

# At-sea distributions of the *Thalassarche* and *Phoebetria* albatrosses of the Prince Edward Islands

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BM Dyer, L Upfold

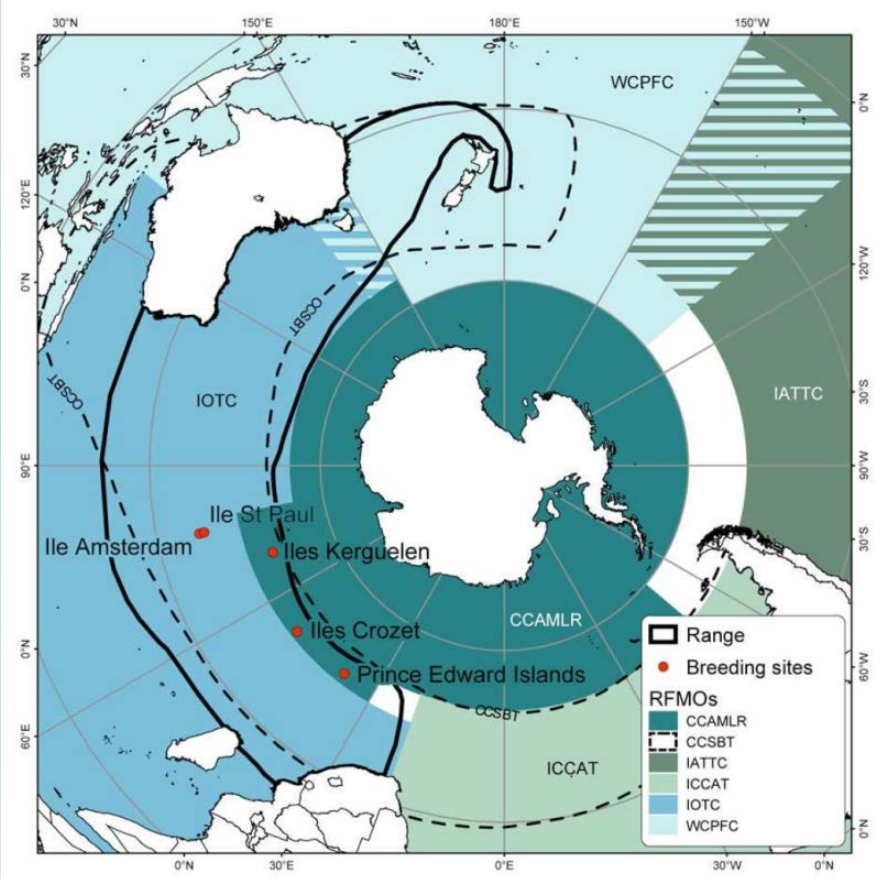


photo BirdLife International

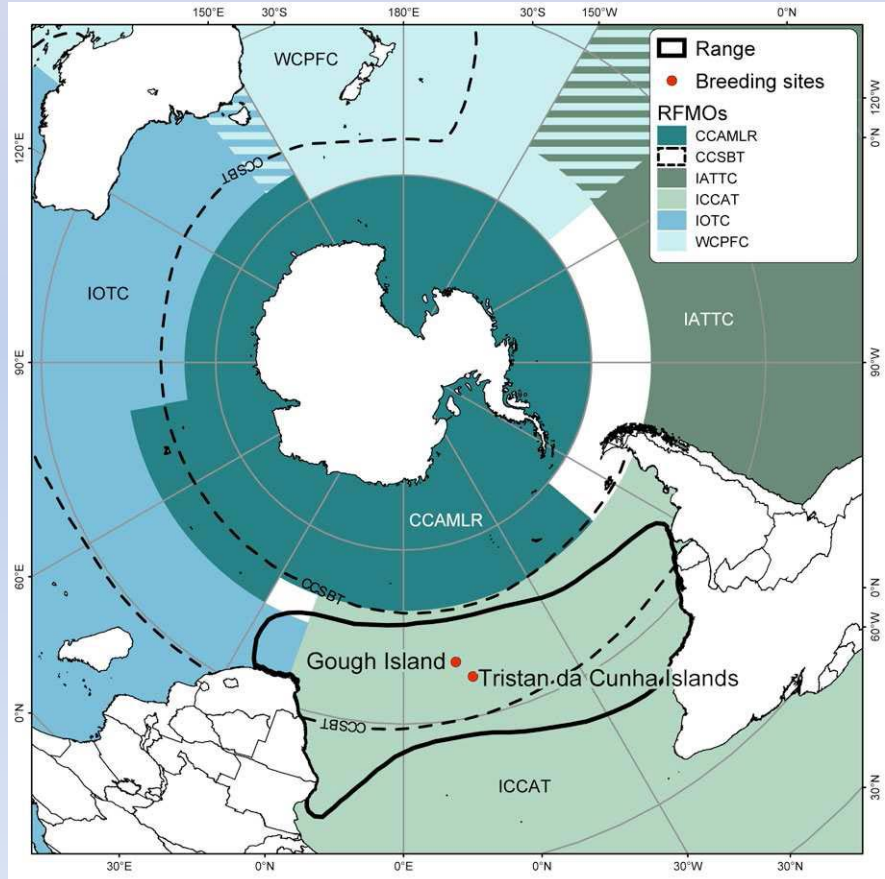


# Breeding localities of Yellow-nosed Albatrosses

from Agreement on the Conservation of Albatrosses and Petrels (2009)



**Indian Yellow-nosed Albatross**  
*T. carteri*

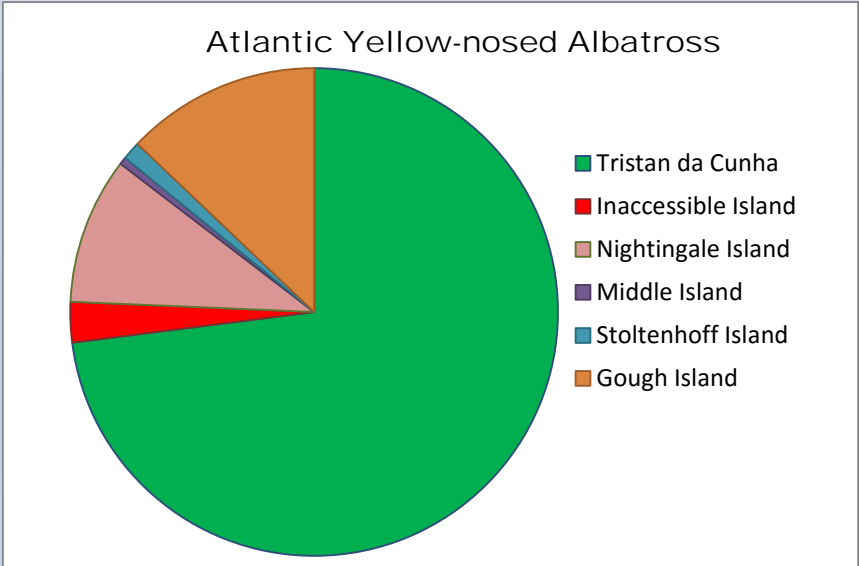
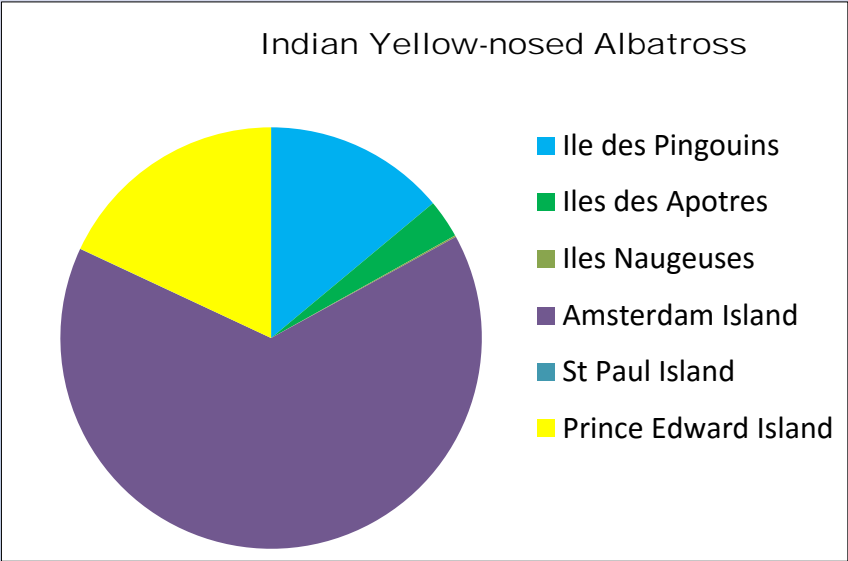


