

Distribution of highly at-risk New Zealand seabirds in the Western Central Pacific Fisheries Commission area

WCPFC-SC12-2016/EB-WP-09

Igor Debski¹, Freydís Hjörvarsdóttir¹ and Kirstie Knowles¹

¹Department of Conservation

NZ seabirds

- New Zealand has the highest global diversity of albatross and petrel species in the world.
- We have several species of seabird that are at high or very high risk from commercial fisheries bycatch.
- Reducing fisheries bycatch is therefore a very high priority for us.



WCPFC requirements around use of seabird bycatch mitigation:



 CMM 2012-07: all longline vessels South of 30⁰ S and vessels 24m + North of 23⁰ N

• CMM 2015-03 (in effect from 1 January 2017): all longline vessels South of 30°S and North of 23°N

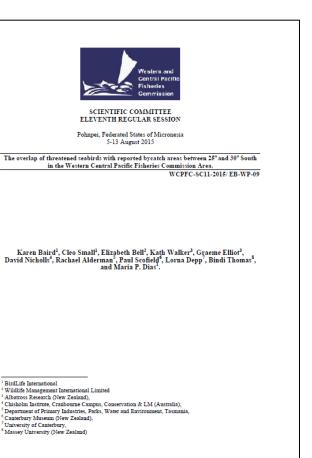


Our concern

Our most at-risk seabirds are still at risk of bycatch in WCPFC waters north of 30° S



Proposal presented at 11th Session of the SC

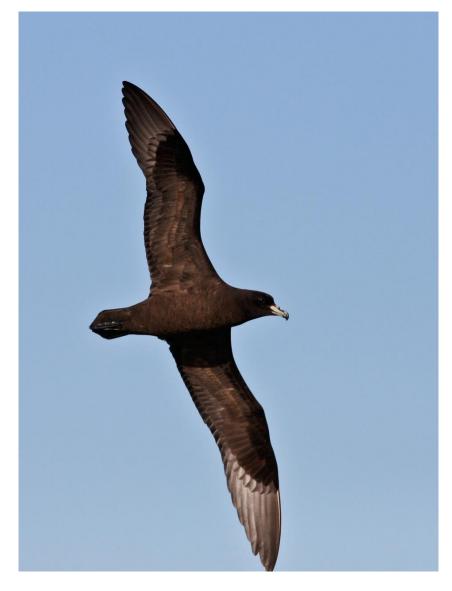






Black Petrel

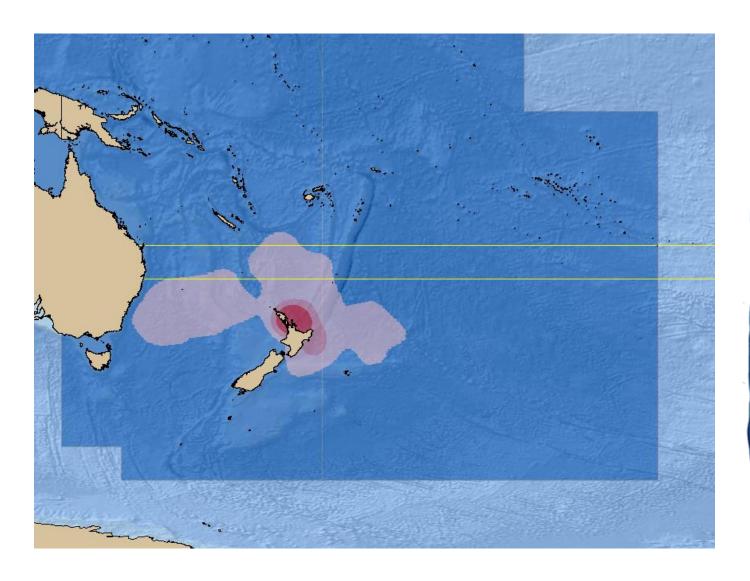
Procellaria parkinsoni

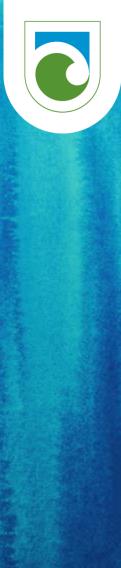


- Breed on 2 islands in NZ
- Breeding pop.n: < 2000 pairs
- NZ's species most atrisk from commercial fisheries bycatch.
- Breeding season (Oct Jun) – NZ and SW Pacific.
- Non-breeding season migrate to waters off tropical S. America.



