

Project Hotspot End User Workshop

Dr Emily Roberts



Industry

Planners



Use findings & results



Better protect coastal
threatened species in
Taranaki

Educators

Scientists

**Government
Authorities**

**Conservation
Groups**



Name:

Job/role:

How can you use PH results to better protect:

- Ideally an action specifically associated with your job/role
- Check: 'What can the results be used for'

Aim of Project Hotspot:

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



Led by:



Supported by: **Scientists**



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!**

The Policy

NZ Coastal Policy Statement 2010

Policy 11:

To protect indigenous biological diversity in the coastal environment:

a) Avoid adverse effects of activities on:

- i) Indigenous taxa that are listed as threatened or at risk in the New Zealand Threat Classification System lists***



The Policy



- For policy to work: more reliable records
- Build more accurate mapped information
- Freely available to everyone
- Lead to more informed decisions:
managing coastal environment



Record a Sighting



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Project Hotspot: Using
citizen science to better
protect coastal threatened

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Project Achievements

If we know
use this i

Orca

Kera wēra | Orcinus orca

Pods of orca are sighted at least several times a year in Taranaki coastal waters. In the past these sightings have often been poorly documented leading to fragmented records.



Report a Sighting

Report
sighting



Record a Sighting



« Projects

[Terms & Rules](#) | [Leave this project](#)



Orca Monitoring

Stats

Totals

137

Observations »

1

Species »

26

People »

Most Observations



emily_r

96 observations



highlands

12 observations



pierre_t

2 observations



xsainnz

2 observations

Most Species



pierre_t

1 species



clinton

1 species



emanning

1 species



john_barkla

1 species

Most Observed Species



Orca

134 observations

Record a Sighting

Interactive map: zoom



Members 21 members
View all members >>

Your membership 96 observations

Add from your observations
Download template for use in the bulk loader

Export observations
Atom / CSV

Usage stats

Download data as CSV file

Click on photo or map point to read sighting report

We need your help to find out more about orca. Enter your orca observations here and remember to add a photo if you have one. Whenever you see orca jot down those extra details for the fields below too. Orca/ Kera wēra are one of New Zealand's iconic marine species.

- NZ Threat Classification: Nationally critical.
- NZ Population: Less than 200.

Orca sightings wanted for Project Hotspot!

The aim of Project Hotspot is to capture local knowledge in Taranaki and orca/kera wēra is one of them! The project will be run through schools and be a series of groups to address the questions:

- o Where are the hotspots for these species?
- o Why do these hotspots occur?
- o What are the greatest threats to these species?

For more info go to www.hotspot.org.nz

Posted on December 05, 2015 04:29 AM by [shane_orca](#)

Recent observations View all >>

Grid List

1 ID RG Orca	1 ID RG Orca	3 IDs RG Orca	1 ID 3 IDs RG Orca
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Record a Sighting

Click to add new sighting

« Projects

Terms & Rules | Leave this project



Orca Monitoring

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Most Observations



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Most Species



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1 species



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1 species



emanning

1 species



john_barkla

1 species

Most Observed Species



Orca

134 observations

Record a Sighting

Add an observation to  Orca Monitoring

Add: [Batch](#) · [From list](#) · [Import](#) · [From photos](#)

What did you see? ID Please?

Was it captive / cultivated?

When did you see it?
(GMT+12:00) Auckland
e.g. "2016-06-20 16:05:23", yesterday at 4pm

Description

Where were you?
Name of the place you made the observation

Lat: _____ Lon: _____ [Edit](#)
Acc. (m): _____ Src: _____
[Other Coordinate Systems](#)

Map Satellite

Click the map to add a location.

Add media
[Add photos](#) [Add sounds](#)

Select one or more photos
 [Browse...](#)
 Sync obs. w/ photo metadata? [clear](#)

We also support [Flickr](#), [Picasa](#), and [Facebook](#) for image hosting.

[Link your Flickr account](#)
[Link your Picasa account](#)
[Link your Facebook account](#)

Fields for Orca Monitoring

Number of individuals *
Number of individuals observed together

Number of juveniles

Description of orca
Please record the size and shape of dorsal fin, distinctive markings, and any scars present

Orca activity
Pick one of the following categories

Direction orca heading in
Record the direction they were going

Estimated distance of orca from shore
Estimate distance from the shoreline (metres)

Threats to orca
Were any potential threats present? Choose from the list below

Seen from

Swell conditions

Orca ID confidence
** If unsure and a photo is available remember to tick the 'ID Please' box*

Most important button!



[Save observation](#) [Save and add another](#) [Cancel](#)

Sightings: Quality Control

« Your observations

Previous

Little Blue Penguin (*Eudyptula minor*) · Observed by emily_r · August 20, 2016 · 09:30 AM NZST

[Edit](#) [Copy](#) [Delete](#) [Add to favorites](#) [Identify](#) [Add to project](#) [Share](#)



Location: [Tapuae Taranaki \(Google, OSM\)](#)
⚠ Out of range! [Details](#)



Your ID:
Little Blue Penguin (*Eudyptula minor*)



Community ID:
Little Blue Penguin (*Eudyptula minor*)
[About](#)

2 people agree

Identotron



Photo © Emily Roberts, all rights reserved

[Add more photos](#)

