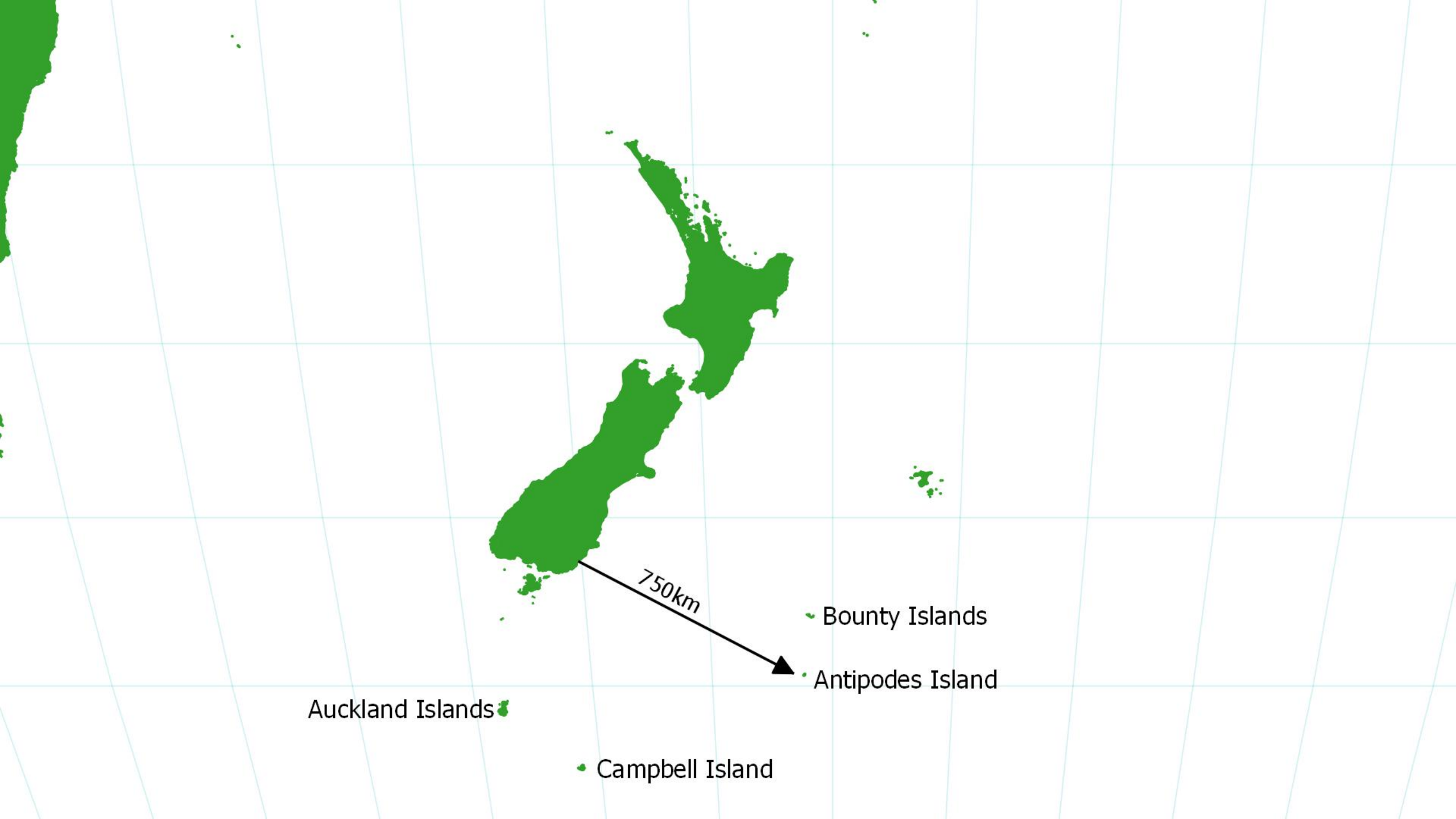


Antipodean wandering albatross: satellite tracking and population study
Antipodes Island 2020

