

# Data Set Catalog #137

Vela 3A & 3B

65-058A-04C

1 tape

65-058B-04C

1 tape

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 This inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system.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

VELA 3A, 3B

3-HR AVG DEN, VEL, DIR + TEMP, TAPE

65-058A-04C, 65-058B-04C

THIS DATA SET HAS BEEN RESTORED.  ORIGINALLY IT  
CONTAINED ONE 7-TRACK, 556 BPI TAPE WRITTEN IN BCD.  THERE IS  
ONE RESTORED TAPE WRITTEN IN ASCII.  THE DR TAPE IS A 3480  
CARTRIDGE AND THE DS TAPE IS 9-TRACK, 6250 BPI.  THE ORIGINAL  
TAPE WAS CREATED ON A 7094 COMPUTER AND WAS RESTORED ON THE  
MRS SYSTEM.  THE DR AND DS NUMBER ALONG WITH THE CORRESPONDING  
NUMBER AND THE TIME SPAN IS AS FOLLOWS:

| DR#      | DS#      | D#      | FILES | TIME SPAN           |
|----------|----------|---------|-------|---------------------|
| DR004366 | DS004366 | D006731 | 1     | 07/26/65 - 12/06/67 |

VELA 3A & 3B

65-058A-04C

65-058B-04C

D-06731

C-04578

This data set catalog consists of one magnetic tape containing one file of data. Approximately 2200 cards were put onto the tape at 556 BPI, 7TRK, in BCD mode. Also included in this data set catalog is the front and back of the tape.

VELA 3 SOLAR WIND DATA 26 JULY 1965 THROUGH 5 DECEMBER 1967

SOURCE OF DATA LOS ALAMOS SCIENTIFIC LAB REPORT LA4536 VOL1 OCT 1970

CARD FORMAT 17,14,2(F7.2,F6.2,F7.1,F6.1)

ENTRIES ARE AS FOLLOWS

YEAR COLS 1-2

MONTH COLS 3-4

DAY COLS 5-6

INTERVAL OF DAY COL 7

NO. OF OBSERVATIONS COLS 9-11 *FORMAT OF TAPE*

NUMBER DENSITY AVE COLS 12-18

NUMBER DENSITY SIG COLS 19-24

BULK SPEED AVE COLS 25-31

BULK SPEED SIG COLS 32-37

FLOW DIRECTION AVE COLS 38-44

FLOW DIRECTION SIG COLS 45-50

PROTON TEMP AVE COLS 51-57

PROTON TEMP SIG COLS 58-63

*D-6731*  
*131 644 last 25 lines of Tape*

REC 1. LENGTH 81  
REC 2. LENGTH 81  
REC 3. LENGTH 81  
REC 4. LENGTH 81  
REC 5. LENGTH 81  
REC 6. LENGTH 81  
REC 7. LENGTH 81  
REC 8. LENGTH 81  
REC 9. LENGTH 81  
REC 10. LENGTH 81  
REC 11. LENGTH 81  
REC 12. LENGTH 81  
REC 13. LENGTH 81  
REC 14. LENGTH 81  
REC 15. LENGTH 81  
REC 16. LENGTH 81  
REC 17. LENGTH 81  
REC 18. LENGTH 81  
REC 19. LENGTH 81  
REC 20. LENGTH 81  
REC 21. LENGTH 81  
REC 22. LENGTH 81  
REC 23. LENGTH 81  
REC 24. LENGTH 81  
REC 25. LENGTH 81  
REC 26. LENGTH 81  
REC 27. LENGTH 81  
REC 28. LENGTH 81  
REC 29. LENGTH 81  
REC 30. LENGTH 81  
REC 31. LENGTH 81  
REC 32. LENGTH 81

