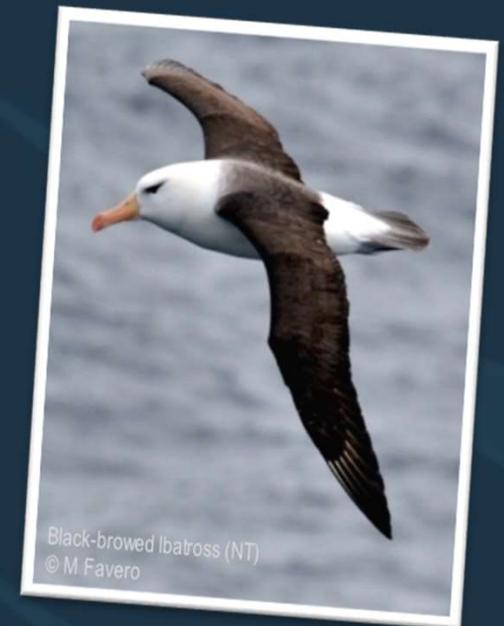


SEABIRD BYCATCH IN THE EASTERN PACIFIC OCEAN

ACAP

Agreement on the Conservation of Albatrosses and Petrels

- Update on the conservation status, distribution and priorities for albatrosses and large petrels (ACAP and Birdlife International)
- ACAP Review and Best Practice Advice for Reducing the Impact of Pelagic Longline Fisheries on Seabirds
- Data needs and reporting - SAC-08 INF D(b)

