ARIEL III

ELECTRON TEMPERATURE

67-042A-01A

D-06432

C-04968

Time Span

May 5, 1967 thru October 12, 1967

Tape is 800, BPI, BCD, 7 Track, 1 File

Date: August 4, 1971

To: Data Repository

From: ADP Services

Subject: Ariel III tapes D-00265, D-00266, C-04867 and C-04868

Please release D-00265, D-00266, C-04867 and C-04868. These tapes have been sorted and merged onto D-06432 and C-04968.

Data Set Catalog #132

Ariel -III
Electron temperature

67-042A-01A 1 tape

D-06432 — C-04968

RA 6482

SATELLITE NAME:	ARIEL III
DATE:	JULY 13, 1971
OBJECTIVE:	To sort the ARIEL III data set in chronological order.
DESCRIPTION:	There were two Ariel III tapes comprising the data set. These tapes were merged to one tape 800 BPI and a program was written to deformat the physical records in order to sort the records in chronological order. (See Appendix A for new tape format). After this program the sort utility was used to sort on physical record Cols. ~~[illegible]~~ 7-13 to order by date/time.
INPUT: TAPE	One 800 BPI, 7 track BCD tape is input to this program. The data format is the original format described in documentation. Input unit is A5.
OUTPUT: TAPE	One output tape is produced with 800 BPI, 7 Track BCD with deformated physical records. (See Appendix A for new format) This tape is input to the sort utility. Output unit is A6.
PRINTOUT:	Check-point messages appear for every group of physical records de-formated on A3.

APPENDIX A

NEW RECORD FORMAT

COL(S)	DESCRIPTION	FORMAT
1-2	Run number	I2
2-3	File number	I2
5-6	# of physical records in group	I2
7-8	year	I2
9-11	day	I3
12-13	hour	I2
14-15	minitrack station	I2
16-18	Buffer tape number	I3
19	Tape error code	I1
20-22	# of data records	I3
23-25	# of tape alarms	I3
26-35	Universal time	F10.8
36-42	Latitude	F7.3
43-50	Longitude	F8.3
51-54	Electron Temperature	I4
55-83	Same as 26-54	
84-112	Same as 26-54	
113-141	Same as 26-54	
142-170	Same as 26-54	

