 3	1763 56714	0117766386	0274 3 4 66	0 1400237	0005226 5361	000052267044
(2304)	2234 5 5	017 2 5	154 7227	1476527.66	0067214 27	016763056714	0011556 6136	000424321352
(2352)	01427755126	0 0116 72615	6674300	2237 4 3	17 165 500	02 615447411	1476527066 0	000667214035

(11952)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	011457036165
(12000)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000243350757
(12048)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	014765270520
(12096)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	022543655200
(12144)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	010615574620
(12192)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	016763056714
(12240)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	020615473652
(12288)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	017767070364
(12336)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	007607101746
(12384)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	004501406341
(12432)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	017012030700
(12480)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	011661414027
(12528)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000247206736
(12576)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	014765270520
(12624)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	022417724400
(12672)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	011136015310
(12720)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	005350743261
(12768)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	016763056714
(12816)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	020615474730
(12864)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	010147207330
(12912)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	010115373624
(12960)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	006041577477
(13008)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	017014254600
(13056)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	012054267623
(13104)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000252541472
(13152)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	014765270500

FILE 1 RECORD 1943 LENGTH 13[illegible] BYTES

(0)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	006417556432
(48)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000037217515
(96)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	021575607527
(144)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	007140654644
(192)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	005217437212
(240)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	002213465037
(288)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	017114335100
(336)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	011524026406
(384)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000263423170
(432)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	024341032040
(480)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	021575661100
(528)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	007114253442
(576)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000037217515
(624)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	021575611346
(672)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	007374366040
(720)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	005704643100
(768)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	003053316306
(816)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	017112111200
(864)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	012037600221
(912)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000266761051
(960)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	024341032000
(1008)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	021653173240
(1056)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	007530100460
(1104)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000037217515
(1152)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	021575613055
(1200)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	007605640112
(1248)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	006375265446
(1296)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	004166672154
(1344)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	017106553340
(1392)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	012331722467
(1440)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000271510056
(1488)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	024341032000
(1536)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	022050575100
(1584)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	010113401454
(1632)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	000037217515
(1680)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	021575614236
(1728)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	007751605140
(1776)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	006674055330

(131 4)
(13152)

FILE	INPUT RECS.	DATA RECORDS INPUT	MAX. SIZE	READ ERROR SUMMARY PERM	ZERO B	SHORT	UNDER.	INPUT RETRIES #RECS.	TOTAL#
	1999	3	99						

EOJ DUMP STOPPED AFTER FILE 2 # OF PERMANENT READ ERRORS

START TIME 1 /01/92 09:53:43 STOP TIME 1 /01/92 09:55:49

AEROS-B
D-58820 C-23329
2/23/74-12/1/74

DUMP OF TAPE ROUTAE1

INPUT TAPE ROUTAE1 ON TU1
DATA INPUT 09 FL 1 2 2

FILE 1 RECORD 1 LENGTH 13200BYTES

(0)	017027620100	020615442371	014765270660	000721763461	016763056714	000107512454	001037644276	000045630444
(48)	003071322705	002754267600	023476306000	017026506140	020615442503	014765270660	000716122361	016763056714
(96)	000107512262	001010126760	000016113140	003020763571	002710400244	022124775300	017026506140	020615442605
(144)	014765270660	000716122367	016763056714	000110015327	000761220144	000011140076	002747615755	002645317410
(192)	022113047200	017026506140	020615442717	014765270660	000716122366	016763056714	000110015133	000731502630
(240)	000040046674	002677256637	002600621356	022121742700	017026506140	020615443021	014765270660	000712261344
(288)	016763056714	000110014736	000701765314	000067564170	002626111023	002534123324	022121742700	017025374200
(336)	020615443132	014765270660	000712261343	016763056714	000110014541	000653056500	000117301464	002554134507
(384)	002467425270	022131141640	017025374200	020615443234	014765270660	000712261351	016763056714	000110317602
(432)	000623341164	000147016762	002502160171	002421312034	022131141640	017025374200	020615443346	014765270660
(480)	000706420251	016763056714	000110317402	000573623646	000176534260	002425757753	002351561400	022140035340
(528)	017025374200	020615443450	014765270660	000706420257	016763056714	000110317202	000544106330	000226251554
(576)	002354003437	002302637446	022146731040	017024262240	020615443561	014765270660	000706420256	016763056714
(624)	000110622240	000515177514	000255767050	002300411723	022233715514	022155624540	017024262240	020615443663
(672)	014765270660	000706420264	016763056714	000110622036	000465462200	000305504344	002225020205	002164165064
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