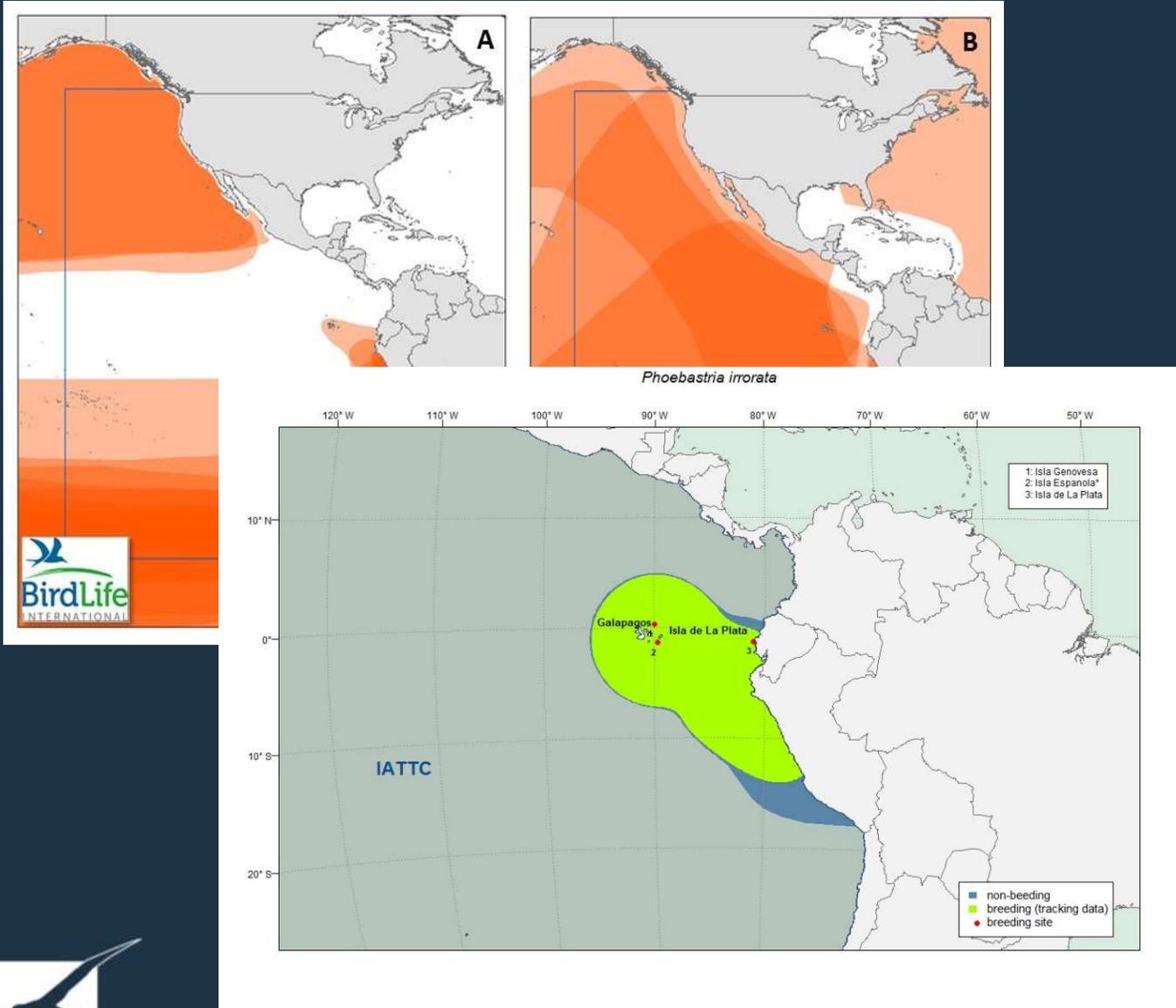


Status, trends and priorities

Species	Common name	Population (latest census year) ¹	Current Trend 1993-2013 ² (trend confidence)		IUCN Status 2016 ³
<i>Phoebastria irrorata</i>	Waved Albatross	9,615 (2001)	↓	(Medium)	CR
<i>Diomedea sanfordi</i>	Northern Royal Albatross	5,135 (2017)	?		EN
<i>Thalassarche chrysostoma</i>	Grey-headed Albatross	83,999 (1982-2017)	↓	(Medium)	EN
<i>Diomedea antipodensis</i>	Antipodean Albatross	6,709 (1995-2017)	↓	(High)	4
<i>Procellaria westlandica</i>	Westland Petrel	2,827 (2011)	↔	(Low)	EN ⁴
<i>Diomedea epomophora</i>	Southern Royal Albatross	7,924 (1989-2017)	↔	(Medium)	VU
<i>Diomedea exulans</i>	Wandering Albatross	8,149 (1981-2017)	↓	(High)	VU
<i>Phoebastria albatrus</i>	Short-tailed Albatross	893 (2002-2017)	↑	(High)	VU
<i>Procellaria aequinoctialis</i>	White-chinned Petrel	1,257,568 (1984-2015)	↓	(Very Low)	VU
<i>Procellaria parkinsoni</i>	Black Petrel	1,500 (2016)	↓	(Medium)	VU
<i>Ardenna creatopus</i>	Pink-footed Shearwater	33,520 (2009-2016)	↔	(Low)	VU
<i>Thalassarche eremita</i>	Chatham Albatross	5,296 (2017)	↔	(High)	VU
<i>Thalassarche impavida</i>	Campbell Albatross	21,648 (2012)	↔	(Low)	VU
<i>Thalassarche salvini</i>	Salvin's Albatross	41,214 (1986-2014)	↓	(Low)	VU
<i>Phoebastria nigripes</i>	Black-footed Albatross	69,969 (1976-2017)	↑	(Medium)	NT
<i>Procellaria cinerea</i>	Grey Petrel	75,565 (1981-2017)	↓	(Very Low)	NT
<i>Thalassarche bulleri</i>	Buller's Albatross	32,701 (1971-2017)	↔	(Low)	NT
<i>Phoebetria palpebrata</i>	Light-mantled Albatross	10,637 (1954-2017)	?		NT
<i>Thalassarche steadi</i>	White-capped Albatross	95,917 (1995-2015)	?		NT
<i>Phoebastria immutabilis</i>	Laysan Albatross	666,658 (1976-2017)	↔	(High)	NT
<i>Thalassarche melanophris</i>	Black-browed Albatross	688,230 (1982-2017)	↑	(High)	LC ⁵
<i>Macronectes giganteus</i>	Southern Giant Petrel	47,716 (1958-2017)	↑	(Medium)	LC
<i>Macronectes halli</i>	Northern Giant Petrel	10,691 (1973-2017)	↑	(Medium)	LC

