<table>
<thead>
<tr>
<th>JSON Key</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>issue_time</td>
<td>datetime*</td>
<td>Issue time (UTC) in ISO format.</td>
</tr>
<tr>
<td>start_time</td>
<td>datetime*</td>
<td>Start time (UTC) in ISO format.</td>
</tr>
<tr>
<td>peak_time</td>
<td>datetime*</td>
<td>Peak time (UTC) in ISO format.</td>
</tr>
<tr>
<td>end_time</td>
<td>datetime*</td>
<td>End time (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_max_peak_intensity</td>
<td>float</td>
<td>Forecast max peak intensity (W/m²) in the vicinity of shock passage.</td>
</tr>
<tr>
<td>forecast_peak_intensity_at_onset</td>
<td>float</td>
<td>Forecast peak intensity at onset (W/m²) in the vicinity of shock passage.</td>
</tr>
<tr>
<td>forecast_peak_intensity_uncertainty</td>
<td>float</td>
<td>Forecast peak intensity uncertainty value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_peak_intensity_esp</td>
<td>float</td>
<td>Forecast peak intensity at onset (W/m²) (ESP) in the vicinity of shock passage.</td>
</tr>
<tr>
<td>forecast_peak_intensity_esp_time</td>
<td>datetime*</td>
<td>Forecast peak intensity at onset (UTC) (ESP) in ISO format.</td>
</tr>
<tr>
<td>forecast_peak_intensity_time</td>
<td>datetime*</td>
<td>Forecast peak intensity at onset (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_peak_intensity_max_units</td>
<td>peak-intensity-max-units</td>
<td>Forecast max peak intensity value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_peak_intensity_esp_units</td>
<td>peak-intensity-esp-units</td>
<td>Forecast peak intensity ESP units.</td>
</tr>
<tr>
<td>forecast_peak_intensity_esp_uncertainty</td>
<td>peak-intensity-esp-uncertainty</td>
<td>Forecast peak intensity at onset uncertainty value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_peak_intensity_esp_angle</td>
<td>float</td>
<td>Forecast peak intensity at onset angle (degrees).</td>
</tr>
<tr>
<td>forecast_peak_intensity_esp_mode</td>
<td>float</td>
<td>Forecast peak intensity at onset mode value (degrees).</td>
</tr>
<tr>
<td>forecast_peak_intensity_esp_mode_time</td>
<td>datetime*</td>
<td>Forecast peak intensity at onset mode (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_max_intensity_lyse</td>
<td>float</td>
<td>Forecast max peak intensity uncertainty value (same units as intensity) (for symmetric uncertainties).</td>
</tr>
<tr>
<td>forecast_max_intensity_uncertainty_low</td>
<td>float</td>
<td>Forecast max peak intensity lowest uncertainty value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_max_intensity_uncertainty_high</td>
<td>float</td>
<td>Forecast max peak intensity highest uncertainty value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_low</td>
<td>float</td>
<td>Forecast intensity (W/m²) at onset.</td>
</tr>
<tr>
<td>forecast_intensity_high</td>
<td>float</td>
<td>Forecast intensity (W/m²) at onset.</td>
</tr>
<tr>
<td>forecast_integral_intensity</td>
<td>float</td>
<td>Forecast integral intensity (J/m²).</td>
</tr>
<tr>
<td>forecast_integral_intensity_time</td>
<td>datetime*</td>
<td>Forecast integral intensity (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_integral_intensity_esp_time</td>
<td>datetime*</td>
<td>Forecast integral intensity ESP (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_integral_intensity_esp_mode</td>
<td>float</td>
<td>Forecast integral intensity ESP mode value (degrees).</td>
</tr>
<tr>
<td>forecast_integral_intensity_esp_mode_time</td>
<td>datetime*</td>
<td>Forecast integral intensity ESP mode (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_lyse</td>
<td>float</td>
<td>Forecast intensity uncertainty value (same units as intensity) (for symmetric uncertainties).</td>
</tr>
<tr>
<td>forecast_intensity_uncertainty_low</td>
<td>float</td>
<td>Forecast intensity lowest uncertainty value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_uncertainty_high</td>
<td>float</td>
<td>Forecast intensity highest uncertainty value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_mode</td>
<td>float</td>
<td>Forecast intensity mode value (degrees).</td>
</tr>
<tr>
<td>forecast_intensity_mode_time</td>
<td>datetime*</td>
<td>Forecast intensity mode (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_mode_uncertainty_low</td>
<td>float</td>
<td>Forecast intensity mode uncertainty lowest value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_mode_uncertainty_high</td>
<td>float</td>
<td>Forecast intensity mode uncertainty highest value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_lyse_time</td>
<td>datetime*</td>
<td>Forecast intensity ESP (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_esp_time</td>
<td>datetime*</td>
<td>Forecast intensity ESP (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_esp_mode</td>
<td>float</td>
<td>Forecast intensity ESP mode value (degrees).</td>
</tr>
<tr>
<td>forecast_intensity_esp_mode_time</td>
<td>datetime*</td>
<td>Forecast intensity ESP mode (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_esp_uncertainty_low</td>
<td>float</td>
<td>Forecast intensity ESP uncertainty lowest value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_esp_uncertainty_high</td>
<td>float</td>
<td>Forecast intensity ESP uncertainty highest value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_esp_low</td>
<td>float</td>
<td>Forecast intensity ESP value (degrees).</td>
</tr>
<tr>
<td>forecast_intensity_esp_high</td>
<td>float</td>
<td>Forecast intensity ESP value (degrees).</td>
</tr>
<tr>
<td>forecast_intensity_esp_low_time</td>
<td>datetime*</td>
<td>Forecast intensity ESP (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_esp_high_time</td>
<td>datetime*</td>
<td>Forecast intensity ESP (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_esp_mode_low</td>
<td>float</td>
<td>Forecast intensity ESP mode value (degrees).</td>
</tr>
<tr>
<td>forecast_intensity_esp_mode_high</td>
<td>float</td>
<td>Forecast intensity ESP mode value (degrees).</td>
</tr>
<tr>
<td>forecast_intensity_esp_mode_low_time</td>
<td>datetime*</td>
<td>Forecast intensity ESP mode (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_esp_mode_high_time</td>
<td>datetime*</td>
<td>Forecast intensity ESP mode (UTC) in ISO format.</td>
</tr>
<tr>
<td>forecast_intensity_esp_uncertainty_low_low</td>
<td>float</td>
<td>Forecast intensity ESP uncertainty lowest lowest value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_esp_uncertainty_low_high</td>
<td>float</td>
<td>Forecast intensity ESP uncertainty lowest highest value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_esp_uncertainty_high_low</td>
<td>float</td>
<td>Forecast intensity ESP uncertainty highest lowest value (same units as intensity).</td>
</tr>
<tr>
<td>forecast_intensity_esp_uncertainty_high_high</td>
<td>float</td>
<td>Forecast intensity ESP uncertainty highest highest value (same units as intensity).</td>
</tr>
</tbody>
</table>

