

Population study of Gibson's Wandering Albatross

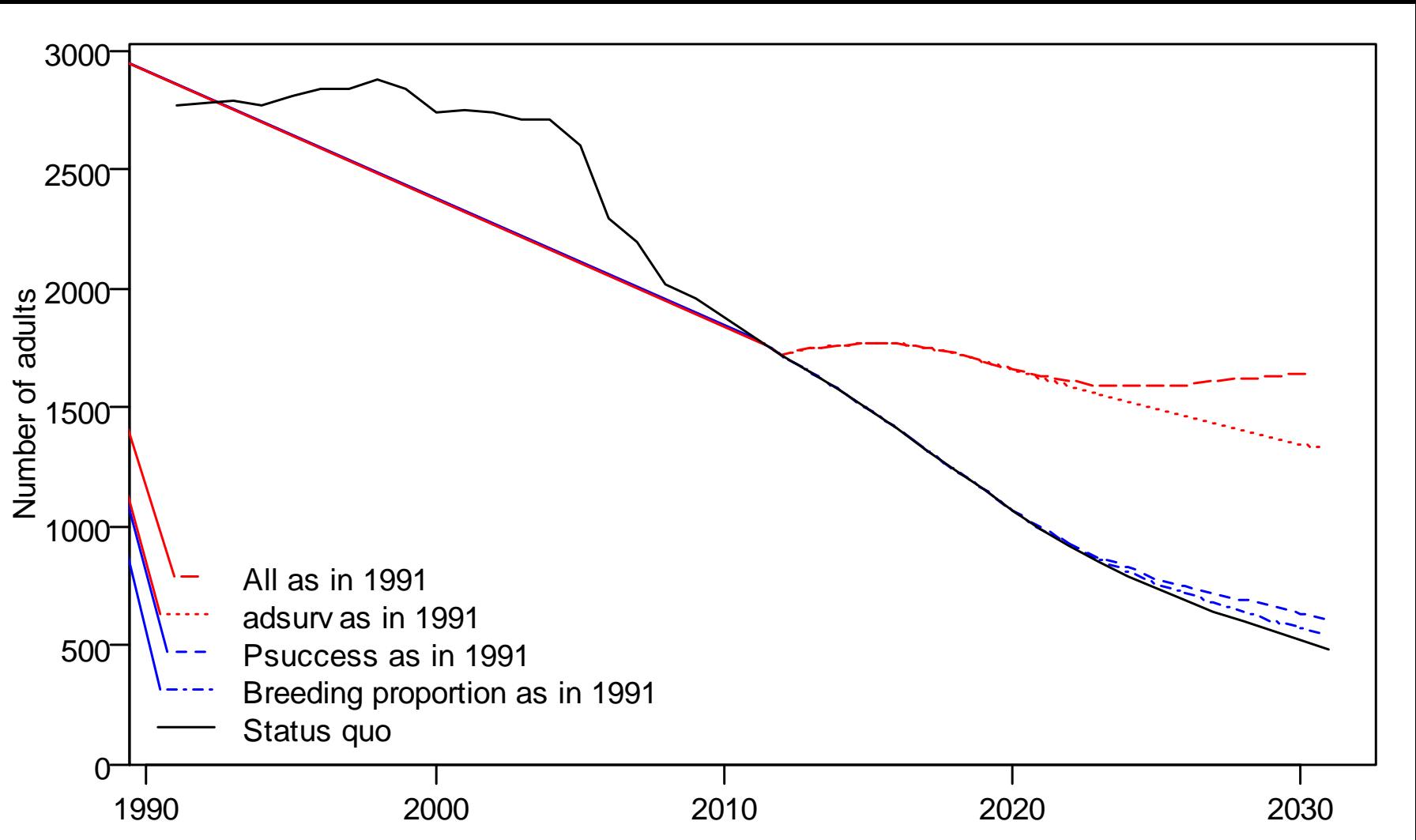


Kath Walker

Graeme Elliott

Graham Parker

Kalinka Rexer-Huber

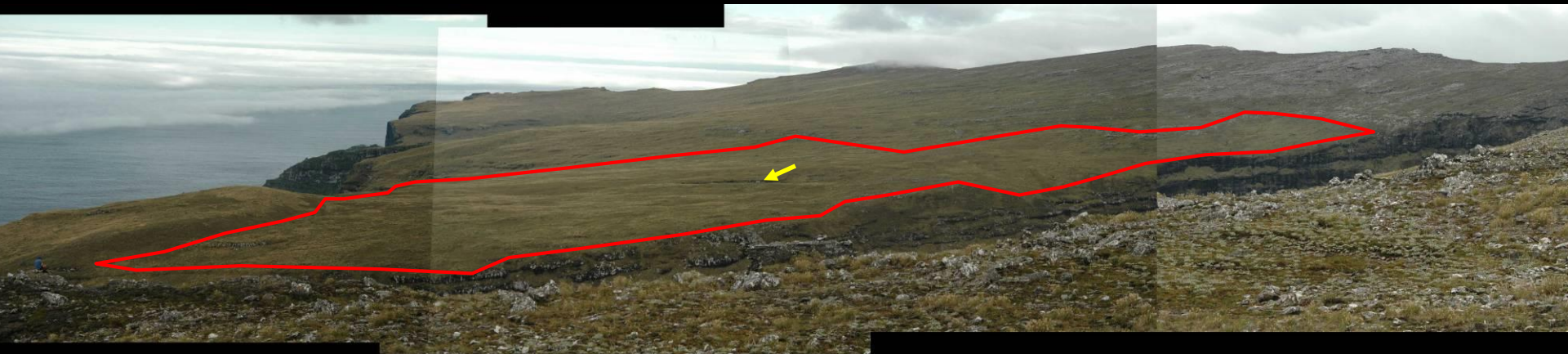












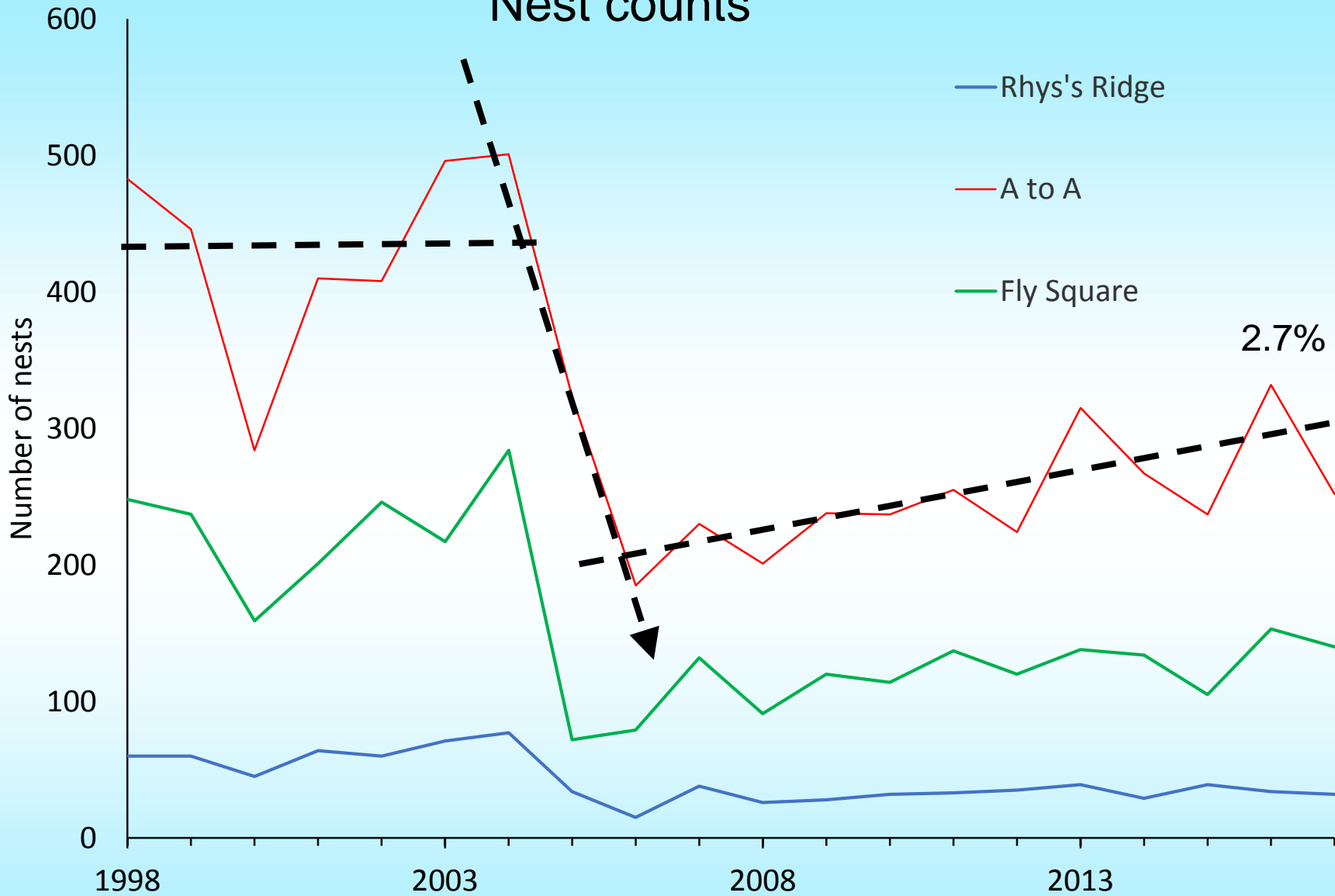


Wandering albatross breeding timetable

- It takes a year to raise a chick
 - Lay in January
 - Chicks fledge in the following December – February
- In one visit to the island in Jan – Feb you can collect all the data you need

- Assess the nesting success of the previous year's nests and band the chicks in the study area
- Band and resight birds nesting in the study area for mark-recapture analysis
- Mark and map all the nests
- Count the nests in the census blocks
- Sufficient data for a population model