Added: Aug. 21, 2016 13:39:05 +1200

Number of individuals NZ: 1

Number of individuals SEEN: 1

Projects



Birds of the World



CoastBlitz Tapuae



Little Blue Penguin Monitoring



Comments & Identifications



Your ID: **Little Blue Penguin** (*Eudyptula minor*)

Posted by you 1 day ago



lisa_bennett's ID: Little Blue Penguin (*Eudyptula minor*)

Posted by lisa_bennett 1 day ago



houi's ID: Little Blue Penguin (*Eudyptula minor*)

Posted by houi about 12 hours ago

Data Quality Assessment

Quality grade: **Research** [Details](#)



houi

Message

Follow houi

Profile

Observations

Calendar

IDs

Lists

Journal

Favorites

Projects



Dave Houston

I'm a Technical Advisor for the Department of Conservation in Auckland. My main interests are penguins and Chatham Island species, but dabble in anything.

Following 0 people

houi is not following anyone.

Observations

80

Species

76

Identifications

59

View Sighting Records



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Orca

Kera wēra | Orcinus orca

Pods of orca are sighted at least several times a year in Taranaki coastal waters. In the past these sightings have often been poorly documented leading to fragmented records.

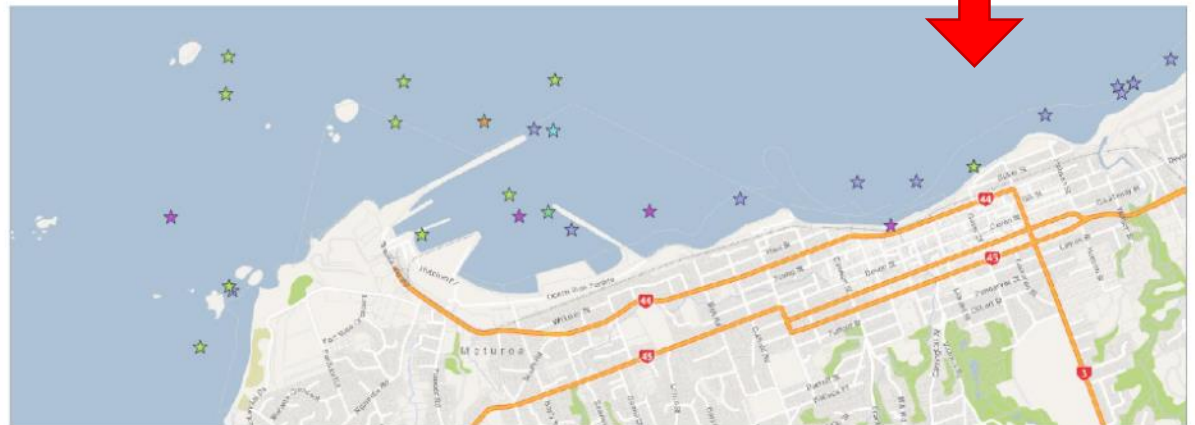


Report a Sighting

Orca Sightings

Report a Sighting

Click the map below to view sightings

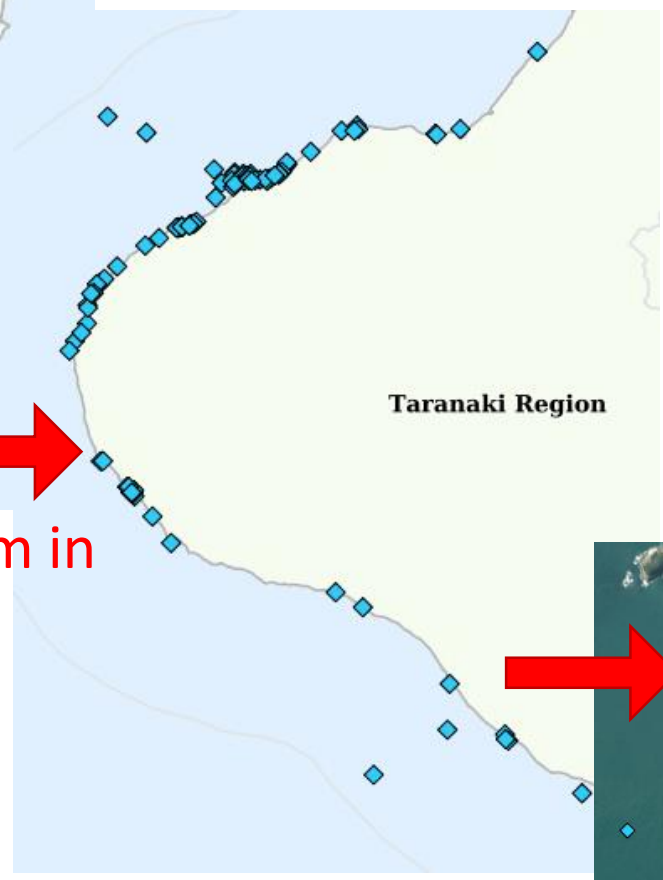


Click on map



Select layer →

Zoom in →



→



Hotspot Orca <<

Layers

+ Add - Rem. Prop. Table

Overlay layers

- Date of observation
- Feeding in the shallows
- Swimming
- Tail Slap
- Dead
- All Orca sightings
- Total orca count in 2km grid
- Total number sightings in 2km grid
- Gridline 2km
- Place names
- Regions

