# TABLE OF CONTENTS

1. INTRODUCTION
2. CHANGE LOG
3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM
    a. URL to S/C “Remarks” field
    b. URL to S/C “Materials” field
    c. URL to Experiment “Remarks” field
    d. URL to Experiment “Materials” field
    e. URL to Data Set “Remarks” field
    f. URL to Data Set “Materials” field
    g. Items e and f for additional data sets from this experiment, if needed
    h. Items c thru g for additional experiments from this spacecraft, if needed
    i. Items a thru h for additional spacecraft, if needed
4. CATALOG MATERIALS.

# 1. Introduction:

The documentation for this data set was originally on paper kept in NSSDC's Data Set Catalogs (DSCs). The offline tape datasets have now been migrated from the original magnetic tape to magnetic disk (starting in mid-2004). Accordingly, statements in the format descriptions that address such tape relevant factors as blocking and but density are no longer applicable. The paper documentation in the Data Set Catalogs have been scanned and made into digital images of the pages, the collected into a single PDF file for each Data Set Catalog.

The inventory information in these DSCs is current as of July 1, 2004. But this inventory information is now no longer maintained in the DSCs, but is now managed in the inventory part of the NSSDC information system, and the user should go to that interface (JIN) if further information existing in the DSCs is now not needed for locating data files, but we did not go to the trouble of removing that inventory information.

## 2. CHANGE LOG

| Version | Date | Person | Page | Description of Change |
|---|---|---|---|---|
| 01 | | | | |

3. LINKS TO RELEVANT INFORMATION IN THE ONLINE NSSDC INFORMATION SYSTEM:
[NOTE: ANY OF THE INFORMATION FIELDS MIGHT BE BLANK.]
[THE "MATERIALS FOR DISTRIBUTION" FIELD IS HERE CALLED JUST "MATERIALS"]

"Remarks" for spacecraft SCNAME1":
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A--remark--

"Materials" for spacecraft SCNAME1":
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A--mat--

"Remarks" for SCNAME1 experiment EXNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102A&ex=09--remark--

"Materials" for SCNAME experiment EXNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?sc=1977-102&ex=09--mat--

"Remarks" for EXNAME1 data set DSNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--remark--

"Materials" for EXNAME1 data set DSNAME1:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--mat--

"Remarks" for EXNAME1 data set DSNAME2:
http://nssdc.gsfc.nasa,gov/database/MasterCatalog?ds=SPHE-00677--remark--

"Materials" for EXNAME1 data set DSNAME2:
http://nssdc.gsfc.nasa.gov/database/MasterCatalog?ds=SPHE-00677--mat--

"Remarks" for EXNAME1 data set DSNAME3:

"Materials" for EXNAME1 data set DSNAME3:

"Remarks" for SCNAME1 experiment EXNAME2:

"Materials" for SCNAME1 experiment EXNAME2:

"Remarks" for EXNAME2 data set DSNAME1:
"Materials" for EXNAME2 data set DSNAME1:

"Remarks" for EXNAME2 data set DSNAME2:
"Materials" for EXNAME2 data set DSNAME2:

DATA SET CATALOG # 47

Extraterrestrial solar spectral irradiance
at
earths mean solar distance

D-4899
CORRSSI 1tape

November 13, 1969

EXTRATERRESTIAL SOLAR SPECTRAL IRRADIANCES

TABLE OF CONTENTS


I. Correspondence from Sender

II. Program for Listing Tape

III. Output of Program


NOV 4

From Ames - C
To Goddard
Code 601
National

Subject: I

References: A

1. The
contains the
in the refer
program whic
The program
DCS.

2. If
contact us.

Encs.
1. Refere
2. Comput
3. Magnet

NOV 4 1969

Moffett Field, California 94035
October 23, 1969

From Ames - Code STP
To Goddard Space Flight Center
Code 601
National Space Science Data Center

Subject: Data on extraterrestrial solar spectral irradiance

Reference: Arvesen, John C.; Griffin, Roy N., Jr.; and Pearson, E. Douglas, Jr.: "Determination of Extraterrestrial Solar Spectral Irradiance from a Research Aircraft," Applied Optics, 8, 11, 1969

1. The magnetic tape, which is being sent under separate cover, contains the extraterrestrial solar spectral irradiance listing reported in the referenced paper (copy enclosed). The computer output of a program which reads the tape and prints the listing is also enclosed. The program is written in Fortran IV and was run on the IBM 7040/7094 DCS.