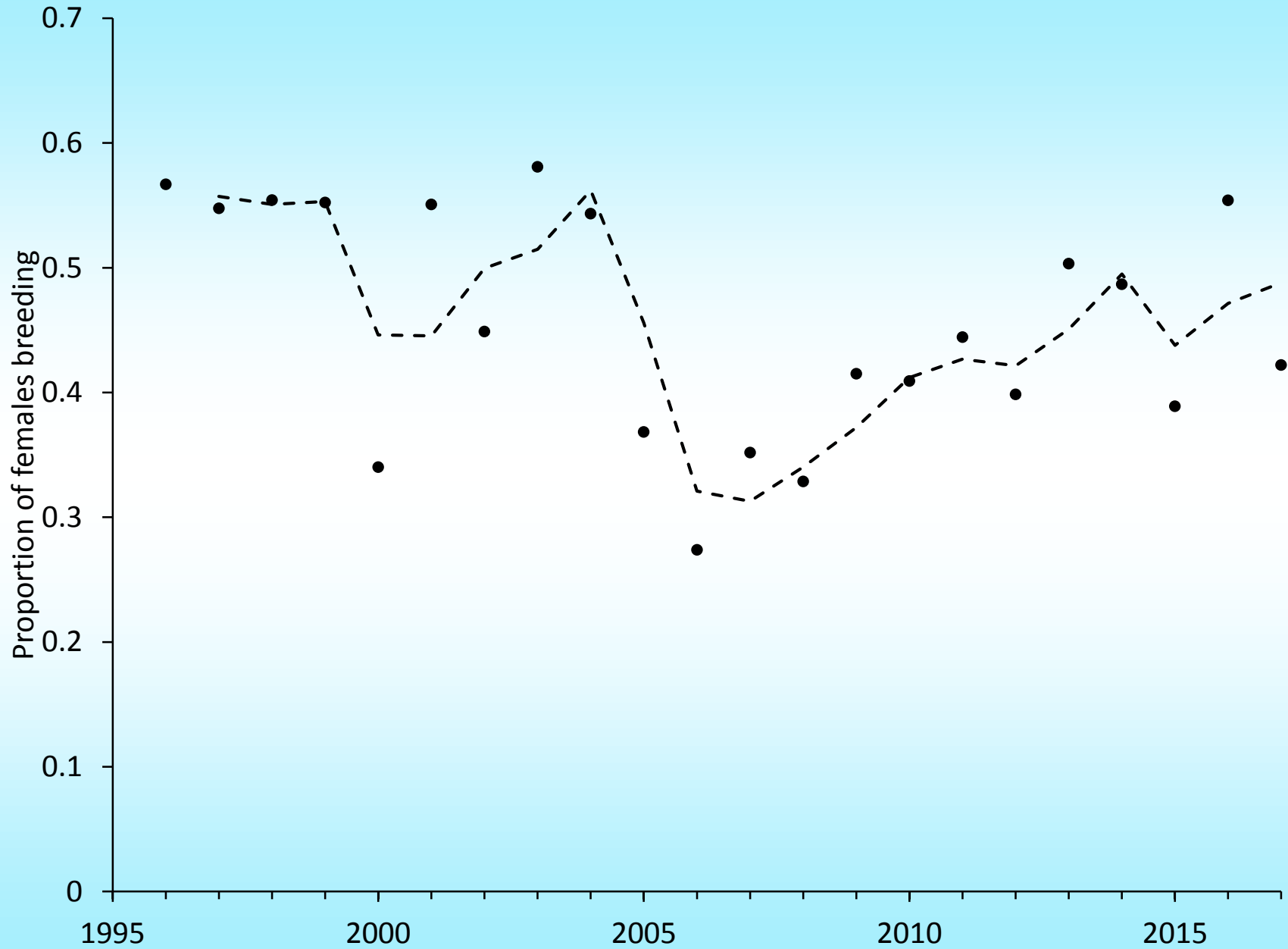
Nest counts



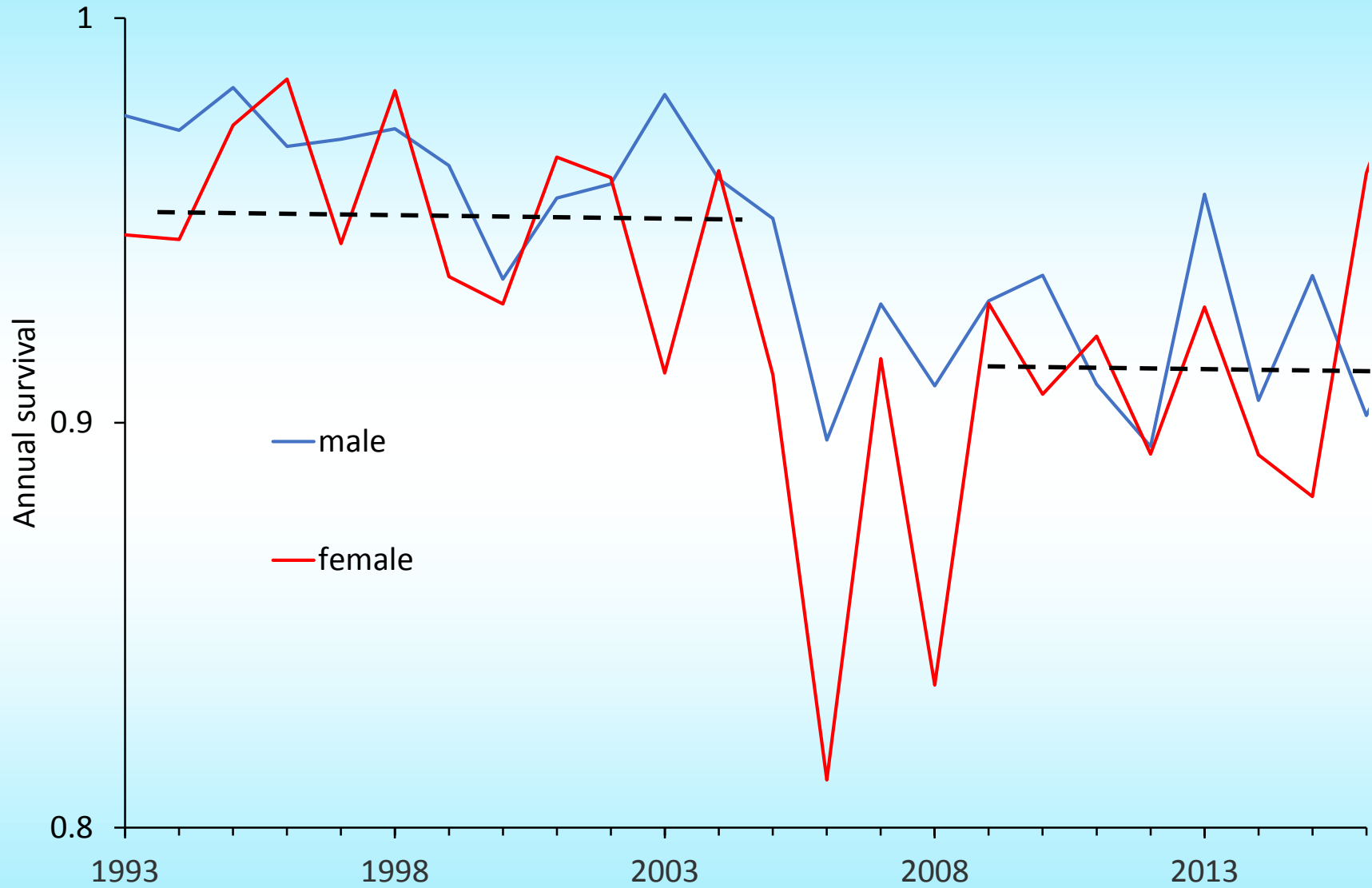
Mark-recapture estimates of the number of breeders