**Atlantic Yellow-nosed Albatross**  
*T. chlororhynchus*



# Contributions of breeding localities to overall populations of Yellow-nosed Albatrosses

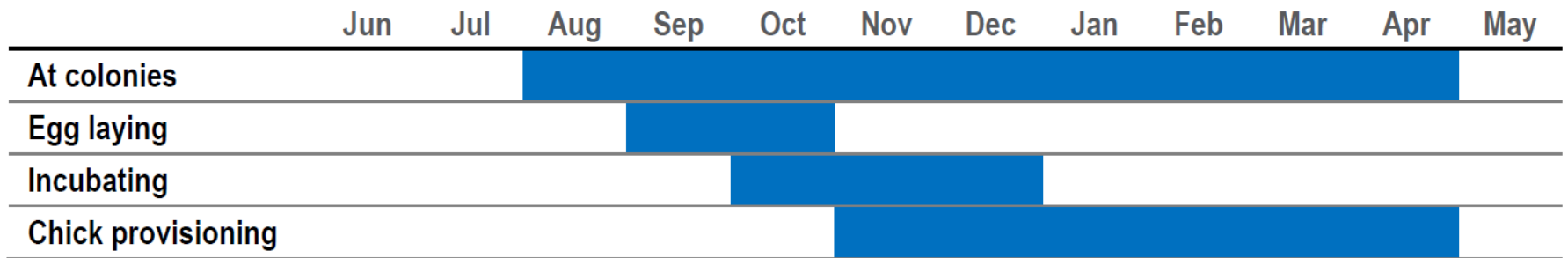
from information in Agreement on the Conservation of Albatrosses and Petrels (2009)



