A photograph of two albatrosses, likely Gibson's wandering albatrosses, sitting on a nest of dry grass and green plants on a grassy hillside. The birds have white heads and necks with dark wings and backs. The background shows a vast, green, hilly landscape under a clear sky.

Gibson's wandering albatross
and
white-capped albatross
2023

Kath Walker
Graeme Elliott
Graham Parker
Kalinka Rexer-Huber





9 December 2022
—
11 February 2023.





Carnley Harbour

Adams Island





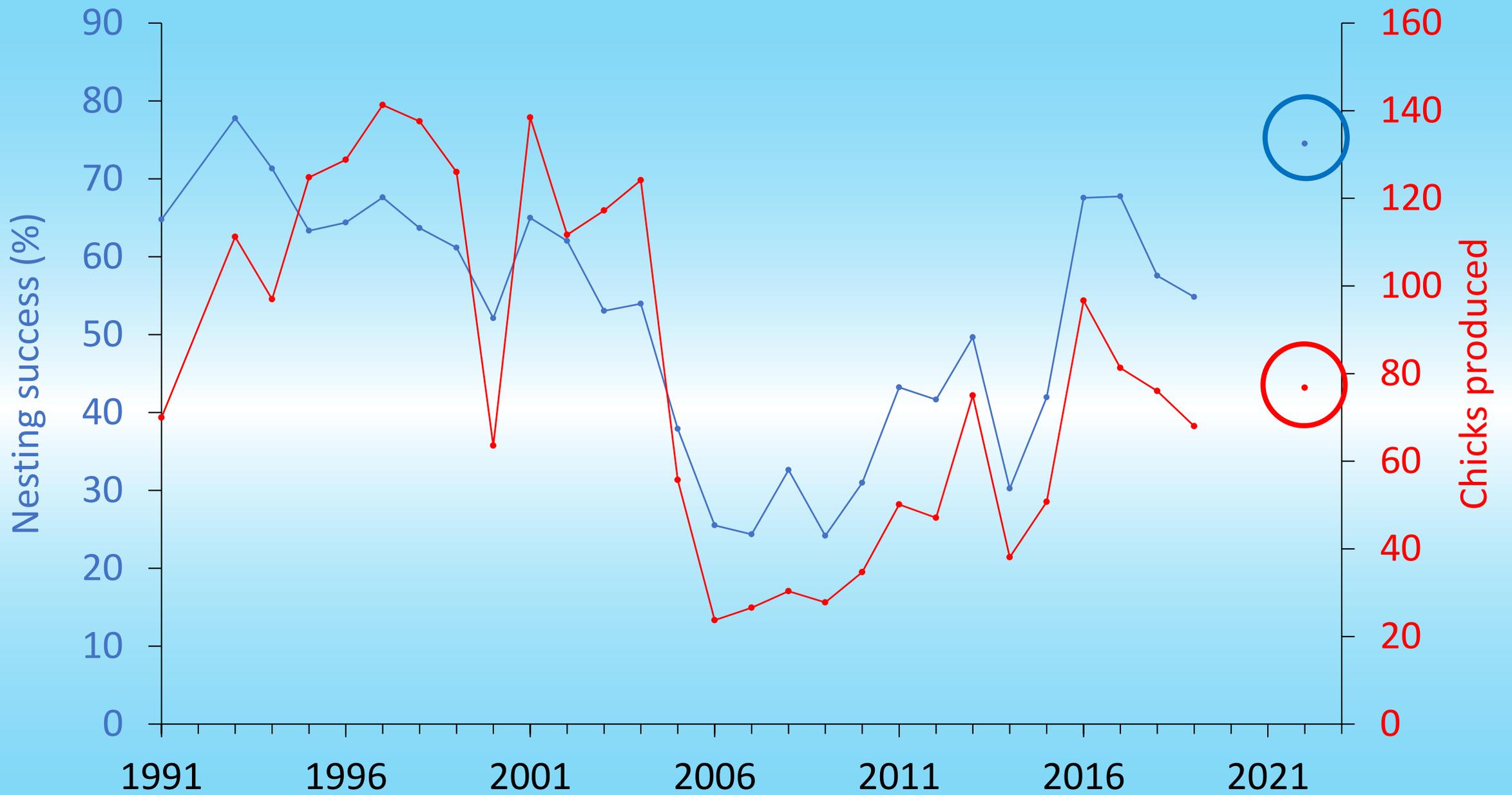






74% nesting success

71 chicks banded





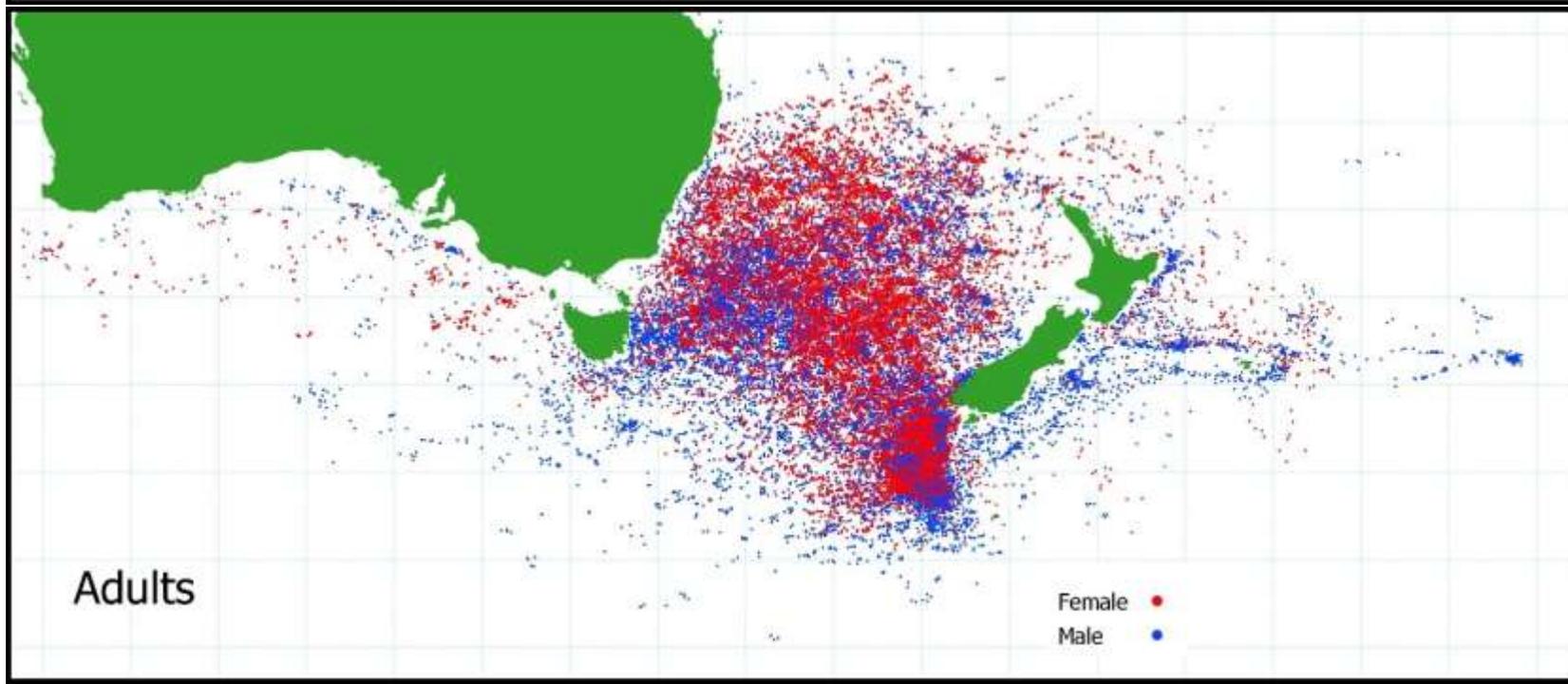
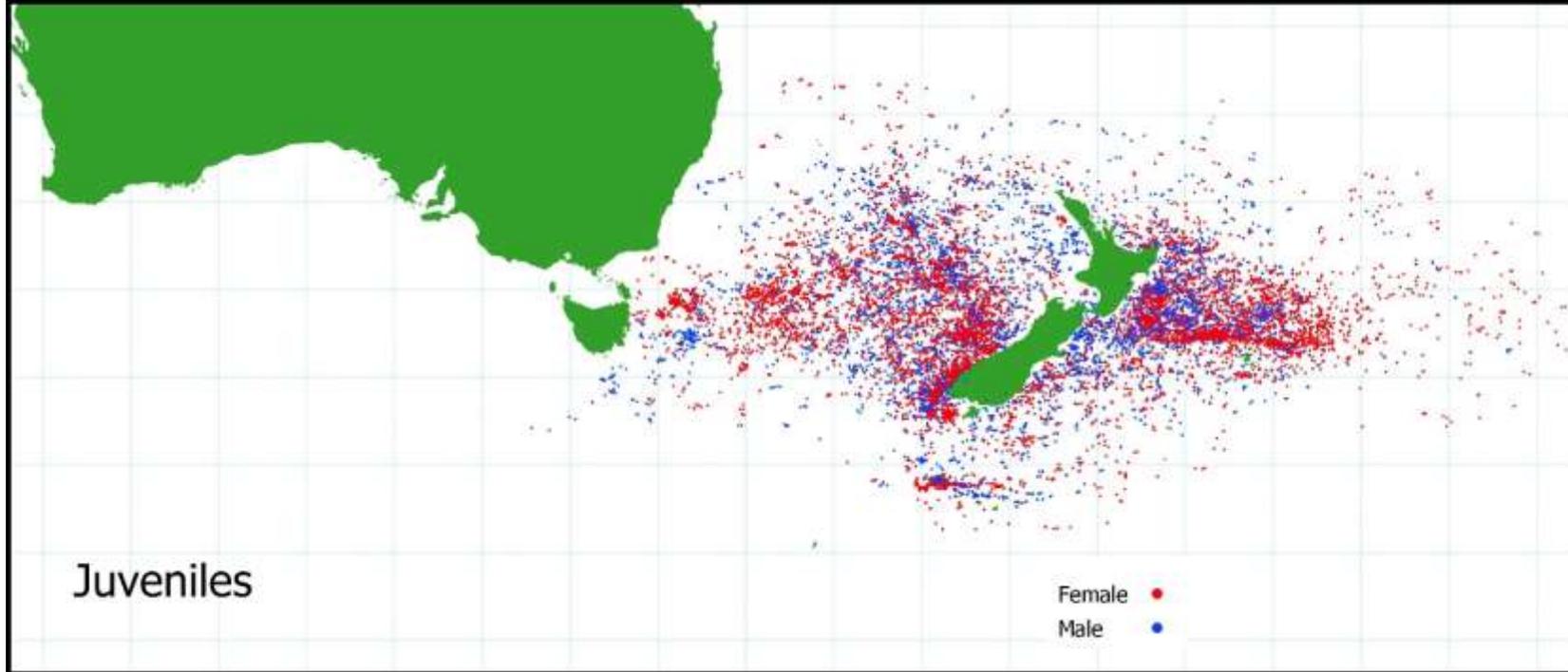
Transmitters on 22 chicks