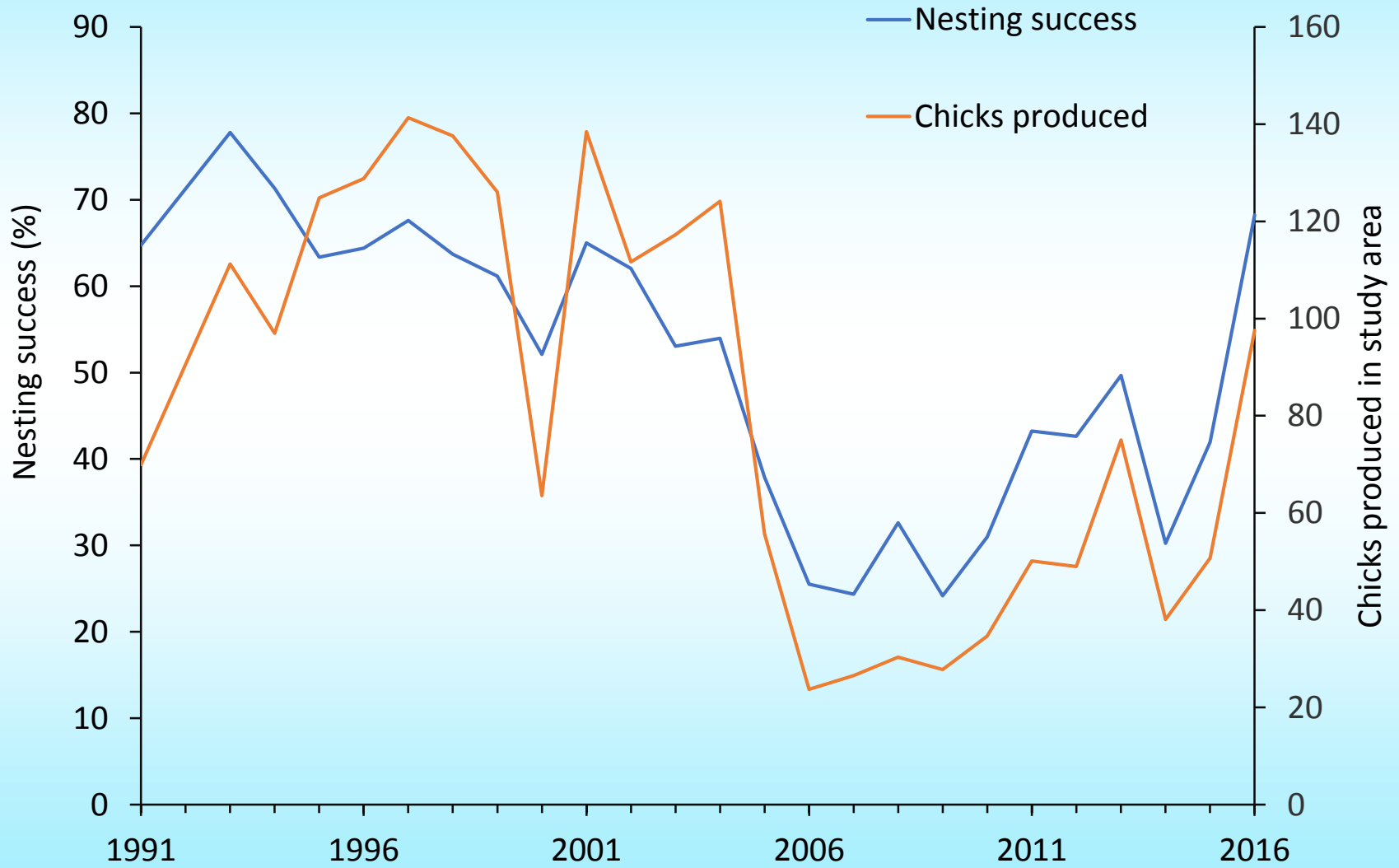
Proportion of females breeding



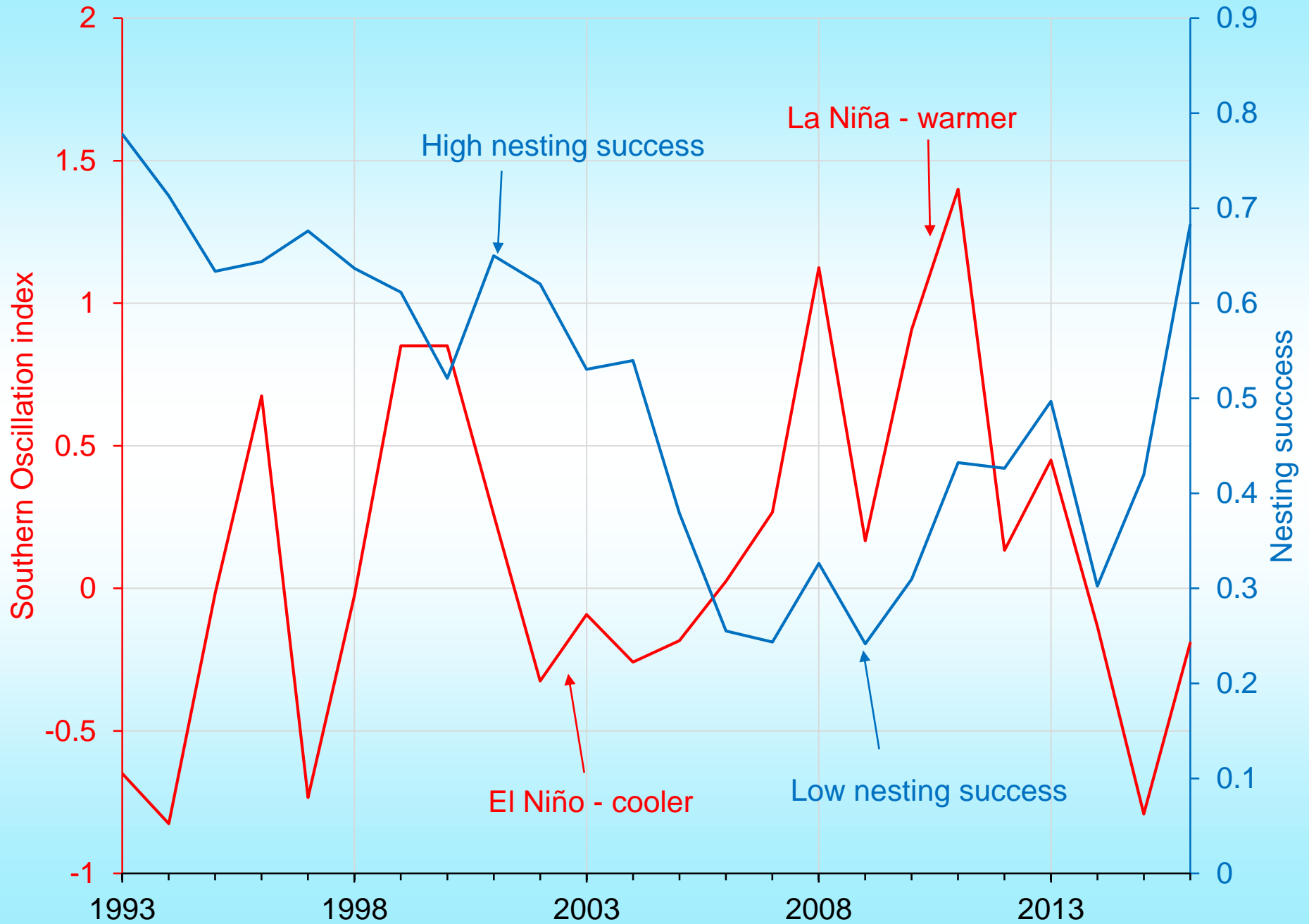
Adult survival



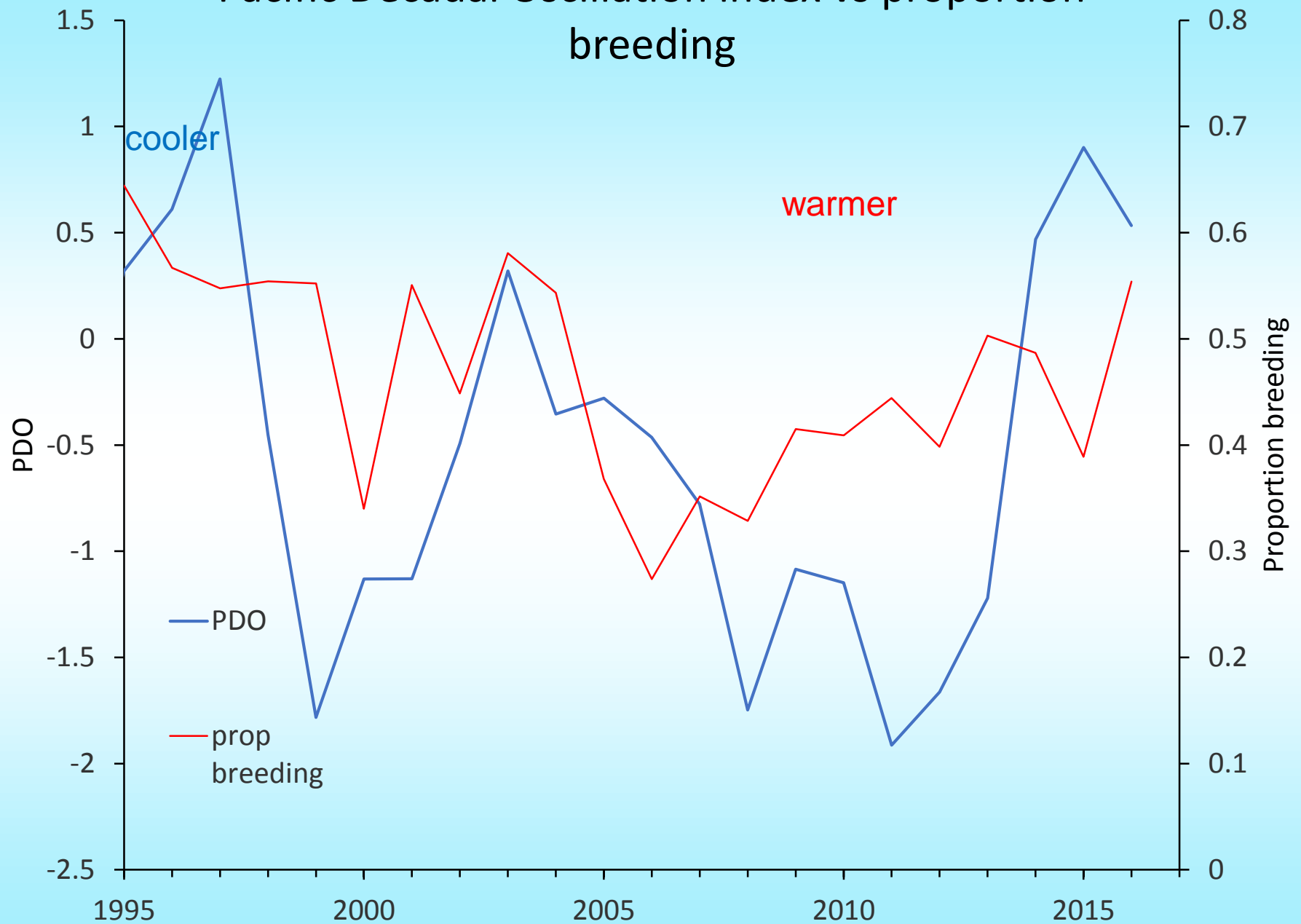
