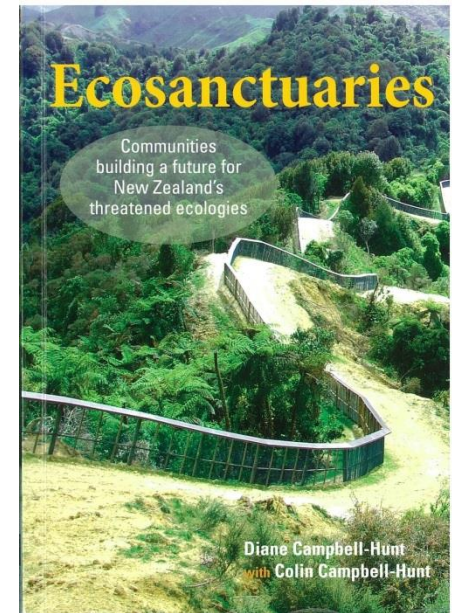


14th Sanctuary Workshop: Banks Peninsula



Maungatautari 2016

John Innes
Landcare Research
HAMILTON



Otago University Press 2013

Tues. 8 August 2017



C. Watts

Previous workshops

- 2004 Maungatautari
- 2005 Tawharanui
- 2006 Te Kauri
- 2007 Silverstream (Zealandia)
- 2008 Wanganui (Bushy Park)
- 2009 Havelock North (Kidnappers)
- 2010 Great Barrier Island (Glenfern, Windy Hill)
- 2011 Nelson (Rotoiti, Brook)
- 2012 Taranaki (Rotokare)
- 2013 Shakespear
- 2014 Dunedin (Orokonui)
- 2015 Auckland (Ark in the Park)
- 2016 Hamilton (Maungatautari)
- **2017 Banks Peninsula (BPCT, Wildside, Chch City)**



Kidnappers2009

What are 'biodiversity sanctuaries'?

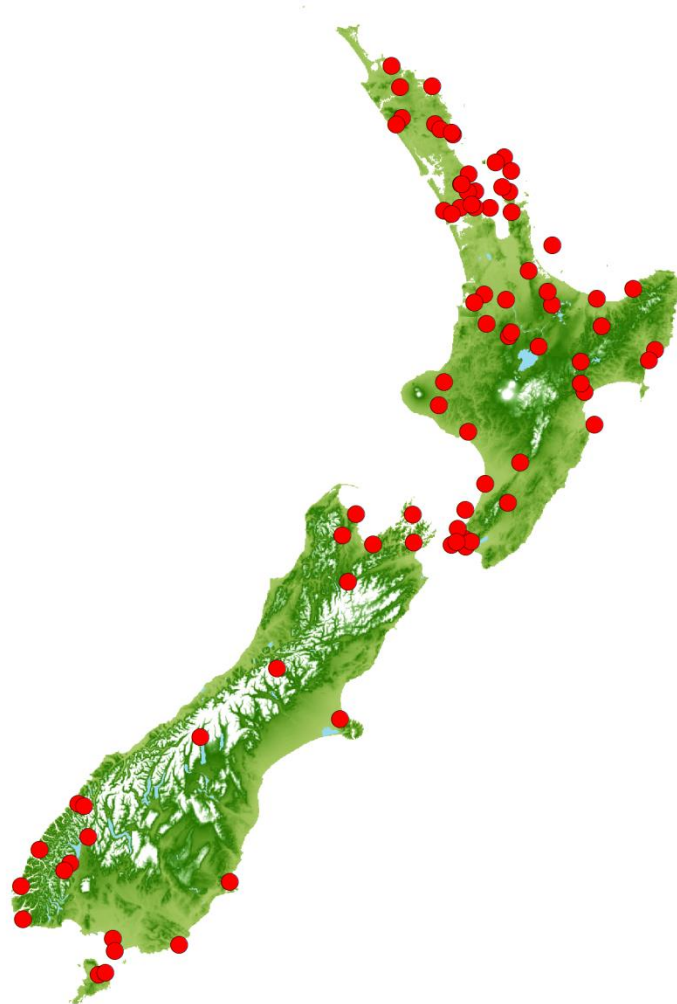
Sites that:

- experimentally restore NZ ecosystems to indigenous dominance and full species complement
-
- control or eradicate a broad suite of pests with best practice techniques
 - reintroduce missing species
 - manage a permanent and substantial risk of pest reinvasion
 - inspire and galvanise communities to local conservation

We identified 82 such projects on or near the
NZ mainland

SANCTUARIES

Aongatete Forest Restoration Project
 Arthur's Pass Wildlife Trust
 Ark In The Park
 Bluff Hill
 Boundary Stream Mainland Island
 Bream Head Conservation Trust
 Brook Waimarama Sanctuary
 Bushy Point Restoration Project
 Bushy Park
 Cape Sanctuary
 Cleddau Delta
 Te Puka - Hereka / Coal island
 Dancing Star Ecological Preserve
 East Taranaki Environment Trust
 Eglinton
 Friends of Flora
 Kotuku Peninsula Sanctuary
 Habitat Te Henga
 Halfmoon Bay
 Project Island Song
 Project Janszoon
 Kaipupu Point Mainland Island
 Kapiti Island
 Zealandia
 Kepler Peninsular Conservation Project
 Long Point
 Longbush Ecosanctuary
 Mahakirau Forest Estate
 Mana Island
 Manawatu Estuary
 Mangaokewa Reserve
 Matakohe / Limestone Island
 Matiu / Somes Island
 Maungataniwha
 Maungatautari Ecological Island
 Tuhua / Mayor Island
 Port Charles Rat Attack
 MIRO
 Mokoia Island
 Motu Kaikoura Trust
 Motuihe Island