# Breeding cycle of Indian Yellow-nosed Albatross

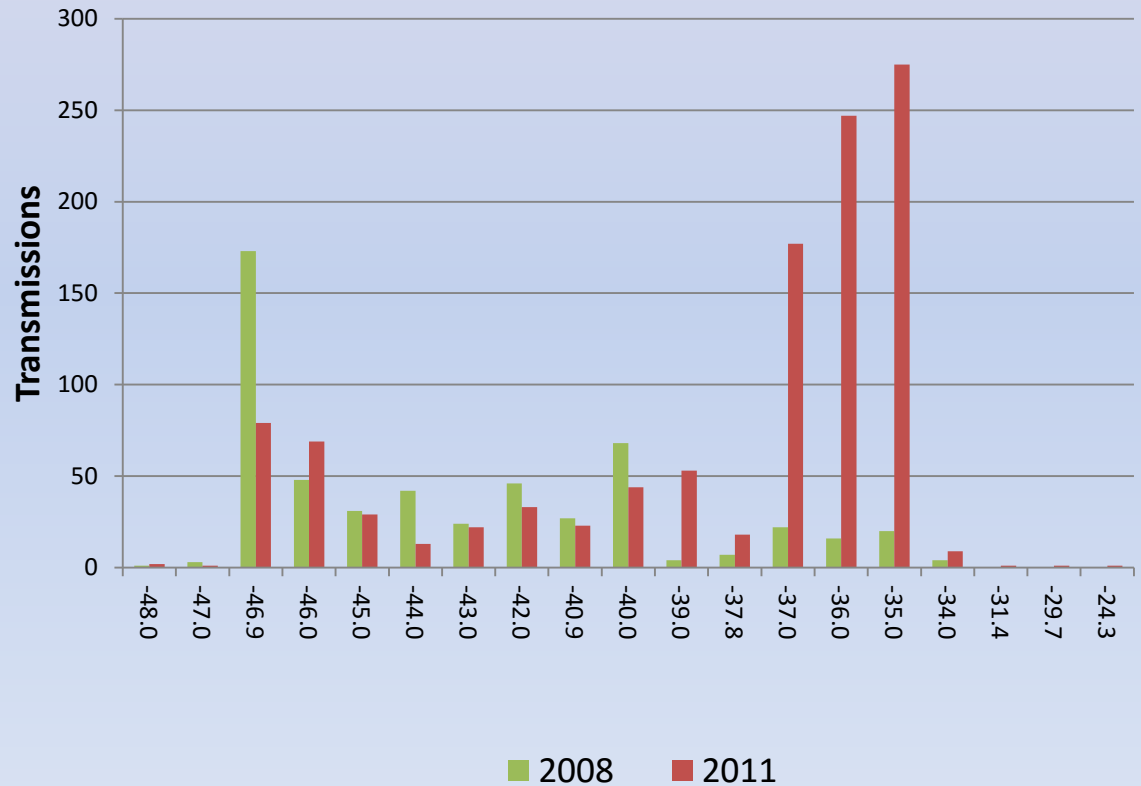
Deployment of trackers in: Dec 2008

March 2011

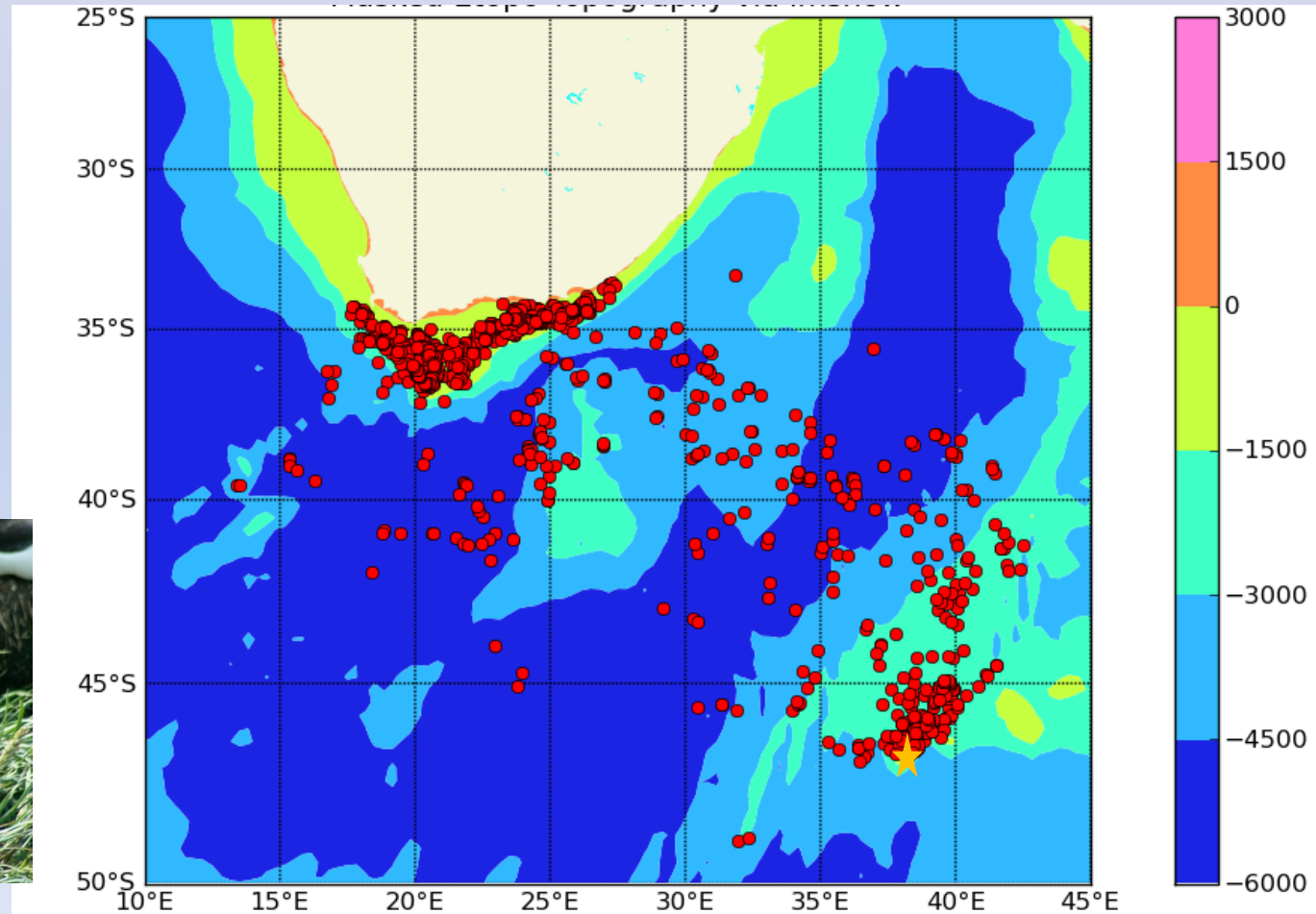


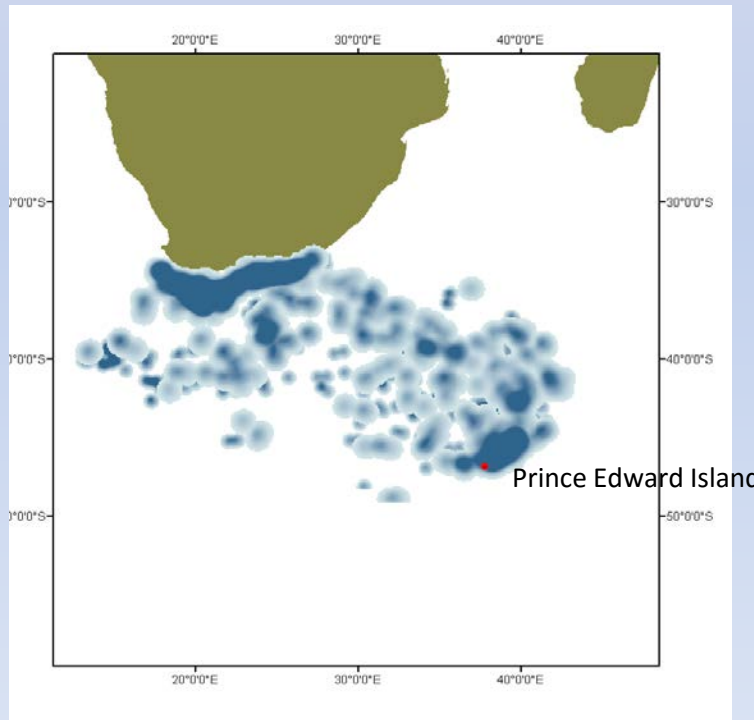
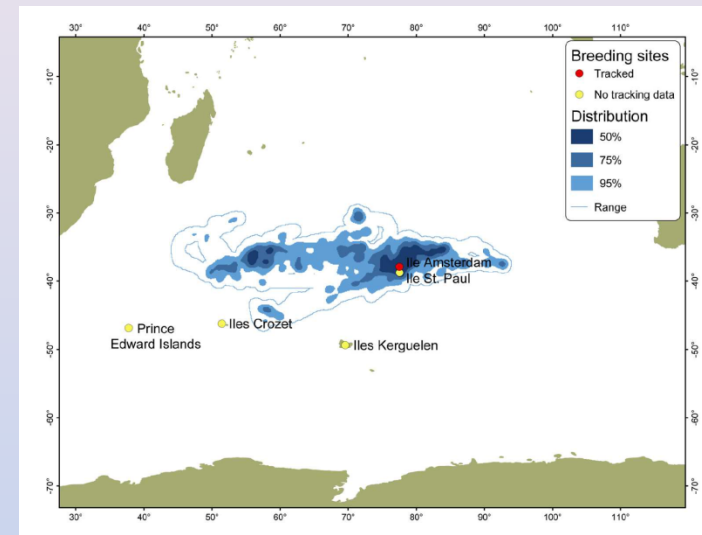
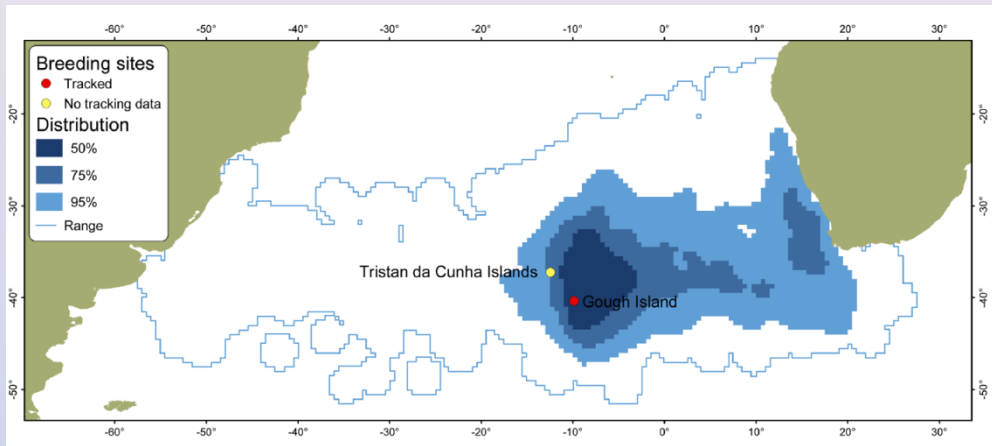


# Latitudinal distributions of transmissions for deployments in 2008 (December) and 2011 (March)



# Distribution of Indian Yellow-nosed Albatrosses in relation to bathymetry





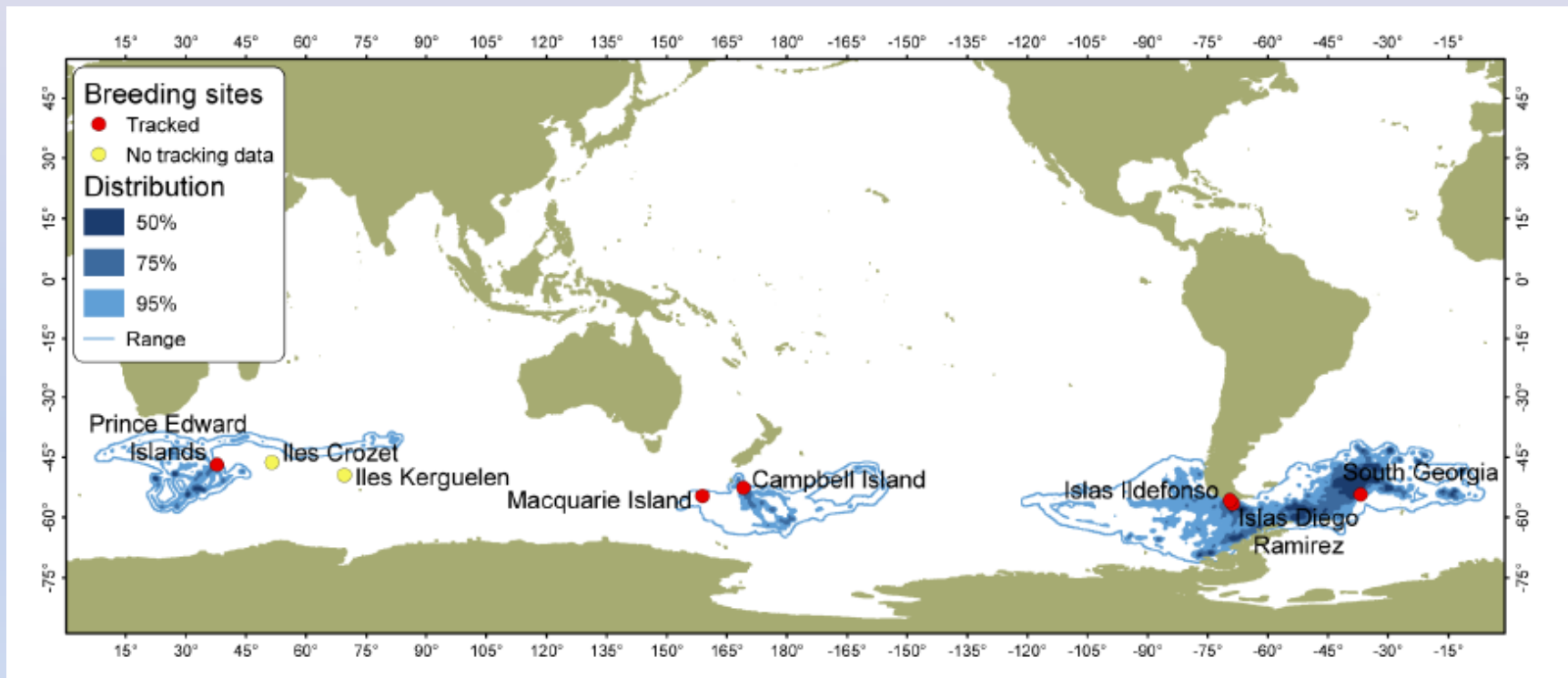
Distributions of Yellow-nosed Albatrosses suggest partitioning of feeding grounds during breeding (information for Gough and Amsterdam islands from Agreement on the Conservation of Albatrosses and Petrels 2009)