Nesting success and productivity



Southern Oscillation index vs Nesting success



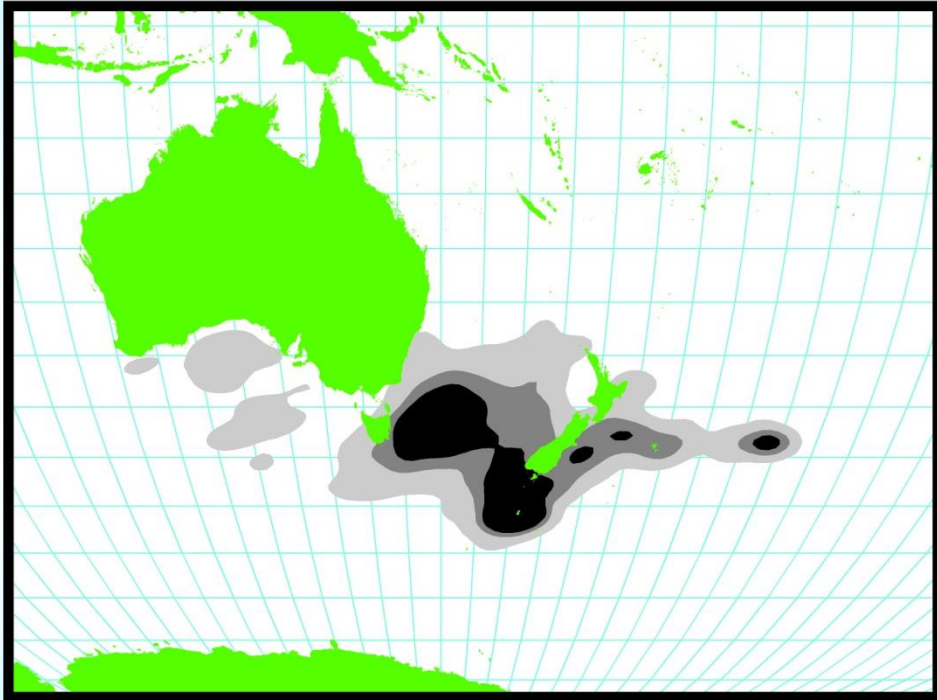
Pacific Decadal Oscillation index vs proportion breeding