Base layers

- New Zealand
- LINZ Topo
- Aerials New Zealand

Legend

Save (print) map

Results: Orca

NZ Threat Classification: Nationally critical

NZ Population: Less than 200

Main threats: Boat strikes and pollution







Jasmine Newsome



Ian Steel



Andrew Wright



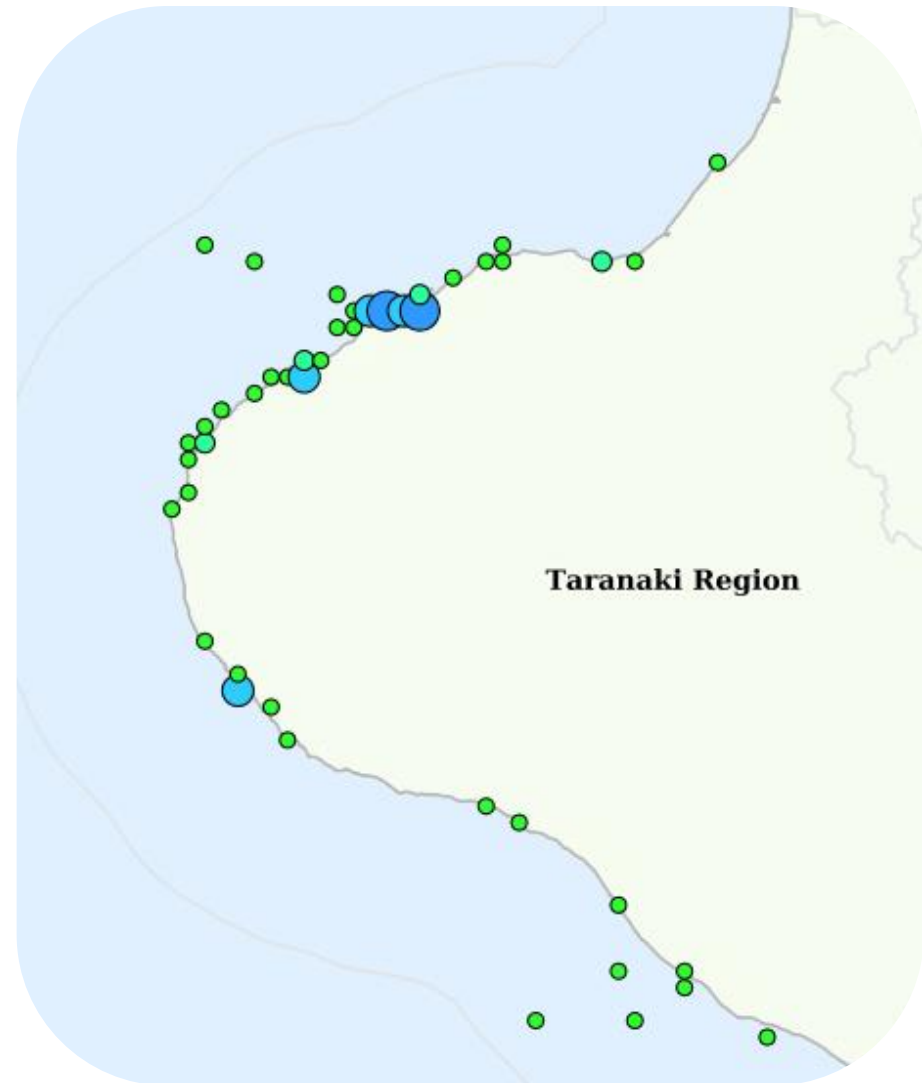
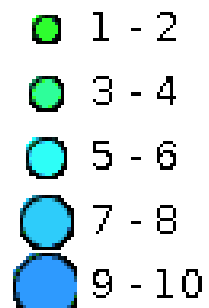
Orca sightings

114 sightings in total
(PH & DOC)

Since Nov 2015:

- 67 sightings
- 23 days

Number of sightings per 4 km² grid





Domi Nika Z Photography



Heli View

Raise awareness amongst vessel operators

Raise awareness of rules

What can the results be used for?