# Grey-headed Albatross *T. chrystostoma*

## at-sea distributions of breeders

(from Agreement on the Conservation of Albatrosses and Petrels (2009))



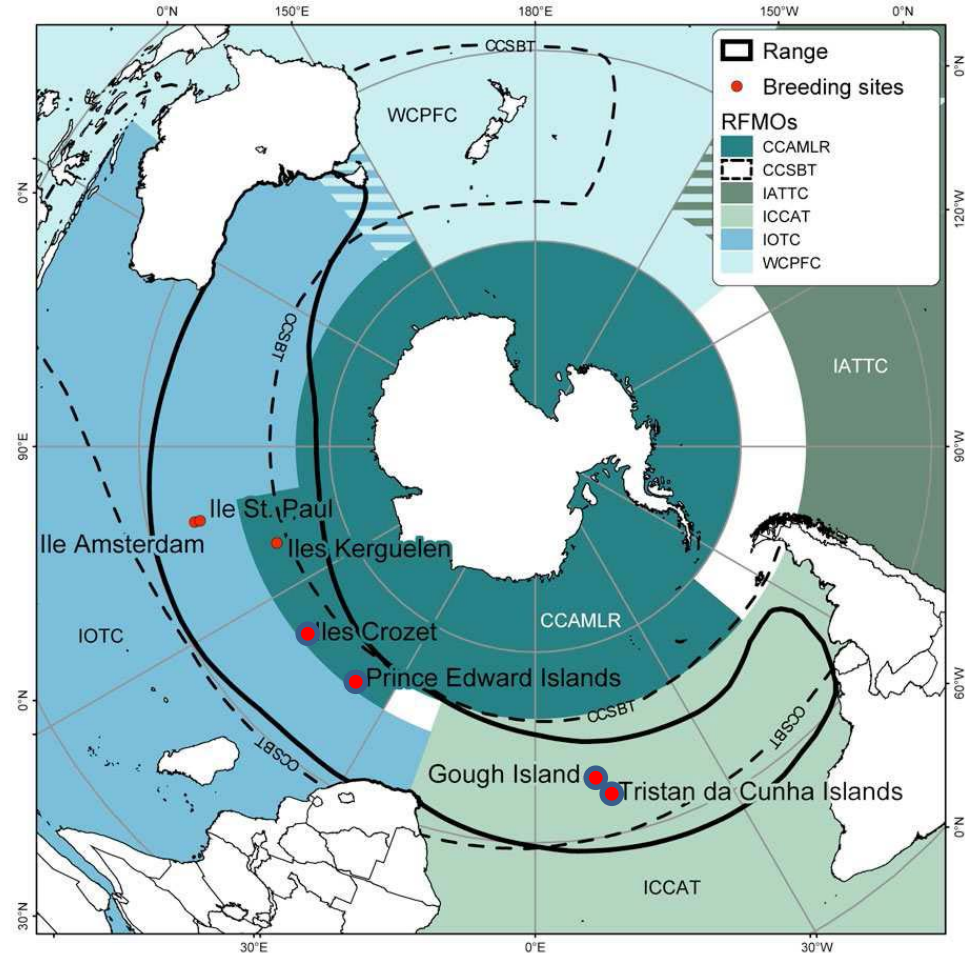
For Marion Island from Nel et al. (2001).  
Marion birds feed south of Indian Yellow-nosed Albatrosses from Prince Edward Island



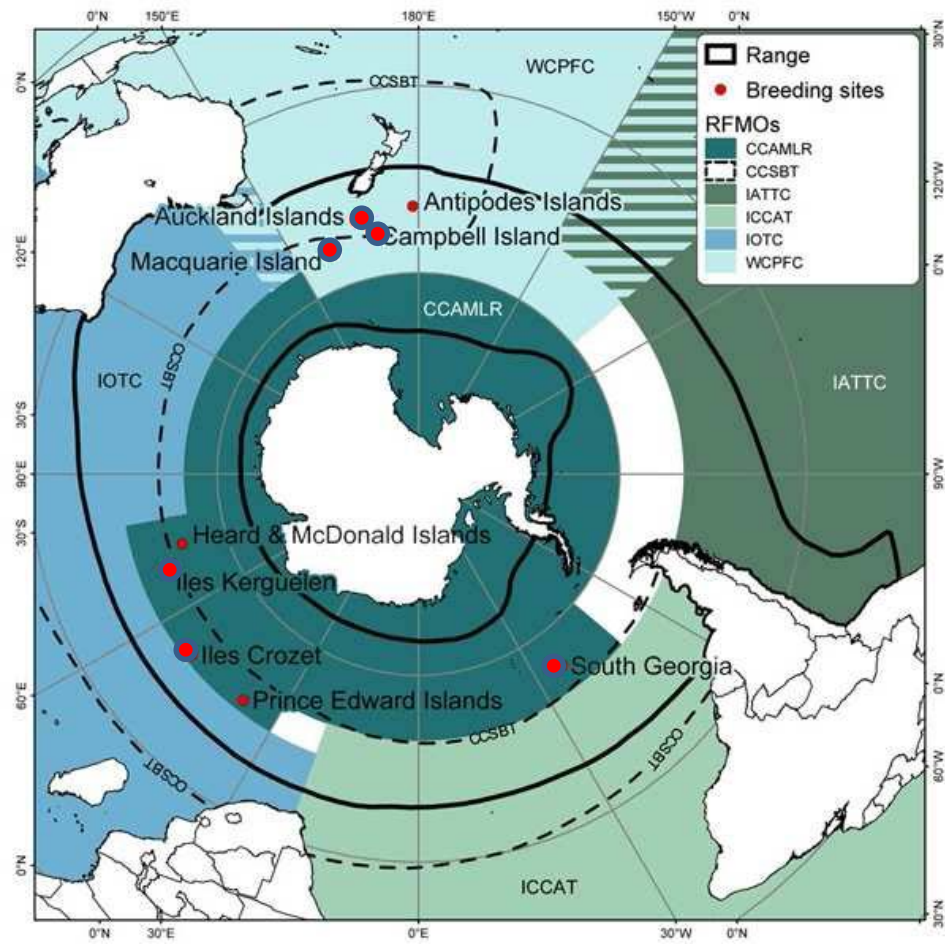


# Breeding localities of *Phoebetria* albatrosses

Right: Sooty Albatross *P. fusca*



Left: Light-mantled Albatross *P. palpebrata*



from Agreement on the Conservation of Albatrosses (2009)

# Numbers at localities

(north to south) updated from Tickell (2000)  
using Agreement on the Conservation of  
Albatrosses and Petrels (2009) and Ryan et al.  
(2009)



Island group	Degrees S	Sooty Albatross (pairs)	Light-mantled Albatross (pairs)
Tristan da Cunha Islands	37	3188	
Ile Amsterdam	38	474	
Ile St Paul	39	13	
Gough Island	40	5000	
Ile Crozet	46	2095	2298
Prince Edward Islands	47	2800	800
Iles Kerguelen	49	4	4000
Antipodes Islands	50		250
Auckland Islands	51		5000
Campbell Island	53		1600
Heard Island	53		350
South Georgia	54		5000
Macquarie Island	55		1281
<b>Total</b>		<b>13573</b>	<b>20579</b>





# Seasonal distribution of transmissions

With thanks to:

BirdLife International. 2010. The Global Procellariiform Tracking Database.