Kath Walker
Graeme Elliott

June 2020





Auckland Islands

Campbell Island

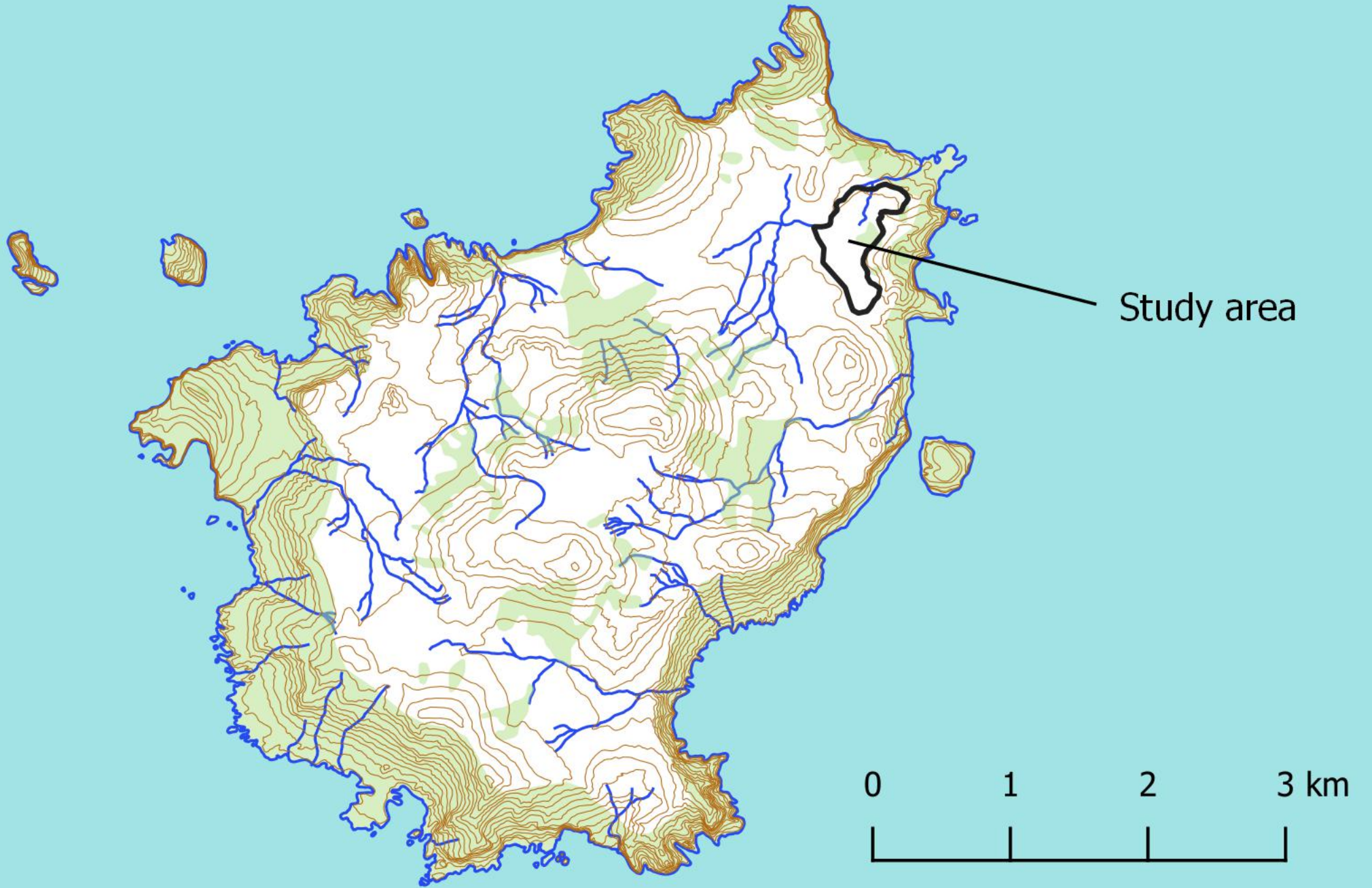
Bounty Islands

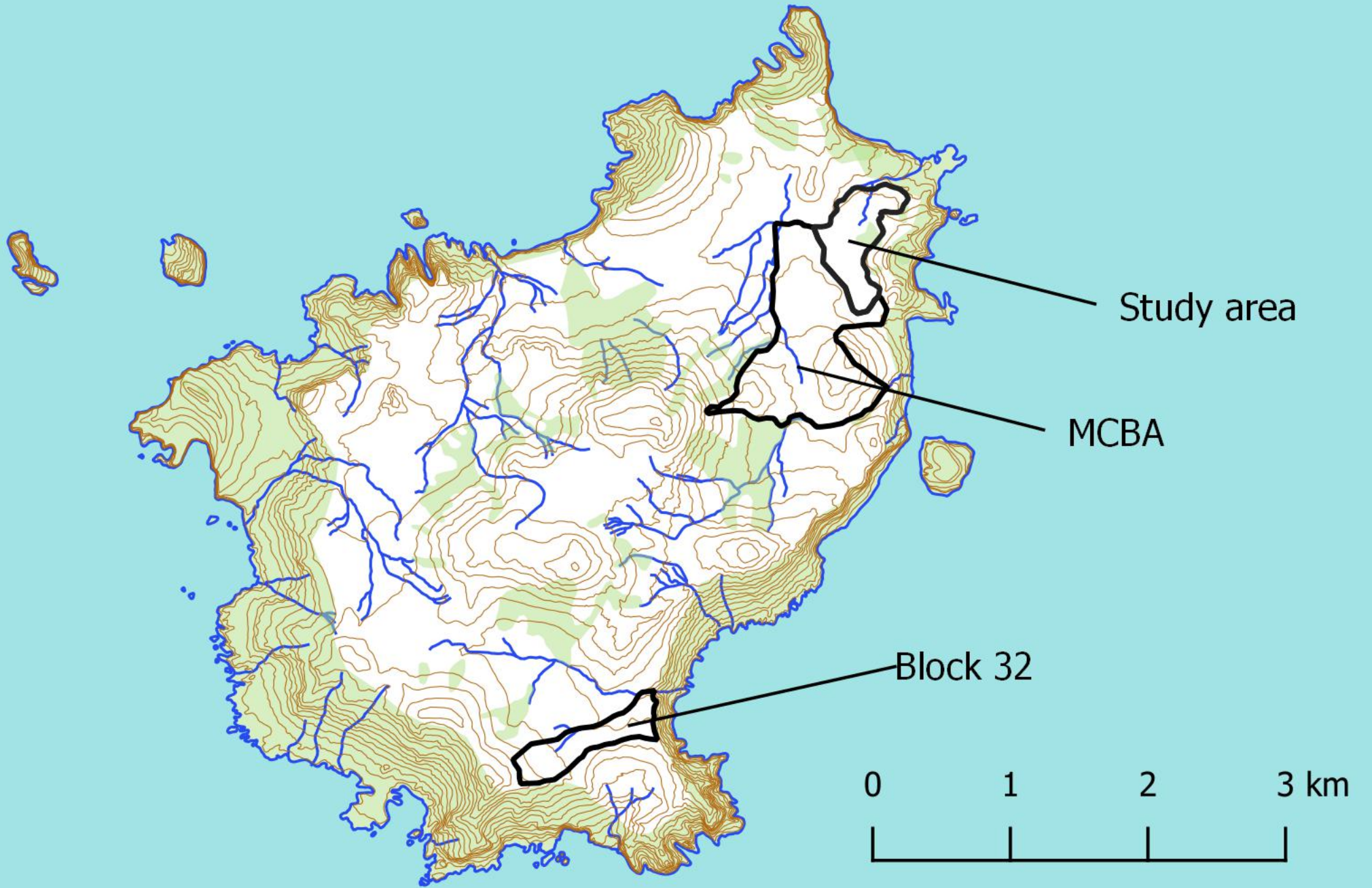
Antipodes Island

750km

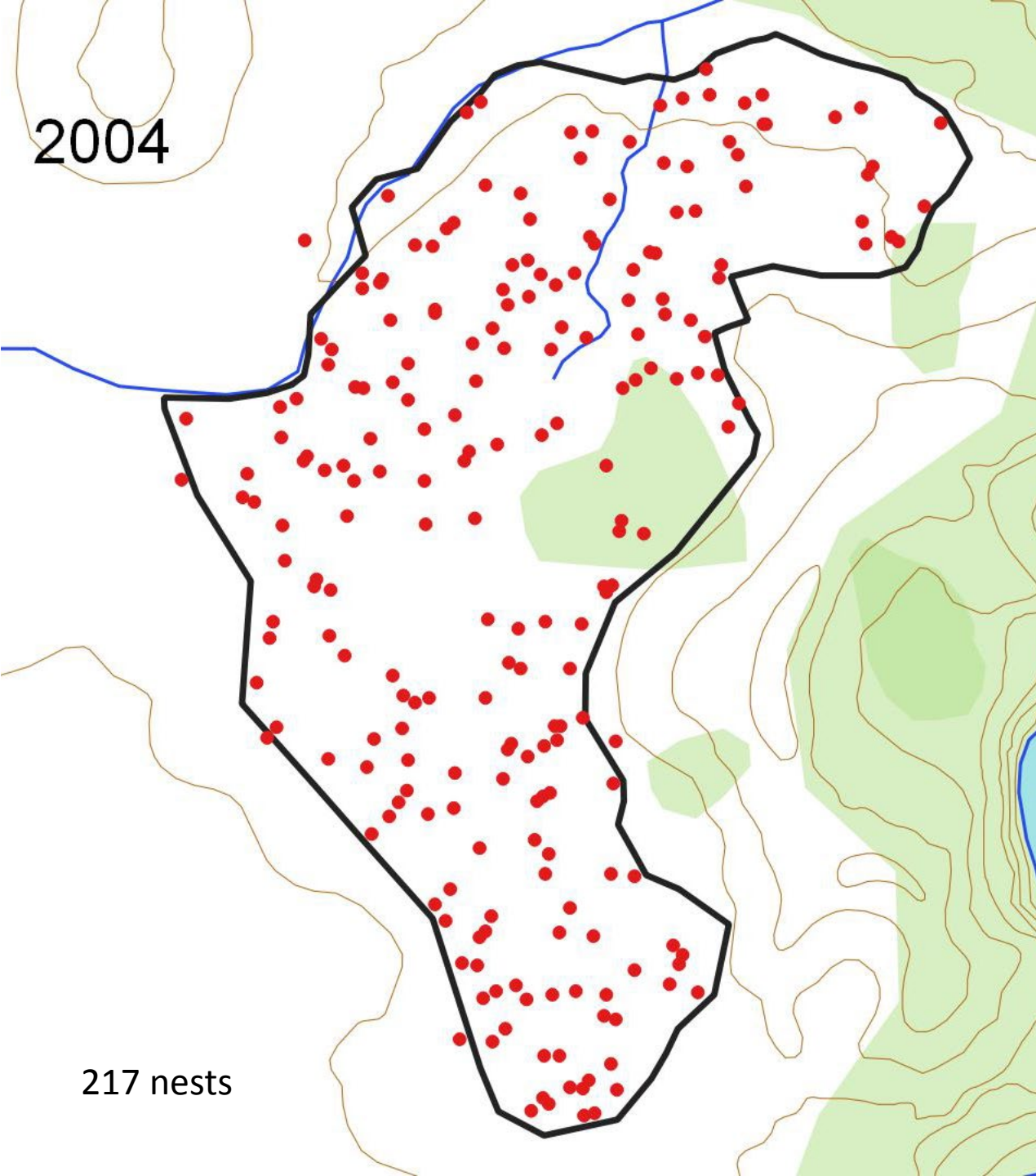






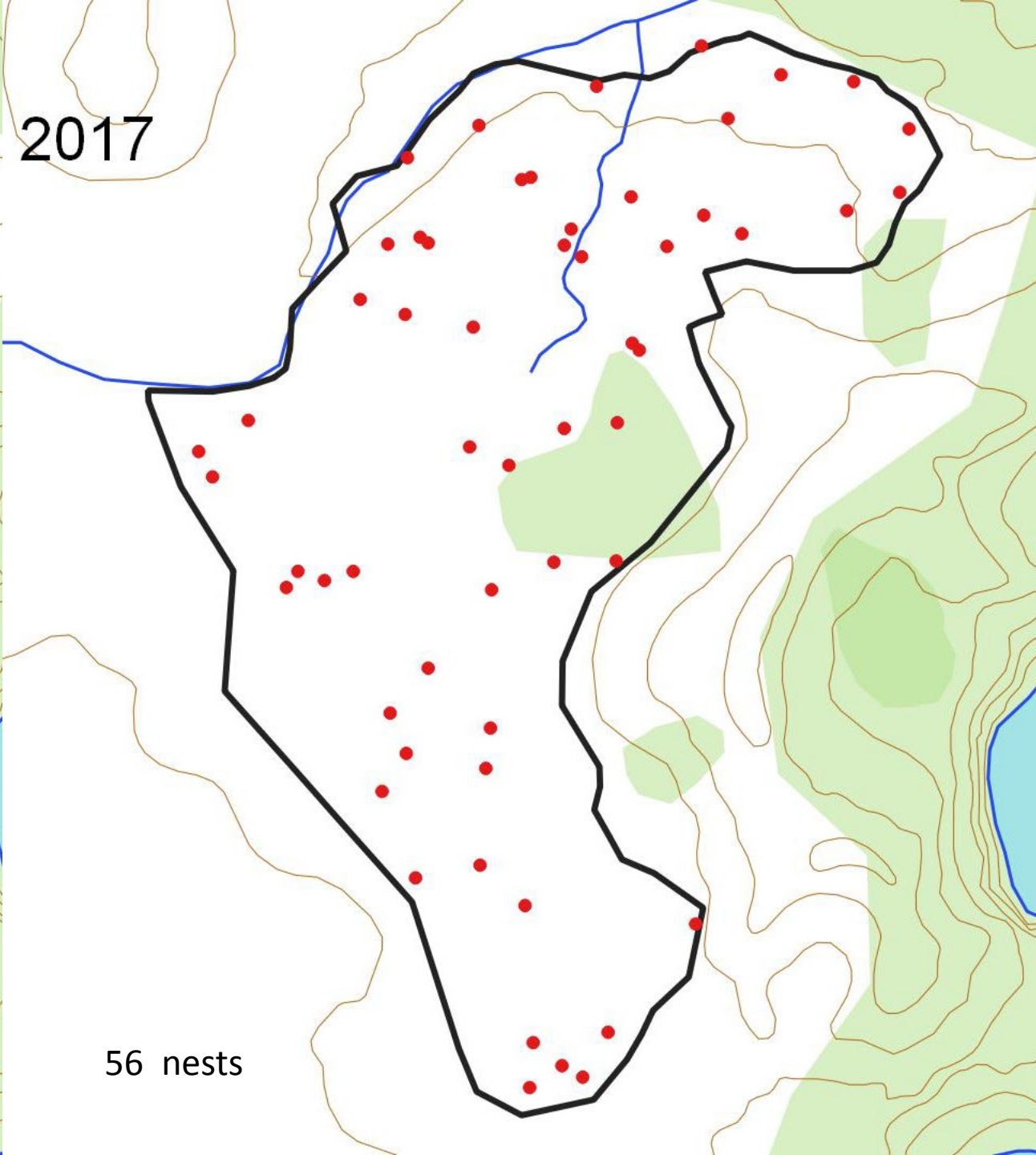


2004