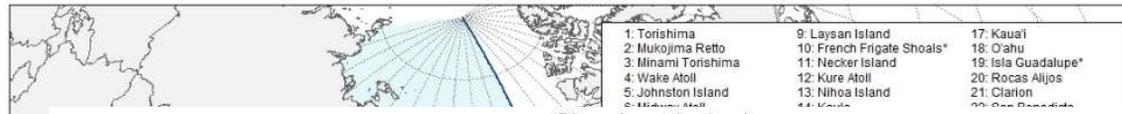


Distribution

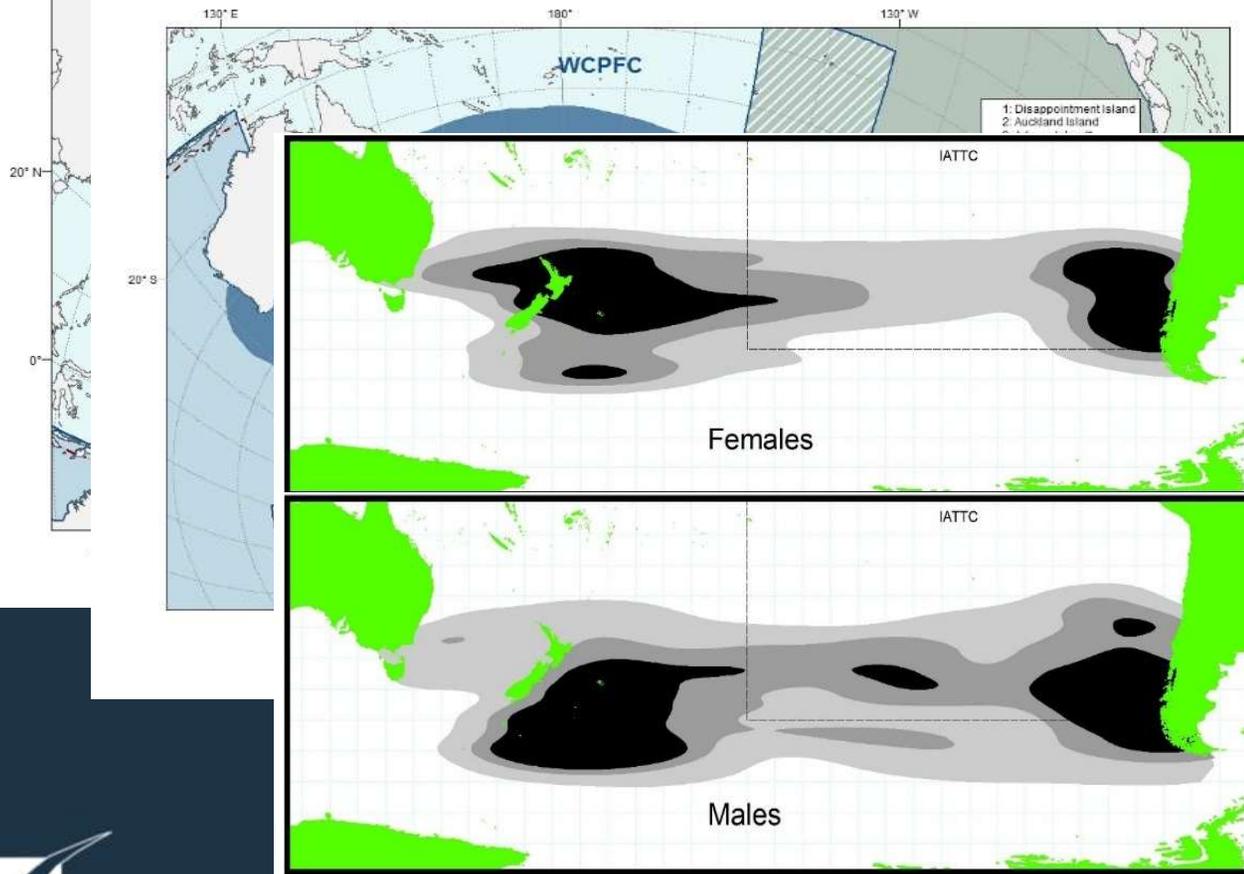


Distribution

Phoebastria immutabilis



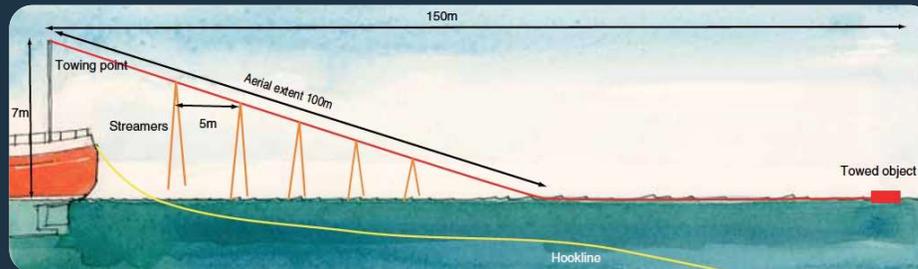
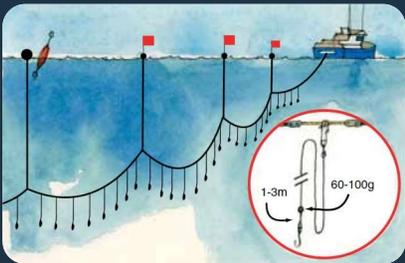
Diomedea antipodensis



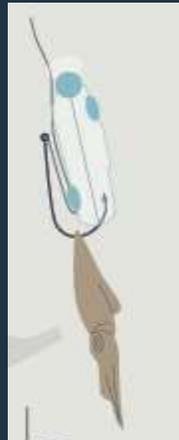
ACAP recommended best practice mitigation

