The Sun as a Resource
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1. Strength of the sun
2. Orientation of the sun
3. Shading
Figure 5. Diagram of Peak Sun Hours (PSH).
Regional Maps

http://www.solar4power.com/solar-power-global-maps.html
Shading

• You have to look at issues with shading the panel
• By shading only a small percentage of the panel you can reduce your power output to almost nothing
• The cell panels are wired in series so if you cover one part lose the entire power of the string of cells
Sun as a Resource

• 1. Strength of the sun – get good accurate data, know the longitude and latitude of an area

• 2. Orientation of the sun – Analyze the sun data and optimize your orientation of the panel

• 3. Shading - If you mount your sun in the shade don’t bother with steps 1 & 2 because the panel won’t work
Data from NASA Website

You input longitude and latitude tell it what data you want back.

Go to http://eosweb.larc.nasa.gov/cgi-bin/sse/grid.cgi