2. If you require any further information, please feel free to contact us.

John C. Arvesen

John C. Arvesen
Aerospace Engineer

Encs.
1. Referenced paper(1)
2. Computer output (1)
3. Magnetic tape (under separate cover)

1

0

0

0 EXTRATERRESTRIAL SOLAR SPECTRAL IRRADIANCE

0 AT

0 EARTHS MEAN SOLAR DISTANCE

0 (300 - 2500NM)

0 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

0

0

0 REFERENCE***** ARVESEN, JOHN C, GRIFFIN, ROY N, JR, AND PEARSON, B DOUGLAS, JR, --DETERMINATION OF EXTRA-TERRESTRIAL SOLAR SPECTRAL IRRADIANCE FROM A RESEARCH AIRCRAFT--, APPLIED OPTICS, VOL 8, NO 11, 1969.

0

1

| WAVELENGTH, NANOMETER | EXTRATERRESTRIAL SPECTRAL IRRADIANCE, WATT/SQMETER-NANOMETER | PERCENTAGE OF TOTAL IRRADIANCE AT SHORTER WAVELENGTH |
|---|---|---|
| * * * * * * | * * * * * * * * * * * * * | * * * * * * * * * * * |
| 300.0 | 0.543 | 1.15 |
| 300.4 | 0.504 | 1.16 |
| 300.8 | 0.546 | 1.18 |
| 301.2 | 0.616 | 1.19 |
| 301.6 | 0.749 | 1.21 |
| 302.0 | 0.576 | 1.23 |
| 302.4 | 0.485 | 1.25 |
| 302.8 | 0.541 | 1.26 |
| 303.2 | 0.590 | 1.28 |
| 303.6 | 0.635 | 1.30 |
| 304.0 | 0.563 | 1.31 |
| 304.4 | 0.522 | 1.33 |
| 304.8 | 0.552 | 1.35 |

CORRSSI
D-4899

| | | | | | |
|---|---|---|---|---|---|
| | | 0001 | REC | 1. LENGTH | 84 |
| | | 0002 | REC | 2. LENGTH | 84 |
| | | 0003 | REC | 3. LENGTH | 84 |
| OLAR SPECTRAL IRRADIANCE | | 0004 | REC | 4. LENGTH | 84 |
| AT | | 0005 | REC | 5. LENGTH | 84 |
| N SOLAR DISTANCE | | 0006 | REC | 6. LENGTH | 84 |
| - 2500NM) | | 0007 | REC | 7. LENGTH | 84 |
| * * * * * * * * * * * * * * * * * | | 0008 | REC | 8. LENGTH | 84 |
| | | 0009 | REC | 9. LENGTH | 84 |
| | | 0010 | REC | 10. LENGTH | 84 |
| N C. GRIFFIN, ROY N. JR. AND | | 0011 | REC | 11. LENGTH | 84 |
| --DETERMINATION OF EXTRA- | | 0012 | REC | 12. LENGTH | 84 |
| TRAL IRRADIANCE FROM A RESEARCH | | 0013 | REC | 13. LENGTH | 84 |
| TICS, VOL 8, NO 11, 1969. | | 0014 | REC | 14. LENGTH | 84 |
| | | 0015 | REC | 15. LENGTH | 84 |
| TRIAL | PERCENTAGE OF TOTAL | 0016 | REC | 16. LENGTH | 84 |
| DIANCE, | IRRADIANCE AT | 0017 | REC | 17. LENGTH | 84 |
| ANOMETER | SHORTER WAVELENGTH | 0018 | REC | 18. LENGTH | 84 |
| * * * * * | * * * * * * * * * * | 0019 | REC | 19. LENGTH | 84 |
| | 1.15 | 0020 | REC | 20. LENGTH | 84 |
| | 1.16 | 0021 | REC | 21. LENGTH | 84 |
| | 1.18 | 0022 | REC | 22. LENGTH | 84 |
| | 1.19 | 0023 | REC | 23. LENGTH | 84 |
| | 1.21 | 0024 | REC | 24. LENGTH | 84 |
| | 1.23 | 0025 | REC | 25. LENGTH | 84 |
| | 1.25 | 0026 | REC | 26. LENGTH | 84 |
| | 1.26 | 0027 | REC | 27. LENGTH | 84 |
| | 1.28 | 0028 | REC | 28. LENGTH | 84 |
| | 1.30 | 0029 | REC | 29. LENGTH | 84 |
| | 1.31 | 0030 | REC | 30. LENGTH | 84 |
| | 1.33 | 0031 | REC | 31. LENGTH | 84 |
| | 1.35 | 0032 | REC | 32. LENGTH | 84 |

