

14 July 2022

Request for Official Information responded to under the Local Government and Official Information and Meetings Act 1987 (LGOIMA) (the Act) – reference: OIR 2223-313

I refer to your information request we received on 5 July 2022, via your attendance at the Paraparaumu-Raumati Community Board meeting, for the following:

This is a very simple question for anyone involved in coastal hazard risk assessment. I will ask it for you here Mark. Consider it an OIA request. Will volume 3 of the assessments give probability distributions for the SLR scenarios being used in Vol 1 and 2?

Council response regarding your request

The Intergovernmental Panel on Climate Change (IPCC) and Ministry for the Environment (MfE) have deliberately not produced probabilities for the different Sea Level Rise (SLR) scenarios. Hence the reason for considering the range of SLR scenarios is that it covers the range that IPCC (and MfE) have confidence could occur under various social-political and emission futures.

However, what is already available in the Jacobs report “*Kāpiti Coast Coastal Hazards Susceptibility and Vulnerability Assessment - Volume 2: Results*” (published in February 2022) and on the GIS Map Viewer is the probability of erosion distances under the upper and lower limits of the range of SLR scenarios for 2050, 2070 and 2120.

Also available in the Volume 2 report and on the GIS Map Viewer is the extent of potential coastal flooding with a 1% AEP coastal storm under the same upper and lower range of SLR scenarios. *NB: AEP stands for Annual Exceedance Probability. It expresses the likelihood or probability of a flood of a given size or larger occurring in any year; usually expressed as a percentage.*

You can access these key resources on the Council’s website using the following links:

- Information about coastal science, including Volumes 1 and Volume 2 reports by Jacobs New Zealand Limited are located [here](#).
- The results from the Takutai Kāpiti Coastal Hazard Susceptibility Assessment can be viewed using the GIS Map Viewer located [here](#).

For information about the Takutai Kāpiti coastal adaptation project, please visit the [Takutai Kāpiti website](#), where you can also sign up for project updates.

Ngā mihi



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Te Kaihautū Ratonga Pakiaka