



MIRO Past and Future —People, Pests and Plants

Jo Greenman and Terry Webb







Photo: Jill Bagnall



The Organisation—Part 1



- Jun 1998: Some EHEA members propose establishing a Mainland Island in the Northern Forest
- Aug 1998: MIRO subcommittee of EHEA formed; local Iwi consulted about MI concept
- Nov 1999: Agreed that finances to be separate from EHEA
- Nov 2001: Long-term objective is to establish a Mainland Island, but extent uncertain
- Mar—Oct 2003: GW takes over EHRP responsibility from HCC, meets with MIRO to discuss its activities; MIRO forms sub²committee to look at future directions, agreeing on:

Reintroductions Lakes block revegetation

Rata mapping Pest animal eradication

Pest plant eradication Administration

Reintroduction of plant species

A complete split from EHEA is suggested, not everyone agrees!

MIRO Committee Members

Ray Smith (Chair, 6y)

Jan Heine

Arnold Heine

Stan Hunt

Jill Bagnall

Ben Wiles

Gen Walcott

Keena Gibbs

Felicity Rashbrooke

Rob Harris

Jerry Wellington

Graeme Claridge

Gail Abel

Alan Bagnall

Reg Cotter

Bob Brockie

George Gibbs

Derek Sale

Owen Spearpoint

Chris Morey

David McDougall

Graham Maxwell



The Organisation—Part 2



- Mar 2004: "Need a coordinated programme" Gail (Chair from Aug)
- Jan 2005: Mission Statement adopted by MIRO:
 - Protection and restoration of native species
 - Elimination of pests
 - Reintroduction of native species
 - Achievement of our vision through involvement and advocacy
- Feb 2005: MIRO Subcommittee organised into:
 - 1) monitoring/predator control (including Lakes revegetation)
 - 2) administration/sponsorship 3) pest plants 4) bird translocations Agreed to move to independent status as a priority
- 2005/06: EHEA committee and then AGM formally advised of separation
- Apr
 –Jul 2009: Draft constitution approved by MIRO subcommittee;
 MIRO becomes an Incorporated Society and then a registered charity
- April 2010: mission statement, guiding principles and actions agreed
- (February 2011: Baring Head becomes part of EHRP)

MIRO Committee Members
Gail Abel (Chair, 6y)
Russell Bell
Pene Burton
Maureen Hines
Kevin Bateman
Erik Vanderspek
Mike Rumble
Parker Jones
Doug Mercer
Colin Ross

Doug Mercer (Chair, 5y)
Nick Pharazyn
Keith Levy
Linda Mead
Sally Bain
Terry Webb

Terry Webb (Chair, 7y...)
Bjorn Johns
Robin Conner
Ian White
Manus Chakraborty
Pamela Hyde
Oliver Seiler
Ben Bruno
Heidi Peck



Trying to Help the Birds



Birds counts were started in 1999 and continue to this day

Robin translocation



River, monitoring showed wide dispersal 2011 & 2012 – 80 more from Kapiti Island A well-executed project, lessons learned Due to wide dispersal and forest size, this project was not continued, but at least we tried.



Acoustic recorders

2017 – 5 acoustic recorders deployed to record bird song and Bats

2020 – Kiwi reported near Wainuiomata

2021 – now 10 recorders deployed across 20 sites each winter

To date no kiwi or bats have been detected





Tūturiwhatu/Banded Dotterels



2014 – Dotterel monitoring starts at Eastbourne with 2 pairs Today – 30 to 40 nests monitored across 3 sites: Eastbourne, Roto Parangarahu and Ōrua Pauanui/Baring head

- 100s of monitoring trips annually
- Volunteers make a huge effort erecting temporary fences and signage.
- Iwi place Rāhui
- Trapping networks, including cat traps, have been set up for protection
- Education campaign to address the cat predation















All Things Trapping – Possums



- Possum Busters late 1990's
- GW-led possum removal late 2001:
 Residual Trap Catch (RTC) index plummets
 3-yearly control campaigns considered
 5% target RTC