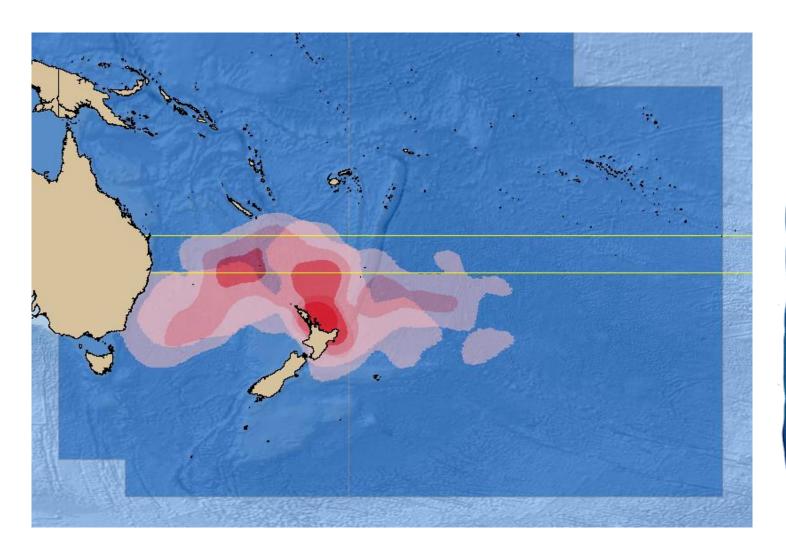
Black Petrel Incubation 2005-06







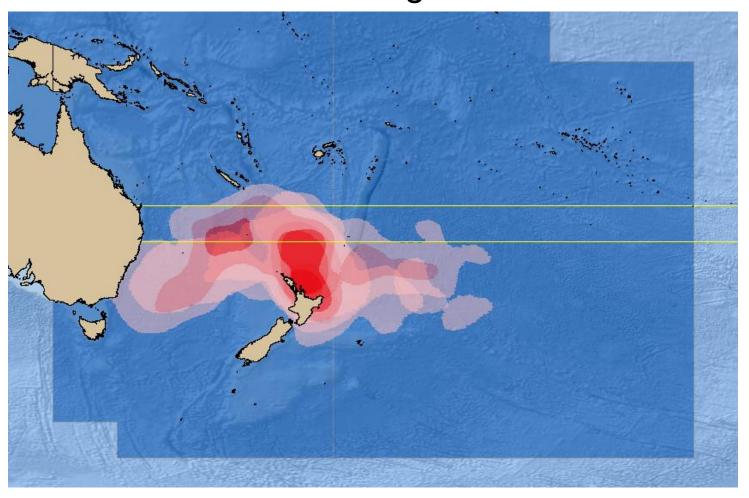
Black Petrel Incubation 05-06 and 07-08





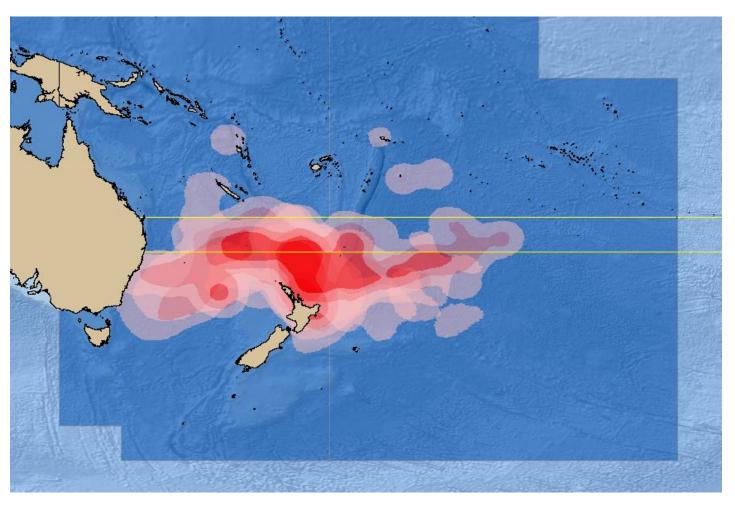
Black Petrel

Incubation 05-06 & 07-08 and Chick Rearing 07-08





Black Petrel Incubation 05-06 & 07-08 & 08-09 and Chick Rearing 07-08

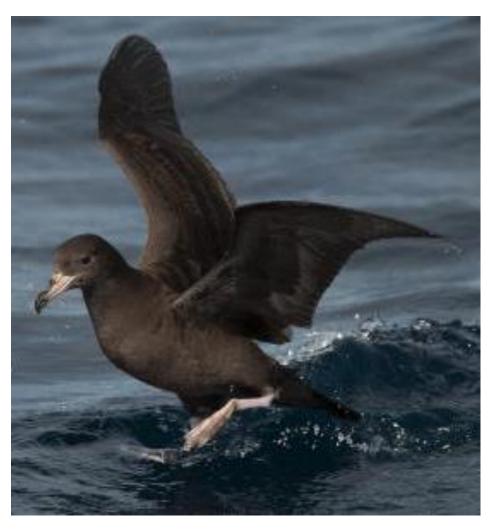






Flesh-footed shearwater

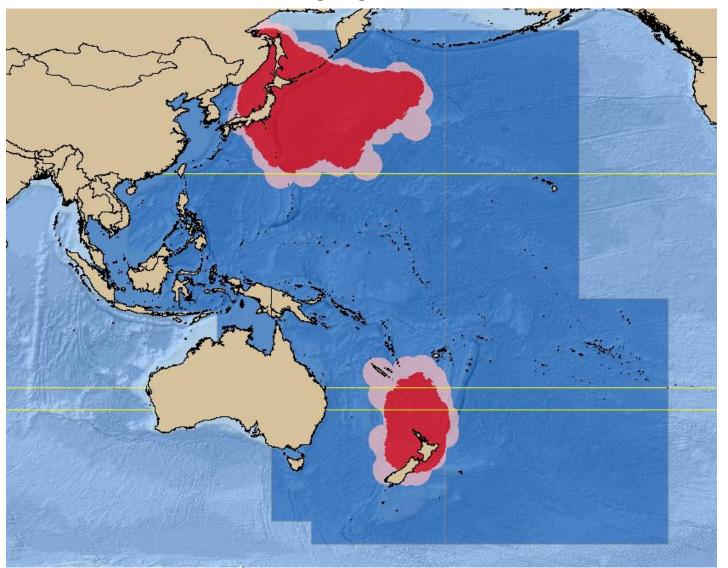
Puffinus carneipes



- Very high risk of bycatch.
- Population estimate 10-15,000 pairs
- Considered in decline.
- Breeding season