217 nests

2017



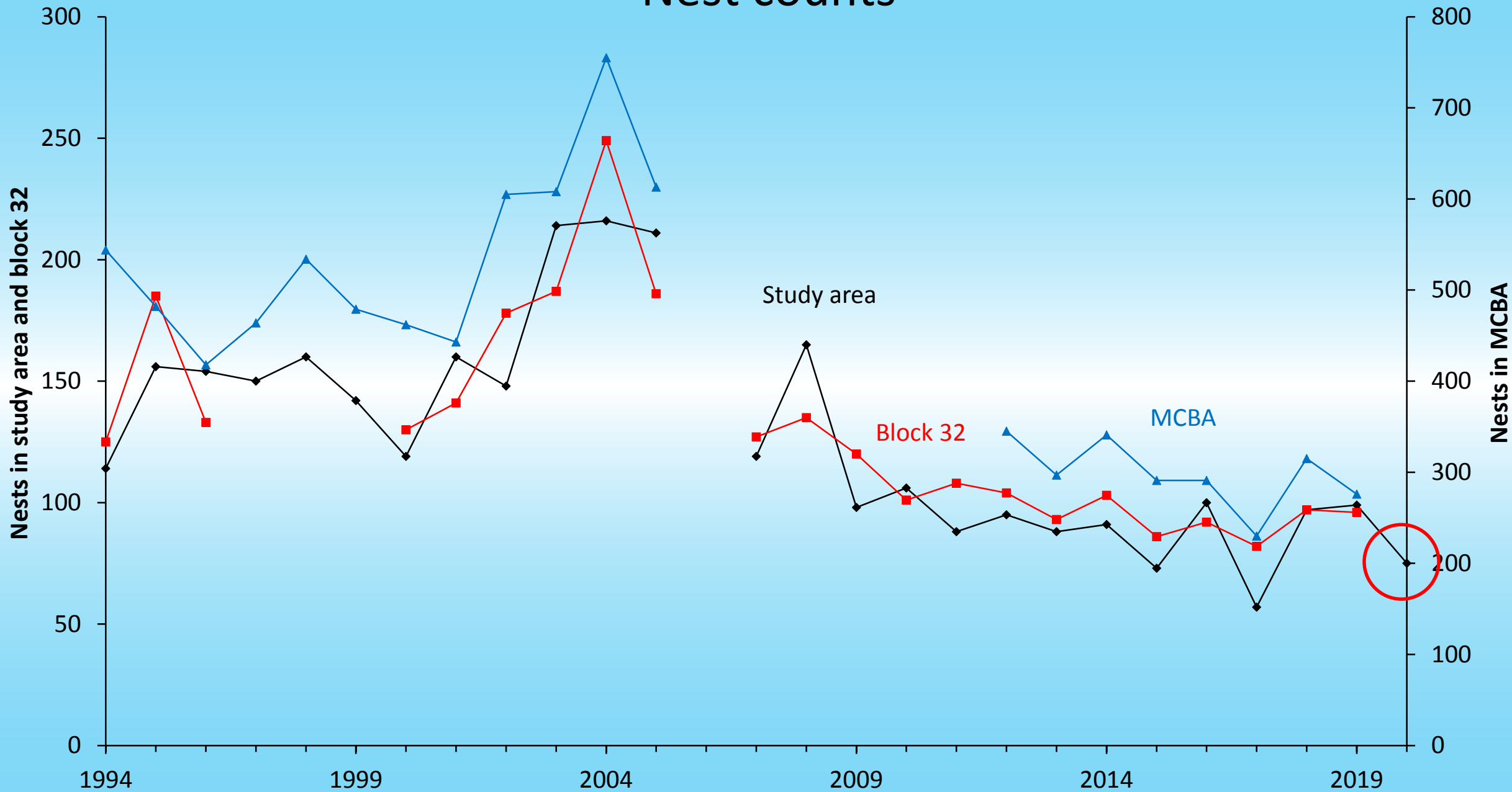
56 nests



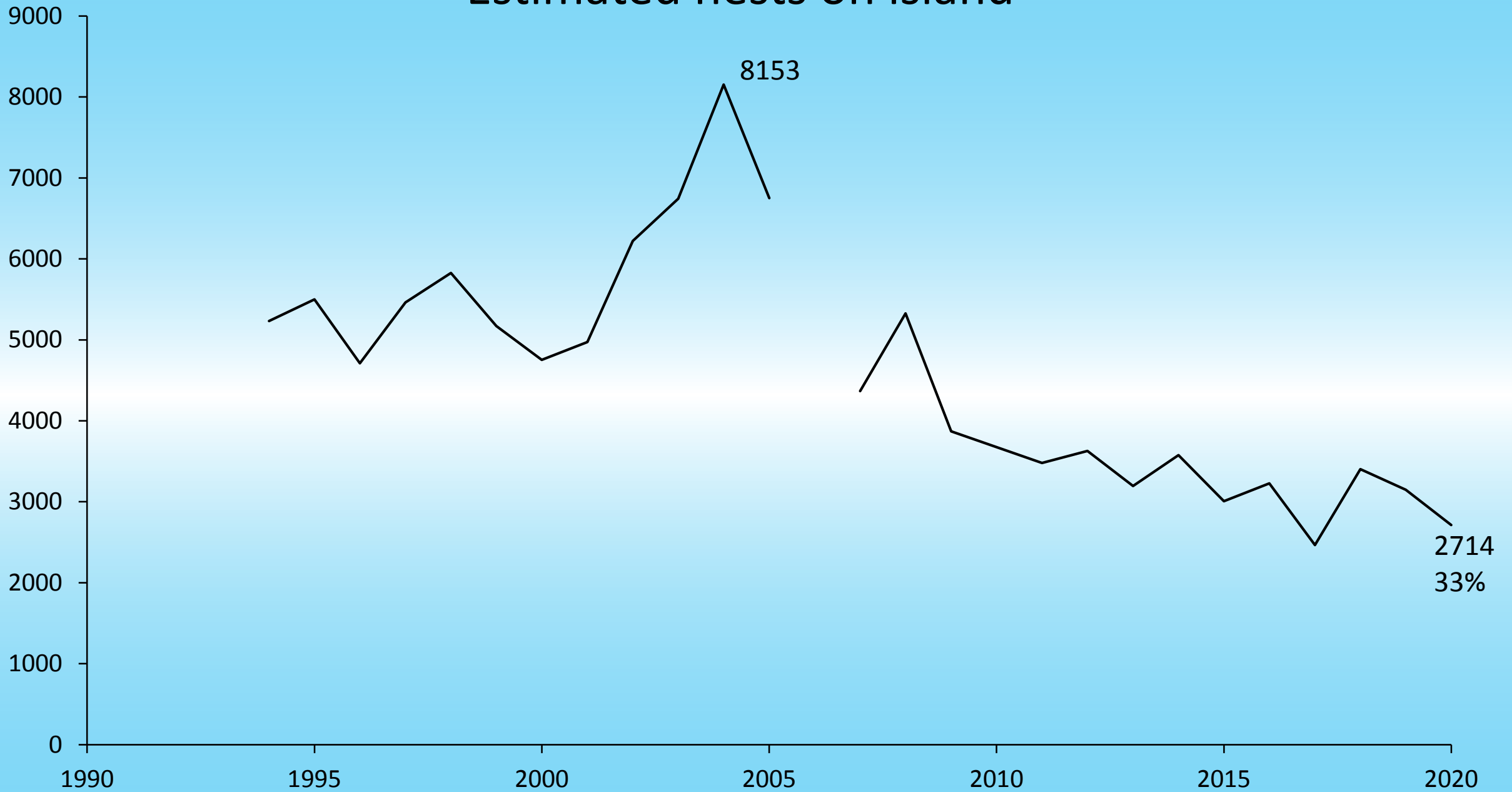
Short late trip

- We weren't able to band the chicks nor put sat tags on them.
- Assessed last year's nesting success – but a bit rough.
- Counted only the nests in the study area – not the other census blocks.
- Found, marked and mapped this year's nests – but might have missed a few that failed early.
- We recorded all the bands we saw – but missed some.
- Banded any nesting birds new to the study area – but missed a few.
- Recruitment estimate - rough.
- 40 satellite tags on adults.