Project Hotspot

Inclusion in AEE

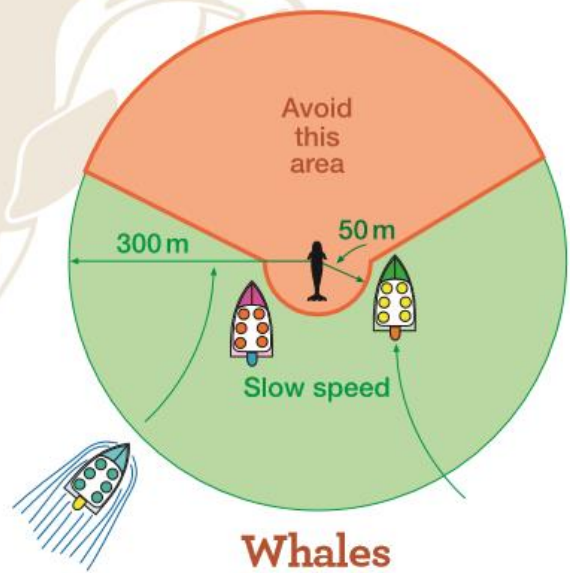
Inclusion in submissions

Scientific research

NZ Threat Classification

School projects





Results: Reef Heron



NZ Threat Classification: Nationally endangered

NZ Population: Only 300 to 500

Main threats: Coastal development and disturbance by people/dogs



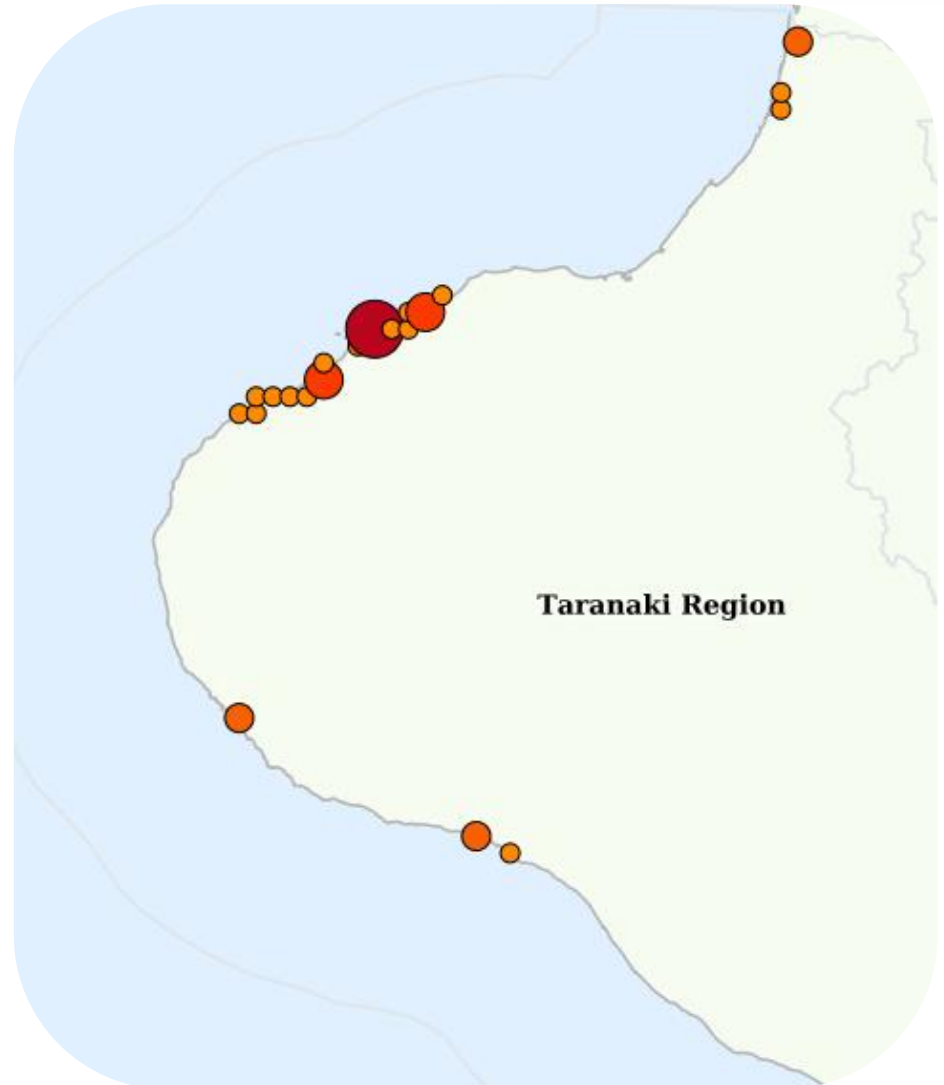
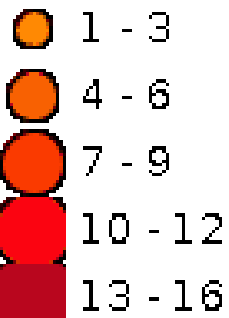
Reef heron sightings

69 sightings in total

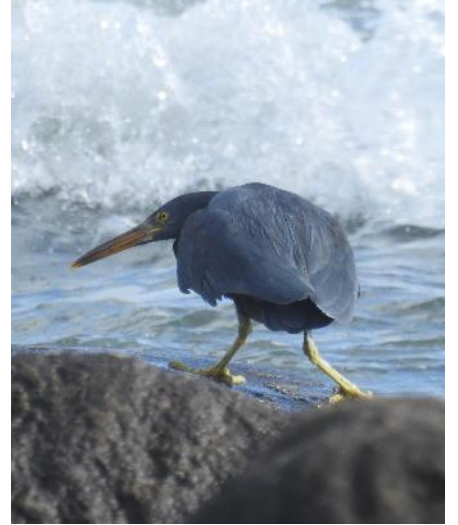
9 individuals

Check out the website:
www.hotspot.org.nz

Total heron count in 4 km² grid









Inclusion in submissions

Oil spill response plans

Inclusion in AEE

What can the results be used for?