| YEAR   | MONTH | DAY | INTERVAL | NO. OF OBS | N DENSITY AVE | N DENSITY SIG | B SPEED AVE | B SPEED SIG | F DIRECTION AVE | F DIRECTION SIG | P TEMP AVE | P TEMP SIG |
|--------|-------|-----|----------|------------|---------------|---------------|-------------|-------------|-----------------|-----------------|------------|------------|
| 650726 | 7     | 26  | 1        | 22         | 7.58          | 1.66          | 363.7       | 9.6         | -2.47           | 1.51            | 56.5       | 10.2       |
| 650726 | 7     | 26  | 1        | 5          | 8.58          | 0.94          | 368.7       | 7.6         | -4.82           | 0.73            | 58.6       | 19.4       |
| 650726 | 7     | 26  | 1        | 22         | 7.91          | 0.67          | 366.6       | 5.0         | -4.92           | 0.53            | 44.4       | 4.2        |
| 650726 | 7     | 26  | 1        | 36         | 8.54          | 1.31          | 352.5       | 12.7        | -3.88           | 1.57            | 43.3       | 8.7        |
| 650726 | 7     | 26  | 1        | 16         | 8.39          | 1.09          | 338.2       | 7.4         | -3.53           | 2.03            | 41.5       | 7.3        |
| 650726 | 7     | 26  | 1        | 26         | 10.24         | 1.15          | 324.4       | 2.6         | -4.53           | 1.27            | 37.6       | 5.2        |
| 650726 | 7     | 26  | 1        | 31         | 10.11         | 2.38          | 318.7       | 8.4         | -4.20           | 1.48            | 36.5       | 12.2       |
| 650726 | 7     | 26  | 1        | 9          | 10.14         | 1.61          | 313.0       | 4.2         | -5.43           | 0.36            | 33.3       | 4.1        |
| 650727 | 7     | 27  | 1        | 16         | 15.24         | 4.11          | 308.7       | 5.8         | -4.89           | 1.45            | 31.7       | 3.8        |
| 650727 | 7     | 27  | 1        | 15         | 20.67         | 2.53          | 311.0       | 3.5         | -6.70           | 0.64            | 30.6       | 4.3        |
| 650727 | 7     | 27  | 1        | 28         | 31.08         | 6.64          | 325.5       | 4.3         | -6.08           | 1.65            | 33.7       | 7.7        |
| 650727 | 7     | 27  | 1        | 22         | 21.91         | 2.58          | 349.6       | 8.3         | -4.55           | 1.48            | 46.9       | 14.2       |
| 650727 | 7     | 27  | 1        | 34         | 18.91         | 3.20          | 433.1       | 24.0        | 1.56            | 1.37            | 179.2      | 45.7       |
| 650727 | 7     | 27  | 1        | 13         | 16.82         | 1.42          | 443.4       | 3.8         | 3.80            | 1.04            | 178.6      | 11.6       |
| 650729 | 7     | 29  | 1        | 9          | 6.53          | 1.94          | 558.8       | 22.8        | -8.45           | 3.29            | 269.5      | 71.3       |