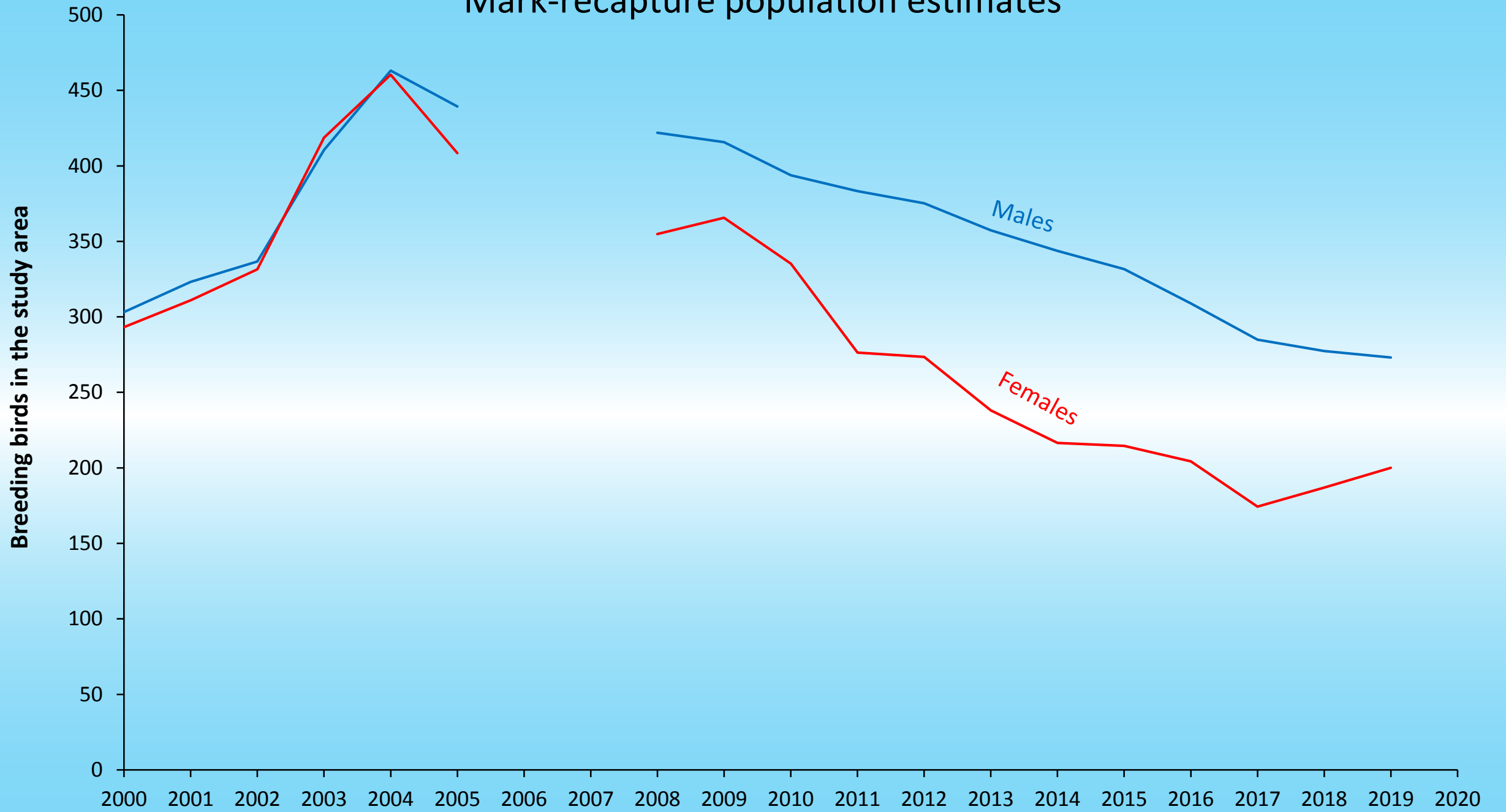
Nest counts



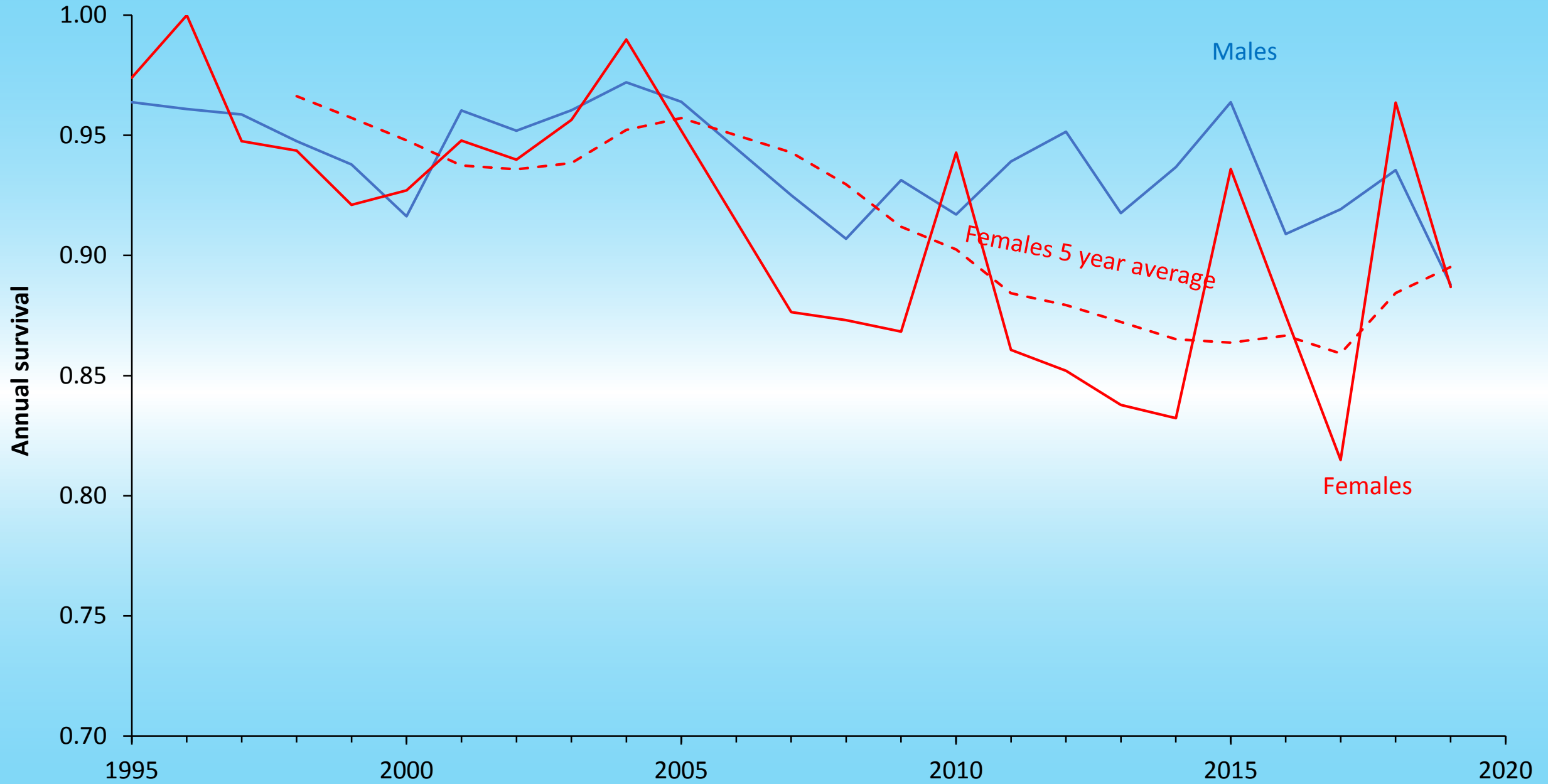
Estimated nests on island



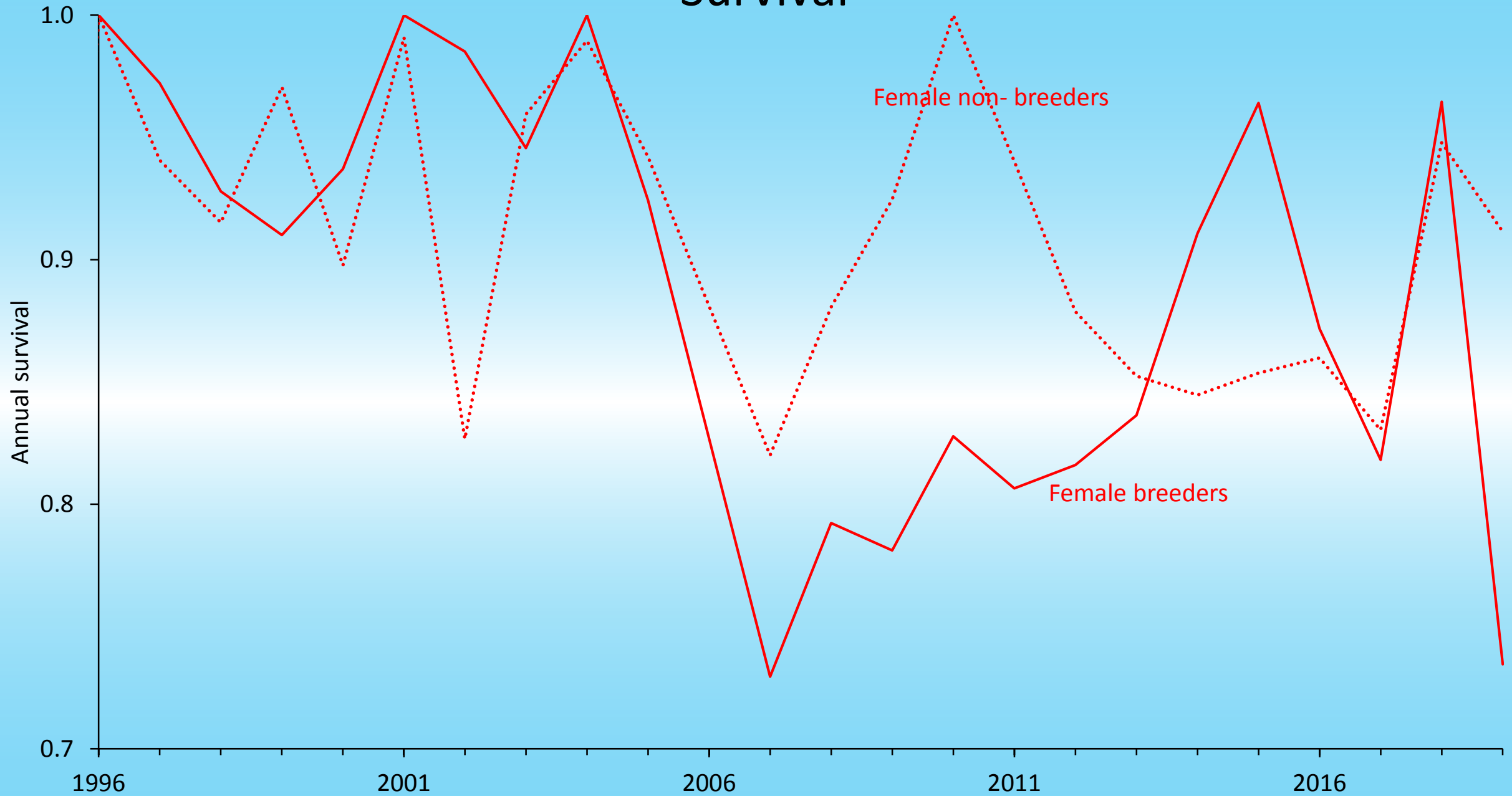
Mark-recapture population estimates



Survival



Survival



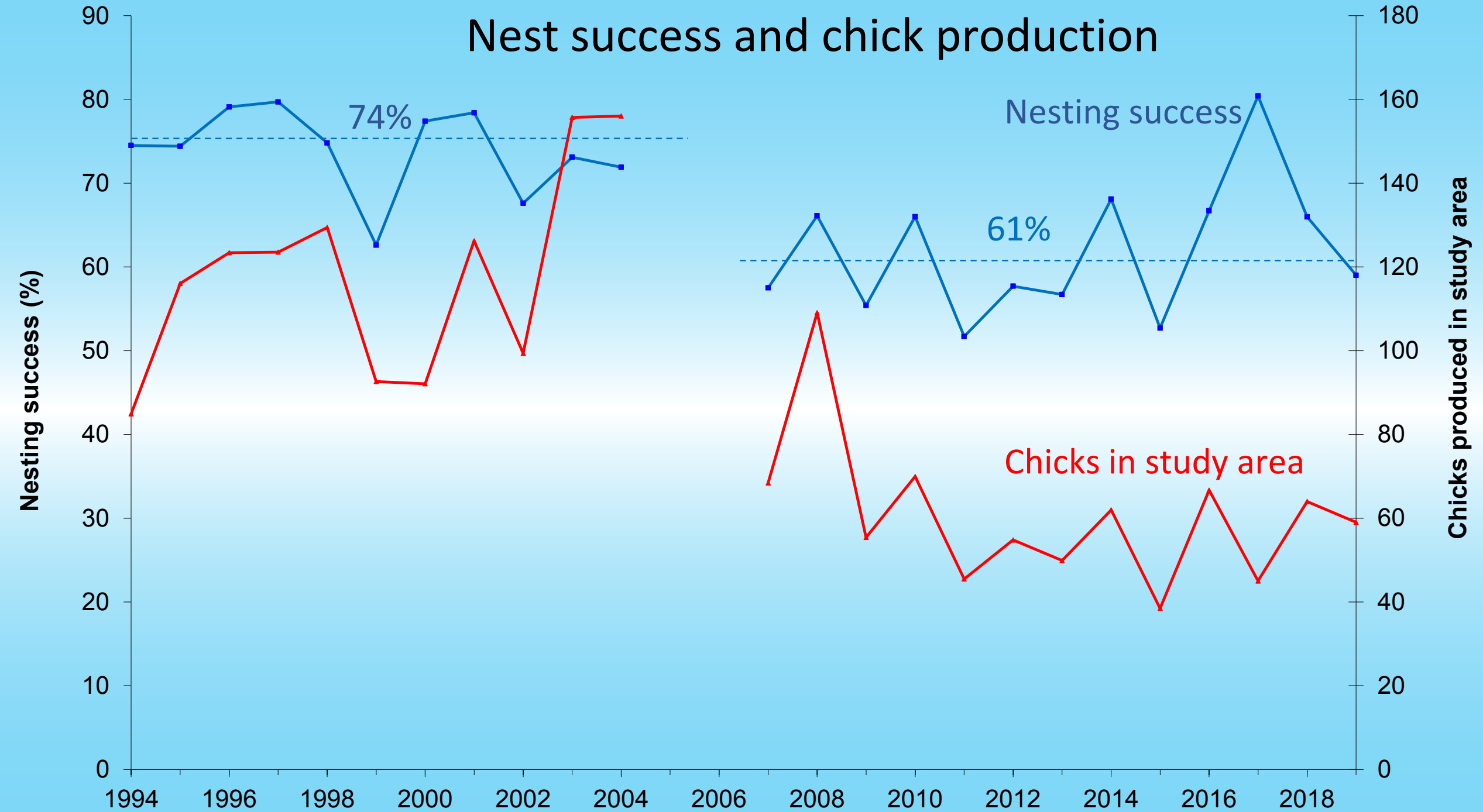
Survival



Recruitment

- Population is doing better than it might because of relatively high recruitment.
- The average age of new birds is 18 years – they hatched before the 2004 decline.
- Since 2004 few chicks produced each year – soon going to run out of new potential recruits.

