



Te Korowai o Waiheke

TOWARDS PREDATOR FREE WAIHEKE

Making Waiheke Island the world's first predator-free urban island

Imagine Waiheke Island being a haven for unique and ancient species of birds, lizards, insects and plants, a place of exceptional beauty for both current and future generations!

Te Korowai o Waiheke is a charitable trust established by the local community to eradicate predators from our beautiful island. The first stage of the Te Korowai o Waiheke project is a stoat eradication island-wide. The second is a series of rat pilot operational trials to understand how to remove rats from the whole of Waiheke.

<https://tekorowaiowaiheke.org/>

Problem Statement

- Te Korowai o Waiheke embraces Te Ao Maori and the values of Kaitiakitanga and Maturanga.
- As the Te Korowai o Waiheke project (*and other Predator Free 2050 Projects*) progress, the numbers of invasive predators drops - but it becomes harder to catch the last evasive ones.
- Maramataka (the Māori lunar calendar) has been identified as a potential aid for Te Korowai o Waiheke and other predator-free groups to increase the effectiveness of trapping efforts.
- Currently there is no digital method of correlating historical animal catch and/or sighting data from across New Zealand to traditional, localised Maramataka knowledge.

<https://www.tepapa.govt.nz/discover-collections/read-watch-play/maori/matariki-maori-new-year/how-use-maramataka-maori-lunar>



Desired Outcomes

- Ability to digitally compare Predator Free 2050 project datasets (utilising the gregorian calendar) to localised Maramataka phases.
- Subsequent analysis / overlays to identify and other environmental factors that ay correlate (temperature, rainfall etc)
- Ongoing investigation of the combined information to provide insights into supporting population growth of native species (particularly birds) through the enhancement of trapping techniques – or other methods.

Source Data

- Maramataka Calendar (varies by region) - 30 specifics days and 10 distinct phases per month.
- Stoat sighting and catch data (from Waiheke), catch/sighting data from other predator free groups (could be stoats + other mustelids)

