CERES, ARM Validation Experiment (CAVE)

David Rutan, Nitchie Manalo Smith, Fred Rose, Tom Charlock

http://www−cave.larc.nasa.gov/cave
CAVE Surface Sites

<table>
<thead>
<tr>
<th>Project Name</th>
<th>No. Of Sites</th>
<th>Time Availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARM</td>
<td>24</td>
<td>January 1998 through Present Date</td>
</tr>
<tr>
<td>BSRN</td>
<td>7</td>
<td>January 1998 through December 1998</td>
</tr>
<tr>
<td>INDOEX</td>
<td>1</td>
<td>February, March 1998</td>
</tr>
<tr>
<td>LaRC/COVE</td>
<td>1</td>
<td>September 1999 through Present Date</td>
</tr>
<tr>
<td>NREL</td>
<td>1</td>
<td>September 1998 through Present Date</td>
</tr>
<tr>
<td>SURFRAD</td>
<td>6</td>
<td>January 1998 through Present Date</td>
</tr>
</tbody>
</table>
CAVE Updates

   Data Include: Long/Ackerman cloud fraction.
   SW direct beam active cavity radiometer.

◆ COVE data is up to date, beginning in Sep 1999.
   Data include: AERONET aerosol optical depths.
   Nighttime offset adjusted diffuse SW.
   Long/Ackerman cloud fraction.

   Data Include: Long/Ackerman cloud fraction.
   CIMEL aerosol optical depth.
   NIR downward SW total & diffuse.

◆ BSRN data is available for 1998.
   Current sites: Florianopolis Brazil
                Ilorin, Nigeria
                Tatano, Japan

◆ Web Site - Now includes ability to look at any Surface-radiation-
   Aerosol-Meteorology (SAM) file. Link to it from the "Surface Observations" page.
CAVE SAM Plot Page

Fred Rose put this together from his "on-line Fu & Liou" software.

Allows one to select any site, month, variable in the CAVE surface observations data base and plot the data for that month.

Access is from the CAVE "Surface Observations" page, clicking on

or go to http://srbsun.larc.nasa.gov/sam

NASA Langley: CAVE SAM FILE Time Series plot

<--- INPUT Selections:

STATION:

- ARM: SOUTHERN GREAT PLAINS STATIONS
- COVE: Chesapeake Lighthouse
- NREL: SAUDI SOLAR VILLAGE
- BSRN: [flo,ilo,tat]
- CMDL: [ber,bou,kwa,mlo,sam,sp1]
- SURFRAD: [bon,dra,fpk,gwn,psu,tbl]

TIME: Year / Month / Day:

- Day = 0 Gives Plot for entire month

PARAMETER: