

# Project Hotspot is Rubbish

Dr Emily Roberts

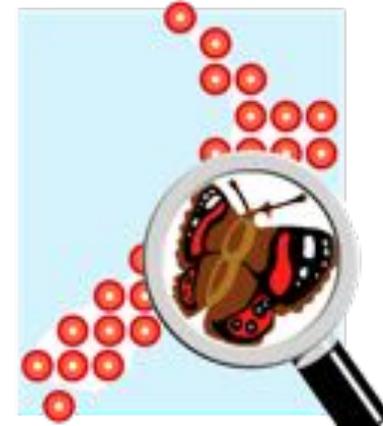


## Aim of Project Hotspot:

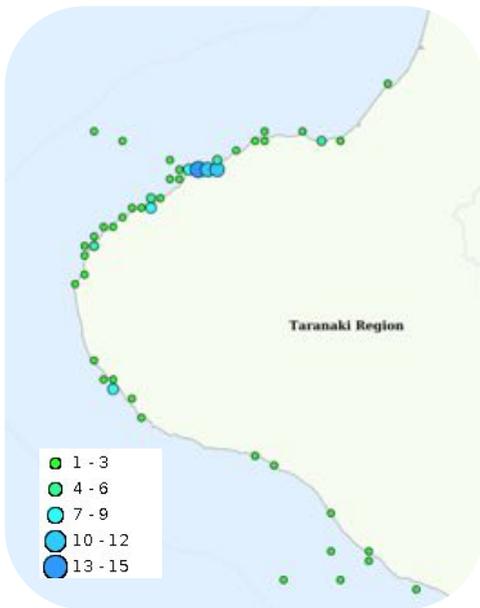
- Capture local knowledge
- Four coastal threatened species
- Better protect these species and their habitats



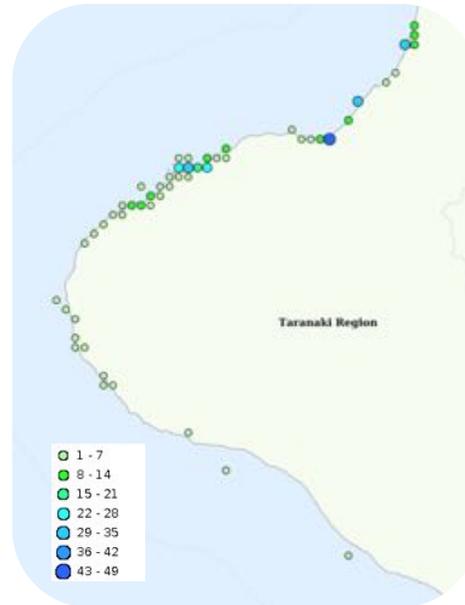
# Nature Watch NZ



Orca sighting per 4 km<sup>2</sup>



Penguin sightings per 4 km<sup>2</sup>



Reef heron sightings per 4 km<sup>2</sup>





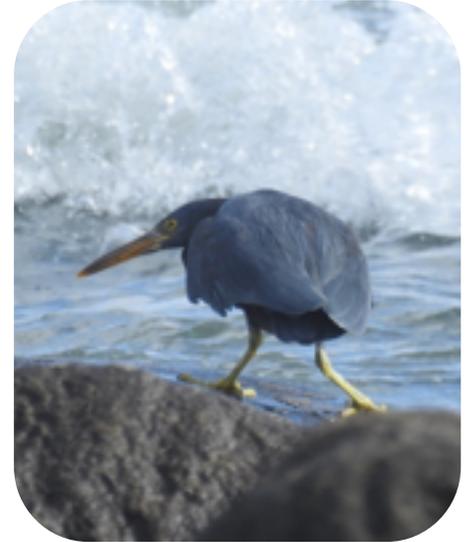
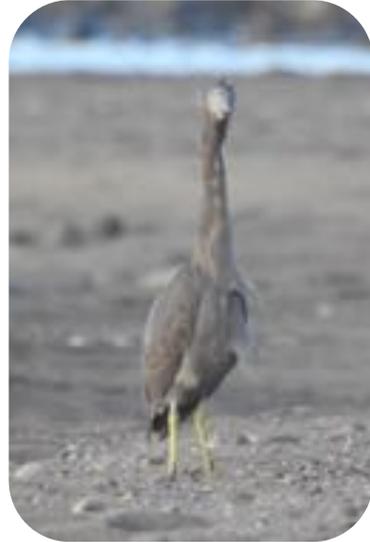
Jasmine Newsome