 around NZ.
- Non-breeding season – NW Pacific



Flesh-footed shearwater 2010-11





Antipodean albatross

Diomedea antipodensis antipodensis



- High risk of bycatch.
- Nationally critical.
- Population in steady decline since 2004.
- Population sex imbalance.
 - Recent years
 birds travelling
 further into more
 northern waters

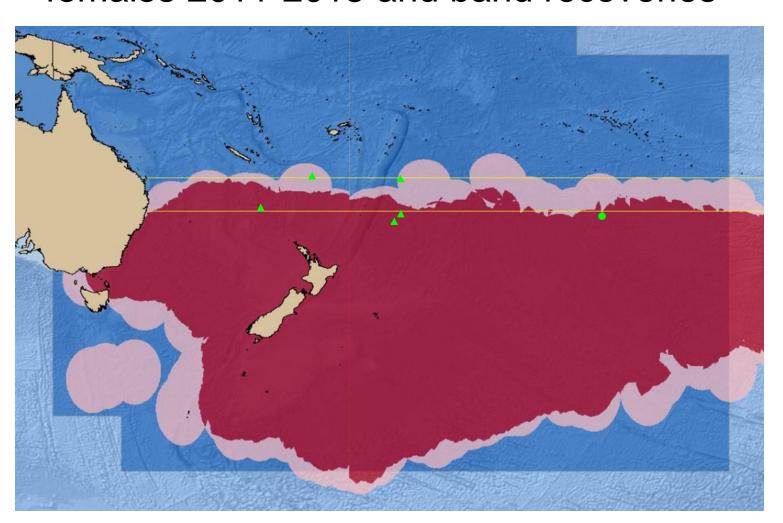


Antipodean albatross Non-breeding female birds 2011-2015





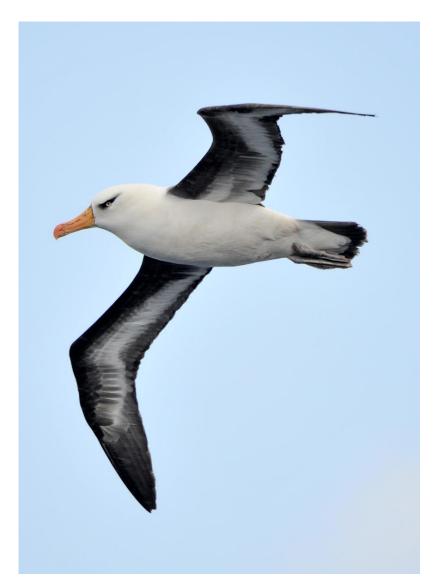
Antipodean albatross Tracking distribution of no-breeding females 2011-2015 and band recoveries