| | | | |
|---|---|---|---|
| 305.2 | 0.628 | 1.36 | 0033 |
| 305.6 | 0.646 | 1.38 | 0034 |
| 306.0 | 0.490 | 1.40 | 0035 |
| 306.4 | 0.557 | 1.41 | 0036 |
| 306.8 | 0.622 | 1.43 | 0037 |
| 307.2 | 0.718 | 1.45 | 0038 |
| 307.6 | 0.746 | 1.47 | 0039 |
| 308.0 | 0.672 | 1.49 | 0040 |
| 308.4 | 0.631 | 1.51 | 0041 |
| 308.8 | 0.620 | 1.53 | 0042 |
| 309.2 | 0.533 | 1.54 | 0043 |
| 309.6 | 0.514 | 1.56 | 0044 |
| 310.0 | 0.536 | 1.57 | 0045 |
| 310.4 | 0.540 | 1.59 | 0046 |
| 310.8 | 0.707 | 1.61 | 0047 |
| 311.2 | 0.792 | 1.63 | 0048 |
| 311.6 | 0.793 | 1.65 | 0049 |
| 312.0 | 0.706 | 1.67 | 0050 |
| 312.4 | 0.659 | 1.69 | 0051 |
| 312.8 | 0.747 | 1.71 | 0052 |
| 313.2 | 0.759 | 1.73 | 0053 |
| 313.6 | 0.706 | 1.75 | 0054 |
| 314.0 | 0.755 | 1.78 | 0055 |
| 314.4 | 0.774 | 1.80 | 0056 |
| 314.8 | 0.651 | 1.82 | 0057 |
| 315.2 | 0.822 | 1.84 | 0058 |
| 315.6 | 0.800 | 1.86 | 0059 |
| 316.0 | 0.629 | 1.88 | 0060 |
| 316.4 | 0.576 | 1.90 | 0061 |
| 316.8 | 0.744 | 1.92 | 0062 |
| 317.2 | 0.841 | 1.94 | 0063 |
| 317.6 | 0.917 | 1.97 | 0064 |

