

**ORDER FORM: SOLAR AND SUNSHINE DATA (ORDERED OFFLINE)**

**AUGUST 2009**

**ALL ORDERS MUST BE PAID IN ADVANCE.**

**Service Charge: \$3.00.**

Make payment to: " NOAA National Data Centers " in U.S. funds.

Must be drawn on a U.S. bank or U.S. affiliate of foreign bank.

Discount prices for Online Orders.

Prices subject to change without notice.

Call to confirm current prices.

Federal agencies are required to submit U.S. Government purchase orders.

MASTERCARD/VISA/AMEX/DISCOVER accepted

Commerce/NOAA/NNDC  
c/o National Interest Security Company (NISC)  
Attn: Fiscal Department  
310 State Route 956, Building 300  
Rocket Center, WV 26726-9229  
TELEX: 6502653731 TDD: 828-271-4010\*  
INTERNET: ncdc.orders@noaa.gov  
FAX: 828-271-4876  
TELEPHONE: 828-271-4800

**This form or photocopies may be used to order the items listed. To order, enter price in blank provided, listing cities or months where appropriate. Call to confirm availability of city desired.**

**SUNRISE/SUNSET TIMES**

The National Climatic Data Center does not provide official sunrise/sunset times. Solar and lunar tables and official sunrise/sunset times may be requested by writing to the address below:

U.S. Naval Observatory  
3450 Massachusetts Ave NW (WEB SITE: <http://tycho.usno.navy.mil/srss.html>)  
Washington, DC 20007

**SOLAR RADIATION AVERAGES**

- 1. Mean Daily Solar Radiation, monthly and annual maps (p. 69 from CLIMAT\*\*, 1931-60),  
1 ea. (Prices are subject to paper copy price list.) \$23.00
- 2. Annual Average Daily Global Solar Radiation on a South Facing Surface (1952-75) 1 map.  
Order Environmental Information Summary C-21, "Annual Average Climatic Maps of the U.S.": (Free)
- 3. Insolation Data Manual (1952-75) Contains above statistics from item 3 and a global cloudiness index.
- 4. Direct Normal Solar Radiation Data Manual (1952-75) long term, monthly mean, daily totals for 235 National Weather Service Stations.

Numbers 4 and 5 above have been combined in one volume without modifications and are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia, 22161. Telephone number 1-800-553-6847. Order number DE90000353.

**5. Solar Radiation Energy Resource Atlas of the U.S. (1952-75)**

Contains: Maps of monthly and annual values of daily:  
Global average solar radiation  
Global average direct normal solar radiation  
Global average diffuse solar radiation

Available from NTIS. Note address and phone listed above (item 5). Order number DE84005105.

6. The Solar Radiation Energy Resource Atlas above are available from NCDC and include monthly and annual data in photocopy forms for 237 stations. Write for a free description and station list of these tables. Call or write for cost estimates of photocopies.

**CD-ROM**

**1. Solar and Meteorological Surface Observational Network (SAMSON) - 3 CD-ROM set including hourly observational and modelled solar radiation data and selected meteorological elements from 1961-90 for 237 U.S. stations. Also available for individual U.S. regions (Eastern, Central, or Western) at \$35.00 each. Cost for entire set: \$105.00. For more information see our CD-ROM Products price list.**

**SOLAR RADIATION MEASUREMENTS**

**1. Solar Radiation and Radiation Balance Data (The World Network)**

Contains year-to-year monthly and annual means of global solar radiation, radiation balance and sunshine duration for the periods 1964-1968, 1969-1973, 1974-1979 and 1980-1984. Available for many worldwide locations. Call to confirm availability of specific cities.

1-10 cities (per period) (APPROXIMATE PRICE):

- entire publication 1964-1968: \$ 15.00
- entire publication 1969-1973: \$125.00
- entire publication 1974-1979: \$ 40.00
- entire publication 1980-1984: \$ 45.00
- entire publication 1980-1984: \$ 40.00

2. Solar Radiation Data, Monthly Summary (1977-1980). Monthly publication is out of print, but is available as photocopies  
List Months: \_\_\_\_\_

3. Hourly Solar Radiation (unedited) (January 1981 - October 1985) (This is a continuation of the above data but editing for quality control was suspended with the publication in December 1980). List months: \_\_\_\_\_

4. Hourly Solar Radiation Data (edited) (January 1988 - Current). Global and direct solar radiation data are collected for the 31 station NOAA Solar Radiation Network. List months: \_\_\_\_\_

\*TDD = Telecommunications Device for the Hearing Impaired.

\*\*CLIMAT = Climatic Atlas of the US (1931-60).

TOTAL FROM FRONT PAGE: \$ \_\_\_\_\_

Data from individual stations can be provided on paper copies. (2 pages per month per station.) Call or write to confirm availability of data from specific stations and for cost estimate.

SUNSHINE AVERAGES

1. Comparative Climatic Data (updated annually) Contains average percent of possible sunshine: monthly and annual tables for 275 large U.S. cities. (Averaged from 1940s - 1990s) **94 pages:** (\$6.00 paper copy ordered online) (Free access online) **\$55.00**

2. Selected Climatic Maps of the United States (1931-60) is a condensed version of the CLIMAT\*\* and includes the following maps:  
Mean daily Solar Radiation (January and July)  
Mean total hours of sunshine (Annual)  
Mean percentage of possible sunshine (January, July, Annual)  
8-1/2x11 in., **32 pages:** **\$ 33.00**

3. Mean percentage of possible Sunshine, monthly and annual maps (p. 65 from CLIMAT\*\*, 1931-60) 1-16x22 in. sheet: **\$ 15.00**  
Entire publication **\$44.00**

REFERENCE MANUALS (Contain no actual or average data)

1. "Solar Radiation Data", Environmental Information Summary (EIS) C-18 (1980) 14 pages (Free)

2. Radiation Measurement IFYGL TM2 (1972)

3. History of Sunshine Data in the US, 1891-1980  
Historical Climatology Series 2-2

SUBTOTAL FROM PAGE ONE: .....	\$ _____
TOTAL FROM THIS PAGE: .....	\$ _____
SERVICE CHARGE: .....	\$ <b>3.00</b>
<u>RUSH PROCESSING:</u> \$60.00 <u>FEDERAL EXPRESS DELIVERY:</u> (\$7.00 within contiguous U.S.) .....	\$ _____
FOREIGN SURCHARGE: \$22 FOR ORDERS ORIGINATING FROM OUTSIDE THE U.S. ....	\$ _____
TOTAL COST OF THE ABOVE: .....	\$ _____

PAYMENT made to "NOAA National Data Centers" is enclosed for the selected items entered on this form.

SHIP TO:	FOR VISA/MASTERCARD/AMEX/DISCOVER ORDERS:
COMPANY/PERSON: _____	CARD NO: _____
ATTENTION: _____	VISA/AMEX/MC: _____ EXP. DATE _____
ADDRESS: _____	CARDHOLDER NAME: _____
CITY: _____ STATE: _____	CARDHOLDER SIGNATURE: _____
ZIP: _____ COUNTRY: _____	TELEPHONE: _____

**\*\*CLIMAT = CLIMATIC ATLAS OF THE U.S. (1931-60)**