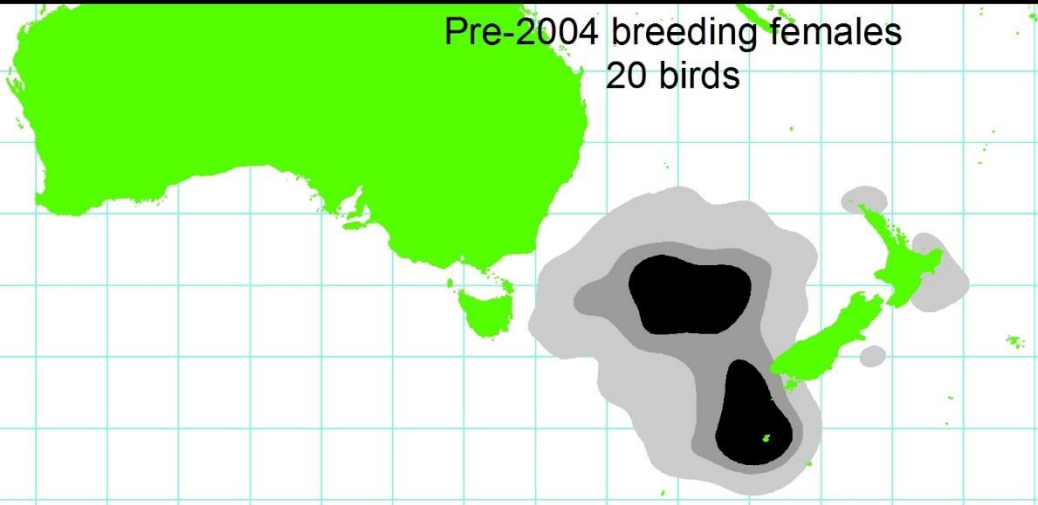


Geolocator dataloggers

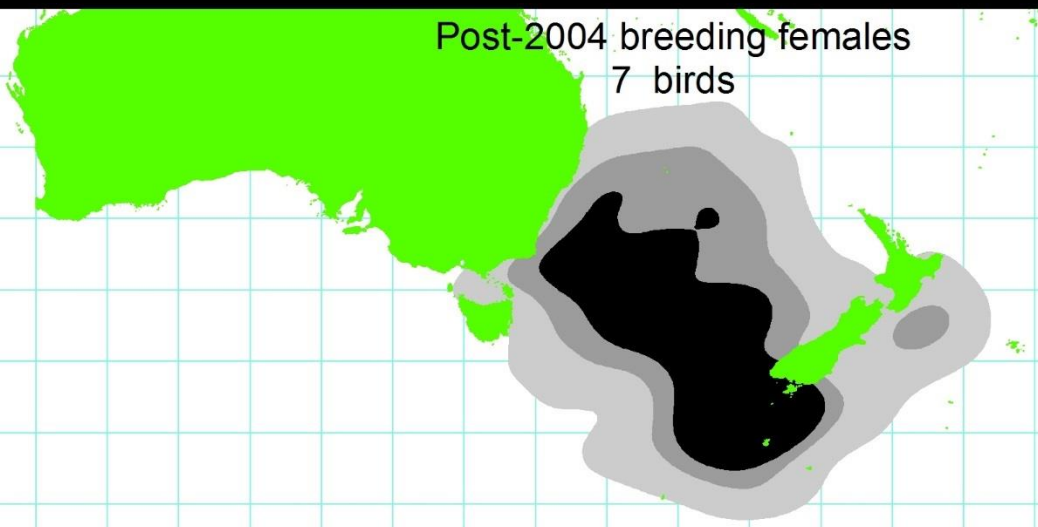
Before 2005
23 Males



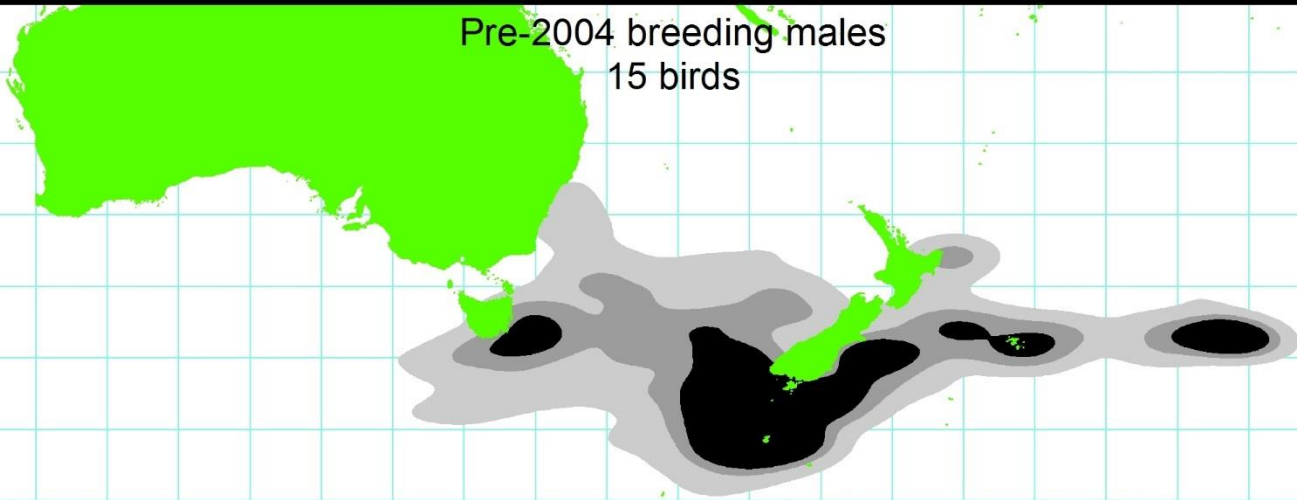
Pre-2004 breeding females
20 birds



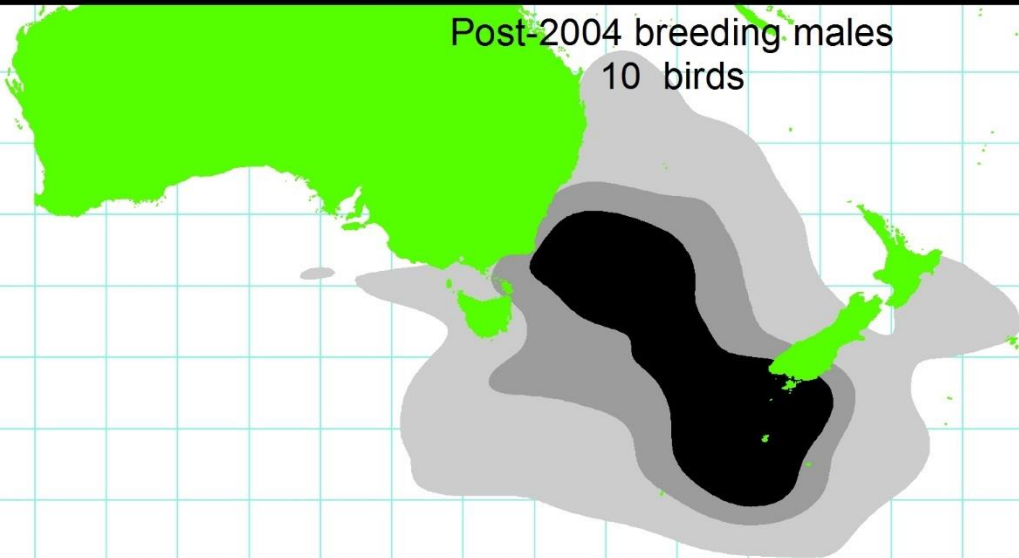