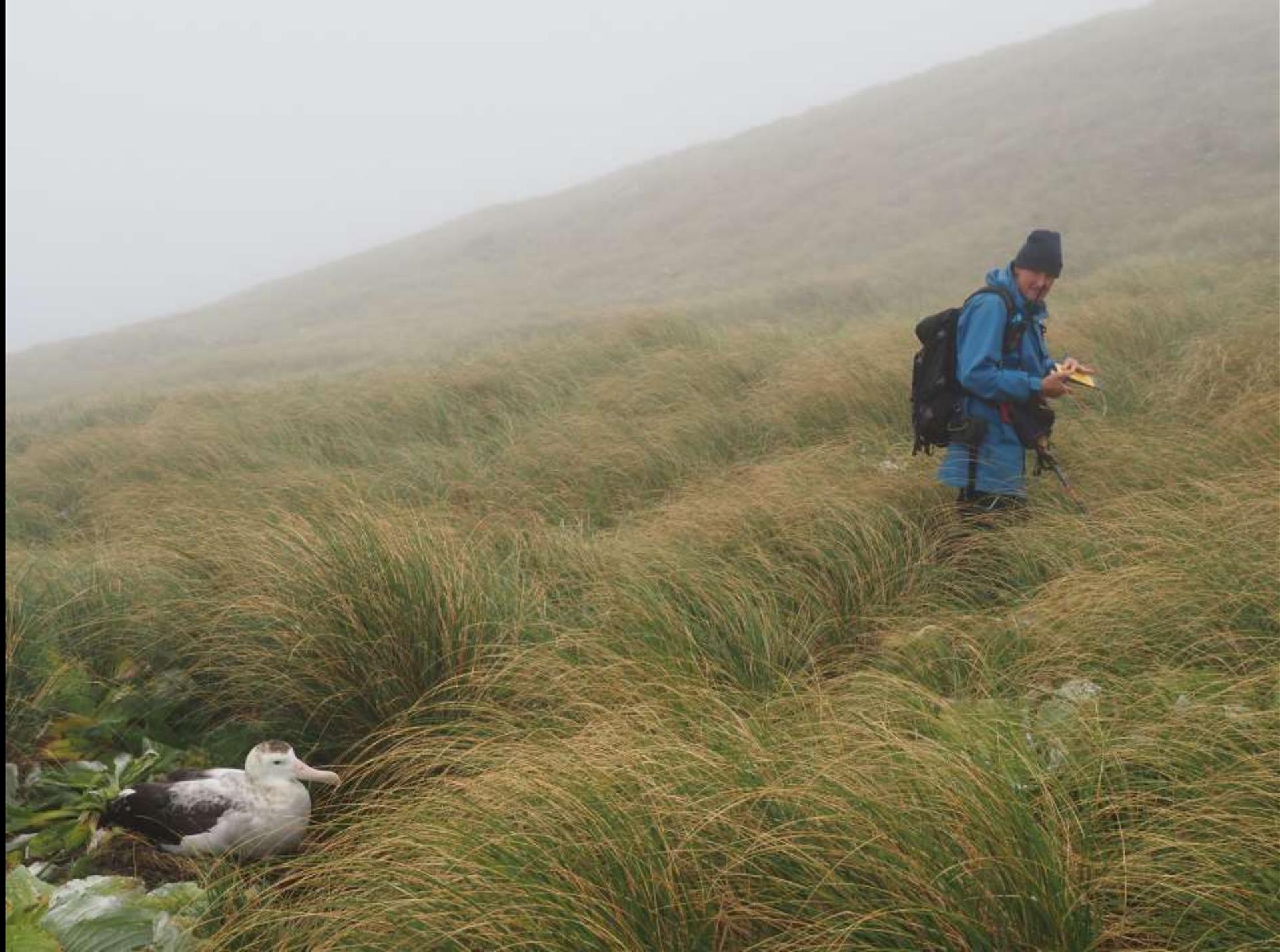
12 females

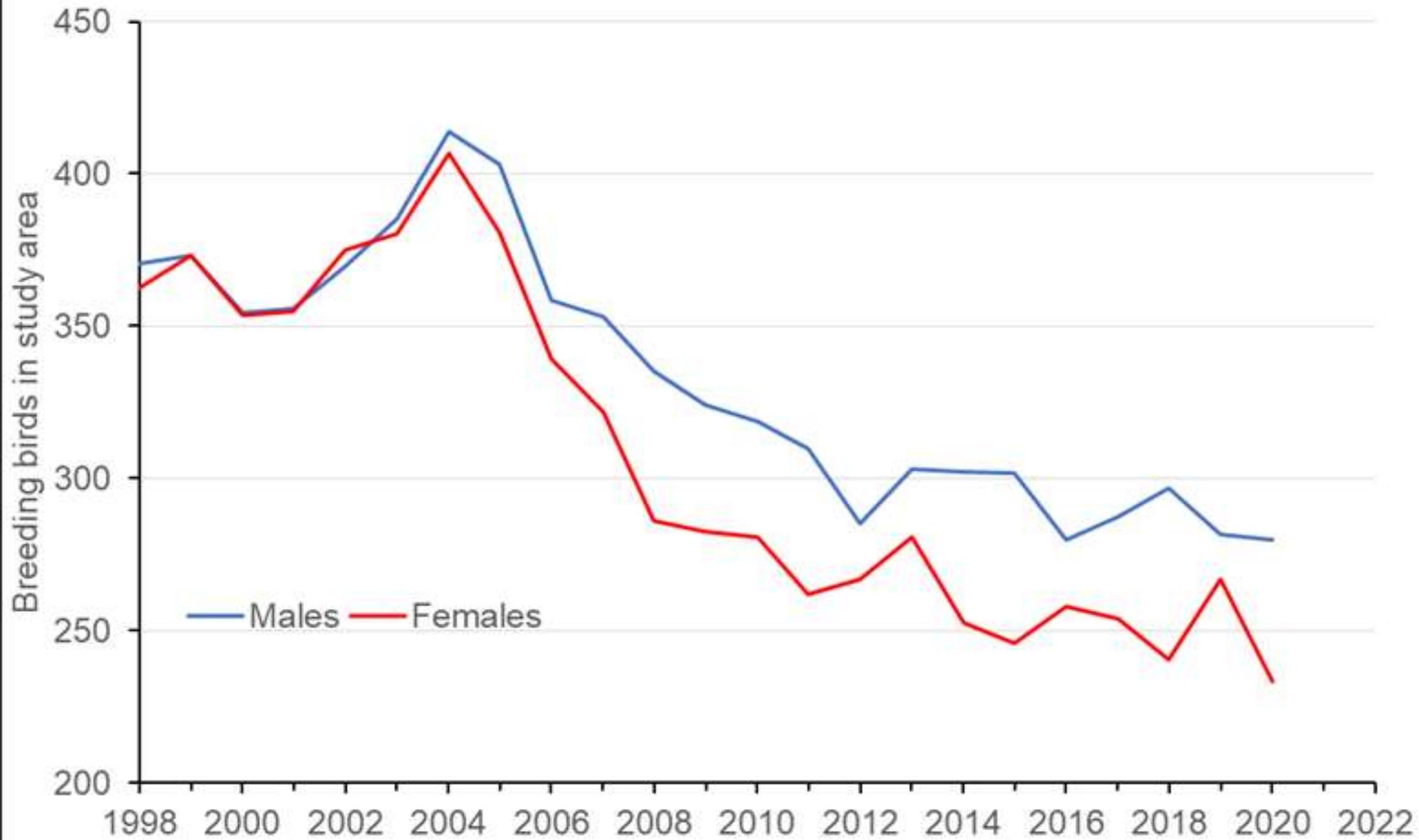
10 males

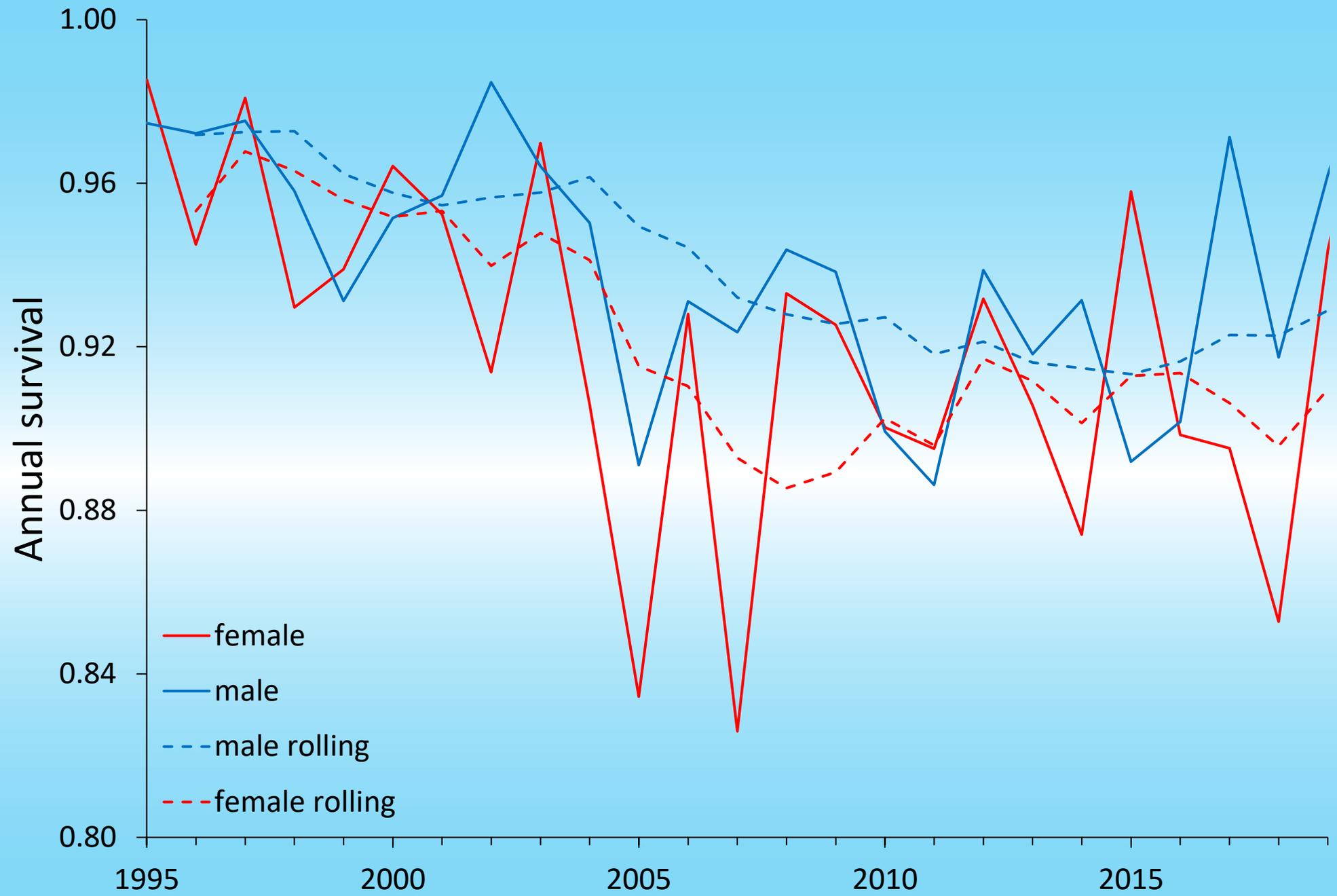
Geolocators on 16 chicks

retrieve in 5 years time