[www.seabirdtracking.org](http://www.seabirdtracking.org)

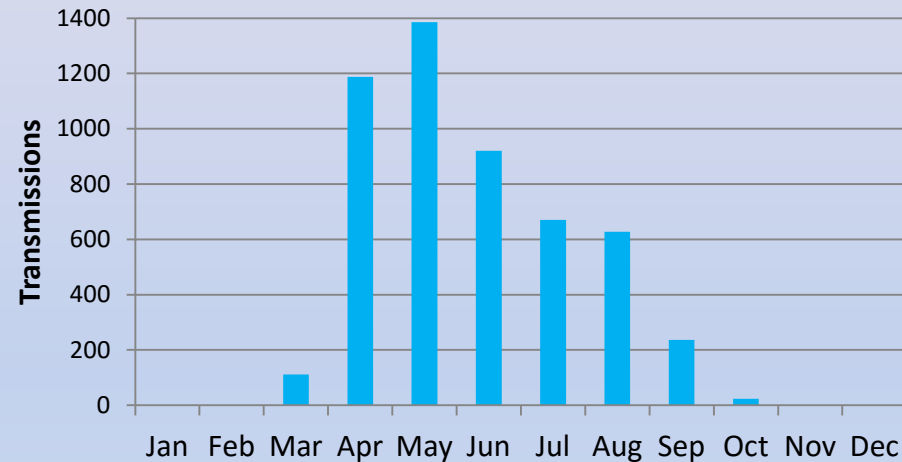
David and Lucille Packard Foundation

	N	Mean duration per bird (days)	Mean number transmissions per bird
Sooty Albatross	11	114 ± 45	474 ± 224
Light-mantled Albatross	9	132 ± 73	846 ± 612

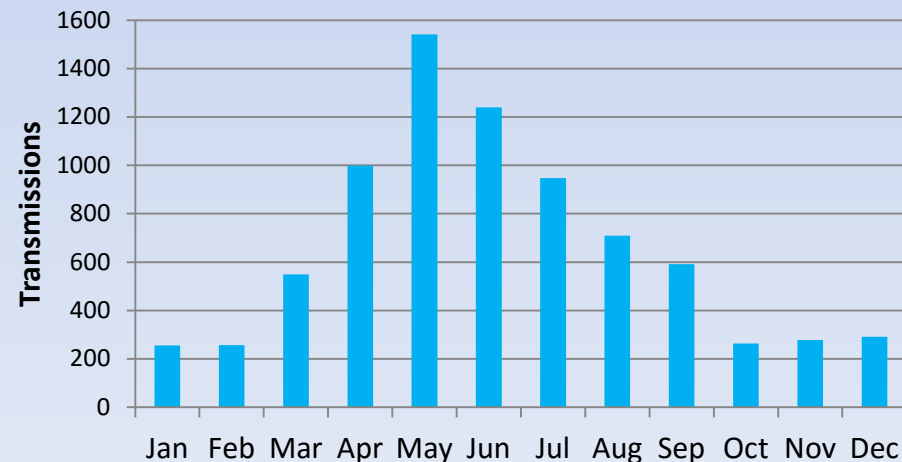


BM Dyer

## Sooty Albatross



## Light-mantled Albatross



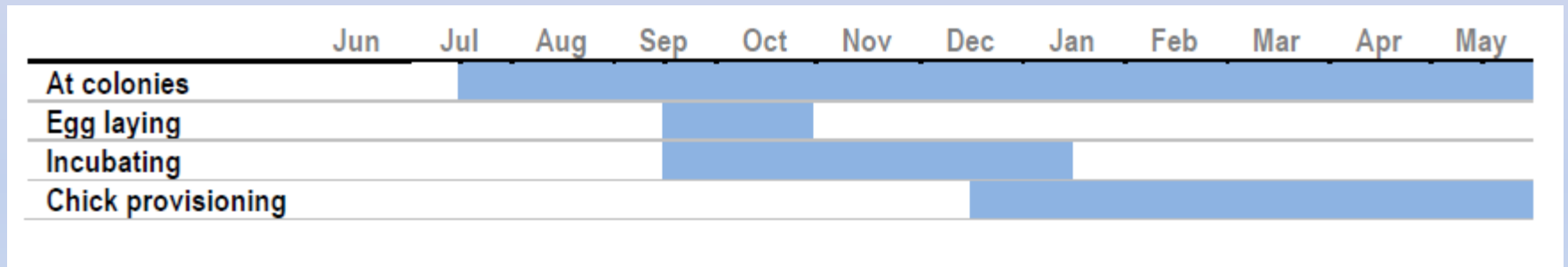


# Sooty and Light-mantled Albatrosses

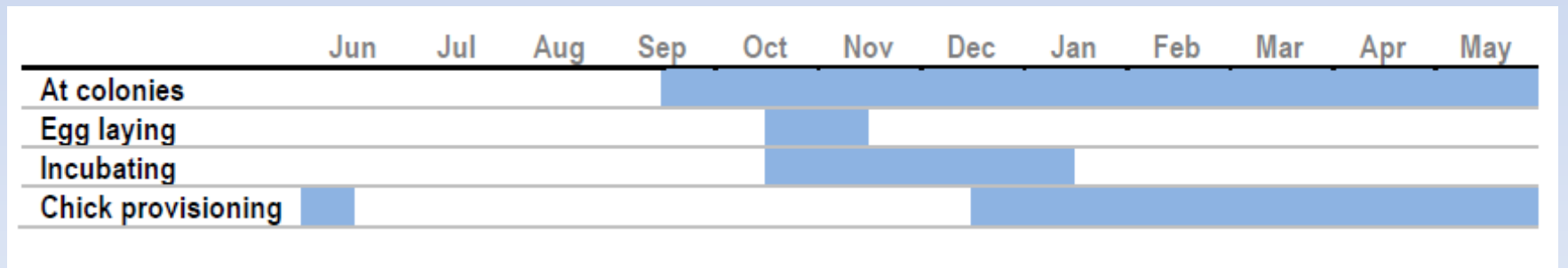
## Breeding cycles

From Agreement on the Conservation of Albatrosses and Petrels (2009)

