



Re-musseling the Gulf

Restoring the biogenic kūtai reef habitats of
Tīkapa Moana / Te Moananui ā-Toi / The Hauraki Gulf



The Mussel Reef
Restoration Trust
Te Ohu Whakahaumanu
i ngā Ākau Kūtai



THE UNIVERSITY OF
AUCKLAND
Te Whare Wānanga o Tamaki Makaurau
NEW ZEALAND





Provides

Diversity.

A single
litre

of green-lipped mussels
filter 100 litres of water per day.

have 10x the blood
of a fish (McLeod 2005)

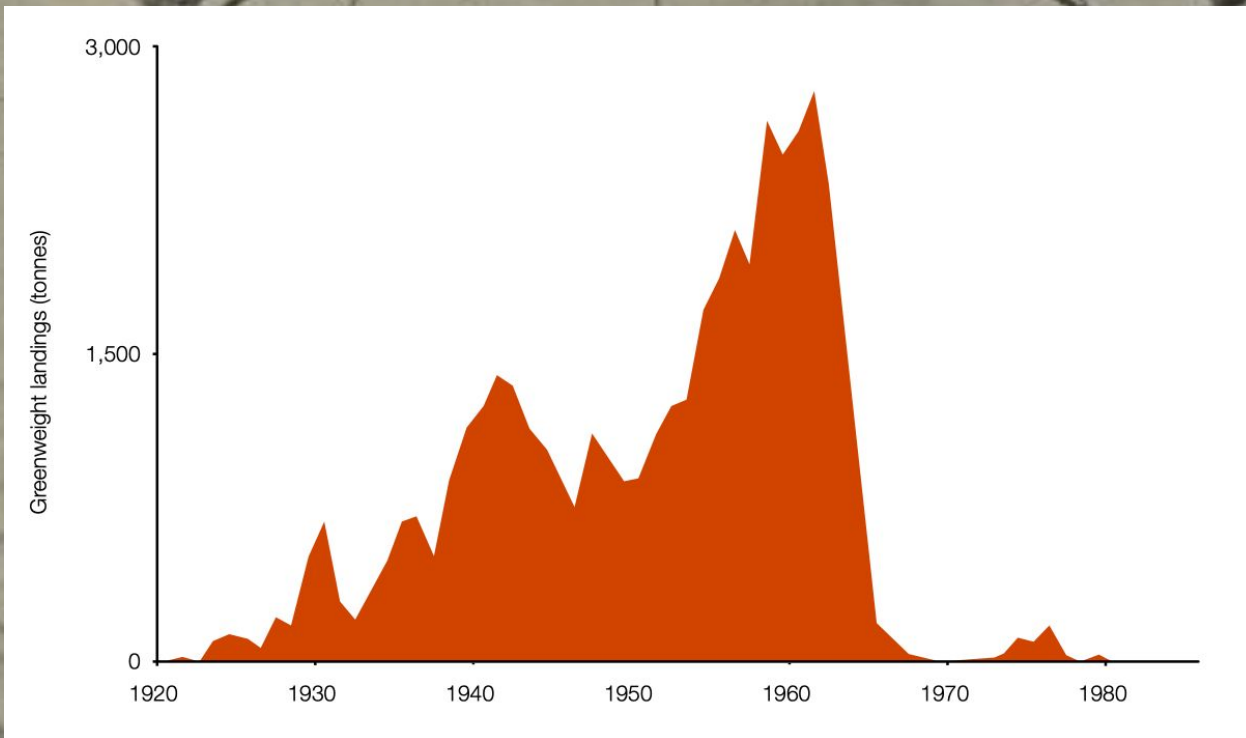
-  Dredged area
-  Dense beds



WAIHEKE

CBD

FIRTH OF THAMES



Sir George Grey Special Collections, Auckland Libraries,

AWNS-19371110-49-4



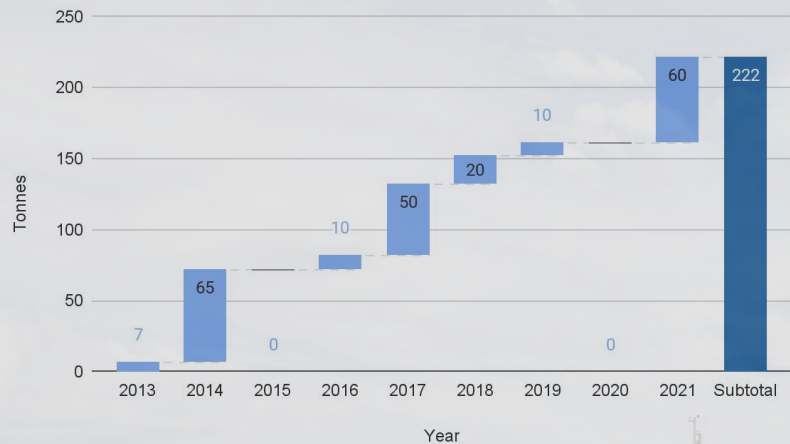
Photo: Geoff Reid



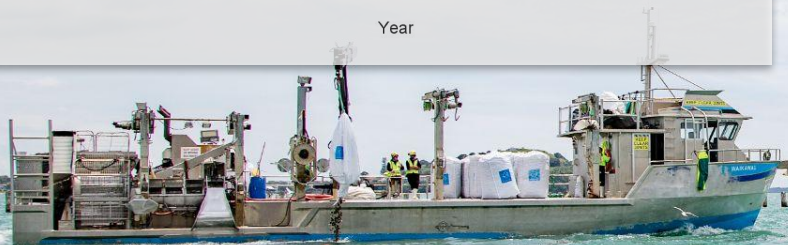
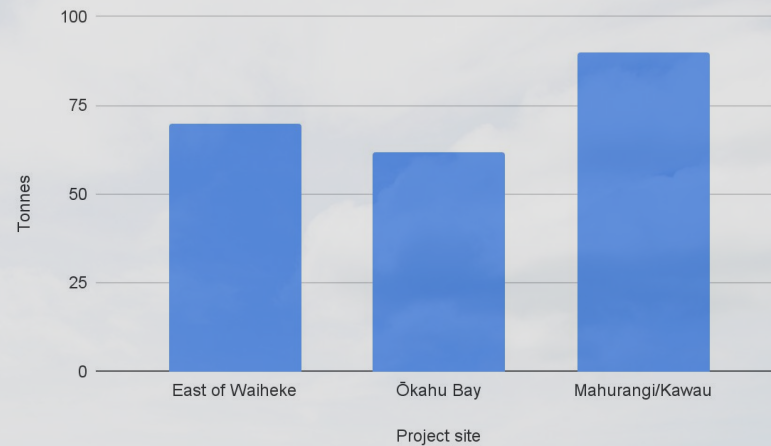




Tonnes of mussels deployed



Deployment sites



Floats off...