|         |    |       |      |       |      |       |      |       |      |
|---------|----|-------|------|-------|------|-------|------|-------|------|
| 6507293 | 13 | 6.49  | 0.86 | 575.5 | 7.1  | -4.90 | 1.72 | 355.4 | 58.3 |
| 6507294 | 12 | 4.94  | 0.86 | 575.2 | 10.4 | -3.58 | 1.74 | 268.5 | 77.5 |
| 6507296 | 2  | 4.53  | 1.22 | 577.8 | 3.9  | -0.71 | 5.35 | 324.0 | 39.1 |
| 6507297 | 3  | 5.89  | 2.14 | 565.1 | 28.9 | -1.78 | 1.76 | 345.9 | 58.2 |
| 6507298 | 5  | 4.28  | 0.38 | 566.1 | 7.5  | 0.83  | 2.85 | 321.4 | 33.5 |
| 6507302 | 1  | 2.62  | 0.00 | 563.9 | 0.0  | -7.23 | 0.00 | 177.1 | 0.0  |
| 6507311 | 15 | 4.82  | 0.53 | 475.2 | 13.9 | -5.18 | 1.25 | 155.2 | 48.4 |
| 6507312 | 8  | 3.99  | 0.71 | 462.6 | 25.8 | -6.34 | 1.31 | 98.0  | 32.5 |
| 6507313 | 16 | 4.67  | 0.82 | 452.2 | 10.0 | -4.81 | 1.19 | 136.4 | 35.3 |
| 6507314 | 15 | 4.26  | 1.12 | 455.5 | 10.9 | -3.23 | 1.14 | 108.9 | 35.3 |
| 6507317 | 4  | 4.01  | 0.52 | 417.2 | 2.1  | -2.50 | 1.07 | 94.1  | 13.4 |
| 6508033 | 13 | 7.31  | 1.14 | 364.2 | 10.9 | -5.08 | 3.84 | 61.4  | 7.4  |
| 6508034 | 11 | 7.61  | 1.57 | 356.7 | 14.2 | -1.56 | 4.94 | 58.0  | 14.2 |
| 6508035 | 13 | 8.67  | 1.74 | 351.3 | 8.2  | -1.04 | 2.55 | 54.2  | 14.4 |
| 6508036 | 8  | 7.76  | 1.24 | 383.2 | 8.9  | -2.91 | 1.07 | 94.5  | 17.4 |
| 6508037 | 1  | 7.12  | 0.00 | 373.1 | 0.0  | -3.56 | 0.00 | 72.0  | 0.0  |
| 6508038 | 4  | 7.03  | 1.05 | 378.3 | 17.5 | -3.98 | 2.56 | 71.2  | 15.4 |
| 6508041 | 6  | 8.65  | 2.68 | 371.4 | 9.8  | -5.00 | 2.04 | 72.4  | 34.0 |
| 6508046 | 11 | 10.28 | 0.71 | 381.6 | 9.0  | -2.45 | 2.23 | 84.8  | 7.3  |
| 6508047 | 5  | 10.43 | 0.27 | 370.2 | 5.8  | 1.34  | 1.02 | 80.7  | 4.2  |
| 6508051 | 11 | 9.09  | 0.95 | 371.7 | 9.5  | -1.80 | 1.51 | 68.7  | 10.2 |
| 6508052 | 12 | 8.54  | 0.81 | 359.4 | 5.3  | -3.52 | 0.52 | 59.2  | 10.1 |
| 6508053 | 2  | 11.35 | 0.38 | 345.3 | 1.9  | 0.08  | 0.17 | 54.4  | 4.0  |
| 6508054 | 10 | 11.45 | 1.55 | 339.5 | 10.2 | 0.03  | 2.38 | 57.0  | 10.3 |
| 6508055 | 8  | 9.00  | 0.57 | 341.7 | 5.4  | -1.55 | 1.46 | 40.5  | 1.9  |
| 6508056 | 1  | 6.72  | 0.00 | 356.6 | 0.0  | -0.14 | 0.00 | 71.4  | 0.0  |
| 6508057 | 3  | 6.59  | 0.99 | 373.0 | 3.4  | -1.73 | 0.41 | 54.7  | 8.2  |
| 6508058 | 5  | 6.40  | 0.60 | 371.8 | 3.6  | -1.01 | 0.99 | 40.1  | 4.5  |
| 6508061 | 4  | 5.90  | 0.27 | 367.1 | 9.6  | -0.97 | 0.74 | 37.0  | 3.3  |
| 6508074 | 1  | 34.72 | 0.00 | 347.6 | 0.0  | -9.05 | 0.00 | 56.0  | 0.0  |
| 6508075 | 2  | 11.61 | 1.29 | 413.0 | 2.5  | 2.24  | 1.20 | 149.6 | 26.0 |
| 6508076 | 2  | 11.51 | 5.77 | 419.1 | 28.7 | 5.19  | 0.63 | 241.7 | 62.4 |

|     |            |    |
|-----|------------|----|
| REC | 33, LENGTH | 84 |
| REC | 34, LENGTH | 84 |
| REC | 35, LENGTH | 84 |
| REC | 36, LENGTH | 84 |
| REC | 37, LENGTH | 84 |
| REC | 38, LENGTH | 84 |
| REC | 39, LENGTH | 84 |
| REC | 40, LENGTH | 84 |
| REC | 41, LENGTH | 84 |
| REC | 42, LENGTH | 84 |
| REC | 43, LENGTH | 84 |
| REC | 44, LENGTH | 84 |
| REC | 45, LENGTH | 84 |
| REC | 46, LENGTH | 84 |
| REC | 47, LENGTH | 84 |
| REC | 48, LENGTH | 84 |
| REC | 49, LENGTH | 84 |
| REC | 50, LENGTH | 84 |
| REC | 51, LENGTH | 84 |
| REC | 52, LENGTH | 84 |
| REC | 53, LENGTH | 84 |
| REC | 54, LENGTH | 84 |
| REC | 55, LENGTH | 84 |
| REC | 56, LENGTH | 84 |
| REC | 57, LENGTH | 84 |
| REC | 58, LENGTH | 84 |
| REC | 59, LENGTH | 84 |
| REC | 60, LENGTH | 84 |
| REC | 61, LENGTH | 84 |
| REC | 62, LENGTH | 84 |
| REC | 63, LENGTH | 84 |
| REC | 64, LENGTH | 84 |