Scientific research

NZ Threat Classification

School projects

Results: Little blue penguin

NZ Threat Classification: At risk, declining

NZ Population: 50,000 to 100,000 birds

Main threats: Predators, coastal development and marine litter



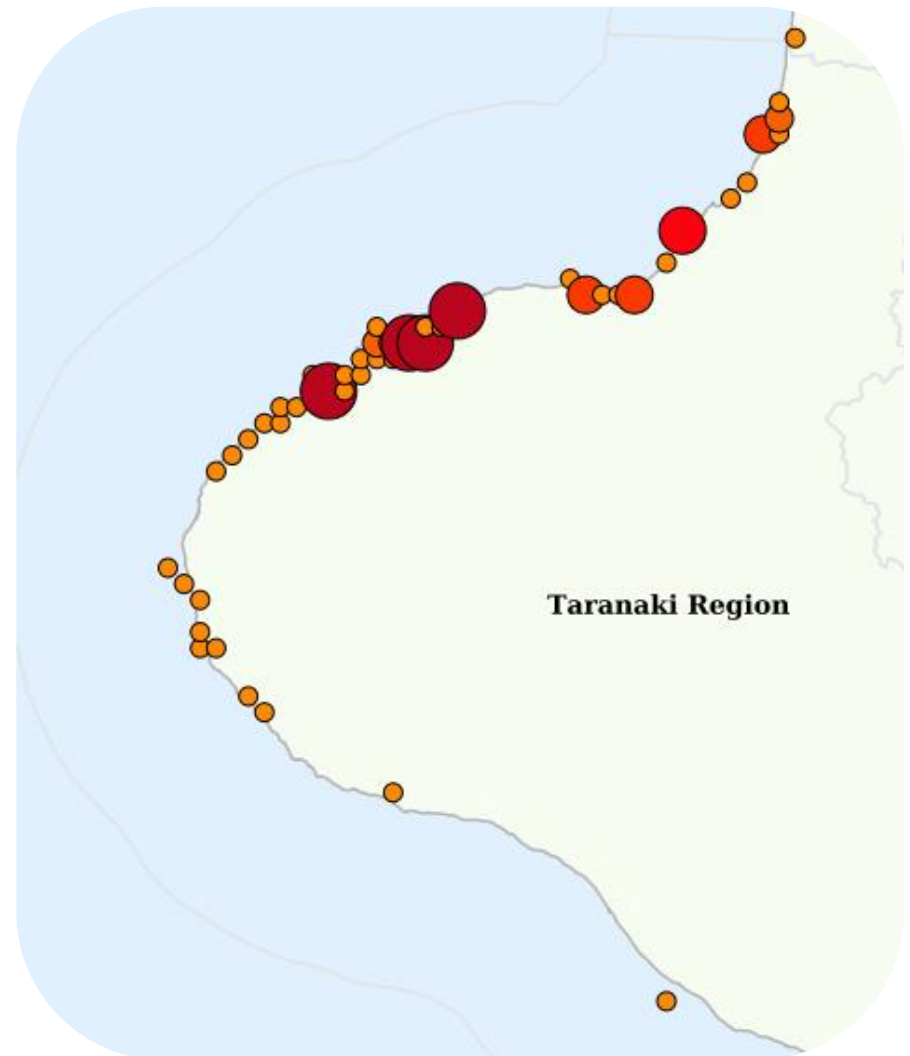


Little blue penguin sightings

187 sightings in total

Check out the website:
www.hotspot.org.nz

Total penguin count in 4 km² grid



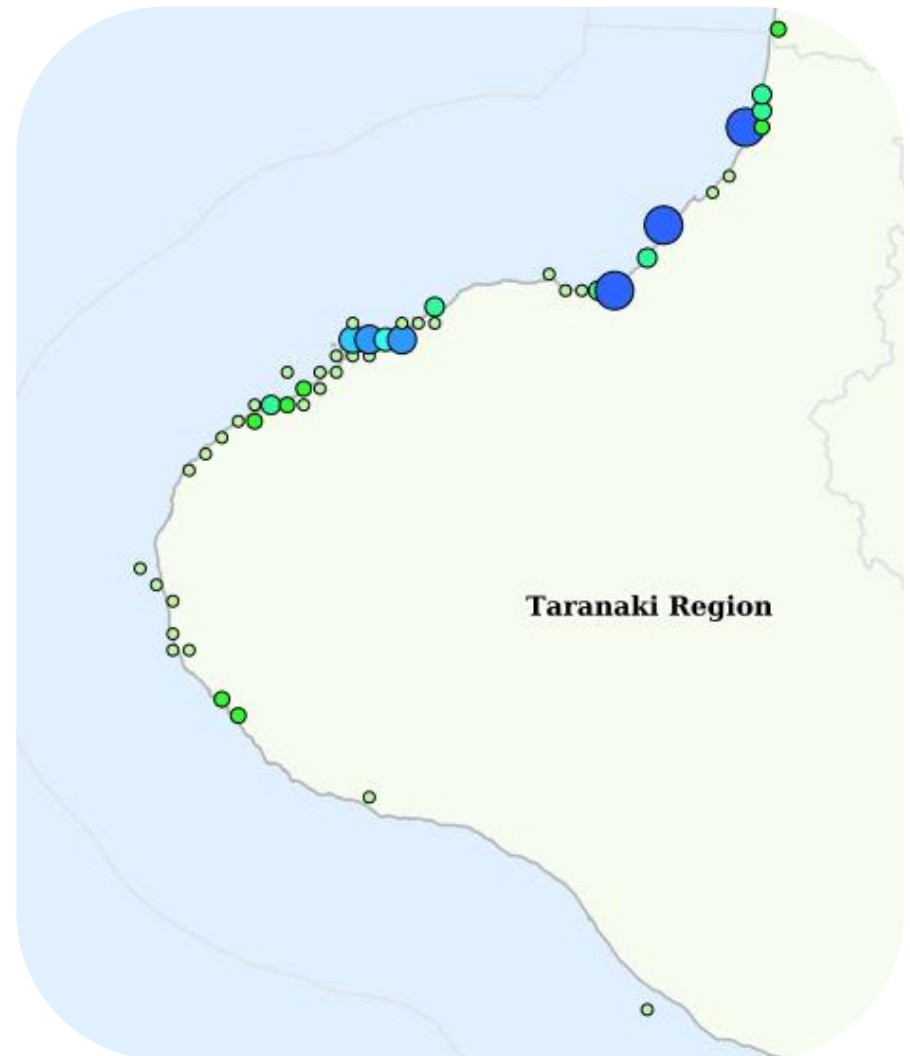
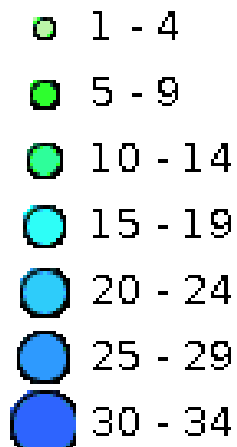