Nest success and chick production



Last year's transmitters 2019 deployments

	Number of birds	Mean length of transmission (range)	Specs	Weight (g)
Sextant Technology, Xargos	20	62 (0-144)	Solar, gps, doppler shift	90
Lotek, Pinpoint	13	106 (12-242)	Battery, doppler shift	60
Wildlife Computers, Rainier S20	10	249 (76-410)	Solar, gps, doppler shift	30
Telonics, TAV2360	20	301 (108-389)	Battery, doppler shift	45





Last year's transmitters 2019 deployments

	Male			Female			
	Breeder	Non-breeder	Chick	Breeder	Non-breeder	Chick	Total
Wildlife Computers				2	8		10
Telonics			10			10	20
Pinpoint		9		3	1		13
Sextant	3	2		8	7		20
Total	3	11	10	13	16	10	63

This year's transmitters 2020 deployments

			<i>N</i>
Microwave Telemetry	Solar-powered, GPS, doppler shift.	22g	10
GeoTrak	Solar-powered, GPS, doppler shift.	22g	10
Telonics TAV2630	Battery-powered, doppler shift.	35g	20
Total			40
Undeployed Telonics			23

This year's transmitters 2020 deployments

	Females			Males			<i>N</i>
	breeders	non- breeders	Pre- breeders	breeders	non- breeders	Pre- breeders	
Microwave Telemetry		6	3	1			10
GeoTrak	4		1	2	2	1	10
Telonics TAV2630	6		5	4	3	2	20
Total	10	6	9	7	5	3	40