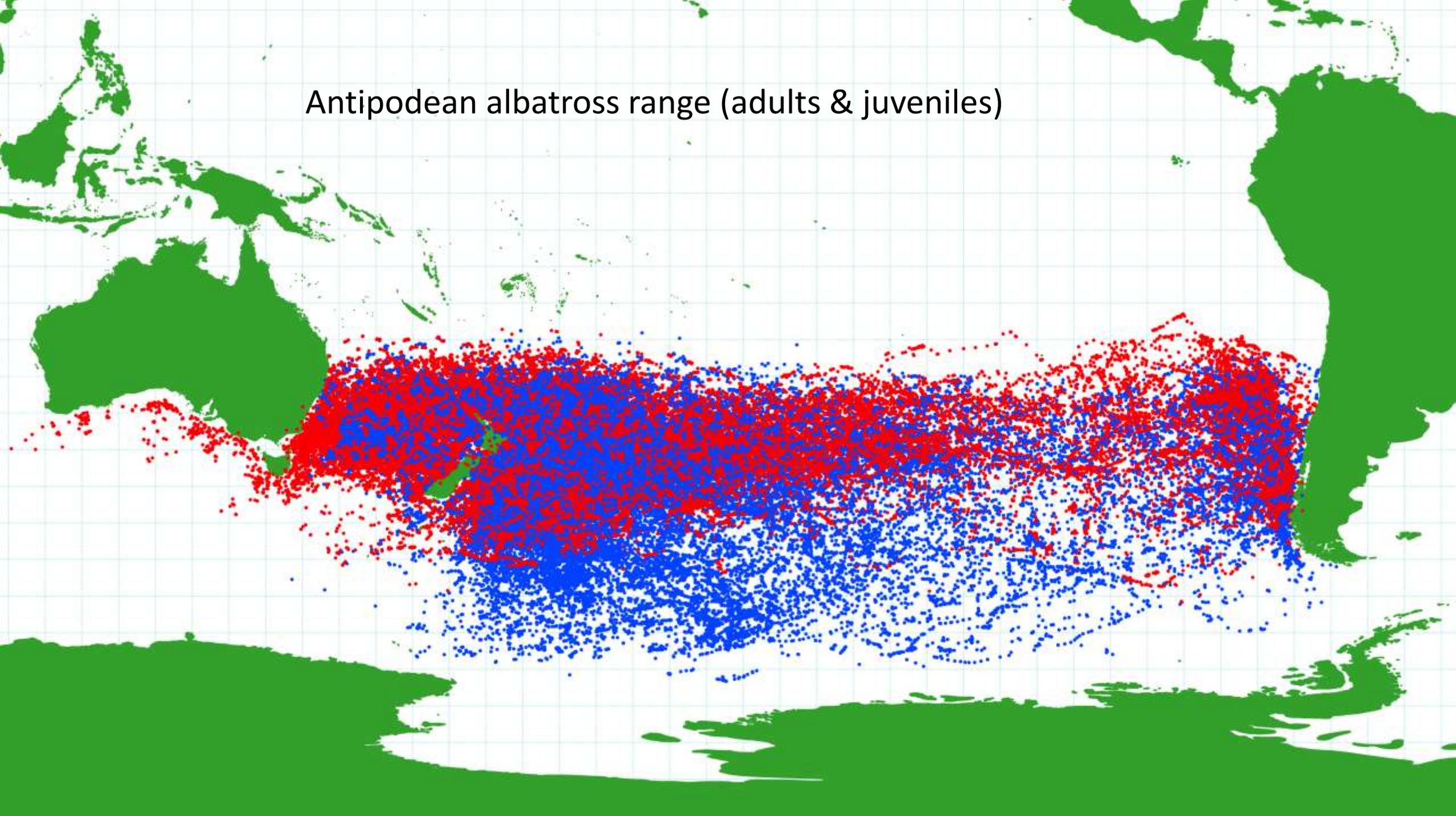
20 year old female Gibson's Albatross on left, male on right

Adams Island

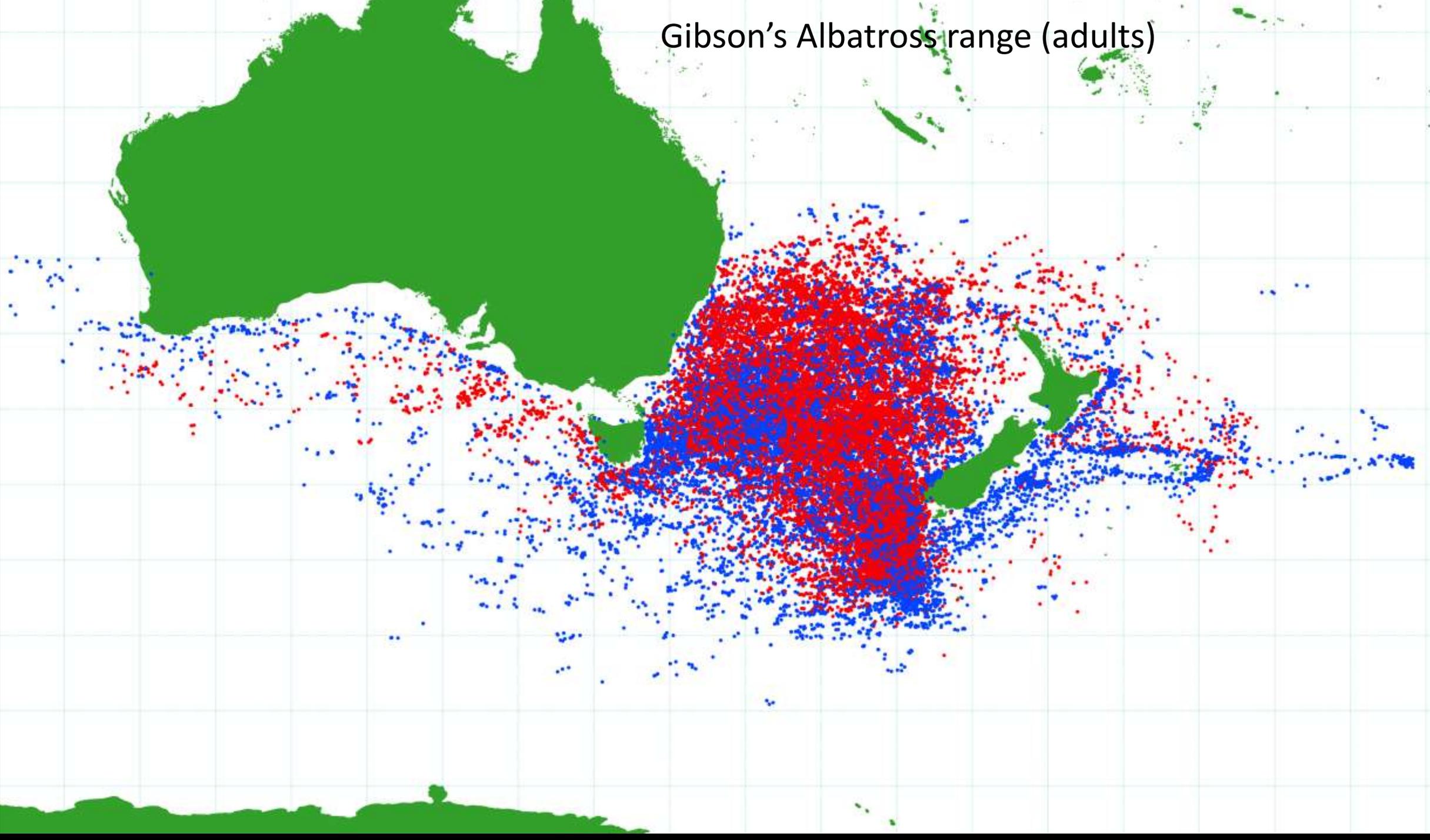
20 year old female Antipodean albatross on left, male on right