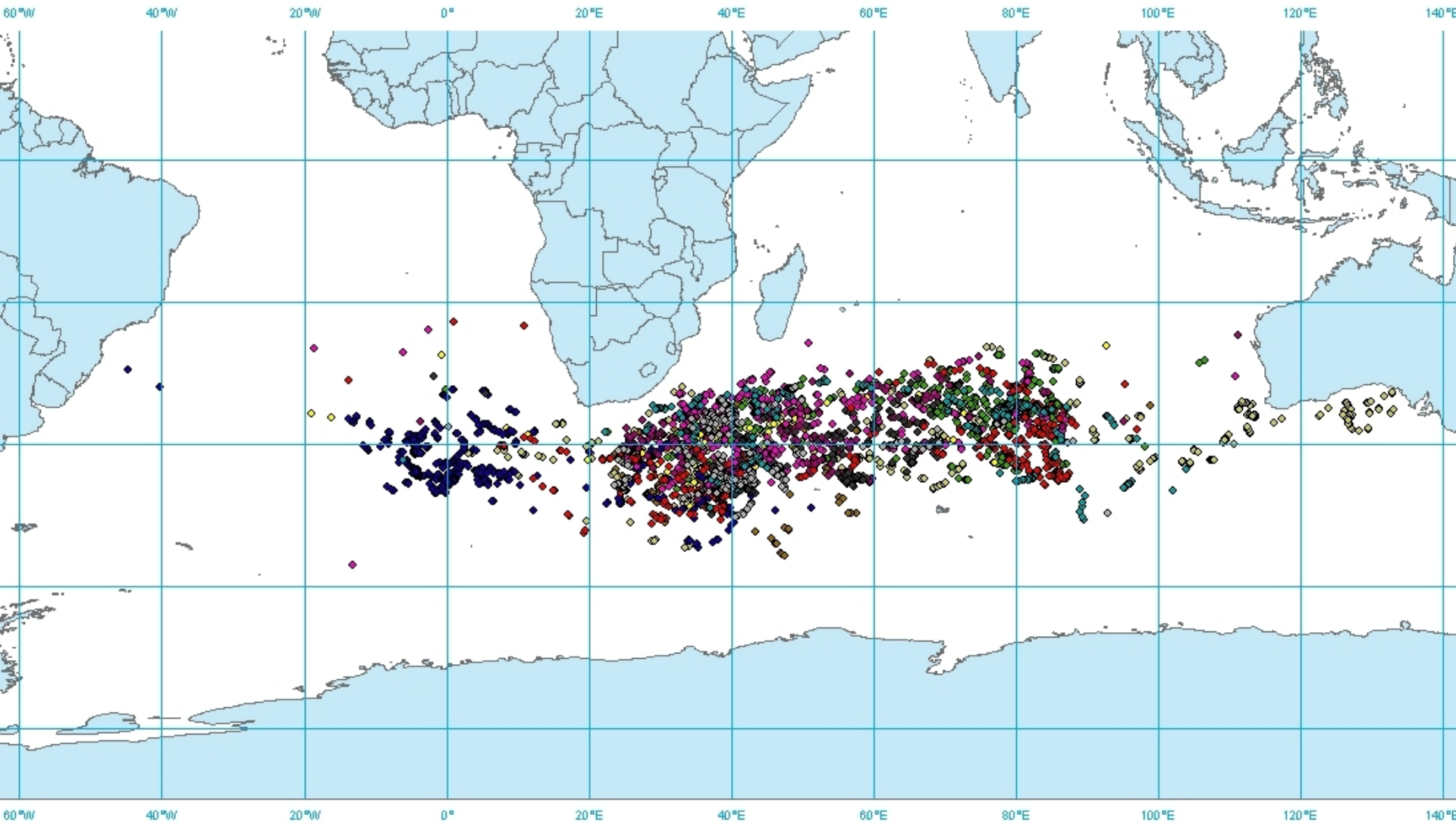
### Sooty Albatross



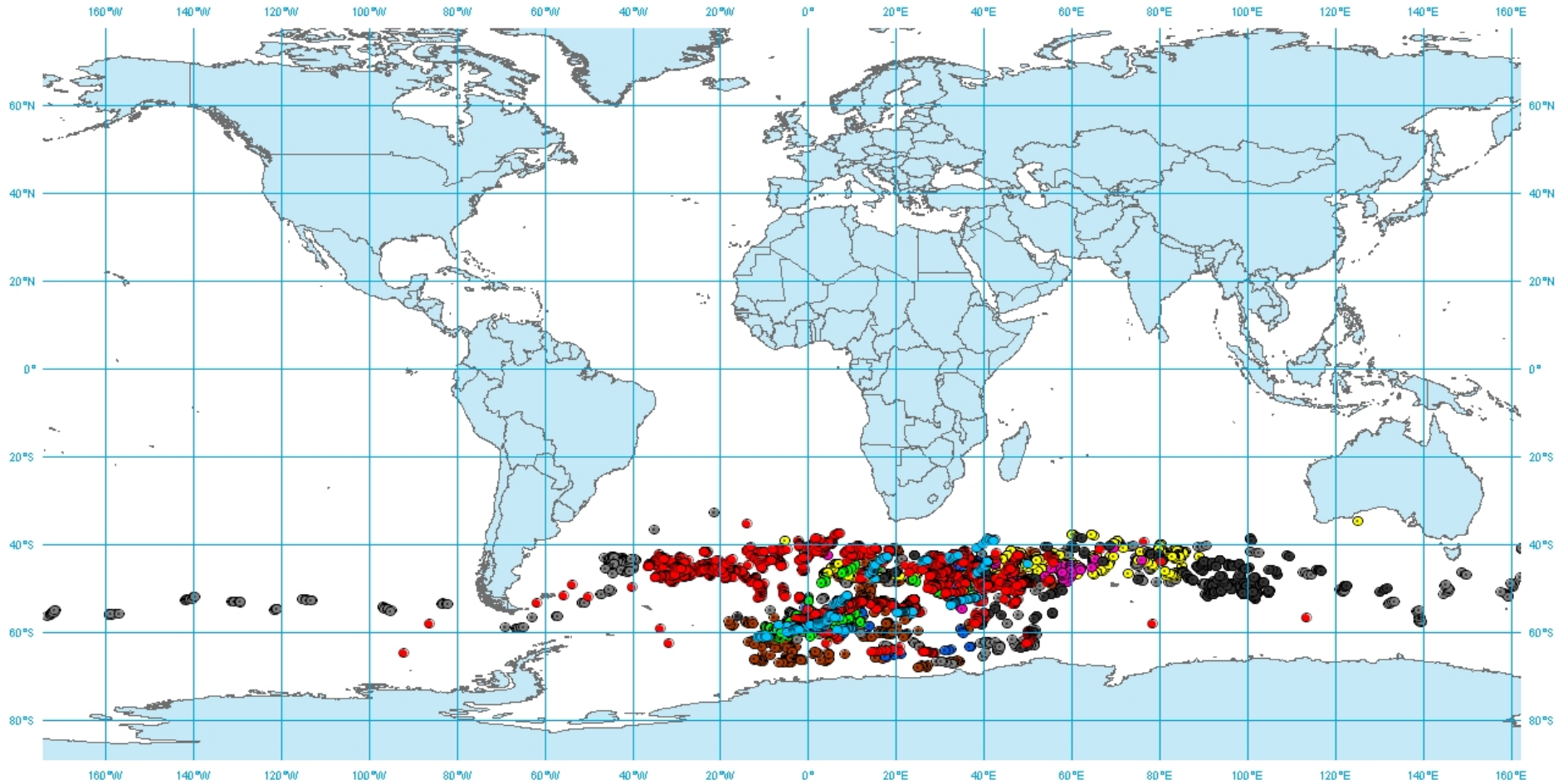
### Light-mantled Albatross



# Sooty Albatross

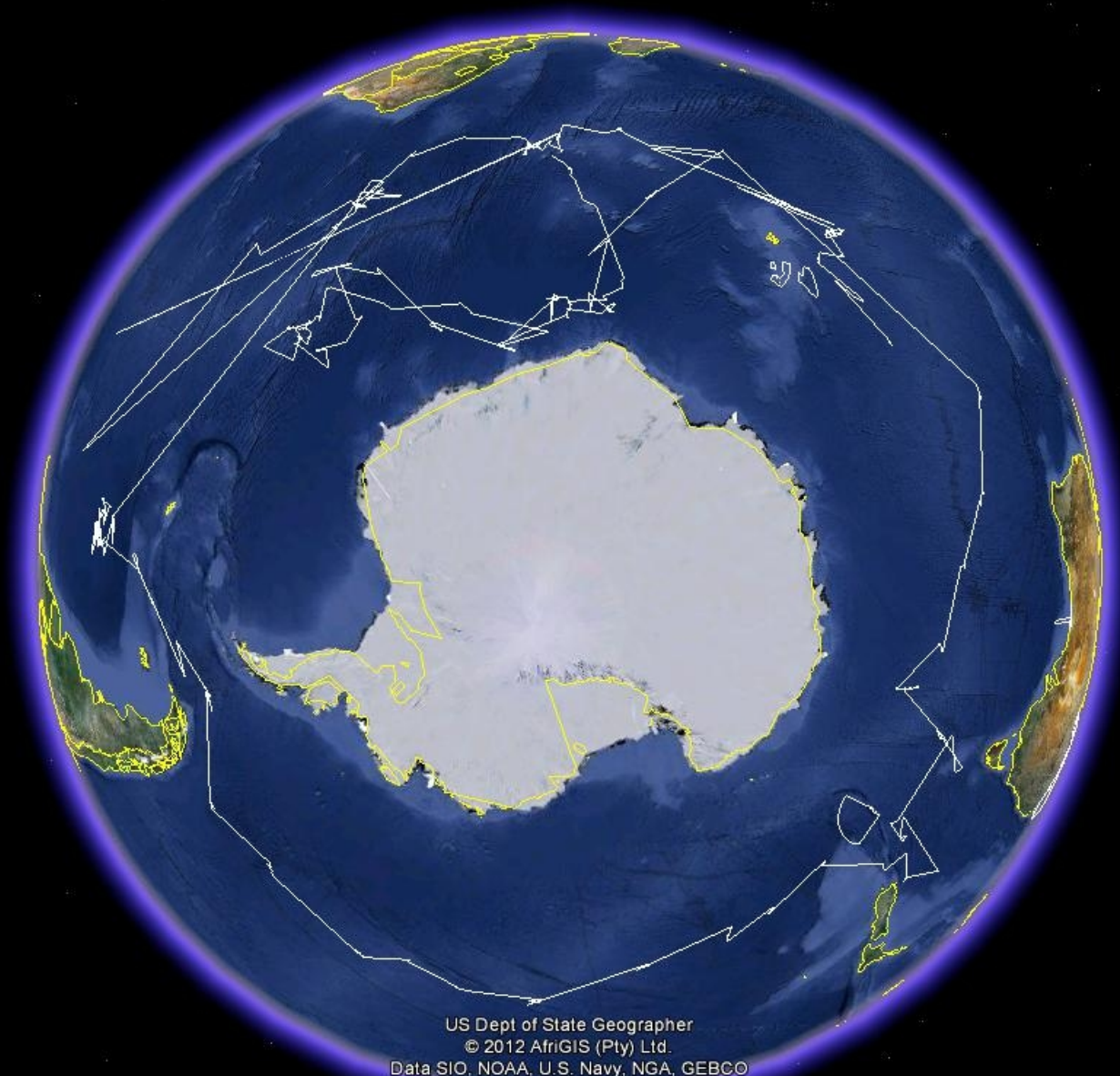


# Light-mantled Albatross





# Light-mantled Albatross 98026 circumnavigation of Antarctica



US Dept of State Geographer  
© 2012 AfriGIS (Pty) Ltd.  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
© 2012 Inav/Geosistemas SRL