Campbell Island albatross

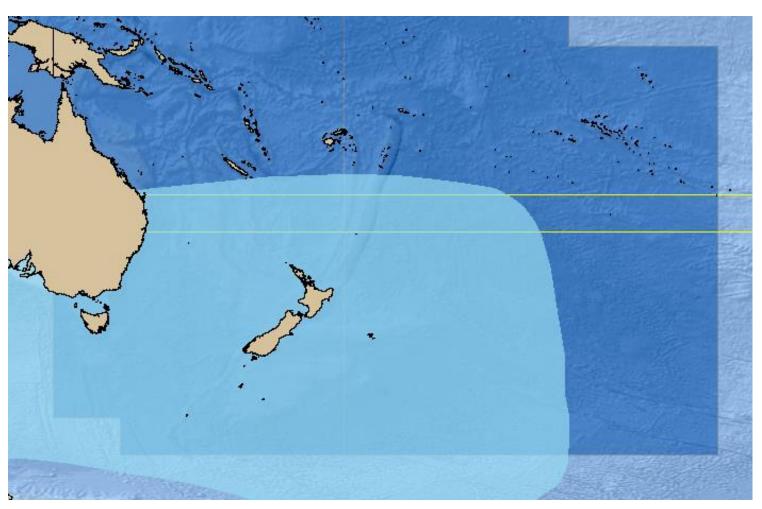
Thalassarche impavida



- High risk of bycatch.
- Breeds only on Campbell Island in the NZ subantarctic.
- Population trends uncertain.

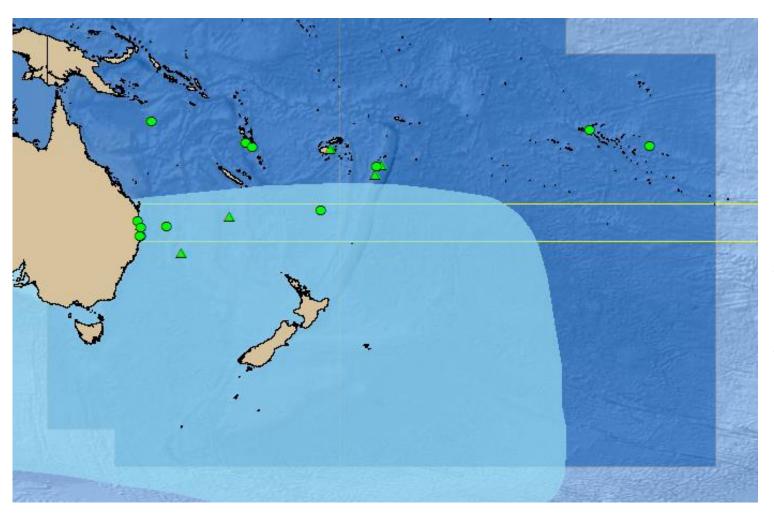


Campbell Island albatross Annual distribution (BirdLife & NatureServe 2015)





Campbell Island albatross Annual distribution (BirdLife & NatureServe 2015), and band recoveries





Summary

- The seabird species presented are all at high or very high risk of bycatch.
- Evidence that they all utilize waters north of 30° S within the WCPFC area
- Some even further north than 25° S (mainly juveniles).



Recommendations

- Note the spatial distribution data presented extends north of 30°S.
- Note that the range of most of our southern breeding, vulnerable seabirds lies south of 25^o
 S.
- Note that use of effective bycatch mitigation measures across the full range of at-risk seabirds will enhance conservation of those seabirds.
- Request that the TCC consider moving the 30°S boundary of the seabird CMM further north and to make a recommendation to amend the boundary to WCPFC13.



Acknowledgements

- WMIL (Biz Bell and Claudia Mischler)
- Tim Guilford
- Robin Freeman
- Todd Landers & Toss Denis
- Graeme Taylor
- Matt Rayner
- David Thompson
- Paul Sagar & Richard Phillips
- Kath Walker & Graeme Elliot
- Birdlife International
- NatureServe





Questions