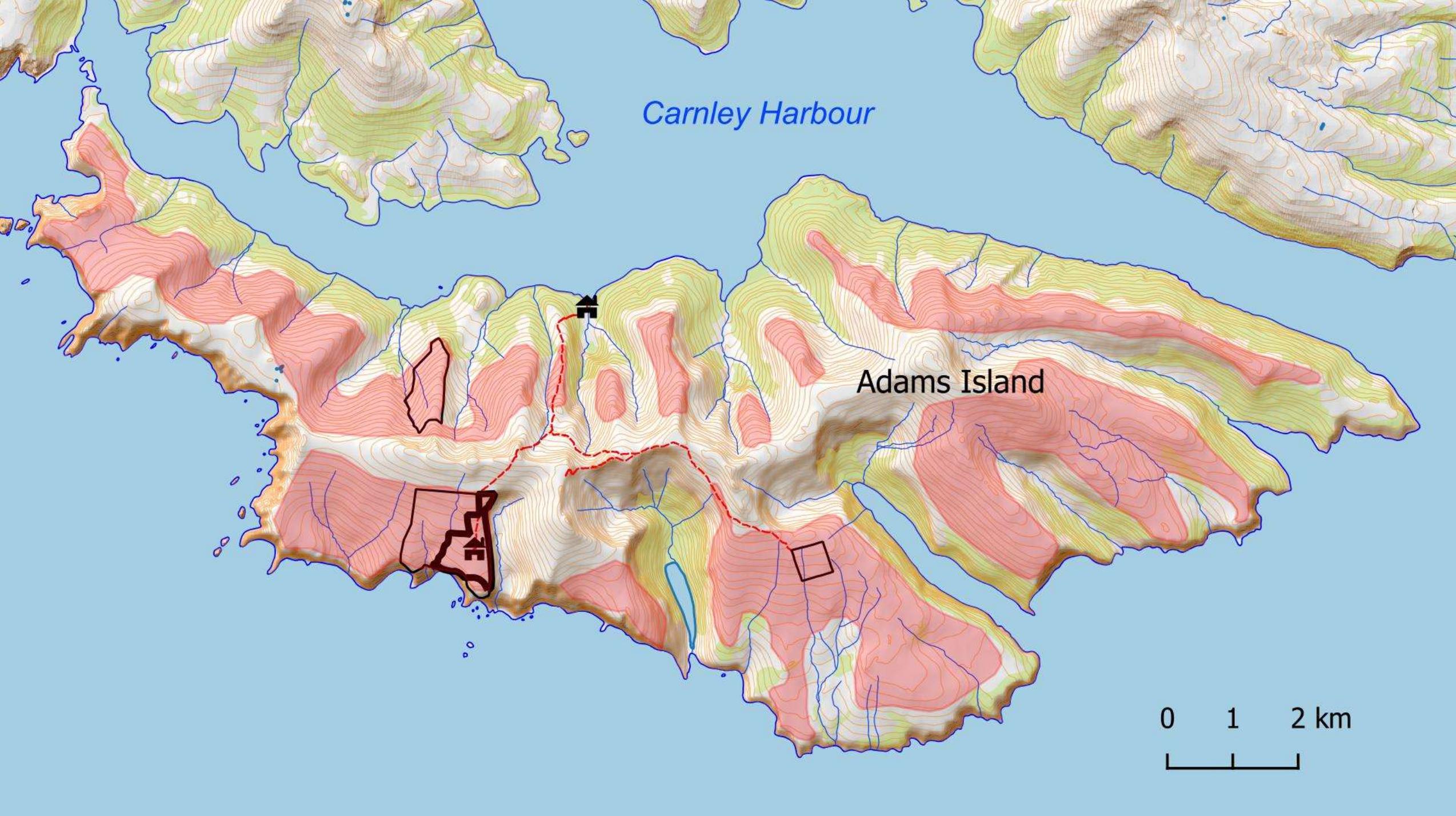
Antipodes Island

Antipodean albatross range (adults & juveniles)



Gibson's Albatross range (adults)