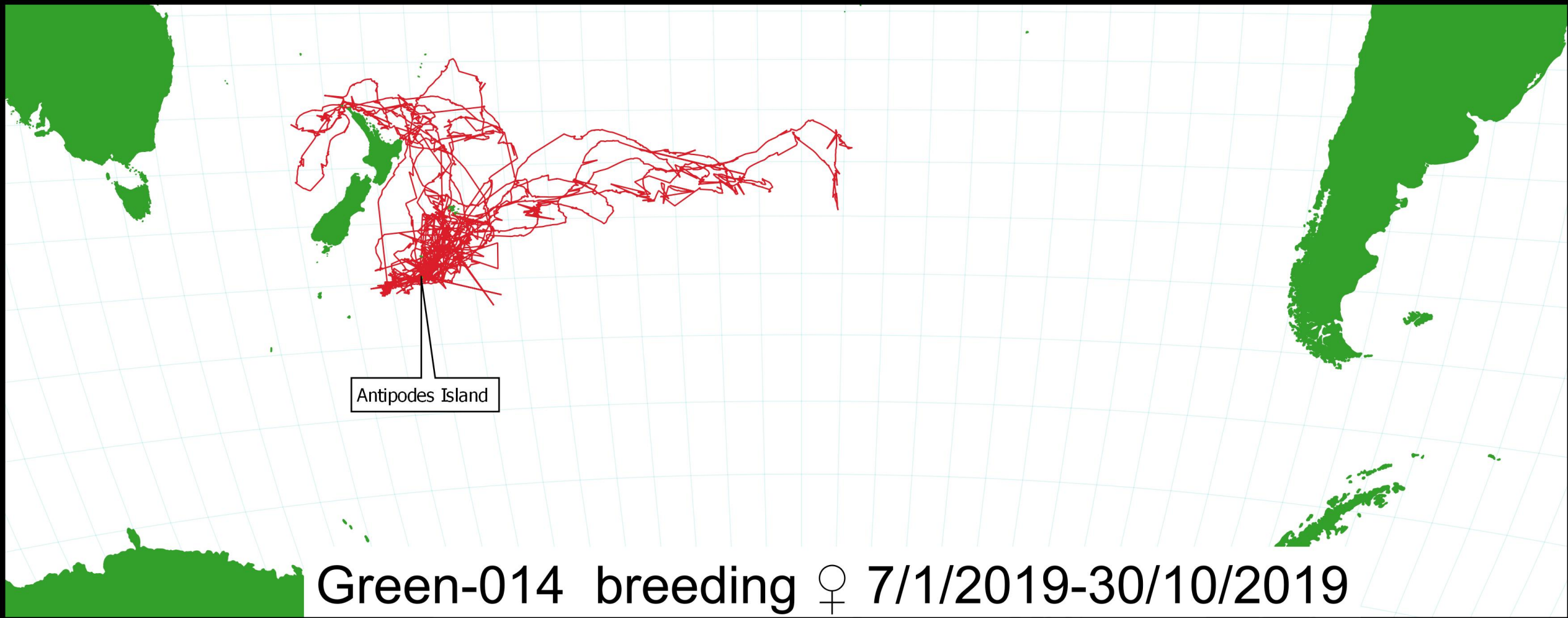


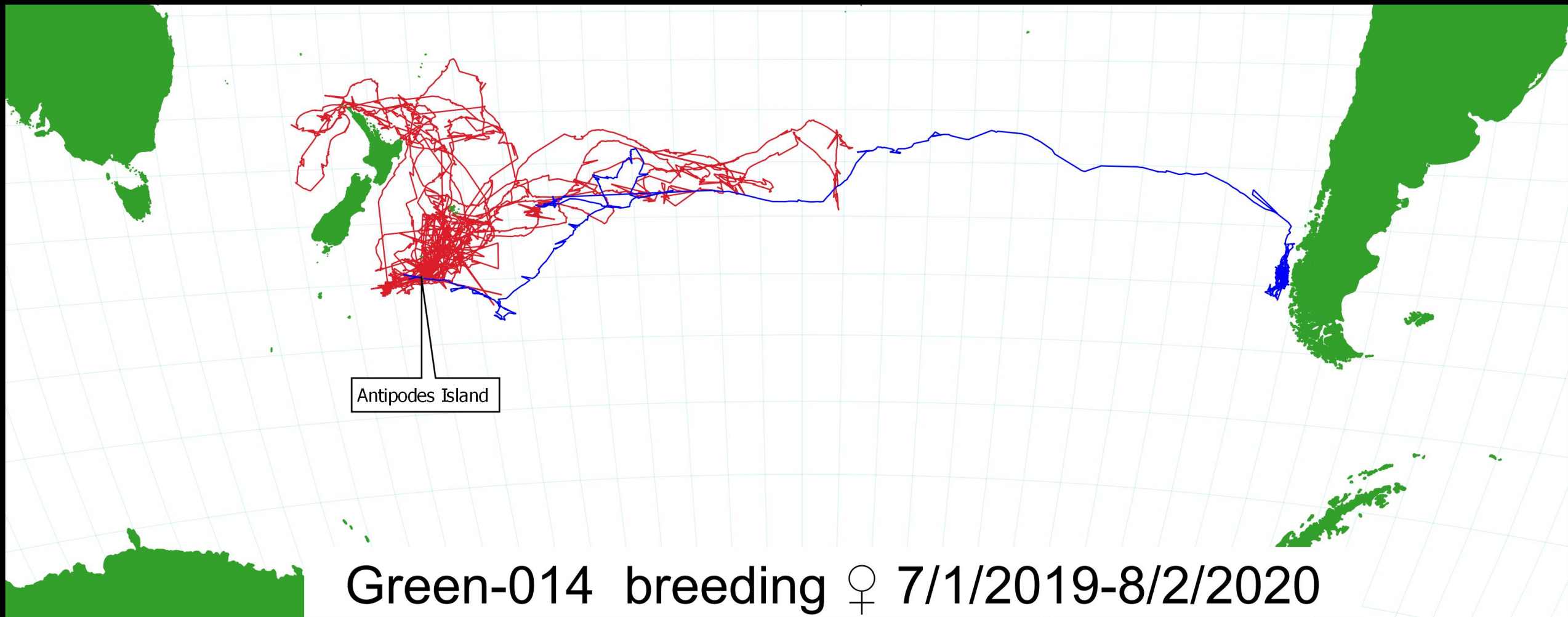


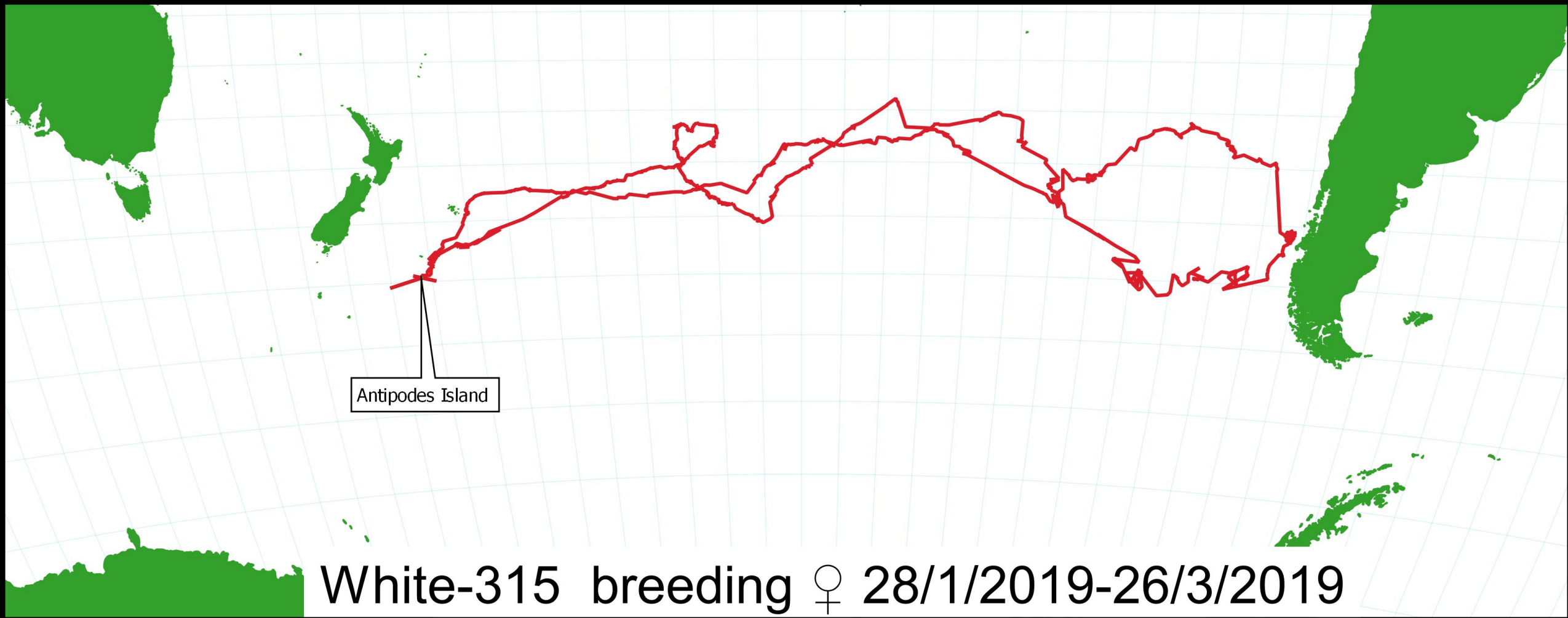


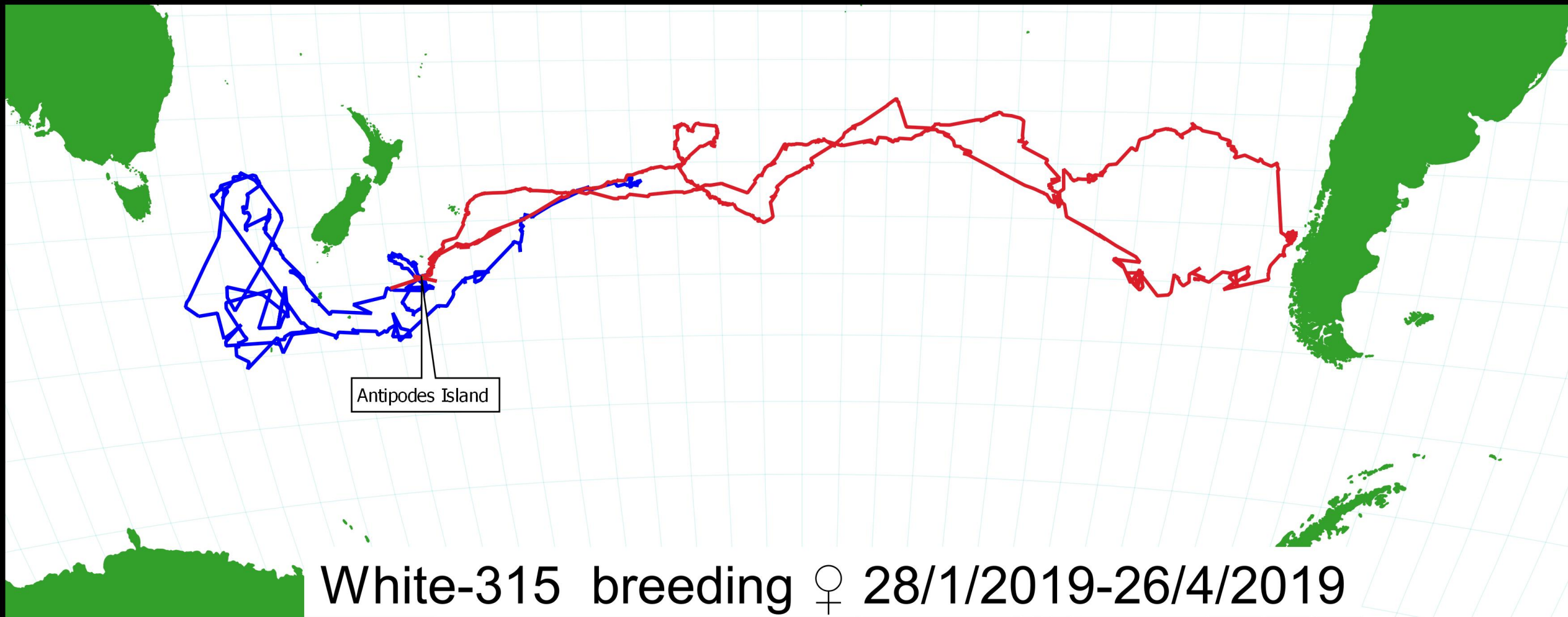












Antipodes Island

White-315 breeding ♀ 28/1/2019-26/4/2019