

Four proposed SLR scenarios for SLAMM simulations are shown above

* Scenarios correspond to the maximum of the General Climate Model (GCM) and the minimum and maximum of the and Rapid Ice Melt (RIM) estimates as described in the Climaid report, as well as 1 meter (39.4 inches) of SLR by 2100.
* GCM and RIM scenarios from the Climaid report (2020-2080, Lower Hudson and Long Island) and Scenic Hudson (2100, Region 4- New York City and Long Island) are shown for comparison.
  + Horizontal lines on the GCM and RIM models represent the decade in which the predicted sea level rise may occur.

Based on the PAC call of 2/28:

* SLAMM simulations will conclude at 2100. Maps and numerical data will be output for 2025, 2055, 2085, and 2100.
* We will model the predicted sea level rise in the center of the decadal time period, as shown in the graph.
* Rather than running the minimum of the GCM scenario, 1m of SLR by 2100 (relative to a base year of 2002) will be simulated.

Table 1. SLR to be simulated under each scenario for each timestep (mm) relative to a base year of 2002.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | GCM Max | 1m by 2100 | RIM Min | RIM Max |
| 2025 | 127 | 129.4 | 127 | 254 |
| 2055 | 304.8 | 431 | 482.6 | 736.6 |
| 2085 | 584.2 | 806.7 | 1041.4 | 1397 |
| 2100 | 717.6 | 1000 | 1327.2 | 1720.9 |

Table 2. SLR to be simulated under each scenario for each timestep (inches) relative to a base year of 2002.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | GCM Max | 1m by 2100 | RIM Min | RIM Max |
| 2025 | 5.0 | 5.1 | 5.0 | 10.0 |
| 2055 | 12.0 | 17.0 | 19.0 | 29.0 |
| 2085 | 23.0 | 31.8 | 41.0 | 55.0 |
| 2100 | 28.3 | 39.4 | 52.3 | 67.8 |