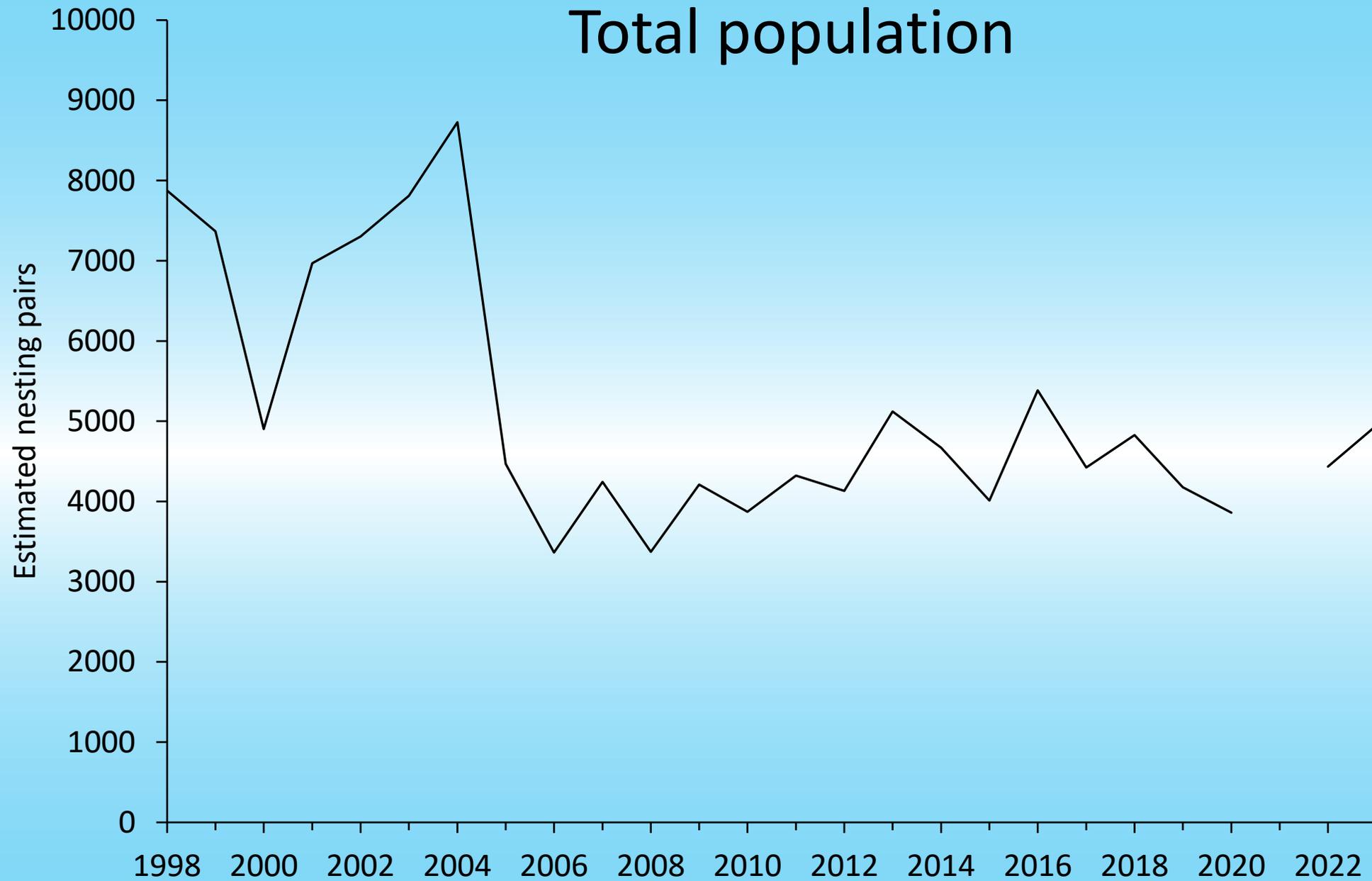


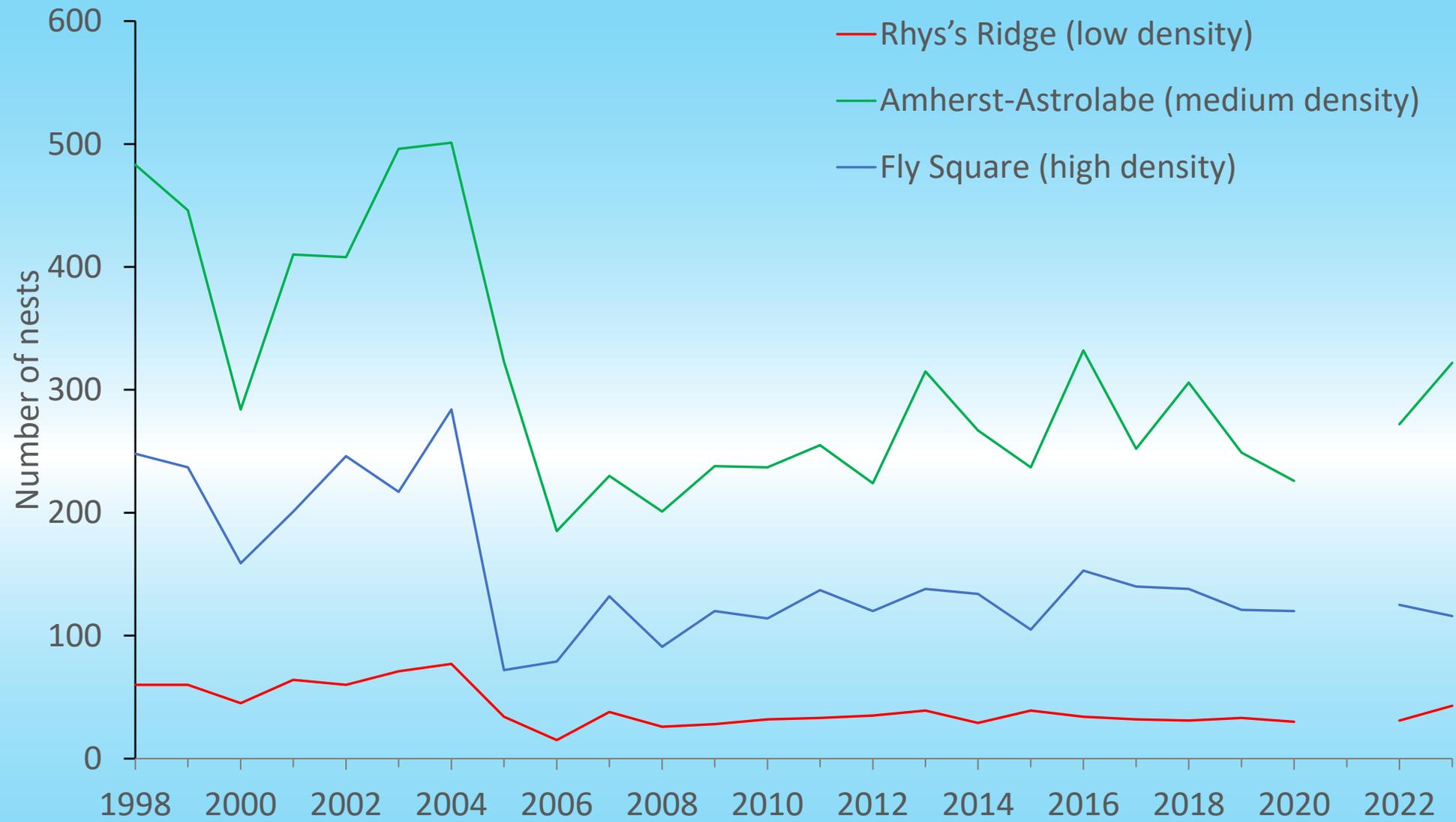
Carnley Harbour

Adams Island



Total population







whole island nest count







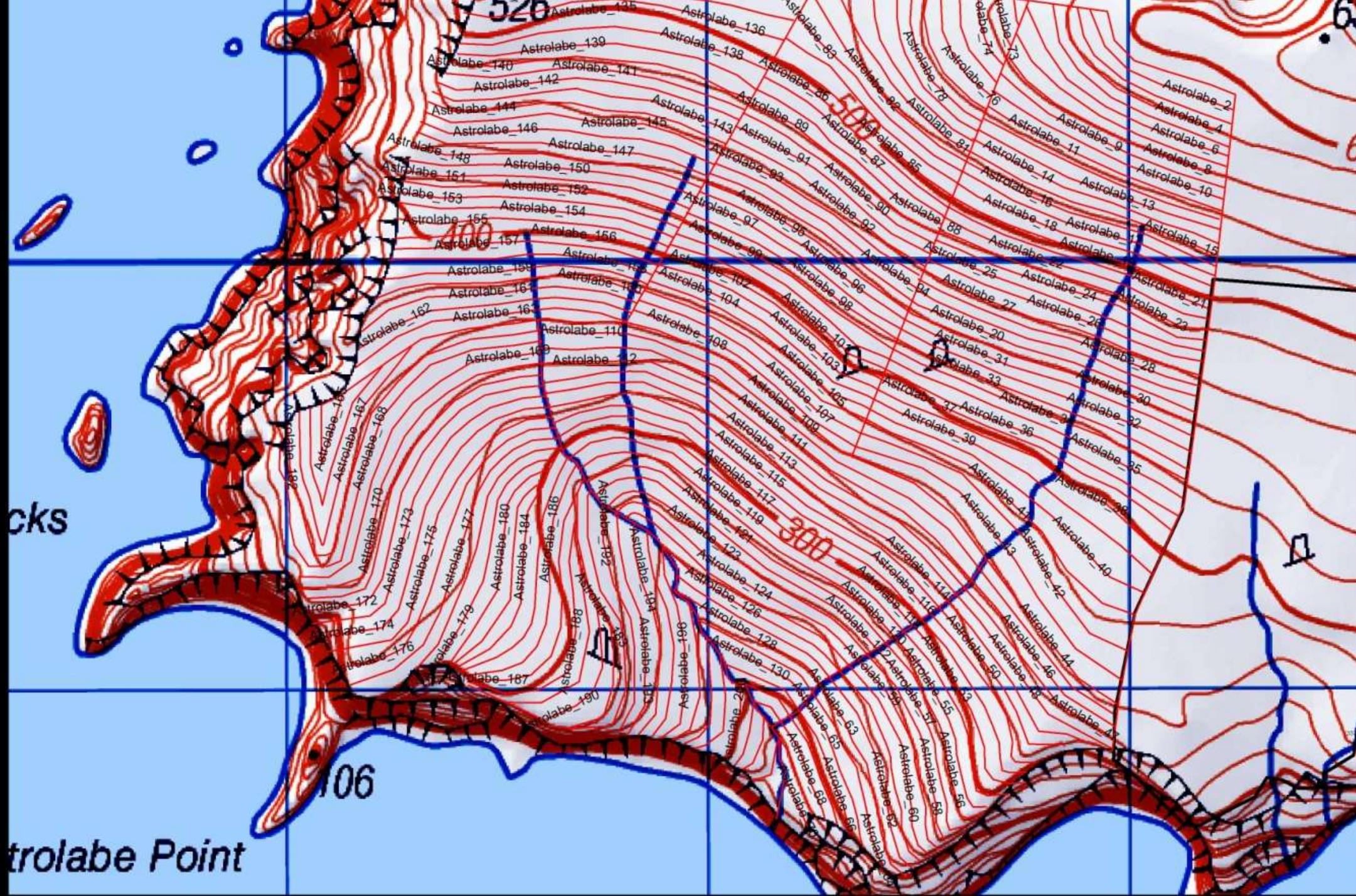












cks

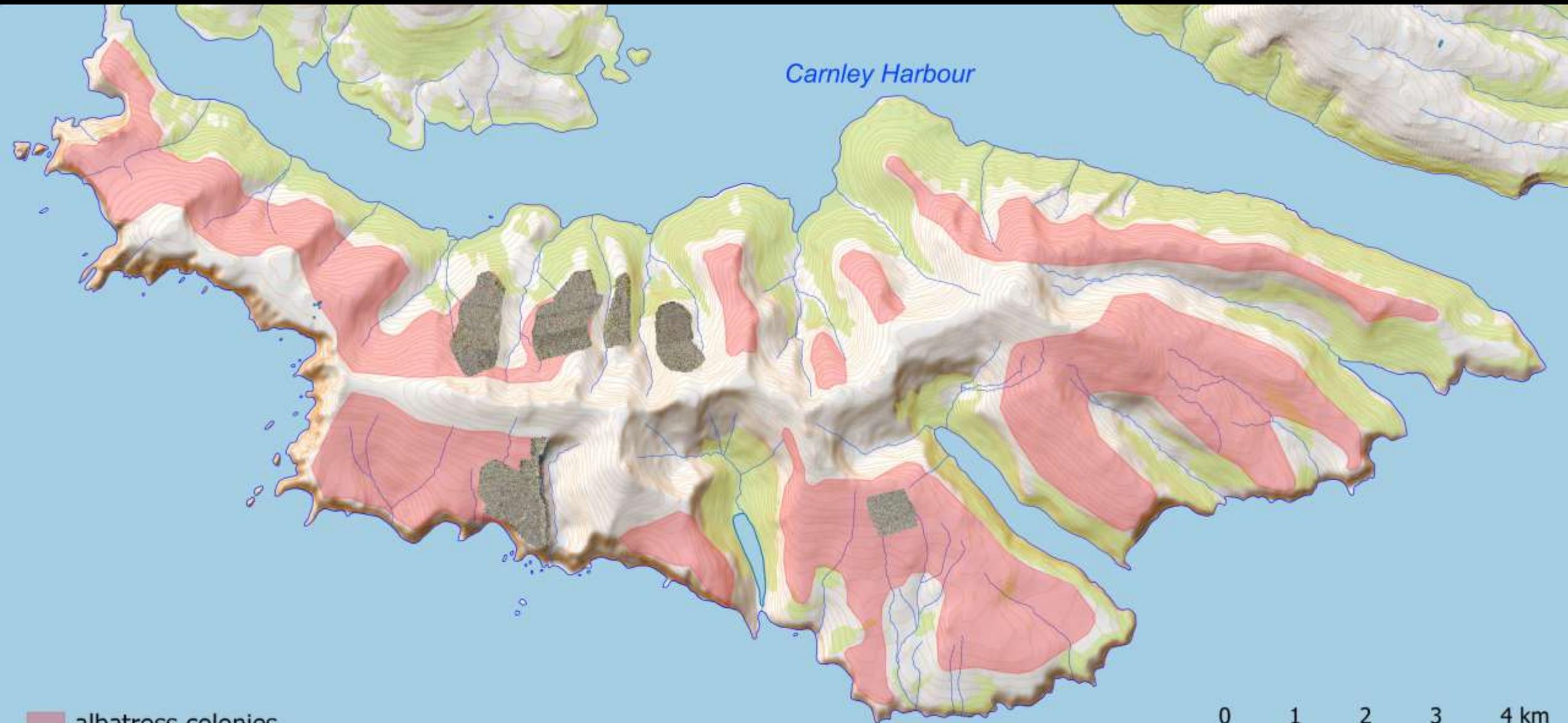
Astrolabe Point

106

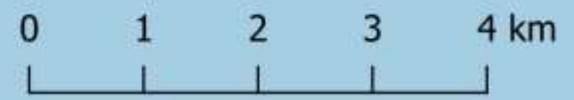
60

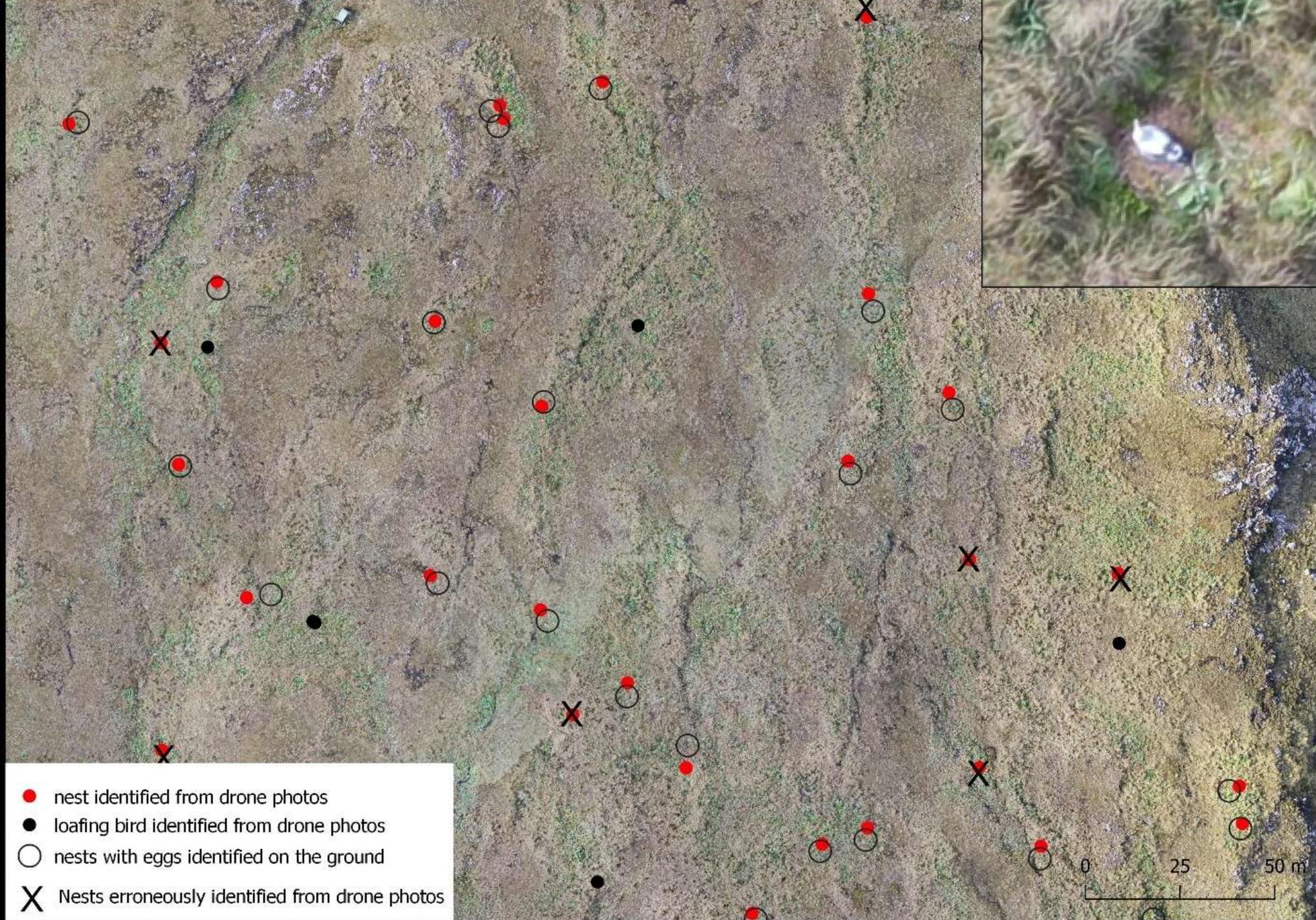


Carnley Harbour



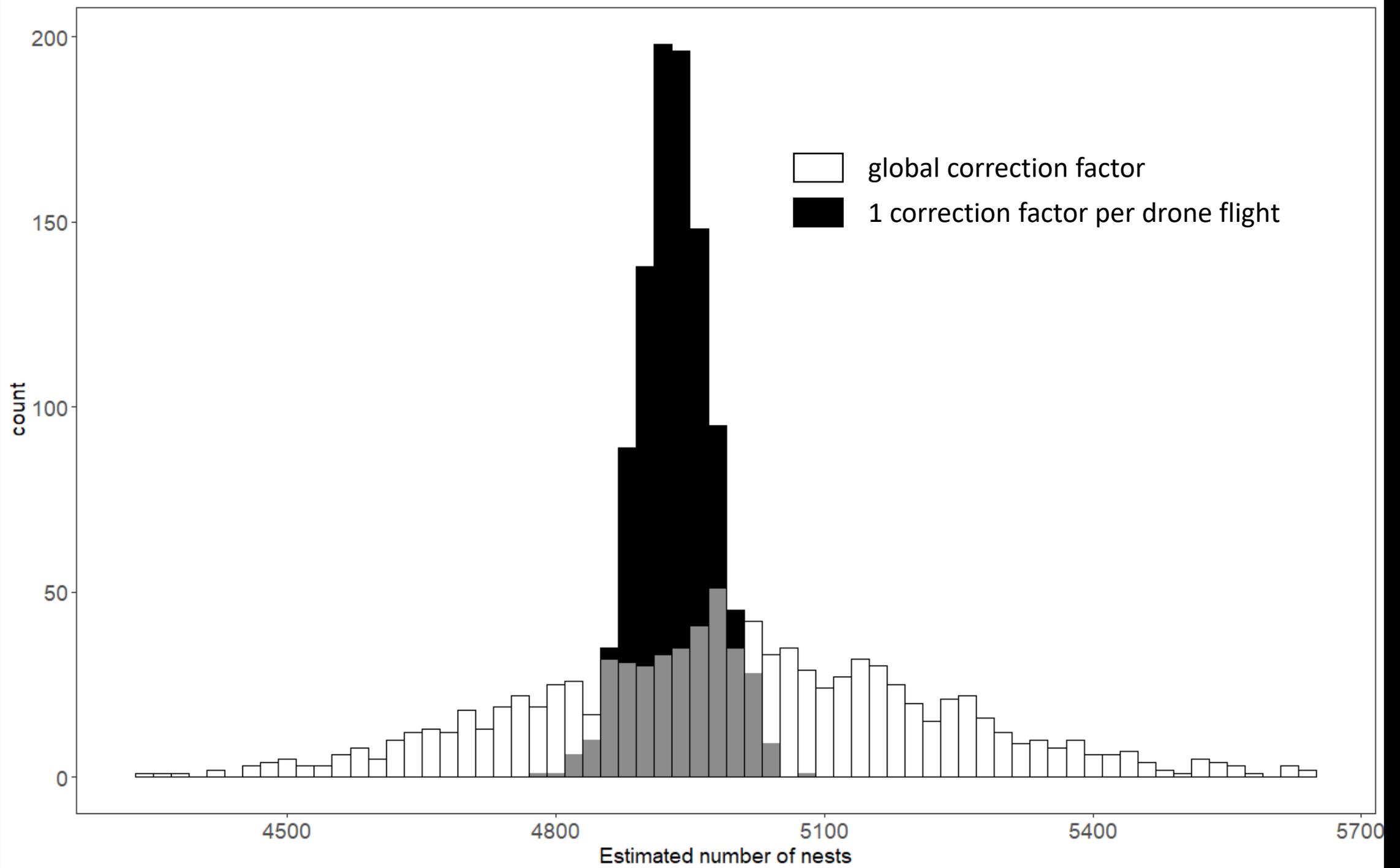
albatross colonies
drone census ~ 9%





- nest identified from drone photos
- loafing bird identified from drone photos
- nests with eggs identified on the ground
- ✕ Nests erroneously identified from drone photos

Date	Where	Birds counted from drone	Nests from ground counts	Ratio drone counts:nests
