

Proposed Updates to Disclaimers in the Hawaii Sea Level Rise Report and Hawaii Sea Level Rise Viewer

Draft November 15, 2018

General intentions of updates to disclaimer language:

- So government entities will not be limited from utilizing the hazard and vulnerability map data from the Hawaii Sea Level Rise Vulnerability and Adaptation Report and Hawaii Sea Level Rise Viewer in planning and policy;
 - Emphasize need for users to understand methods, assumptions, limitations, and uncertainties of models, analysis, and results;
 - Corresponding changes will also be made to disclaimers in the GIS layer metadata within the Viewer and on the State GIS program website;
- Note: Users of the information and analysis in the report, and the Viewer tool are solely responsible for any risks associated with their use of the report and tool.

REPORT

Existing

DISCLAIMER. This report is a tool to estimate the scale and cost of potential flooding and erosion with sea level rise. The exact location of flooding and economic costs from damages are estimates. Flood maps are in the range of 80 percent probability. Damage estimate costs are conservative. The data, maps, and recommendations provided should be used only as a screening-level resource to support management decisions to address sea level rise. As with all remotely sensed data, all features should be verified with a site visit. The risk associated with use of the results is assumed by the user. This report should be used strictly as a planning reference tool and not for permitting, or other legal purposes.

Updated/proposed changes

DISCLAIMER: This report is intended to provide a state-wide assessment of Hawaii's vulnerability to sea level rise. The location of projected impacts and economic costs from damages are estimates based on a particular sea level rise scenario. The hazard and vulnerability data and maps provided herein are based on observational data and computer-based models-as described herein and in published research (Anderson et al., 2018). As with all models, it is important to understand the methods, assumptions, limitations, and uncertainties of the methods used. The risks associated with use of the results are assumed by the user.

VIEWER

Existing

DISCLAIMER: The data and maps in this viewer illustrate the scale, not the exact location, of potential flooding and erosion with sea level rise. The Hawai'i Sea Level Rise Viewer should be used only as a screening-level resource to support management decisions to address exposure and vulnerability to coastal hazards with sea level rise. As with all remotely sensed data, all features should be verified with a site visit. More detailed modeling and analysis will be needed to assess exposure and vulnerability at the site level. The risk associated with use of the results is assumed by the user. This viewer should be used strictly as a planning reference tool and not for permitting, or other legal purposes.

Updated/proposed changes

DISCLAIMER: The Hawaii Sea Level Rise Viewer is a web-based mapping tool to visualize the projected scale and cost of Hawaii's vulnerability to sea level rise. The location of projected impacts and economic costs from damages

are estimates based on a particular sea level rise scenario. The hazard and vulnerability data and maps provided herein are based on observational data and computer-based models as described in the Hawaii Sea Level Rise Vulnerability and Adaptation Report and in published research (Anderson et al., 2018), and summarized herein. As with all models, it is important to understand the methods, assumptions, limitations, and uncertainties of the methods used. The risks associated with use of the data and maps are assumed by the user.

Anderson, T. R., Fletcher, C. H., Barbee, M. M., Romine, B. M., Lemmo, S., & Delevaux, J. M. S. (2018). Modeling multiple sea level rise stresses reveals up to twice the land at risk compared to strictly passive flooding methods. *Scientific reports*, 8(1), 14484. doi:10.1038/s41598-018-32658-x

DRAFT