# Accuracy Assessment (Ellipsoid*) vs. LAS files

<table>
<thead>
<tr>
<th>Island</th>
<th>RMSE (m)</th>
<th>Mean (m)</th>
<th>Std. Dev. (m)</th>
<th>Change from last delivery?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kure Atoll</td>
<td>0.11</td>
<td>0.08</td>
<td>0.09</td>
<td>No</td>
</tr>
<tr>
<td>Midway Atoll</td>
<td>0.05</td>
<td>0.00</td>
<td>0.05</td>
<td>No</td>
</tr>
<tr>
<td>Pearl and Hermes</td>
<td>0.12</td>
<td>-0.10†</td>
<td>0.06</td>
<td>No</td>
</tr>
<tr>
<td>Lisianski Island</td>
<td>0.18</td>
<td>0.00</td>
<td>0.18</td>
<td>No</td>
</tr>
<tr>
<td>Laysan Island</td>
<td>0.09</td>
<td>0.00</td>
<td>0.09</td>
<td>No</td>
</tr>
<tr>
<td>Tern (French Frigate Shoals)</td>
<td>0.05</td>
<td>0.00</td>
<td>0.05</td>
<td>Yes, better</td>
</tr>
</tbody>
</table>

Green: meets vertical accuracy specification of 0.15m RMSE  
Red: doesn’t meet specification

*Based on WGS84 ellipsoid

†Negative mean values indicate that lidar surface is lower than control elevation