17/01/2023	Upper Study Area	26	17	1.53
18/01/2023	Lower Study Area	170	127	1.34
24/01/2023	Rhys's Ridge	12	10	1.20
28/01/2023	Fly Square	169	116	1.46
30/01/2023	West of Study Area	51	42	1.21



Method**Person weeks on island**

Ground count at 25m**30****Ground count at 25m and drone (60:40)****30****Drone count****20****Ground counting using 1997 techniques****20**

Without a boat

Method

Person weeks on island

Ground count at 25m

~~30~~ 40

Ground count at 25m and drone (60:40)

~~30~~ 40

Drone count

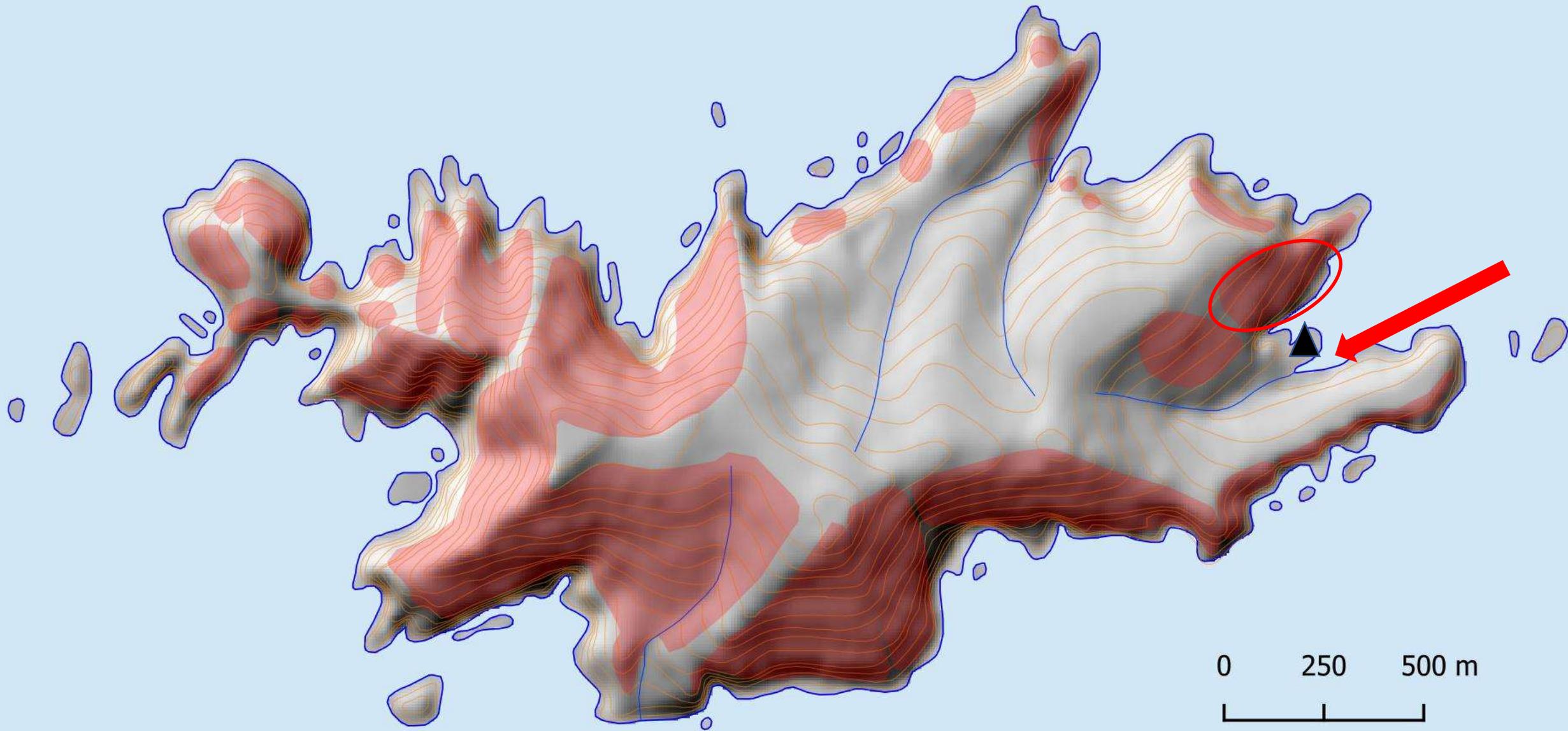
~~20~~ 30

Ground counting using 1997 techniques

~~20~~ 30











Survival

- Survival 2015-2022 0.89 (95%CI 0.86– 0.91)
- Survival 2015-2023 0.92 (95%CI 0.90– 0.93)