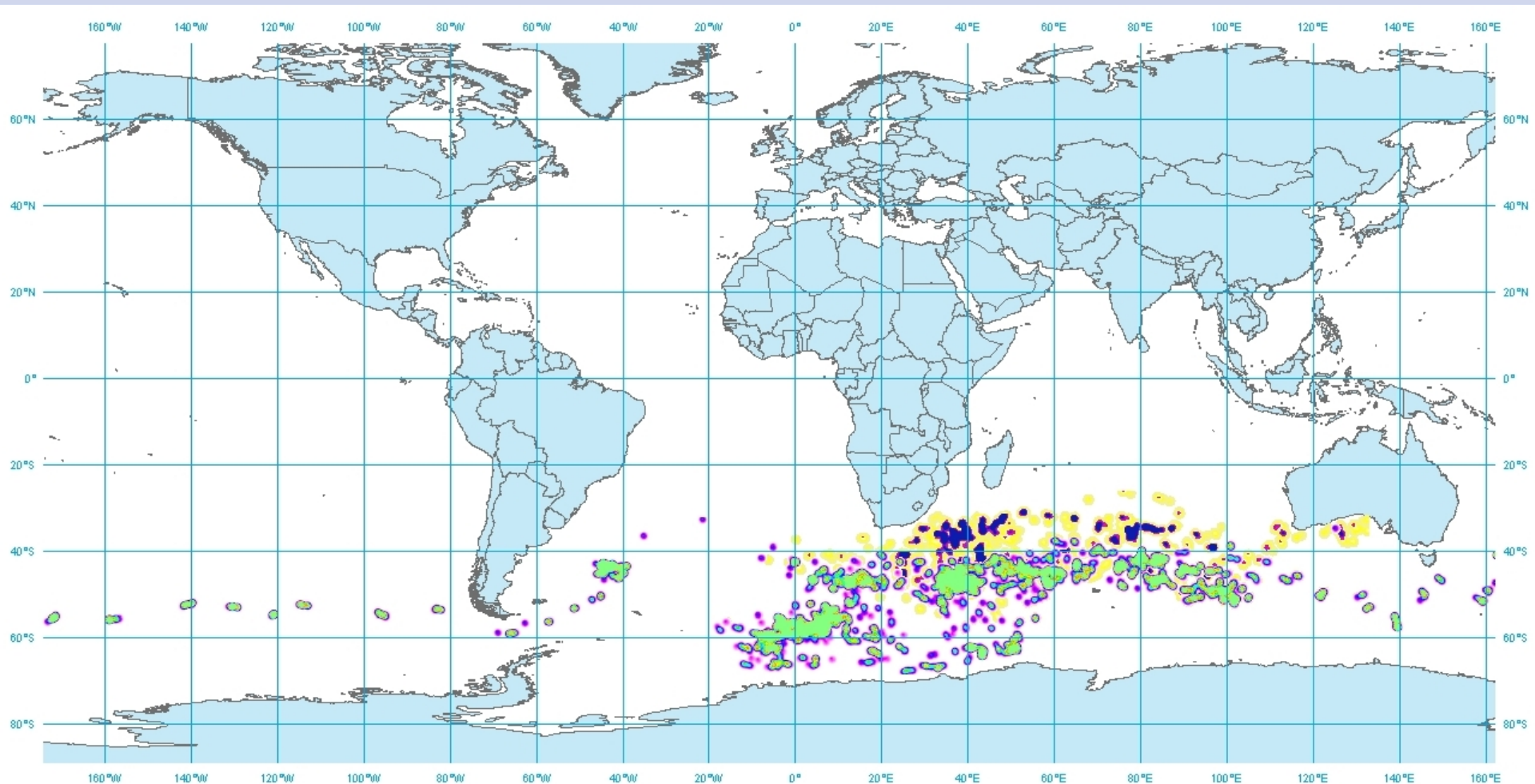
84° 26.973' S 68° 15.667' E elev 1700 m

Google earth

Eye alt 15198.02 km

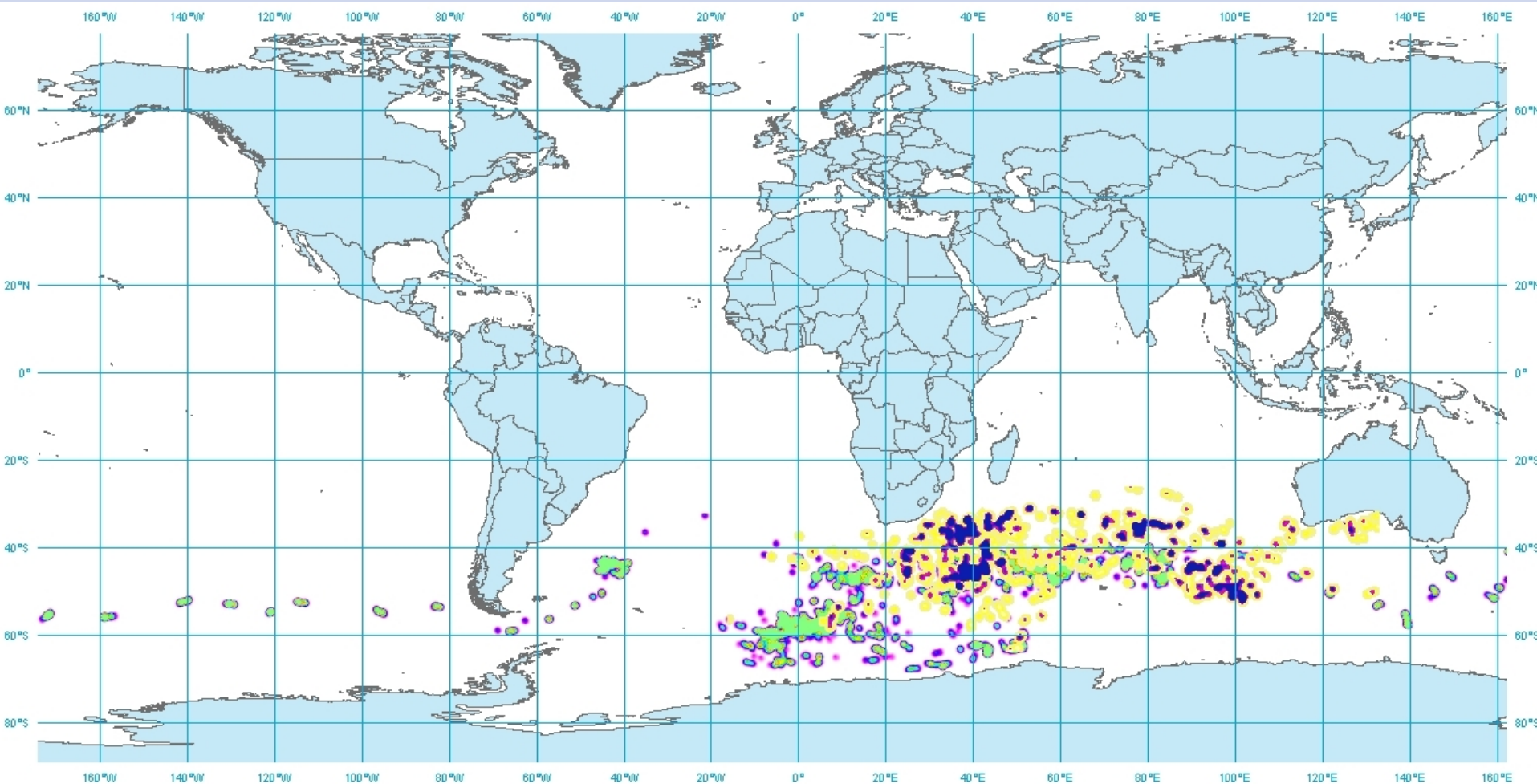
# Sooty and Light-mantled Albatrosses from Prince Edward Islands

kernel densities of probabilities Sooty Albatross yellow to blue; Light-mantled Albatross purple to green