Little blue penguin sightings

187 sightings in total

Check out the website:
www.hotspot.org.nz

Total number sightings per 4 km² grid

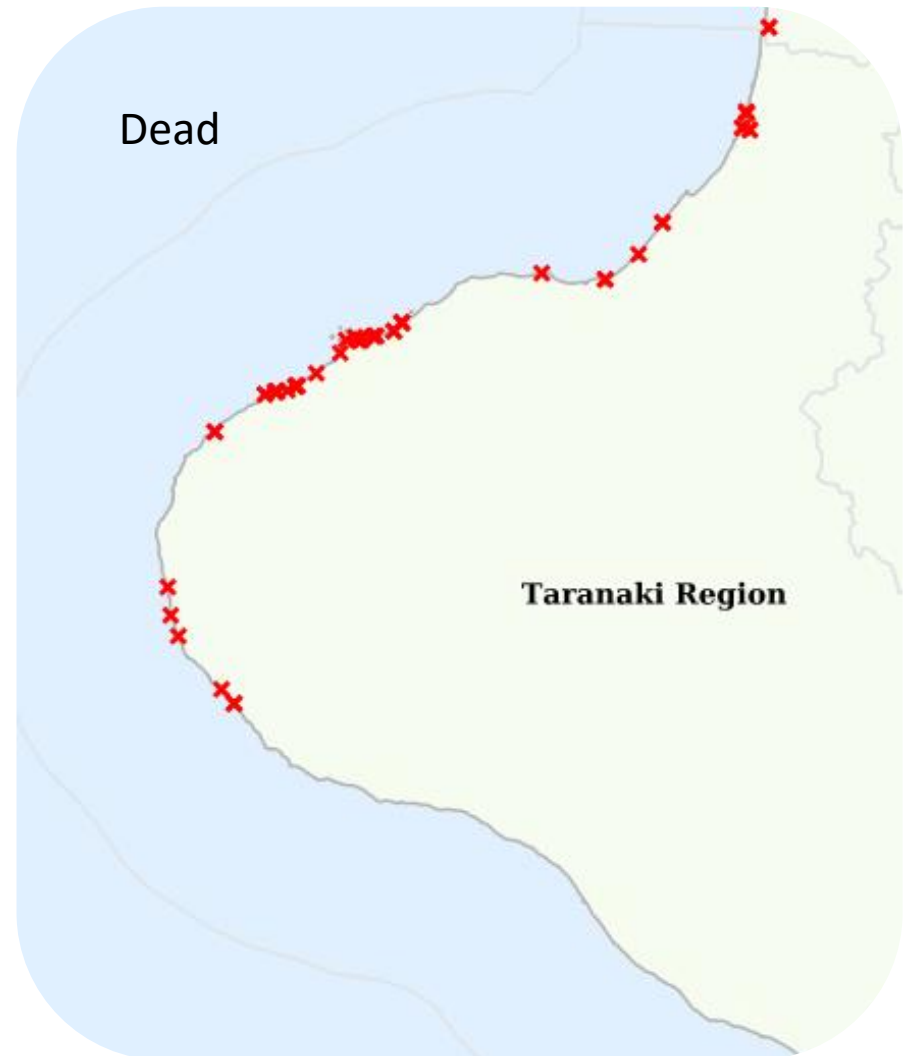


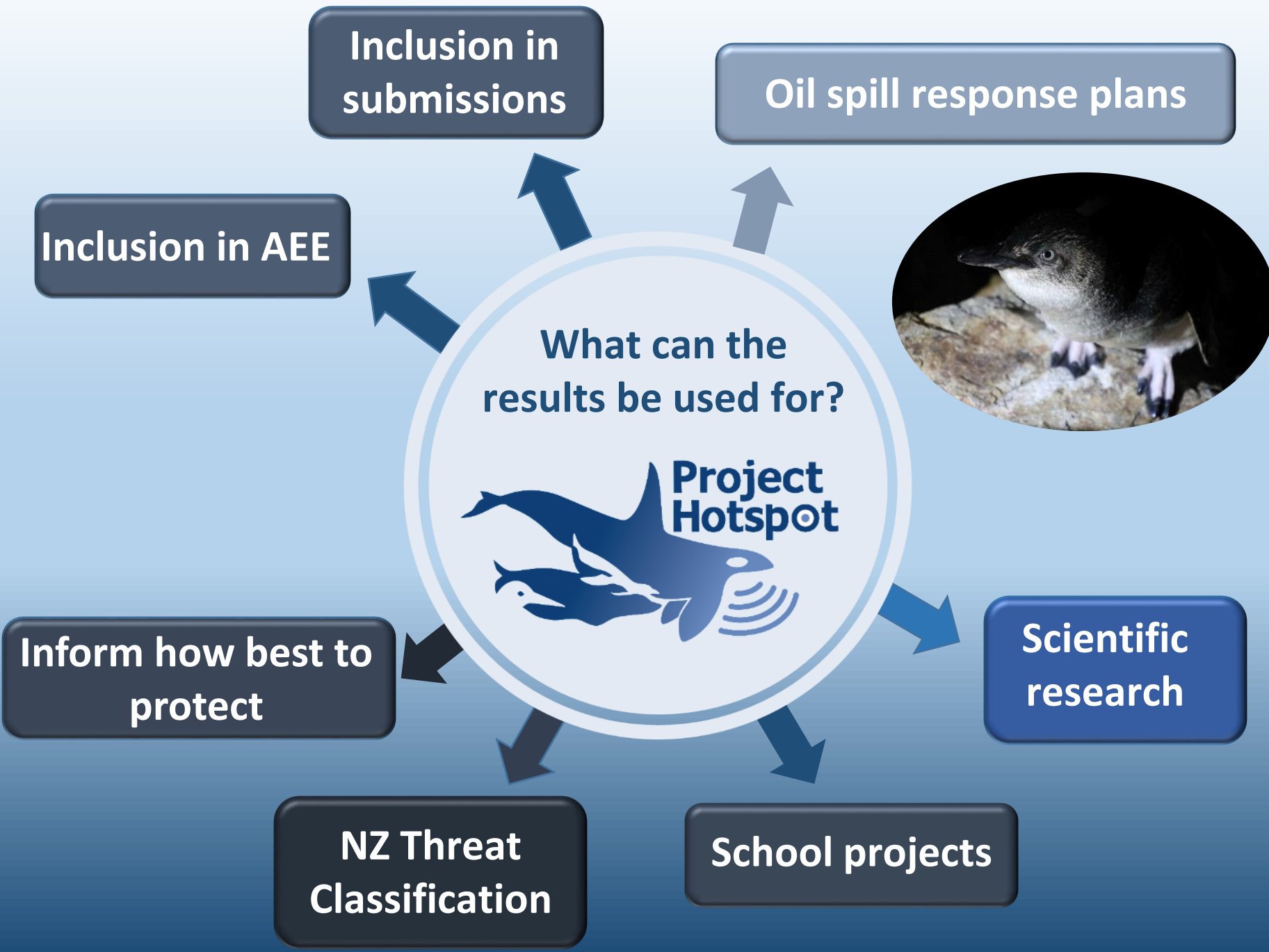


Little blue penguin sightings

187 sightings in total

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www.hotspot.org.nz





Inclusion in submissions

Oil spill response plans

Inclusion in AEE

What can the results be used for?



Project Hotspot



Inform how best to protect

Scientific research

NZ Threat Classification

School projects



Results: NZ fur seals

NZ Threat Classification:

Not threatened
(regionally distinctive)

NZ Population:

Approximately 100,000

Main threats: Human
activities including
entanglement



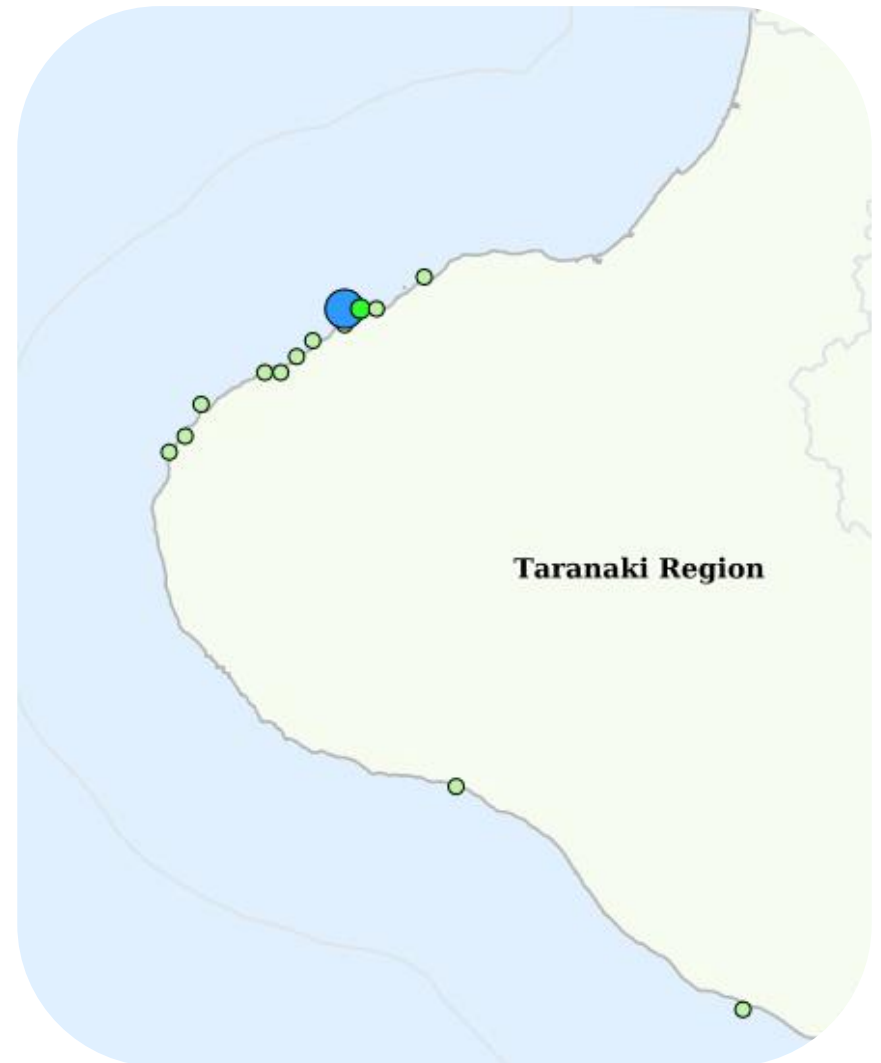


NZ fur seal sightings

56 total

Check out the website:
www.hotspot.org.nz

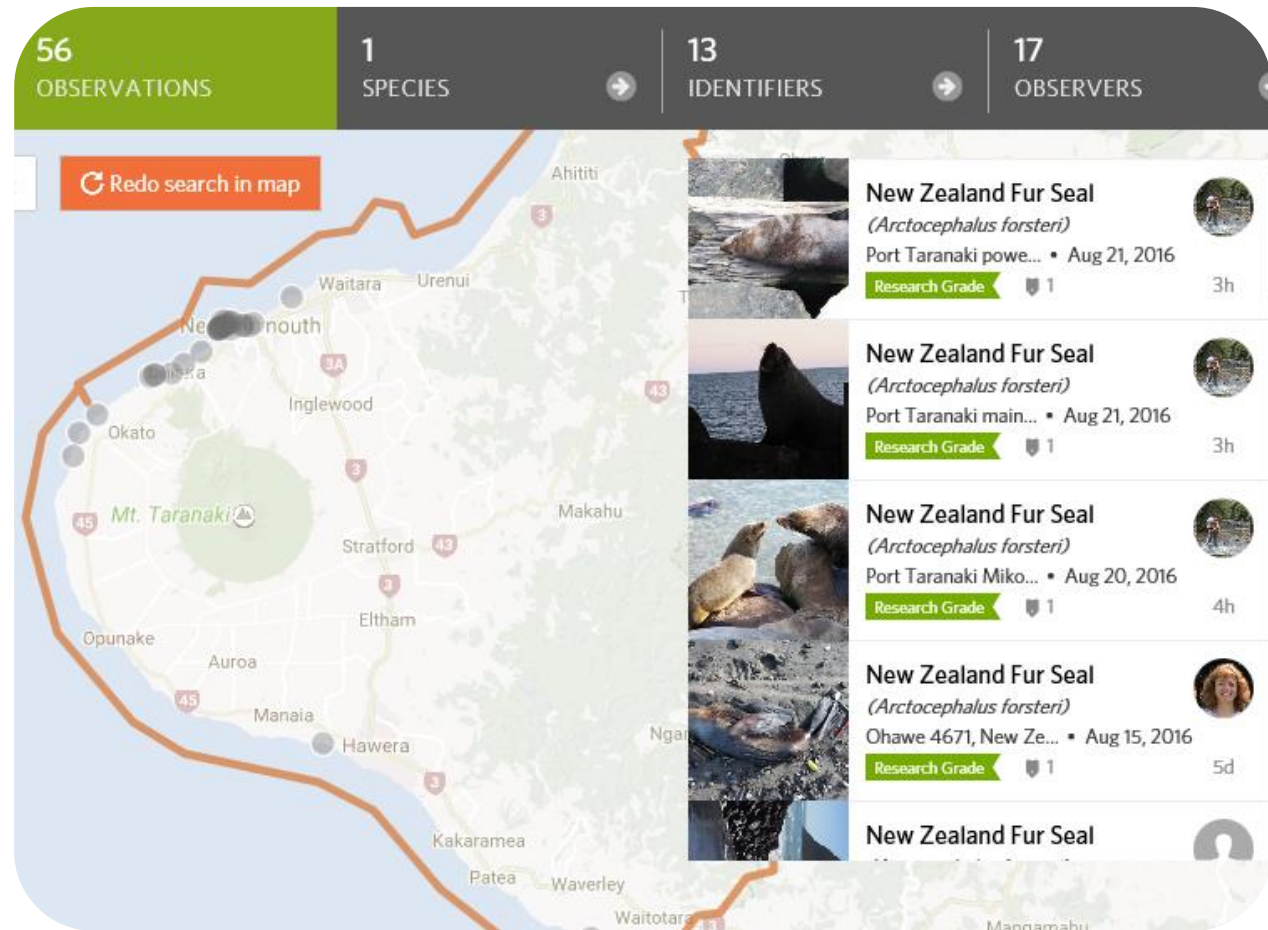
Number of sightings per 4 km² grid





NZ fur seal sightings

56 total
Thanks Fred!









Raise awareness amongst vessel operators

Raise awareness of rules

What can the results be used for?



Inclusion in AEE

Inclusion in submissions

Scientific research

School projects



Other threatened species



Action Projects

- Tapuae Marine Reserve:
Highlands & Oakura
- Research: investigate threats to species
- Work **with** end users to achieve better protection