| | | | | |
|---|---|---|---|---|
| 1.36 | 0033 | REC | 33. LENGTH | 84 |
| 1.38 | 0034 | REC | 34. LENGTH | 84 |
| 1.40 | 0035 | REC | 35. LENGTH | 84 |
| 1.41 | 0036 | REC | 36. LENGTH | 84 |
| 1.43 | 0037 | REC | 37. LENGTH | 84 |
| 1.45 | 0038 | REC | 38. LENGTH | 84 |
| 1.47 | 0039 | REC | 39. LENGTH | 84 |
| 1.49 | 0040 | REC | 40. LENGTH | 84 |
| 1.51 | 0041 | REC | 41. LENGTH | 84 |
| 1.53 | 0042 | REC | 42. LENGTH | 84 |
| 1.54 | 0043 | REC | 43. LENGTH | 84 |
| 1.56 | 0044 | REC | 44. LENGTH | 84 |
| 1.57 | 0045 | REC | 45. LENGTH | 84 |
| 1.59 | 0046 | REC | 46. LENGTH | 84 |
| 1.61 | 0047 | REC | 47. LENGTH | 84 |
| 1.63 | 0048 | REC | 48. LENGTH | 84 |
| 1.65 | 0049 | REC | 49. LENGTH | 84 |
| 1.67 | 0050 | REC | 50. LENGTH | 84 |
| 1.69 | 0051 | REC | 51. LENGTH | 84 |
| 1.71 | 0052 | REC | 52. LENGTH | 84 |
| 1.73 | 0053 | REC | 53. LENGTH | 84 |
| 1.75 | 0054 | REC | 54. LENGTH | 84 |
| 1.78 | 0055 | REC | 55. LENGTH | 84 |
| 1.80 | 0056 | REC | 56. LENGTH | 84 |
| 1.82 | 0057 | REC | 57. LENGTH | 84 |
| 1.84 | 0058 | REC | 58. LENGTH | 84 |
| 1.86 | 0059 | REC | 59. LENGTH | 84 |
| 1.88 | 0060 | REC | 60. LENGTH | 84 |
| 1.90 | 0061 | REC | 61. LENGTH | 84 |
| 1.92 | 0062 | REC | 62. LENGTH | 84 |
| 1.94 | 0063 | REC | 63. LENGTH | 84 |
| 1.97 | 0064 | REC | 64. LENGTH | 84 |

| | | | | |
|---|---|---|---|---|
| 96.29 | 3450 | REC | 1. LENGTH | 84 |
| 96.31 | 3451 | REC | 2. LENGTH | 84 |
| 96.33 | 3452 | REC | 3. LENGTH | 84 |
| 96.35 | 3453 | REC | 4. LENGTH | 84 |
| 96.37 | 3454 | REC | 5. LENGTH | 84 |
| 96.39 | 3455 | REC | 6. LENGTH | 84 |
| 96.41 | 3456 | REC | 7. LENGTH | 84 |
| 96.43 | 3457 | REC | 8. LENGTH | 84 |
| 96.45 | 3458 | REC | 9. LENGTH | 84 |
| 96.47 | 3459 | REC | 10. LENGTH | 84 |
| 96.48 | 3460 | REC | 11. LENGTH | 84 |
| 96.50 | 3461 | REC | 12. LENGTH | 84 |
| 96.52 | 3462 | REC | 13. LENGTH | 84 |
| 96.54 | 3463 | REC | 14. LENGTH | 84 |
| 96.56 | 3464 | REC | 15. LENGTH | 84 |
| 96.58 | 3465 | REC | 16. LENGTH | 84 |
| 96.59 | 3466 | REC | 17. LENGTH | 84 |
| 96.61 | 3467 | REC | 18. LENGTH | 84 |
| 96.63 | 3468 | REC | 19. LENGTH | 84 |
| 96.65 | 3469 | REC | 20. LENGTH | 84 |

| | | | |
|---|---|---|---|
| 2400.0 | 0.055 | 96.29 | 3450 |
| 2405.0 | 0.056 | 96.31 | 3451 |
| 2410.0 | 0.057 | 96.33 | 3452 |
| 2415.0 | 0.054 | 96.35 | 3453 |
| 2420.0 | 0.058 | 96.37 | 3454 |
| 2425.0 | 0.055 | 96.39 | 3455 |
| 2430.0 | 0.059 | 96.41 | 3456 |
| 2435.0 | 0.055 | 96.43 | 3457 |
| 2440.0 | 0.052 | 96.45 | 3458 |
| 2445.0 | 0.050 | 96.47 | 3459 |
| 2450.0 | 0.051 | 96.48 | 3460 |
| 2455.0 | 0.052 | 96.50 | 3461 |
| 2460.0 | 0.049 | 96.52 | 3462 |
| 2465.0 | 0.054 | 96.54 | 3463 |
| 2470.0 | 0.049 | 96.56 | 3464 |
| 2475.0 | 0.054 | 96.58 | 3465 |
| 2480.0 | 0.051 | 96.59 | 3466 |
| 2485.0 | 0.048 | 96.61 | 3467 |
| 2490.0 | 0.055 | 96.63 | 3468 |
| 2495.0 | 0.047 | 96.65 | 3469 |