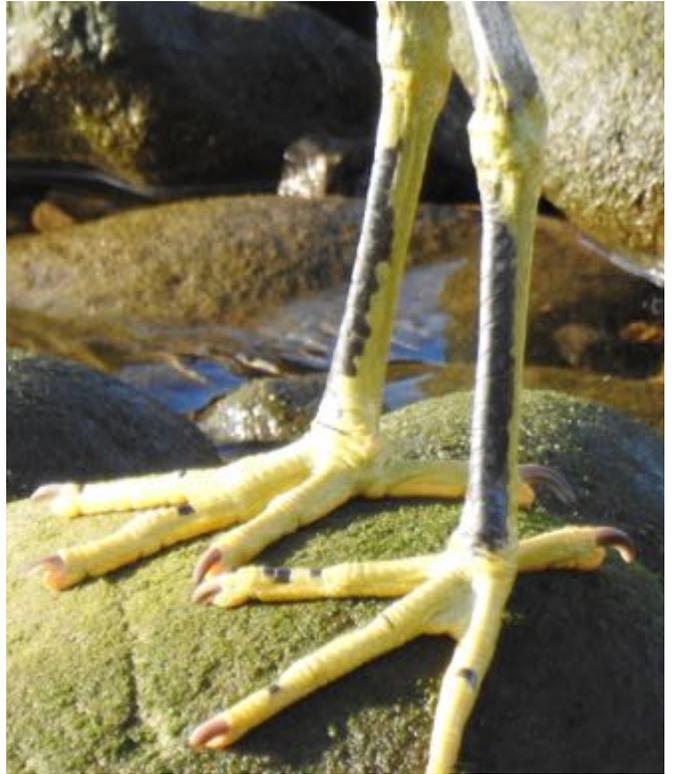


Ian Steel



Andrew Wright





Led by:



Supported by: **Scientists**



M.A.I.N. Trust NZ  
Mapping, Analysis and Information Network Trust, New Zealand



Run through:  
**Schools**



**End users**

Decision makers  
Community grps  
Industry

**Community**

Capture local  
knowledge

Critically  
assess data

Ask questions  
and formulate  
hypotheses

Design &  
conduct  
investigations

Communicate  
& educate

**CITIZEN SCIENCE**

**MAKE A  
DIFFERENCE!**





**Project Hotspot  
LITTER FIELD SHEET**

Location: Tapuae Marine Reserve (KNE)  
 School: Okura  
 Date: 15 June 2016  
 Times:  
 Team leader name:

Item	N	Years to break down	Tally (i.e. IIII)	Total
<b>Top ten most found</b>				
Cigarette butts	29	5		
Plastic bottle	14	450		
Food wrapper	12	30		
Plastic bottle cap	12	-		
Straws	6	-		
Other plastic bag	6	1 to 20		
Glass bottle	6	-		
Plastic grocery bag	6	1 to 20		
Metal bottle cap	5	-		
Plastic lid	5	-		
<b>Other items</b>				
Unidentified plastic	-	-		
Fishing line	-	600		
Rope	-	-		
Tin can	-	50		
Aluminium can	-	200		
Polystyrene	-	-		
Other	-	-		
Micro-plastic <2.5 cm (see top right)				
Most unusual item				

← Project Hotspot litter field sheet

Compare Taranaki findings with top 10 items found internationally



# Oakura School Tapuae Marine Reserve



# Highlands Intermediate Tapuae Marine Reserve



















**Allen Stancliff**  
**Field Officer**



“We looked at the wads and a lot of the are from **lead shot ammunition** and so we twigged out they might well be from a **club shot** that's near the **Manganui River**, which is a **tributary of the Waitara River.**”

“This club shoot that they hold in March each year is a little unusual in that four of the **sites are over water**”