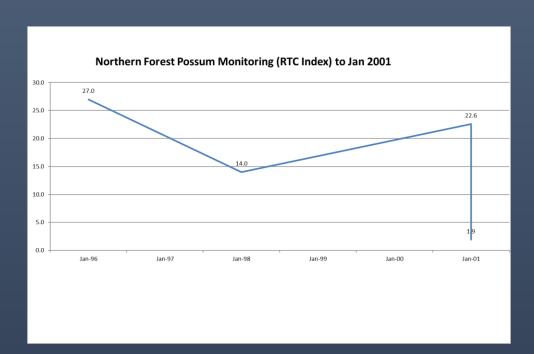
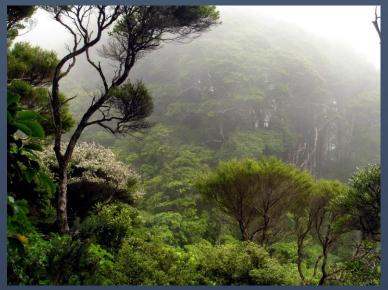




Photo: Phil Benge?





Possums continued...



- 2002: Damage to gardens at forest edge
- Reactivate possum busters? 30 more traps ordered
- Some individual traplines operating in the Forest, with regular catches
- 2004: GW propose establishing more traplines for MIRO



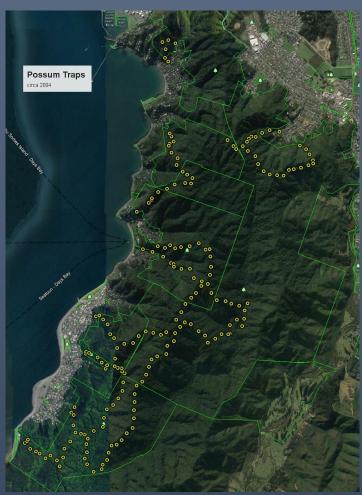


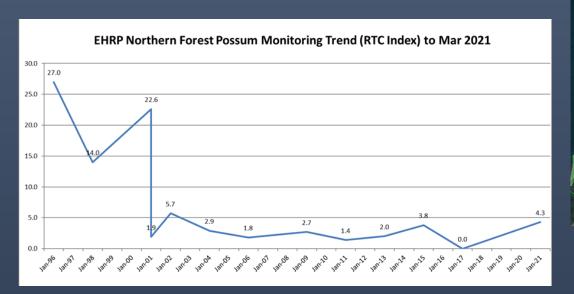
Photo: Gail Abel

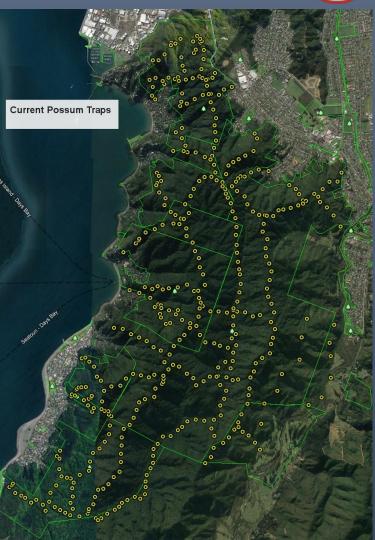


Possums continued...



- Further traplines established to give more complete coverage
- RTC index maintained at low level
- OSPRI involved because <2% RTC required to remove Bovine TB
- Future:
 - 1 trap/ha!
 - Gapfilling?







All Things Trapping — ERAT



- 2016: Project kicked off by Sally Bain with community meeting; already 20 A24s supplied by HCC deployed on loan
- 2017: \$35k MfE grant secured plus HCC contribution
- Over 3 years:
 - 150 foreshore DOC200s installed
 - Over 400 households trapping (including ~100 DOC200s)
 - Regular monitoring in place:
 - Rat tracking now at about 5%
 - Hedgehogs at about 17%!!
- Future:
 - Bird protection areas for shared path (with funding)
 - Better baiting?
 - Hedgehog control (A24's?)