Motuora Island
 Pukaha Mt Bruce
 Ngapukeariki Mainland Island
 Te Urewera Mainland Island
 Orokonui EcoSanctuary
 Otanewainuku
 Otari - Wilton's Bush
 Pikiariki Ecological Area
 Pirongia
 Pomona and Rona Islands
 Poutiri Ao o Tane
 PRR / Kaki
 Pukenui Forest
 Puketū Forest
 Pupū Rangi Nature Sanctuary
 Otamahua / Quail Island
 Rangitoto - Motutapu Islands
 Resolution Island
 Rotoiti Nature Recovery Project
 Rotokare Scenic Reserve
 Rotoroa Island
 Secretary Island
 Sinbad Sanctuary Project
 Shakespear Open Sanctuary
 Taurikura Ridge Landcare
 Tawharanui Open Sanctuary
 Te Kauri - Waikuku Trust
 Te Kōpi Biodiversity Project
 Tiritiri Matangi Island
 Totara Reserve
 Trounson Kauri Park
 Waikawau Bay Wetland Project
 Wainuiomata Water Reserve
 Waipapa Ecological Area
 Wairakei Golf Course
 Waitemata Coastal Sanctuary
 Wenderholm
 Whakaangi Landcare Trust
 Whakatane Kiwi Project
 Windy Hill - Rosalie Bay
 Young Nicks Head

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HABITAT TE HENGA

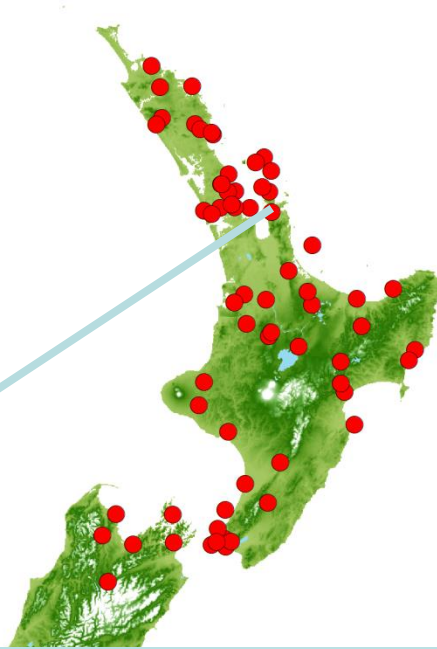
- AIM: Improve existing biodiversity and plan for new
- 500-600 ha incl private, Akld Council, DOC, F & B
- Target mustelids (whole area), cats (some sites), rats (F & B)
- Has matuku, matata, crakes, grey-faced petrel, diving petrel, flesh-footed and sooty shearwaters, pipits, NZ & banded dotterel
- First translocation: pateke, Jan. 2015
- John Sumich et al.



Waipapa Ecological Area
 Wairakei Golf Course
 Waitemata Coastal Sanctuary
 Wenderholm
 Whakaangi Landcare Trust
 Whakatane Kiwi Project
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MAHAKIRAU FOREST ESTATE

- Community-managed ecological restoration in the Coromandel Range
- AIM: Be 'wellspring' for native flora and fauna
- 580 ha private land, involving QEII, DOC, Waik. Reg. Council, Akld Zoo, Kiwis for Kiwi, Otago and Massey Universities,
- Target mustelids (450 ha), possums & rats (550 ha)
- Has Coromandel striped gecko, Archey's and Hochstetter frogs, kaka, kiwi, Helm's butterflies, painted cave weta, longfin eel, kokopu spp.
- Tim & Jude Hoosen, Sara Smerdon et al.

Future role of sanctuaries?

- Offshore eradications → mainland islands → diverse sanctuaries/scales
- Predator Free NZ Trust est. 2013
- SONZI incorporated July 2014
- PFNZ announced July 20 2016
- PF2050 Ltd board appointed Nov. 2016; CE Ed Chignell appointed June 2017

2025 goals:

1. To develop a new technique capable of eradicating one of the target species
2. To achieve eradication of targets on 20,000+ ha without a fence
3. To suppress targets on a further MILLION ha
4. To eradicate all predators from offshore island nature reserves

Sanctuaries:

1. Have been living and breathing PFNZ for years
2. Are likely to be the cores of 'core and buffer' restoration zones
3. Depend on the hearts and minds of volunteer NZers
4. Have no obvious impending funding support.

Today:

- **0930 Introduction JI**
- 0945 Grant Ryan - Cacophony project
- 1015 Rachelle Binny, Landcare Research – Biodiversity outcomes from fenced sanctuaries and mainland islands
- 1045 Bruce Warburton, Landcare Research – Pest control ethics and humaneness
- 1115 Deb Wilson, Corinne Watts, Landcare Research – Mice alone and their biodiversity impacts: a 5-year experiment at Maungatautari.
- 1145 Daniel Collins, NIWA - Climate change: a moving target in sanctuary management
- **1215 LUNCH**
- 1300 Colin O'Donnell, DOC – Mammal predation in forests, mountains, wetlands and riverbeds, and a bat update
- 1400 Jessi Morgan, Predator-free NZ – PFNZ update
- 1430 John Parkes, Consultant – Is PFNZ feasible with current techniques, and if not, what are alternatives?
- **1500 AFTERNOON TEA**
- 1530 Janet Wilmshurst, Landcare Research – Using palaeoecology to help inform present day conservation of species and ecosystems with relevance to sanctuaries
- 1630 Paul Scofield, Canterbury Museum – What does 'ecosystem restoration' mean and is it just meaningless nonsense?
- **1700 END**
- **1800 DINNER**