# Sooty and Light-mantled Albatrosses from Prince Edward Islands

kernel densities of probabilities Sooty Albatross yellow to blue; Light-mantled Albatross purple to green





# Distribution of effort in the Taiwanese tuna longline fleets, 2002–2008

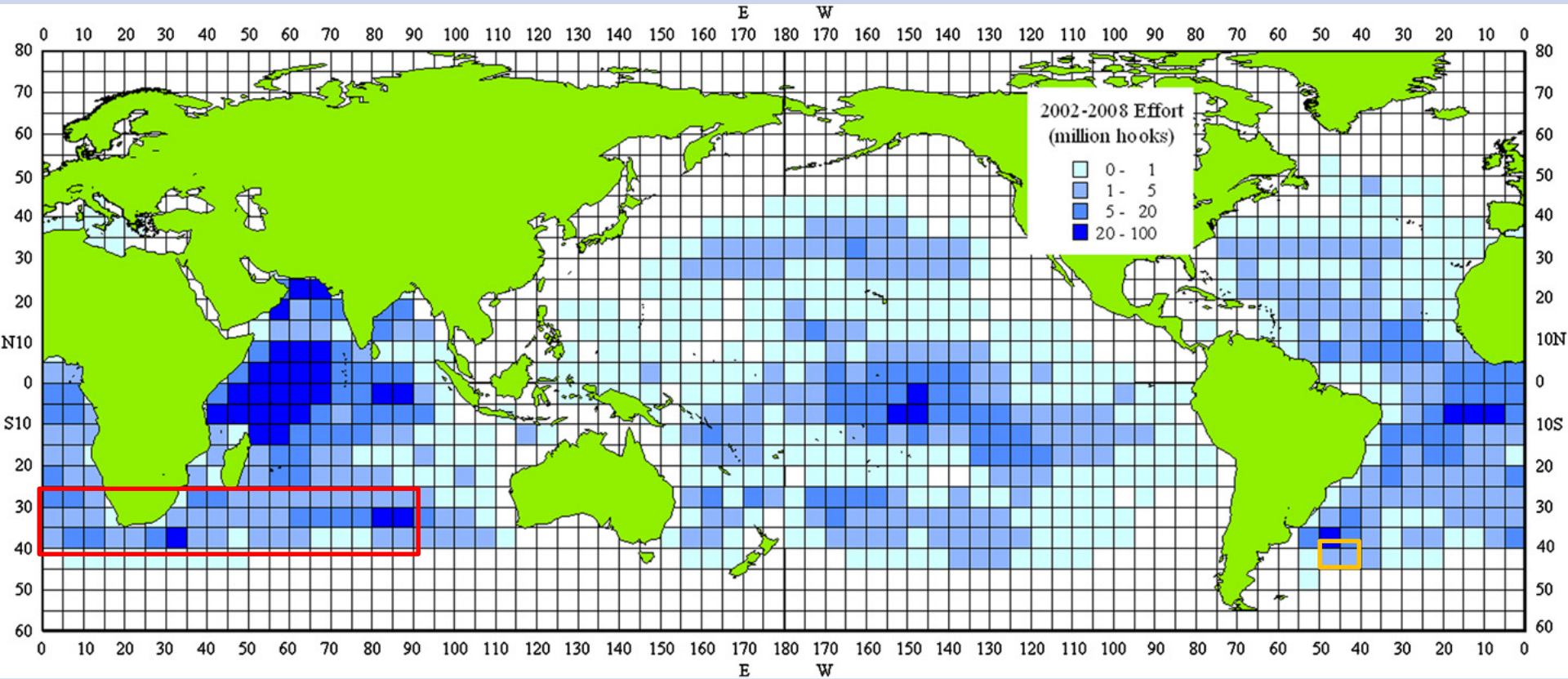
from Huang (2011)



overlap of distribution of adult Light-mantled Albatross



overlap of distribution of adult Sooty Albatross

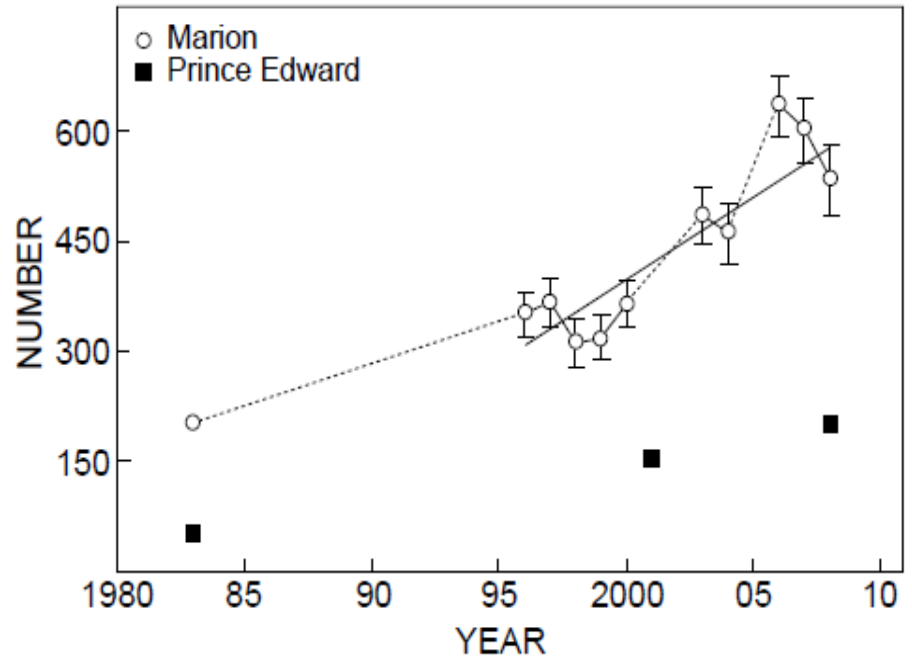
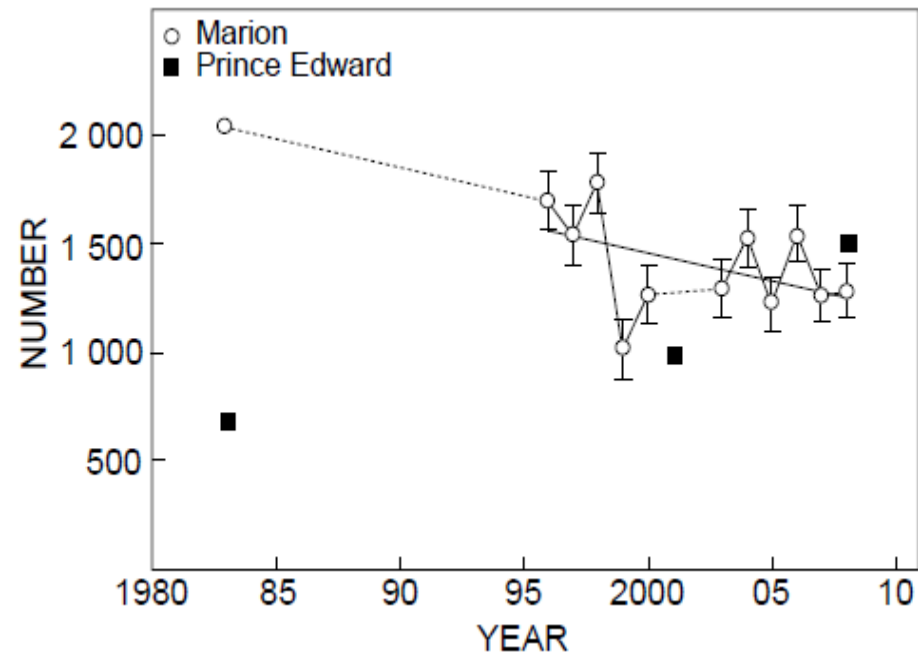


# Trends in populations at Marion Island

Ryan et al. (2009)

**Sooty Albatross**  
Marion: - 2% p.a. since 1996

**Light-mantled Albatross**  
Marion: + 6% p.a. since 1996





# Thank you



BM Dyer