**Definitions:**
- **Issue Time:** The time when the forecast was issued.
- **Start Time:** The time when the event is expected to start.
- **End Time:** The time when the event is expected to end.
- **Forecast Peak Intensity:** The expected peak intensity at the onset of the event.
- **Forecast Integral Intensity:** The expected integral intensity of the event.
- **Forecast Max Peak Intensity:** The maximum expected peak intensity of the event.
- **Forecast Integral Intensity Mode:** The mode of the expected integral intensity.
- **Forecast Integral Intensity Uncertainty:** The uncertainty of the expected integral intensity.
- **Forecast Peak Intensity Mode:** The mode of the expected peak intensity.
- **Forecast Peak Intensity Uncertainty:** The uncertainty of the expected peak intensity.
- **Forecast Peak Intensity ESP:** The expected peak intensity in the event's shock passage.
- **Forecast Peak Intensity ESP Time:** The time of the expected peak intensity in the event's shock passage.
- **Forecast Peak Intensity ESP Mode:** The mode of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Uncertainty:** The uncertainty of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Low:** The low value of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP High:** The high value of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Low Time:** The time of the low value of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP High Time:** The time of the high value of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Mode Low:** The low mode of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Mode High:** The high mode of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Uncertainty Low Low:** The lowest lowest uncertainty of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Uncertainty Low High:** The lowest highest uncertainty of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Uncertainty High Low:** The highest lowest uncertainty of the expected peak intensity ESP.
- **Forecast Peak Intensity ESP Uncertainty High High:** The highest highest uncertainty of the expected peak intensity ESP.

