### Historical GIS, 2015 Update to Observational Records

<table>
<thead>
<tr>
<th>Duration</th>
<th>Return interval (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 min</td>
<td>4.57 5.99 7.21 8.75 9.79 11.08</td>
</tr>
<tr>
<td>10 min</td>
<td>5.81 9.22 9.8 11.81 13.15 16.79</td>
</tr>
<tr>
<td>15 min</td>
<td>9.06 9.51 11.84 13.57 15.09 17.59</td>
</tr>
<tr>
<td>30 min</td>
<td>9.6 13.54 16.14 19.44 21.87 24.29</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2 hour</td>
<td>14.7 20.35 23.82 28.45 31.82 39.3</td>
</tr>
<tr>
<td>3 hour</td>
<td>21.29 27.55 31.78 37.02 41.01 45.95</td>
</tr>
<tr>
<td>4 hour</td>
<td>28.29 35.01 41.03 47.45 51.21 56.95</td>
</tr>
<tr>
<td>24 hour</td>
<td>39.2 43.87 48.51 56.87 62.25 67.5</td>
</tr>
</tbody>
</table>

### Projected GIS Data, 2043-2070

<table>
<thead>
<tr>
<th>Duration</th>
<th>Return interval (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 min</td>
<td>7.57 9.51 9.17 10.01 11.39 13.08</td>
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<tr>
<td>10 min</td>
<td>7.69 10.15 12.37 14.79 16.5 18.25</td>
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<tr>
<td>30 min</td>
<td>12.84 17.28 20.31 24.22 27.13 29.98</td>
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<tr>
<td>1 hour</td>
<td>15.24 20.71 24.93 28.97 33.93 35.97</td>
</tr>
<tr>
<td>2 hour</td>
<td>18.8 23.44 28.67 33.92 39.12 41.9</td>
</tr>
<tr>
<td>6 hour</td>
<td>26.1 33.4 38.57 44.85 49.51 54.13</td>
</tr>
<tr>
<td>12 hour</td>
<td>34.2 43.25 49.24 56.81 62.43 66</td>
</tr>
<tr>
<td>24 hour</td>
<td>41.89 51.31 58.85 67.47 71.78 80.03</td>
</tr>
</tbody>
</table>

### 90th Percentile of Projection Ensemble, 2043-2070

<table>
<thead>
<tr>
<th>Duration</th>
<th>Return interval (years)</th>
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<tbody>
<tr>
<td>5 min</td>
<td>6.1 9.45 11.82 13.15 15.05 16.95</td>
</tr>
<tr>
<td>10 min</td>
<td>9.14 12.72 15.19 18.07 20.29 22.55</td>
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<tr>
<td>15 min</td>
<td>10.8 14.88 17.77 21.24 25.79 26.35</td>
</tr>
<tr>
<td>30 min</td>
<td>15.75 20.5 24.75 28.62 33.3 36.51</td>
</tr>
<tr>
<td>1 hour</td>
<td>18.79 24.99 29.52 35.61 38.62 43.87</td>
</tr>
<tr>
<td>2 hour</td>
<td>21.57 30.43 36.89 44.59 51.76 57.96</td>
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<tr>
<td>6 hour</td>
<td>30 39.47 45.74 53.66 59.54 65.37</td>
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<tr>
<td>12 hour</td>
<td>38.9 50.32 57.85 67.94 74.52 81.5</td>
</tr>
<tr>
<td>24 hour</td>
<td>47.71 60.12 68.61 79.48 87.47 95.43</td>
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### Historical GIS, 2071-2100

<table>
<thead>
<tr>
<th>Duration</th>
<th>Return interval (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 min</td>
<td>5.1 6.79 7.9 9.31 10.39 11.39</td>
</tr>
<tr>
<td>10 min</td>
<td>7.06 9.35 10.75 12.58 13.9 15.25</td>
</tr>
<tr>
<td>15 min</td>
<td>8.41 10.95 12.85 14.78 16.38 17.93</td>
</tr>
<tr>
<td>30 min</td>
<td>11.08 14.3 17.78 21.07 24.67 26.23</td>
</tr>
<tr>
<td>1 hour</td>
<td>14.07 18.9 23.1 27.97 33.06 38.89</td>
</tr>
<tr>
<td>2 hour</td>
<td>17.54 22.55 27.86 33.18 39.37 46.25</td>
</tr>
<tr>
<td>6 hour</td>
<td>24.99 32.48 40.9 49.8 59.73 69.24</td>
</tr>
<tr>
<td>12 hour</td>
<td>32.25 40.29 48.96 59.75 70.4 81.53</td>
</tr>
<tr>
<td>24 hour</td>
<td>39.7 48.73 58.91 69.47 80.6 92.25</td>
</tr>
</tbody>
</table>

### Projected GIS Data, 2071-2100

<table>
<thead>
<tr>
<th>Duration</th>
<th>Return interval (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 min</td>
<td>5.51 12.76 14.92 17.62 20.65 21.65</td>
</tr>
<tr>
<td>10 min</td>
<td>10.43 17.09 19.88 23.39 26.01 28.65</td>
</tr>
<tr>
<td>15 min</td>
<td>15.9 22.91 25.92 29.53 32.97 35.47</td>
</tr>
<tr>
<td>30 min</td>
<td>21.57 30.43 36.89 44.59 51.76 57.96</td>
</tr>
<tr>
<td>1 hour</td>
<td>25.55 33.33 38.78 45.76 50.65 55.99</td>
</tr>
<tr>
<td>2 hour</td>
<td>31.67 40.44 46.74 54.83 60.83 66.79</td>
</tr>
<tr>
<td>6 hour</td>
<td>39.7 50.32 57.85 67.67 75.04 83.37</td>
</tr>
<tr>
<td>12 hour</td>
<td>56.9 64.13 72.09 84.85 92.79 101.11</td>
</tr>
<tr>
<td>24 hour</td>
<td>60.44 73.77 81.07 92.63 105.11 117.52</td>
</tr>
</tbody>
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