Low levels of larval/spat in the Gulf

Settlement and metamorphosis

Predation

Nothing to resettle on

Nothing to settle on

Broadcast spawning

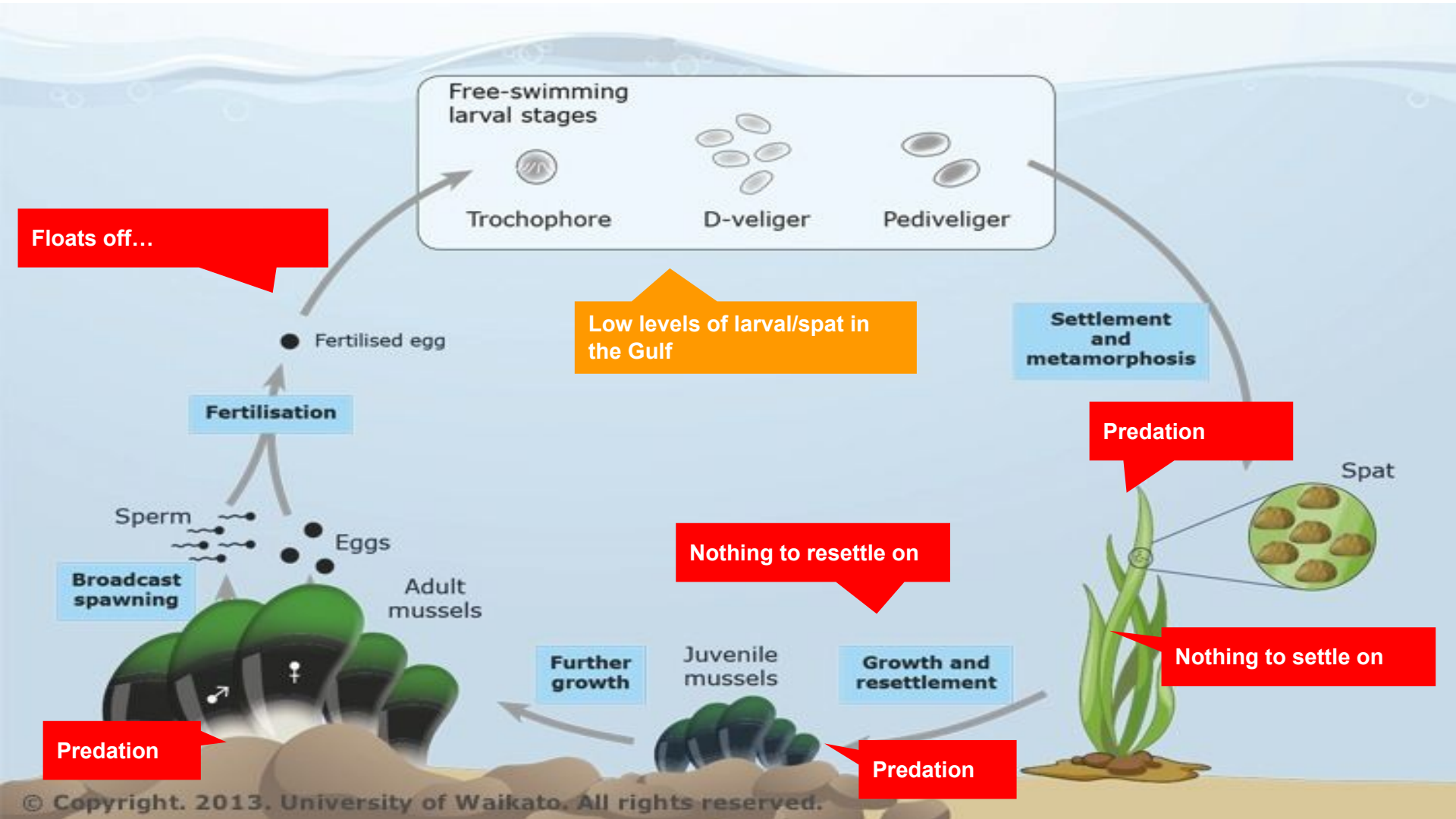
Fertilisation

Further growth

Growth and resettlement

Predation

Predation



Political & social will

- Awareness of the plight of the Gulf. The Hauraki Gulf Forum *big goal* of 1,000 sq.km of restored shellfish beds.
- Central govt [Revitalising the Gulf](#) strategy. HPAs, active habitat restoration & Ahu Moana.
- [Changing attitudes](#) in recreational fishers, e.g. death of the dredge, limiting take, MPAs
- Recognition of the value of [Te Ao Māori values & perspectives](#), e.g. rāhui, kaitiakitanga.

+

Capability & capacity

- Rising awareness and interest in marine conservation & restoration. [NGOs taking action](#).
- Mana whenua as [kaitiaki](#) keen to take a leadership role in a post-settlement era.