Post-2004 breeding females
7 birds



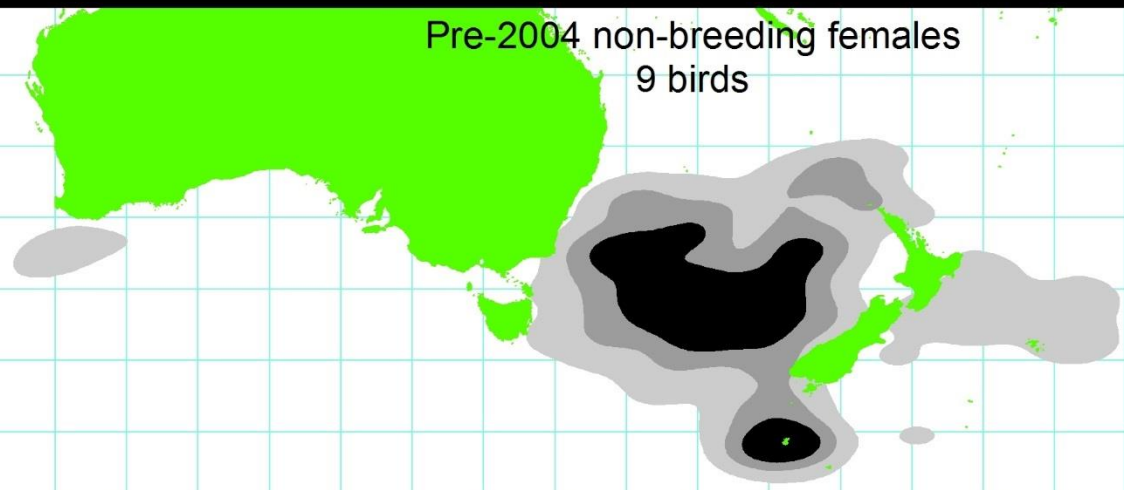
Pre-2004 breeding males
15 birds



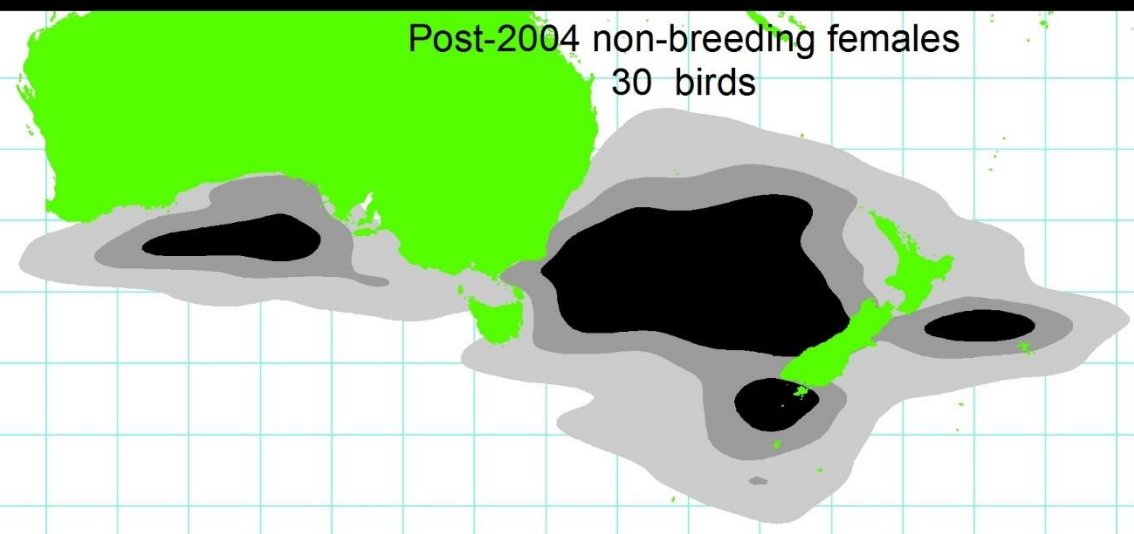
Post-2004 breeding males
10 birds



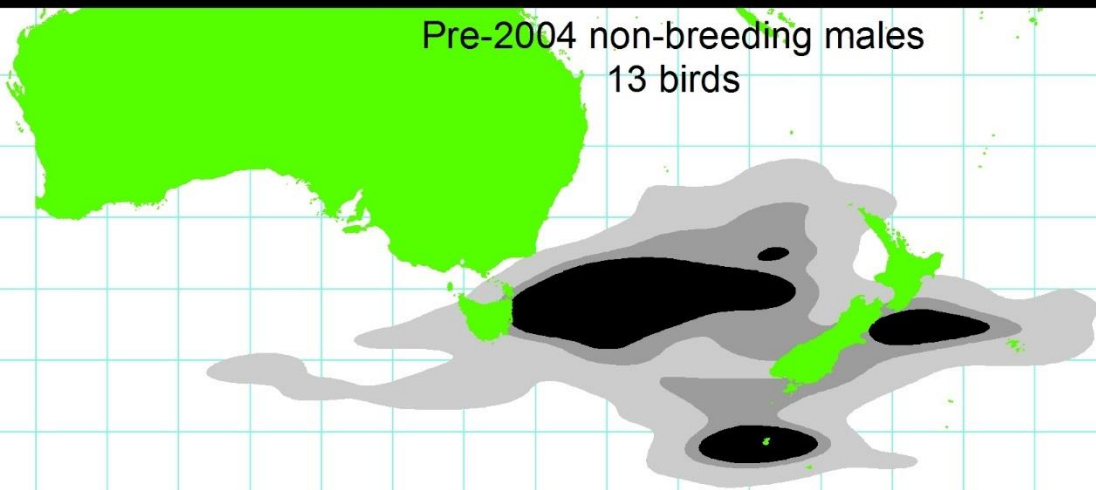
Pre-2004 non-breeding females
9 birds