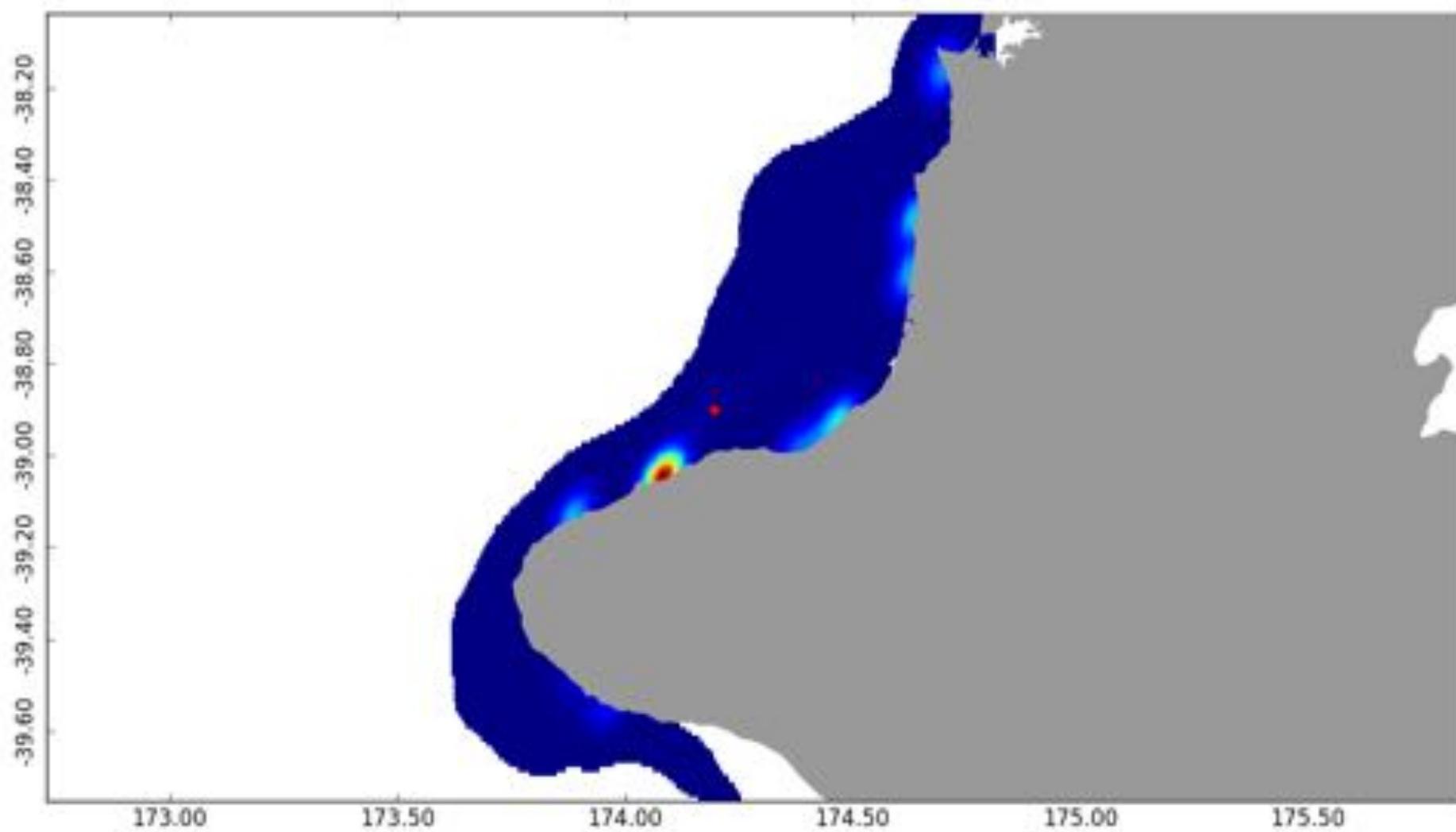
## Mariana Horigome Project Oceanographer



**M E T O C E A N**  
S O L U T I O N S

- MetOceanTrack modelling tool:
- Marine particle tracing software developed by MetOcean Solutions

01-06-2009 00:00





## Pogal Moratti Inglewood Rod & Gun Club



“We're lobbying to change everything, ammunition companies and all that, and this year **we've phased out plastic wads** and we're all **fibre wads** so they are **biodegradable** and they just dissolve.”