- [Volunteers and citizen scientists](#) from wider community keen to lend a hand.
- Developing [know-how](#) from western science, mātauranga, aquaculture and engineering.

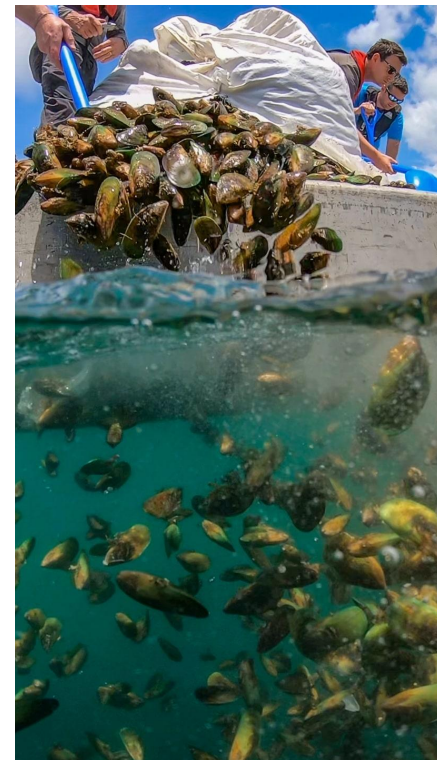
+

Funding

- [Philanthropic](#) funding (yay boomers!)
- [The Challenge Fund](#)
The Nature Conservancy & Foundation North
- The [Hauraki Gulf Regeneration Fund](#)
Auckland Foundation
- [Public funding](#) from local & central govt.
- Potential [novel funding models](#) nitrogen & carbon credits; blue restorative economy models.

=

Mussels in the water!



Become a supporter! You're in great company

CORE COLLABORATORS



IWI KĀINGA



PRINCIPAL PARTNERS & FUNDERS



PROJECT SUPPORTERS & CORPORATE SPONSORS





Ngā mihi!

Stay in touch, join our mailing list at
www.reviveourgulf.org.nz



**The Mussel Reef
Restoration Trust**
Te Ohu Whakahaumanu
i ngā Ākau Kūtai



**THE UNIVERSITY OF
AUCKLAND**
Te Whare Wananga o Tamaki Makaurau
NEW ZEALAND