D4

10 cameras in Feb 2022

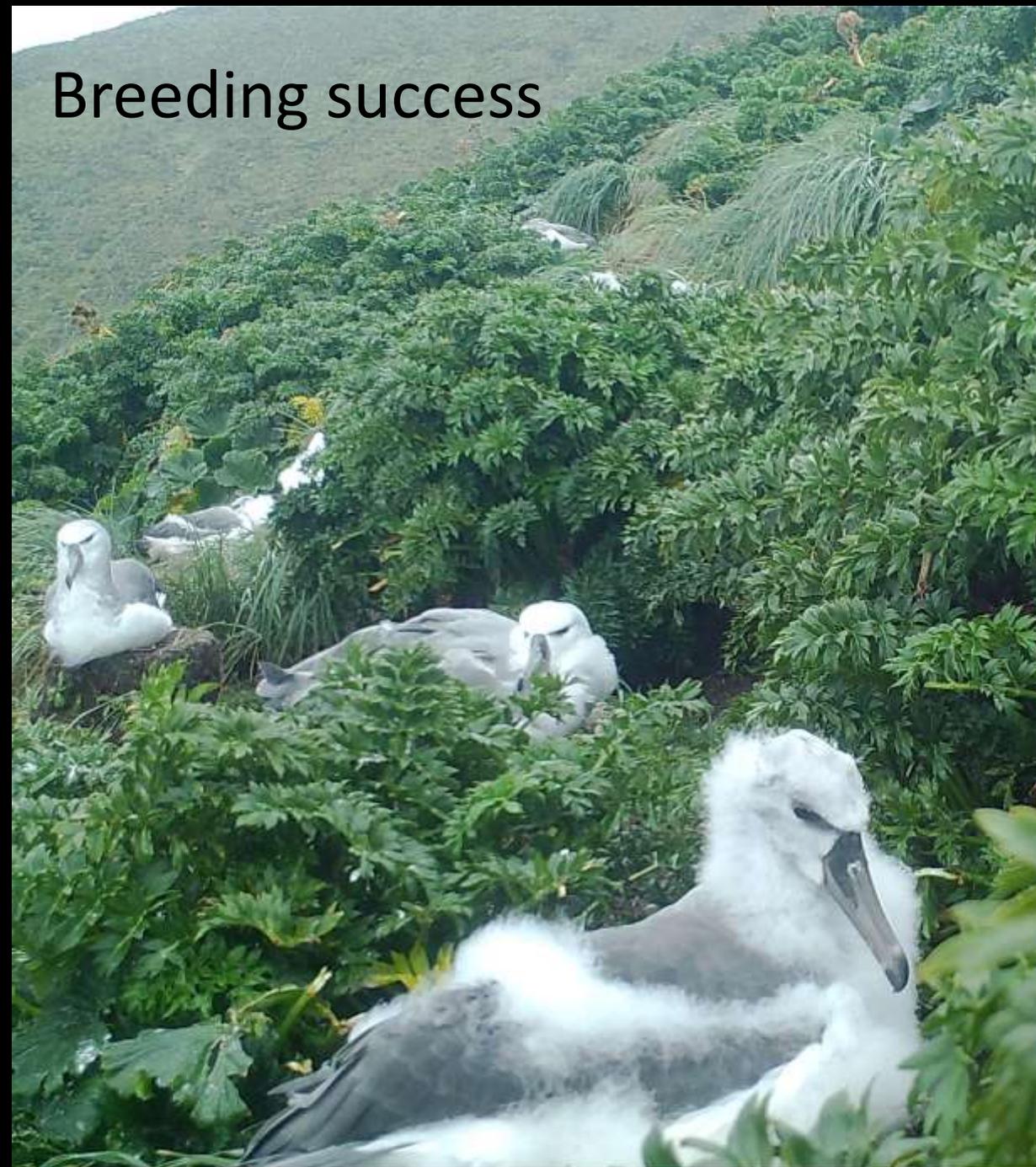
7 still going Feb 2023

The best camera recorded outcome of 10 nests



Provided information on
timing of
end of chick guard- stage

Breeding success



fledging date





Most cameras didn't end up capturing many nests

D2 started well



But camera
tilted,

and continued
to tilt



just 1 nest
visible.



just 1 chick in view



fledged



D7

At worst,
no birds left in view by October 2022
to capture the start of the
2023 nesting season



View going



no birds left in
view by October
2022

to capture the start
of the
2023 nesting
season

Cameras enabled:

chick success 66% (33 nests)

egg success 100% (4 nests)

Mean date of:

- End of guard - 24 February
- Fledge date - 26 July
- Arrival for new breeding season -10 October

