Snowmap Error

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ADM Working Group Presentation

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Objective

• Understand the effect of the snowmap error (index of snowmap was shifted by 1) to the irradiance in the SSF Terra Ed2 product.
All-sky Flux difference NH

June 2000
Flux New – Flux Old, (W m\(^{-2}\))

Dec. 2001
All-sky Zonal Flux Difference, June 2000

Only fluxes derived from snow/sea ice ADMs are used.
All-sky Zonal flux difference, Dec. 2001

Flux Difference, New – Old, Dec 2001, Allsky

Number of Samples
Clear-sky Flux difference

June, 2000

Dec. 2001

Flux New – Flux Old, (W m⁻²)
Clear-sky Zonal Flux Difference, June 2000


Number of Samples
Clear-sky Zonal Flux Difference, Dec. 2001
Relative Difference, NH

(Old – New) / New, Allsky, June 2000

(Old – New) / New, Clear-sky, June 2000
Relative Difference

(Old – New) / New, Allsky, Dec. 2001

## Regional Irradiance Error Estimate

<table>
<thead>
<tr>
<th>Surface and Scene Type</th>
<th>Mean Error (%)</th>
<th>RMS Error (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent Snow, Clear-sky</td>
<td>0.6</td>
<td>2.8</td>
</tr>
<tr>
<td>Fresh snow, All-sky</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bright Snow</td>
<td>0.2</td>
<td>4.3</td>
</tr>
<tr>
<td>Dark Snow</td>
<td>-0.4</td>
<td>3.8</td>
</tr>
<tr>
<td>Sea Ice, All-sky</td>
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<td></td>
</tr>
<tr>
<td>Bright Snow</td>
<td>0.3</td>
<td>2.7</td>
</tr>
<tr>
<td>Dark Snow</td>
<td>-1.1</td>
<td>5.1</td>
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</tbody>
</table>