|          |    |       |      |       |      |       |      |       |      |
|----------|----|-------|------|-------|------|-------|------|-------|------|
| 67110302 | 1  | 15.28 | 0.00 | 548.0 | 0.0  | -1.81 | 0.00 | 102.9 | 0.0  |
| 67110304 | 1  | 13.71 | 0.00 | 368.0 | 0.0  | -4.05 | 0.00 | 59.6  | 0.0  |
| 67110306 | 3  | 5.76  | 0.66 | 440.4 | 4.7  | 2.85  | 0.53 | 238.5 | 41.0 |
| 6711041  | 18 | 8.20  | 1.79 | 363.9 | 16.2 | -0.55 | 2.61 | 151.2 | 53.1 |
| 6711042  | 3  | 7.18  | 1.29 | 365.4 | 6.5  | -1.15 | 0.90 | 133.5 | 15.7 |
| 6711076  | 2  | 12.84 | 0.66 | 388.2 | 0.6  | -1.85 | 0.14 | 103.5 | 9.2  |
| 6711078  | 3  | 10.23 | 0.39 | 395.3 | 4.5  | -2.11 | 0.04 | 96.5  | 3.2  |
| 6711082  | 1  | 8.19  | 0.00 | 456.3 | 0.0  | -3.60 | 0.00 | 188.3 | 0.0  |
| 6711085  | 28 | 12.62 | 2.09 | 448.4 | 11.8 | 4.42  | 1.93 | 237.7 | 50.8 |
| 6711086  | 25 | 14.15 | 1.20 | 434.4 | 16.0 | 2.11  | 1.75 | 228.3 | 23.9 |
| 6711087  | 24 | 17.84 | 3.40 | 449.4 | 17.8 | 6.27  | 3.35 | 250.2 | 32.3 |
| 6711127  | 2  | 9.04  | 1.97 | 583.0 | 14.4 | -1.13 | 3.04 | 201.5 | 52.8 |
| 6711131  | 11 | 6.59  | 1.97 | 597.5 | 8.1  | 2.58  | 2.30 | 215.1 | 45.2 |
| 6711132  | 21 | 3.96  | 1.31 | 616.9 | 24.4 | -0.82 | 1.72 | 202.1 | 68.4 |
| 6711133  | 1  | 9.38  | 0.00 | 532.0 | 0.0  | -3.53 | 0.00 | 290.3 | 0.0  |
| 6711221  | 1  | 26.86 | 0.00 | 325.7 | 0.0  | -3.24 | 0.00 | 125.8 | 0.0  |
| 6711224  | 5  | 19.58 | 3.95 | 415.4 | 5.0  | 9.91  | 4.95 | 234.4 | 50.3 |
| 6711225  | 9  | 9.93  | 0.26 | 425.5 | 2.2  | 3.31  | 0.37 | 90.4  | 2.5  |
| 6711226  | 19 | 9.89  | 2.88 | 407.8 | 12.6 | 3.22  | 1.77 | 83.9  | 12.5 |
| 6711227  | 25 | 14.32 | 1.92 | 375.6 | 6.1  | -0.18 | 1.25 | 88.9  | 14.1 |
| 6711228  | 22 | 15.82 | 3.32 | 373.1 | 23.6 | -3.13 | 2.84 | 109.4 | 21.5 |
| 6711231  | 2  | 13.98 | 0.97 | 428.6 | 3.3  | -3.17 | 0.73 | 61.4  | 3.1  |
| 6711274  | 1  | 11.10 | 0.00 | 400.4 | 0.0  | 2.90  | 0.00 | 157.2 | 0.0  |
| 6712018  | 16 | 5.87  | 1.86 | 463.5 | 44.6 | 0.49  | 2.30 | 58.0  | 18.5 |
| 6712065  | 9  | 12.10 | 3.22 | 521.3 | 28.8 | -1.45 | 2.54 | 315.5 | 56.2 |

|     |            |    |
|-----|------------|----|
| 250 | 1, LENGTH  | 84 |
| 250 | 2, LENGTH  | 84 |
| 250 | 3, LENGTH  | 84 |
| 250 | 4, LENGTH  | 84 |
| 250 | 5, LENGTH  | 84 |
| 250 | 6, LENGTH  | 84 |
| 250 | 7, LENGTH  | 84 |
| 250 | 8, LENGTH  | 84 |
| 250 | 9, LENGTH  | 84 |
| 250 | 10, LENGTH | 84 |
| 250 | 11, LENGTH | 84 |
| 250 | 12, LENGTH | 84 |
| 250 | 13, LENGTH | 84 |
| 250 | 14, LENGTH | 84 |
| 250 | 15, LENGTH | 84 |
| 250 | 16, LENGTH | 84 |
| 250 | 17, LENGTH | 84 |
| 250 | 18, LENGTH | 84 |
| 250 | 19, LENGTH | 84 |
| 250 | 20, LENGTH | 84 |
| 250 | 21, LENGTH | 84 |
| 250 | 22, LENGTH | 84 |
| 250 | 23, LENGTH | 84 |
| 250 | 24, LENGTH | 84 |
| 250 | 25, LENGTH | 84 |