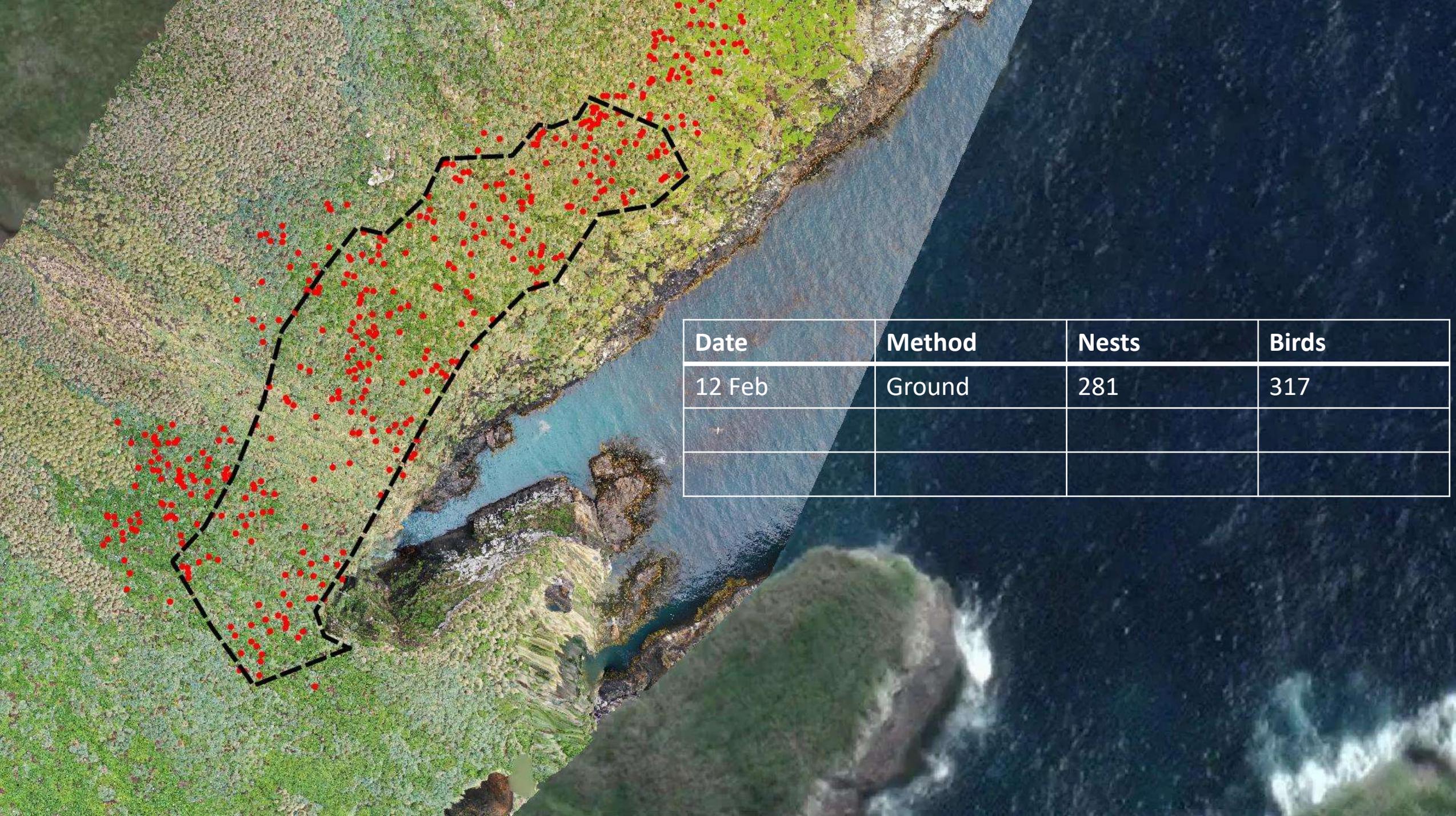


whole island count





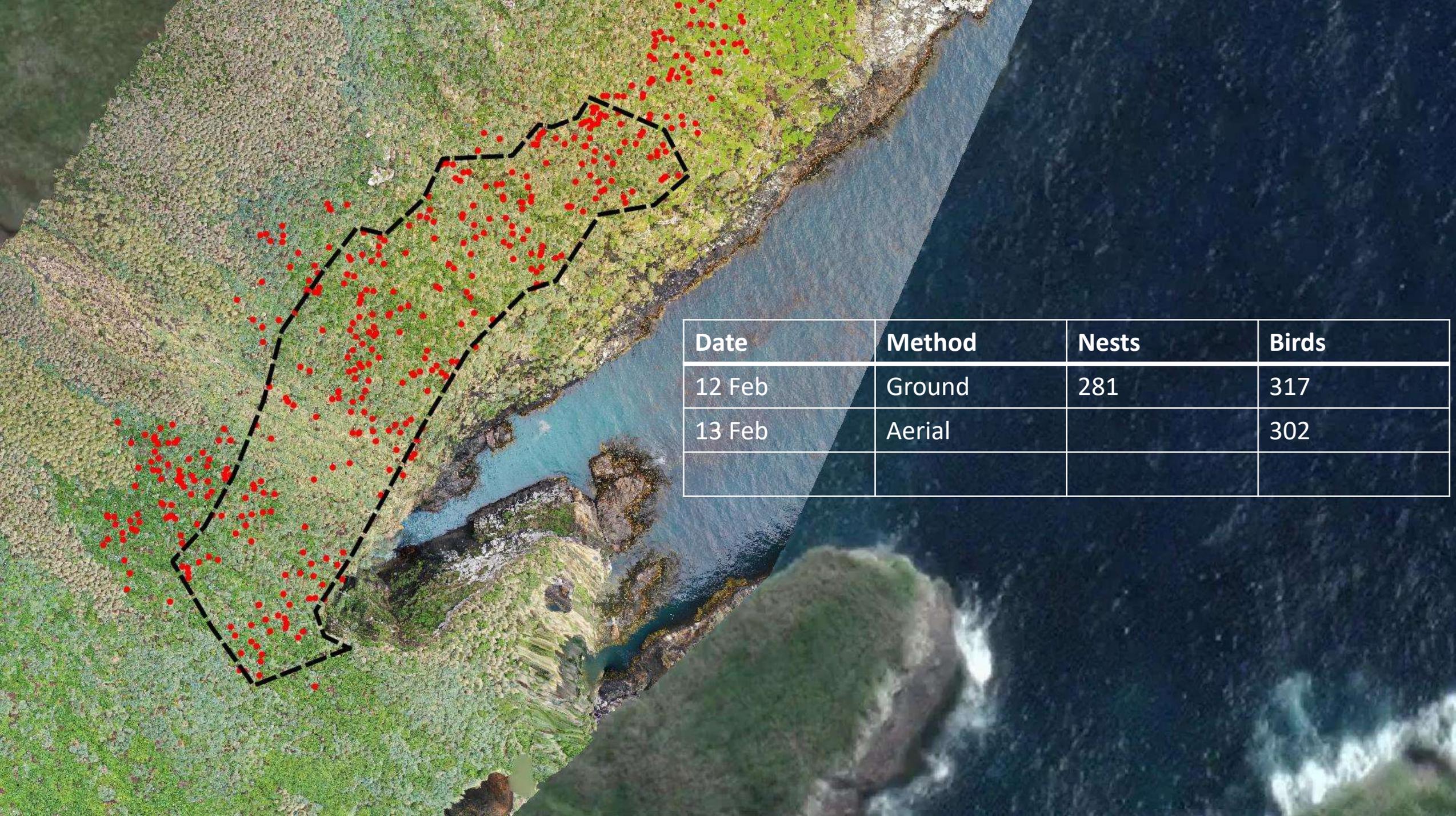




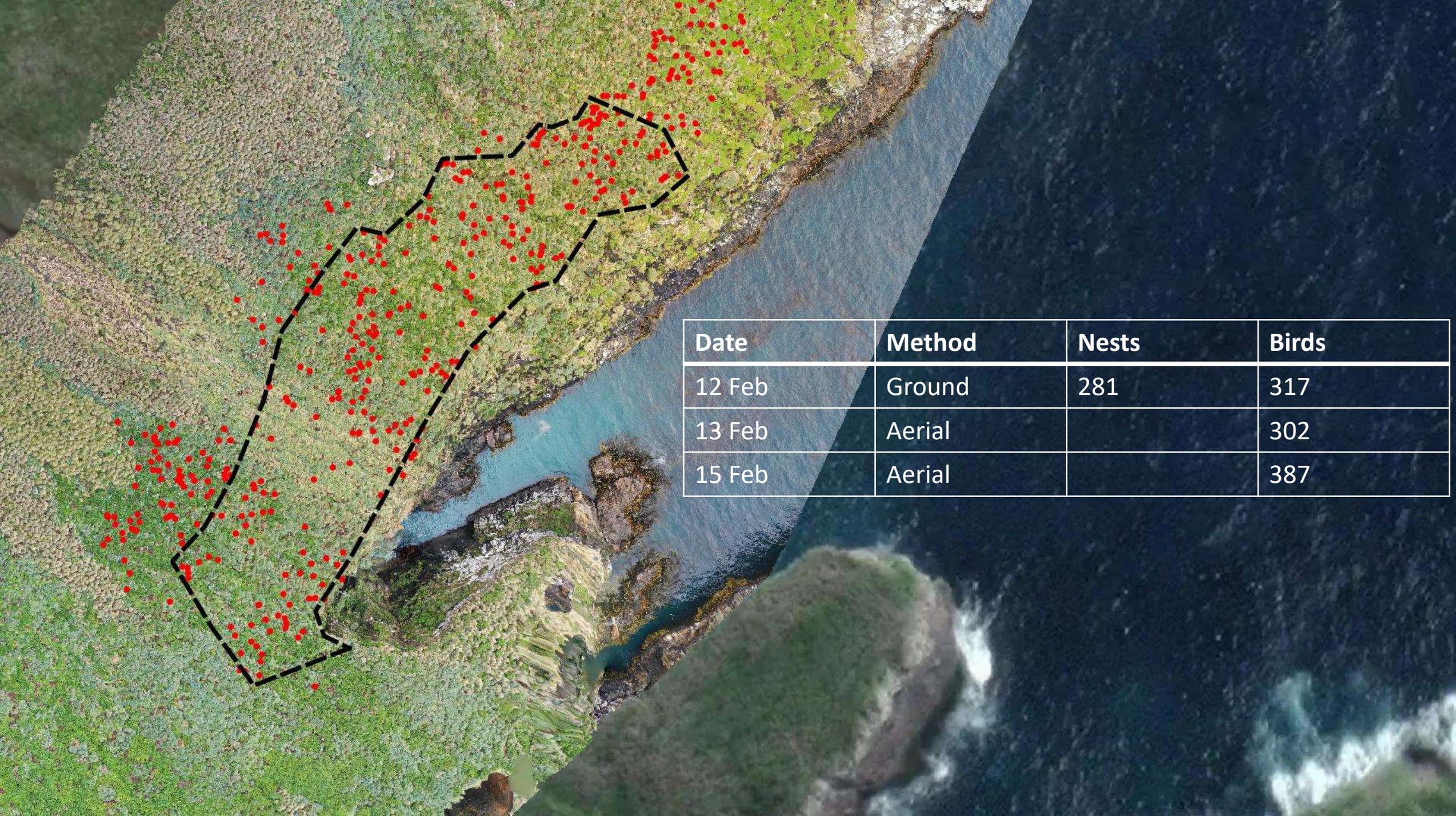
Date	Method	Nests	Birds
12 Feb	Ground	281	317



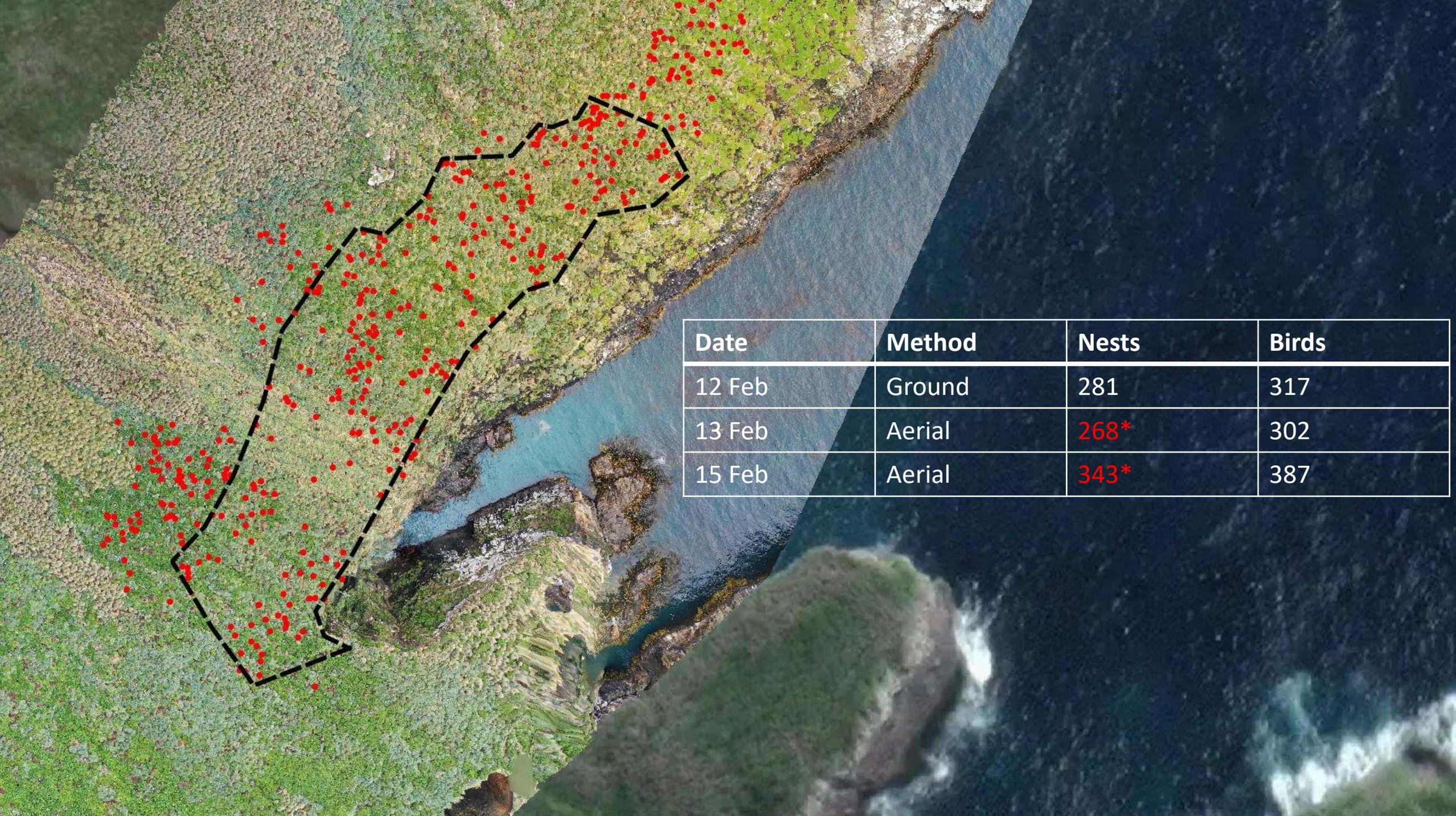




Date	Method	Nests	Birds
12 Feb	Ground	281	317
13 Feb	Aerial		302



Date	Method	Nests	Birds
12 Feb	Ground	281	317
13 Feb	Aerial		302
15 Feb	Aerial		387



Date	Method	Nests	Birds
12 Feb	Ground	281	317
13 Feb	Aerial	268*	302
15 Feb	Aerial	343*	387



Camera's, drone trials, bird health checks and applying GLS have come at a cost

No new birds banded in 2020, 2021 (no trip) 2022 and only 24 in 2023

Small numbers of banded birds to re-sight jeopardizes the essential information on survival