NEW ZEALAND / ENVIRONMENT

# Shooters urged to adopt environmental-friendly ammunition

8:57 am on 7 December 2016

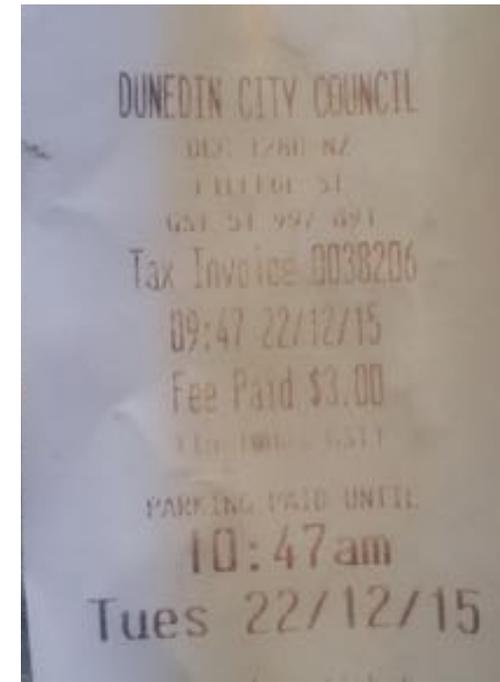
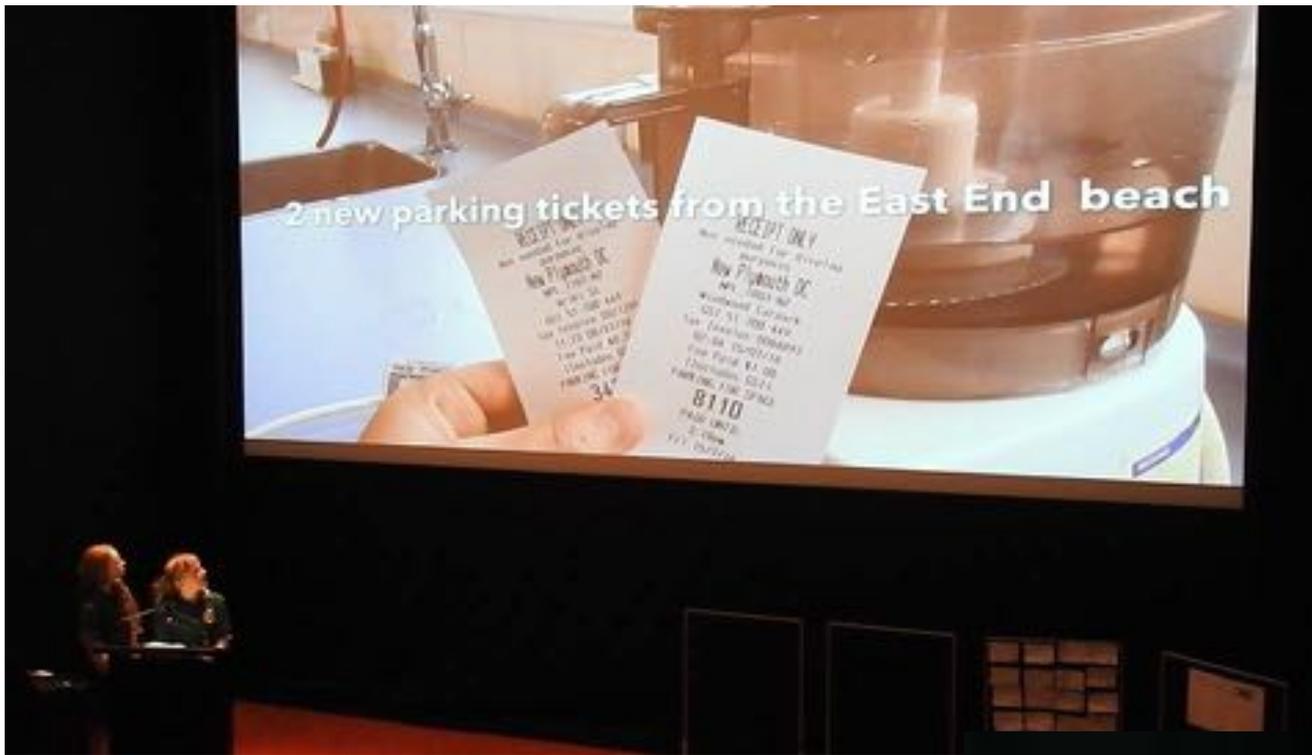
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**Robin Martin** Taranaki Reporter [@robincharles.robin.martin@rnz.co.nz](mailto:robincharles.robin.martin@rnz.co.nz)

Shooters are being urged to adopt environmental-friendly ammunition after a students doing a school science project found thousands of plastic shotgun wads littering Taranaki beaches.







## Young scientists spot problem with New Plymouth council's plastic parking tickets

HANNAH LEE

Last updated 10:31, December 1 2015



SHAWN O'DONNOR/Duff.co.nz



# Project Hotspot outcomes:

## Great way to:

- Raise awareness about:
  - Coastal threatened species
  - Marine litter
- Engage community/schools
- Achieve positive actions





**Thank you!**  
[www.hotspot.org.nz](http://www.hotspot.org.nz)