**Note:** The detailed descriptions of each JSON key and its corresponding values are provided in the SEP Scoreboard documentation.
### JSON filename guideline

ModelShortName.PredictionWindowStartTime.IssueTime.json

**Required fields:**
- alert
- all_clear
- threshold
- uncertainty
- threshold_units

**Optional Fields:**
- energy_min
- energy_max

#### **alert**
- Required if alert used
- Allowed values: cme (more can be added upon request)

#### **all_clear**
- Required if all_clear used
- Boolean

#### **threshold**
- Required if threshold_crossings used
- Float

#### **uncertainty**
- Required if uncertainty_high used
- Float

#### **threshold_units**
- Required
- String

#### **threshold_start**
- Required
- Float

#### **end_time**
- Required if fluence used
- Optional if probabilities used
- Datetime

#### **fluence**
- Required
- Float

#### **fluence_units**
- Required
- String

#### **fluence_spectrum**
- Required if fluence_spectra used
- String

#### **fluence_uncertainty_high**
- Required
- Float

#### **fluence_uncertainty_low**
- Required
- Float

#### **fluence_uncertainty**
- Required
- String

#### **fluence_start**
- Required
- Float

#### **event_length**
- Required
- String

#### **event_lengths**
- Required if fluence_spectra used
- String

#### **event_length_end_time**
- Required
- Float

#### **event_length_start_time**
- Required
- Float

#### **peak_intensity**
- Required
- Float

#### **peak_intensity_max**
- Required
- Float

#### **peak_intensity_max_units**
- Required
- String

#### **peak_intensity_max_time**
- Required
- Float

#### **peak_intensity_max_uncertainty_high**
- Required
- Float

#### **peak_intensity_max_uncertainty_low**
- Required
- Float

#### **peak_intensity_max_uncertainty**
- Required
- String

#### **prob_event_length**
- Required if fluence_spectra used
- Float

#### **prob_peak_intensity**
- Required
- Float

#### **prob_peak_intensity_max**
- Required
- Float

#### **prob_peak_intensity_max_units**
- Required
- String

#### **prob_peak_intensity_max_time**
- Required
- Float

#### **prob_peak_intensity_max_uncertainty_high**
- Required
- Float

#### **prob_peak_intensity_max_uncertainty_low**
- Required
- Float

#### **prob_peak_intensity_max_uncertainty**
- Required
- String

#### **prob_profile**
- Required if fluence_spectra used
- Optional
- String

#### **prob_threshold**
- Required
- Float

#### **prob_threshold_units**
- Required
- String

#### **prob_threshold_start**
- Required
- Float

#### **prob_threshold_end**
- Required
- Float

#### **prob_threshold_end_time**
- Required
- Float

#### **prob_threshold_start_time**
- Required
- Float

#### **prob_threshold_crossing_time**
- Required
- Float

#### **prob_threshold_crossing_units**
- Required
- String

#### **prob_threshold_crossing**
- Required
- Float

#### **crossing_time**
- Required
- Float

#### **crossing_time_uncertainty**
- Required
- Float

#### **crossing_time_units**
- Required
- String

#### **crossing_threshold**
- Required
- Float

#### **crossing_threshold_units**
- Required
- String

#### **crossing_threshold_start**
- Required
- Float

#### **crossing_threshold_end**
- Required
- Float

#### **crossing_threshold_end_time**
- Required
- Float

#### **crossing_threshold_start_time**
- Required
- Float

#### **crossing_threshold_crossing**
- Required
- Float

#### **crossing_threshold_crossing_units**
- Required
- String

#### **all_clear_threshold**
- Optional
- Float

#### **all_clear_boolean**
- Optional
- Boolean

#### **all_clear_boolean_units**
- Optional
- String

#### **all_clear_boolean_start_time**
- Optional
- Float

#### **all_clear_boolean_end_time**
- Optional
- Float

#### **all_clear_boolean_uncertainty_high**
- Optional
- Float

#### **all_clear_boolean_uncertainty_low**
- Optional
- Float

#### **all_clear_boolean_uncertainty**
- Optional
- String

#### **all_clear_threshold_units**
- Optional
- String

#### **all_clear_threshold_start**
- Optional
- Float

#### **all_clear_threshold_end**
- Optional
- Float

#### **all_clear_threshold_end_time**
- Optional
- Float

#### **all_clear_threshold_start_time**
- Optional
- Float

#### **all_clear_threshold_crossing**
- Optional
- Float

#### **all_clear_threshold_crossing_units**
- Optional
- String

#### **all_clear_threshold_crossing_start_time**
- Optional
- Float

#### **all_clear_threshold_crossing_end_time**
- Optional
- Float

#### **all_clear_threshold_crossing_start**
- Optional
- Float

#### **all_clear_threshold_crossing_end**
- Optional
- Float

#### **all_clear_threshold_crossing_uncertainty_high**
- Optional
- Float

#### **all_clear_threshold_crossing_uncertainty_low**
- Optional
- Float

#### **all_clear_threshold_crossing_uncertainty**
- Optional
- String

#### **all_clear_threshold_crossing_uncertainty_units**
- Optional
- String