All Things Trapping – Mustelids (and Hedgehogs)



- 2003: reluctance to trap stoats (thought to control rat population)
- 2008: only a few stoat traps in use
- 2010: stoat traps being assembled for Middle Ridge (MI)
- 2013: 27 DOC200s in place around
 MI, 39 more needed to cover it
- 2017: Forest-wide DOC200 network in place
- 2019: Feral cat trap network added
- 2020: Kiwi Corridor extension
- Future:
 - Better baiting?
 - Interpreting motolure data?





All Things Trapping – Rats!



- 2002: Early rat trapping (e.g. 87 traps near Hawtrey)
- 2006: GW established Mainland Island
- MI extended, then partly intensified in 2010
- 2015: Further MI extension postponed
- 2017: Trial of A24 traps shows low catch rate
- 2023: GW approves installation of radio gateway for small trial network
- Future:
 - Forest-wide rat control desirable
 - Done elsewhere in NZ on this scale
 - Must be long-term sustainable, so efficient, hence radio trial
 - Targeted trapping may help, but need to handle mast years





Plants Galore!



Roto Parangarahu and **Baring Head/**





Seed Collection, Raising and Departure













15 Planting Plots

















Plot 1







Plot 2







So much growth we cut down Ngaio to plant the future canopy trees like Rata and Miro



Plots 3 & 4













Plots 9,10 and 11









Plot 13





Human chain gang to get the plants to the top of the plot



First secondaries going in





Plot 14









Freedom Planting





















Going Forwards



- Contractors are planting 900 plants this year
- Keep the stock out
- Keep controlling pest animals
- More freedom planting
- Protector & Planting plot fence removal...











MIRO's Plants



Taranaki Whānui ki Te Upoko o Te Ika, Tangata whenua hands on

reconnecting with the whenua











Baring Head/Ōrua Pouanui





- Miro Nursery has suppled over 5,000 Plants for /Baring Head/Ōrua Pauanui since 2013
- Up to this year focus has been on the revegetation of the river Valley
- 64,000 plants planted by the end of 2023



Climate Emergency declared

- Low Carbon Emissions funding
- Grazing retirement Feb 2023
- Pest animal and plant control
- Wildfire risk assessment
- Fire break development



Baring Head/Ōrua Pouanui





















Baring Head/Orua Pouanui









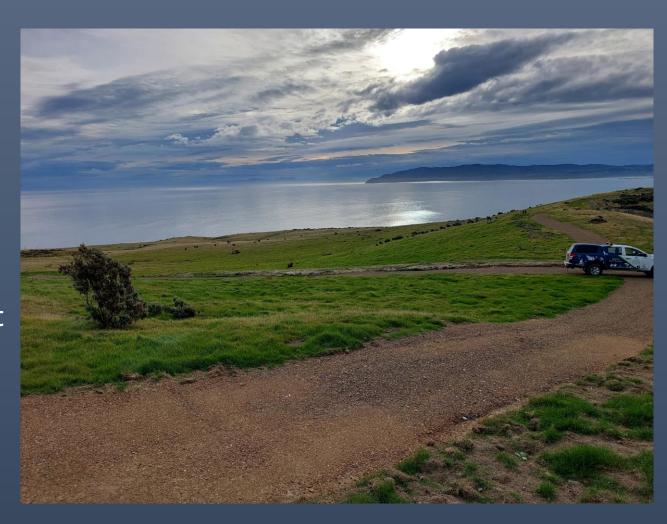




Going Forwards



Now there are vast areas to revegetate with a special mix of grey scrub and stunted coastal forest





Breadth of Activities



1998-2004

About 15 individual projects:

Rata aerial photos & photo points

Rata bands mapped

Hinau seed monitoring

Tree flowering and fruiting measurements

Deer exclosure plant survey and comparison plot

Mistletoe protection

Shop Window planting and protection

Helping GW with invertebrate pit fall traps

Bibliography

Fact/information sheets

Quarterly bird counts

Pest trapping and monitoring:

Possum control with at least 5 trap lines

Mustelid trapping (~30 DOC200s)

Mainland Island Habitat (87 rat traps)

Rat monitoring

2023

Pest trapping & monitoring

Revegetation

Bird monitoring & protection

Publicity

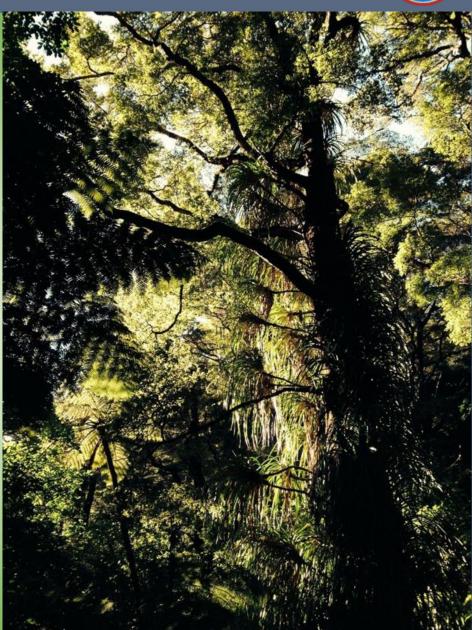


We Need Your Help!



- Get stuck in on the ground
- Committee member, Secretary, Publicity/Social media
- Help with the other key projects
 - Radio linked traps project
 - Dotterel monitoring
 - > Translocations??
- Pick a project and see it through
- Create your legacy









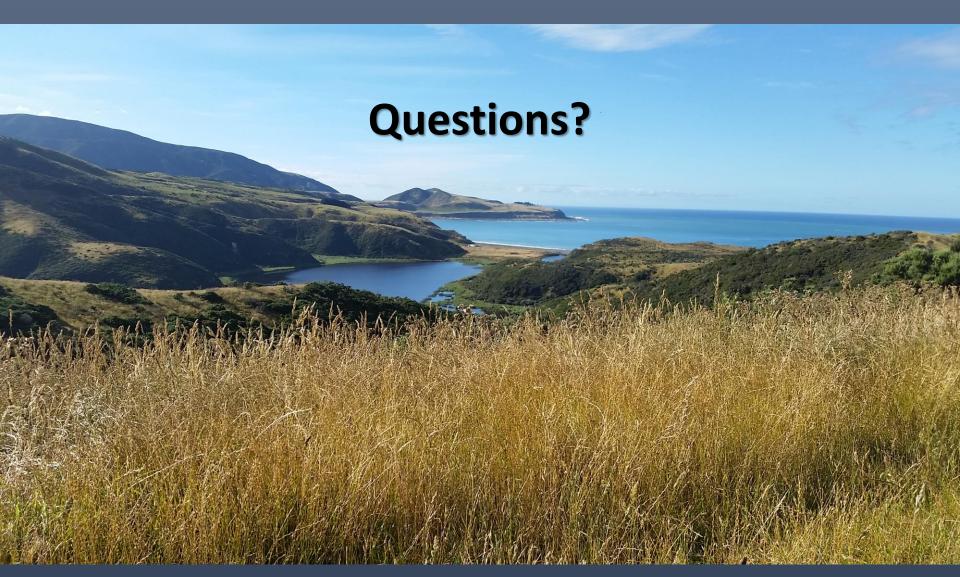


Photo: Parker Jones

THANKYOU GAIL Millions of seeds collected

- 24 years MIRO membership 46,000 Plants grown 1,000+ Plants planted to planting size
- 7 years as Treasurer 1999-2006
- 6 years as Chair 2004-201005 Volunteers
- Convenor of bird counts for 24 years
- Helped to develop formal trapping lines, counts
 - recruited (Changeers & had her own line
- Managed the MIRO nursery for 17 years and
 - Atil Francial reports

trapped

180 MIRO meetings

47 bird