Correction: Updated and validated solar irradiance reference spectra for estimating environmental photodegradation rates

Jennifer N. Apell and Kristopher McNeill*


Table 1 in the original article shows an incorrect value for the ozone parameter. Below is the correct version of Table 1.

In addition, the citations for the use of the SMARTS model were incomplete. Ref. 1 and 2 listed below should have been included.

These changes do not affect the results, conclusions, or reference irradiance spectra that were published.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site pressure</td>
<td>Calculated based on latitude and altitude</td>
</tr>
<tr>
<td>Atmosphere</td>
<td>Appropriate selection of reference atmosphere based on site latitude and season</td>
</tr>
<tr>
<td>Water vapor</td>
<td>Variable (in cm, from AERONET data) or calculated from reference atmosphere</td>
</tr>
<tr>
<td>Ozone</td>
<td>Variable (in DU, from remote sensing data) or 300 DU</td>
</tr>
<tr>
<td>Gaseous absorption</td>
<td>Light pollution</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>407 ppm</td>
</tr>
<tr>
<td>Extraterrestrial spectrum</td>
<td>1361 W m⁻² Gueymard 2004</td>
</tr>
<tr>
<td>Aerosol model</td>
<td>Shettle &amp; Fenn rural model¹⁰</td>
</tr>
<tr>
<td>Turbidity</td>
<td>Variable (from AERONET data) or 0.1</td>
</tr>
<tr>
<td>Albedo</td>
<td>None</td>
</tr>
</tbody>
</table>

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

References


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