07 MAY 5

```
18 34367125 0 8  10215  00.01257817-22.643 126.07245501.01290132-24.391 126.31445361.0122244
 126.56645501.0125476[illegible]-27.881 126.82845501.01387076-29.622 127.1034536

18 34367125 0 8  10215  00.98834207 68.066 -23.95545500.98866522 69.603 -21.80345500.9889883
 -19.30245500.98921151 72.566 -16.37345500.98963466 73.972 -12.9154550

18 34367125 0 8  10215  00.96572171-50.129 -52.96645500.96604486-48.462 -52.39545360.9663680
 -51.86745500.96669115-45.118 -51.37845500.96701430-43.441 -50.9234536

18 34367125 0 8  10215  00.96733745-41.760 -50.49945500.96766060-40.077 -50.10345500.9679827
 -49.72145500.96820685-36.704 -49.38245500.96863004-35.015 -49.0534565

18 34367125 0 8  10215  00.96895219-33.323 -48.74145500.96927634-31.629 -48.44643650.9695994
 -48.16642720.96952262-28.238 -47.85842720.97024578-26.540 -47.6434209

18 34367125 0 8  10215  00.97056893-24.840 -47.35942260.97089208-23.140 -47.16441320.9712152
 -46.93841150.97152837-19.735 -46.72045500.97186152-18.032 -46.5084536

18 34367125 0 8  10215  00.97218467-16.327 -46.30345500.97250782-14.622 -46.10445500.9728309
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18 34367125 0 8  10215  00.97380041 -7.793 -45.34845500.97412356 -6.084 -45.16645500.9744467
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18 34367125 0 8  10215  00.97541615  0.754 -44.45345500.97573930  2.464 -44.27645500.9760624
 -44.09745500.97638559  5.885 -43.91845500.97670874  7.596 -43.7364550

18 34367125 0 8  10215  00.97702189  9.306 -43.55245500.97735504 11.017 -43.36545500.9776781
 -43.17445500.97800132 14.437 -42.97945650.97832448 16.146 -42.7804550

18 34367125 0 8  10215  00.97864763 17.856 -42.57545360.97897078 19.564 -42.36345500.9792939
 -42.14545500.97961707 22.980 -41.91845360.97994022 24.687 -41.6834550

18 34367125 0 8  10215  00.98026337 26.393 -41.43845500.98058652 28.099 -41.18245500.9809096
 -40.91445040.98123281 31.506 -40.63345500.98155596 33.208 -40.3374458

18 34367125 0 8  10215  00.98187911 34.908 -40.02434820.98220226 36.607 -39.69420720.9825254
 -39.34223550.98284855 40.000 -38.97024680.98317170 41.693 -38.5712591

18 34367125 0 8  10215  00.98345485 43.384 -38.14527320.98381800 45.072 -37.68828940.9841411
 -37.15625670.98446425 48.439 -36.66532010.98478744 50.117 -36.0893435

18 34367125 0 8  10215  00.98511059 51.790 -35.46236680.98543374 53.459 -34.77938260.9857568
 -34.02035470.98608003 56.779 -33.20635470.98640318 58.428 -32.2943993

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 -28.88345360.98765577 64.918 -27.45045500.98801892 66.503 -25.8214536

18 34367125 0 8  10215  00.99318929 78.319  72.60345500.99351244 77.280  79.16345500.9938355
  84.67245650.99415673 74.818  89.28345650.99448188 73.433  93.1514550

18 34367125 0 8  10215  00.98995781 75.309  -8.80645500.99028096 76.555  -3.90245500.9906041
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18 34367125 0 8  10215  00.99157355 79.967  26.22245360.99189670 80.216  36.16545360.9922198
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18 34367125 0 8  10215  00.99802651 55.924 112.47945500.99835966 54.236 113.27745500.9986828
 114.00445500.99900555 50.839 114.66645500.99932910 49.132 115.2784550

18 34367125 0 8  10215  00.99480503 71.994  96.41345500.99512818 70.503  99.18445500.9954513
 101.55645500.99577447 67.408 102.60345500.99609762 65.818 105.3824550

18 34367125 0 8  10215  00.99642077 64.206 106.94045500.99674392 62.576 108.31445500.9970670
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D-6432
1st 100 RECS

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34207 68.066 -23.95545500.98866522 69.603 -21.80345500.98898837 71.105  REC     2. LENGTH   174
 16.37345500.98963466 73.972 -12.9154550

72171-50.129 -52.96645500.96604486-48.462 -52.39545360.96636801-46.792  REC     3. LENGTH   174
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95319-33.323 -48.74145500.96927634-31.629 -48.44643650.96959949-29.934  REC     5. LENGTH   174
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18467-16.327 -46.30345500.97250782-14.622 -46.10445500.97283097-12.915  REC     7. LENGTH   174
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03189  9.306 -43.55245500.97735504 11.017 -43.36545500.97767819 12.727  REC    10. LENGTH   174
-42.97945650.97831448 16.146 -42.7804550

4763 17.856 -42.67545360.97897078 19.564 -42.36345500.97929393 21.273  REC    11. LENGTH   174
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6337 26.393 -41.43845500.98058652 28.099 -41.18245500.98090967 29.803  REC    12. LENGTH   174
-40.62345500.98155596 33.208 -40.3374458

7511 34.908 -40.02434820.98220226 36.607 -39.69420720.98252541 38.304  REC    13. LENGTH   174
36.97024660.98317170 41.693 -38.5712591

45485 43.384 -38.14527320.98381800 45.072 -37.68828940.98414115 46.757  REC    14. LENGTH   174
-36.66532010.98478744 50.117 -36.0893435

11059 31.790 -35.46236680.98543374 53.459 -34.77938260.98575689 55.122  REC    15. LENGTH   174
-33.20635470.98640318 58.428 -32.2943993

2633 60.068 -31.28245500.98704948 61.698 -30.15243490.98737263 63.316  REC    16. LENGTH   174
27.45045500.98801892 66.503 -25.8214536

6929 78.319  72.60345500.99351244 77.280  79.16345500.99383559 76.099  REC    17. LENGTH   174
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7355 79.967  26.22245360.99189670 80.216  36.16545360.99221985 80.161  REC    19. LENGTH   174
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14.68845500.99932910 49.132 115.2784550

0503 71.994  96.41345500.99512818 70.503  99.18445500.99545133 68.972  REC    21. LENGTH   174
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116.84145501.00062165 42.251 117.28545501.00094484 40.521 117.7084536

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539-48.577 131.44945361.01774853-50.275 132.03845651.01807170-51.967  REC    33. LENGTH   174
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14-57.000 134.98545501.01936428-58.660 135.91745501.01966743-60.310  REC    34. LENGTH   174
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.76942721.03002816-61.130 -82.5624536

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79-42.927 -74.86945361.03390594-41.246 -74.45445501.03422908-39.562  REC    43. LENGTH   174
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-16.48044580.41298668-36.452 -16.14345040.41427980-38.179 -15.7854550

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-98.87345500.39133628 79.836 -89.06845360.39165944 79.227 -80.1684550

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-60.15045500.39295202 74.855 -55.48145500.39327518 73.530 -51.5674550

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-43.06745500.39456777 67.514 -40.99945500.39489092 65.925 -39.2034550

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-35.01645500.39618351 59.382 -33.92045500.39650666 57.713 -32.9364550

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-30.51445500.39779925 50.945 -29.84645500.39812240 49.241 -29.2334550

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-27.66245360.39941499 42.361 -27.21145500.39973814 40.631 -26.7914536

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