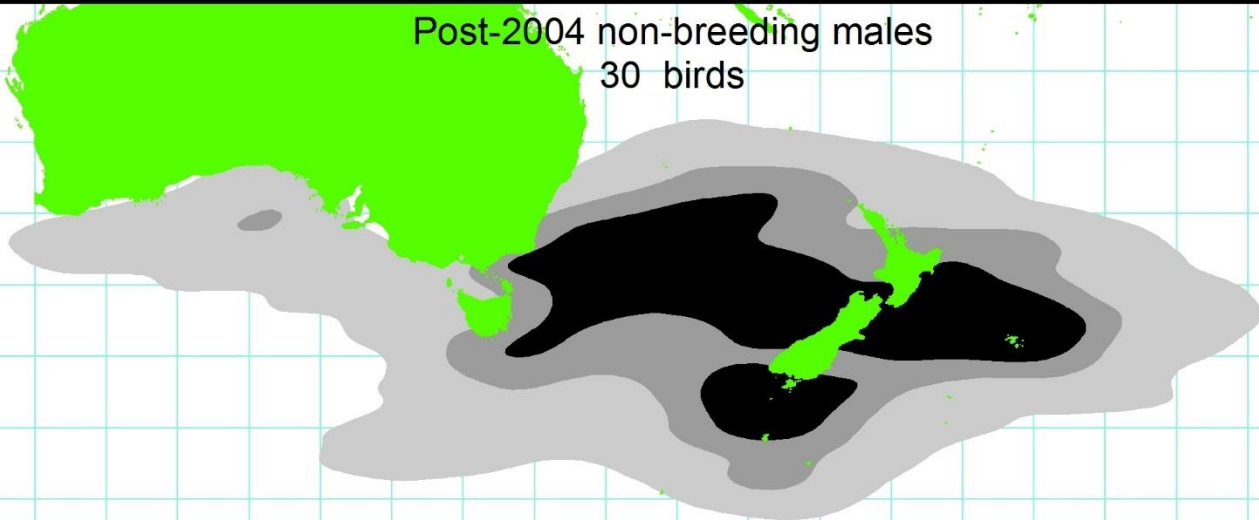
Post-2004 non-breeding females
30 birds



Pre-2004 non-breeding males
13 birds



Post-2004 non-breeding males
30 birds



- Lower survival
- Lower productivity
- Foraging more widely
- Things are starting to look up.

