



Natural Hazards

Crown Copyright Reserved
Projection NZTM. Datum NZTM2000.
DISCLAIMER:
The Northland Regional Council cannot guarantee that the information shown is accurate and should not be reused in any manner without proper consultation with its owner.

The Northland Regional Council coastal hazard map identifies the hazard zones and the level of risk to coastal areas due to storm events, taking into account current and future sea level rise over the next 50 and 100 years. The map is designed to raise awareness of where coastal hazard areas are and inform decision-making, to help minimise the impacts of coastal hazards in our region - and to looks at erosion zones and potential erosion levels over the next 50 and 100 years.

Source of information:

Coastal Erosion Hazard Zone Assessment for Selected Northland Sites, 2017 Update. Prepared by Tonkin and Taylor for Northland Regional Council, December 2017

Section 5.2 of the report further describes the probabilistic approach to the coastal erosion hazard lines;

'For each coastal cell a range of CEHZ probabilistic values are calculated and presented within the individual site assessments within Appendix A. Following consultation with Council, the P66% value for 2065 (CEHZ value with a 66% probability of being exceeded by 2065) and the P5% value for 2115 (5% probability of being exceeded by 2115) were adopted as prudent likely and potential coastal erosion hazard zones values termed the CEHZ1 and CEHZ2 respectively. Where the current P66% value exceeds the 2065 (i.e. the current erosion width is larger due to future accretion) then the current value is adopted. CEHZs for shorelines protected by consented structures have been termed CEHZO.'

The full report can be viewed here:

 $\frac{https://www.nrc.govt.nz/media/9545/tonkintaylorcoastalerosionhazardzonesreport2017updateweb}{version.pdf}$

Disclaimer

Flood maps



Northland Regional Council's flood maps have been compiled using an assessment of best available information.

The maps indicate the outer extent of the flooding from analysis of information only and do not necessarily reflect the greatest extent of flooding suffered in the past, or likely to be suffered in the future.

The design storms used to generate flood plain maps are based on HIRDS v3 datasets, provided by NIWA. It should not be assumed without further investigation that land outside of the boundary is not susceptible to flooding.

The flood maps reflect flooding originating from the river, and as such may not represent flooding caused by ponding or runoff of local water or overflow of stormwater networks.

The flood plain mapping within each catchment extends to only those areas covered by LIDAR survey; areas outside of the LIDAR survey may, or may not be, at risk from river flooding. Within the areas of LIDAR coverage, the emphasis has been on capturing the extent and level of flood overflow from the main stream and river channels. Flooding from surface run off, and storm water networks, is not always reflected in the flood maps.

When using these flood maps, users shall clearly identify that the results may be subject to change at the discretion of the Northland Regional Council.

While the maps have been quality controlled, their accuracy can not be guaranteed. Accordingly, these maps should not be relied upon as the sole basis for the making of any decision in relation to potential flood risk. Further, the maps should be interpreted only by an expert duly qualified to interpret these maps and when so interpreted, should not be utilised without reference to other source information and data.

The information contained in these flood maps is provided for general information purposes only. While the authors have done their best to provide accurate information, users are requested to inform Northland Regional Council of any suspected errors in the maps and/or electronic files.

Northland Regional Council makes no representations, warranties or undertakings about any of the information in these maps and/or electronic files including, without limitation, their accuracy, their completeness or their quality or fitness for any particular purpose.

To the fullest extent permitted by applicable law, neither Northland Regional Council nor any of its members, officers, associates, consultants, employees, affiliates, servants, agents or other representatives shall be liable for loss or damage arising out of, or in connection with, the use of, or the inability to use, the information contained in these maps and/or electronic files including, but not limited to, indirect or consequential loss or damages, loss of data, income, profit, or opportunity, loss of, or damage to, property and claims of third parties, even if Northland Regional Council has been advised of the possibility of such loss or damages, or such loss or damages were reasonably foreseeable.

Northland Regional Council reserves the right to change the content and/or presentation of any of the information contained in these maps at its sole discretion, including these notes and disclaimer. Use of these maps is subject to these disclaimers and exclusions and by using these maps the user is signifying his or her agreement to be bound by these exclusions and disclaimers.

These disclaimers and exclusions shall be governed by, and construed in accordance with, the laws of New Zealand. If any provision of these disclaimers and exclusions shall be unlawful, void or for any reason unenforceable, that provision shall be deemed severable and shall not affect the validity and enforceability of the remaining provisions.