- Based on comprehensive review of scientific literature and recent research
- Assessed regularly against a range of criteria
- Measures should be applied in areas where **fishing effort overlaps with seabirds vulnerable to bycatch**

Combination of weighted branch lines, BSL and night setting

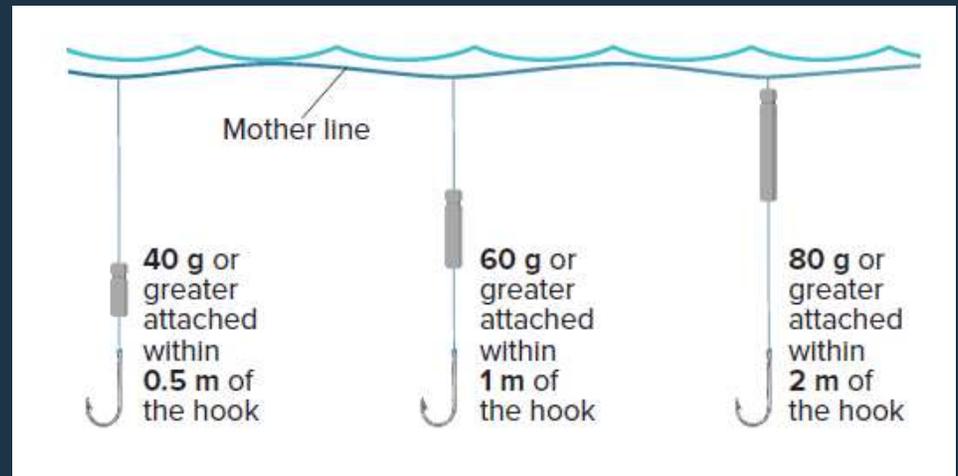


OR hook shielding devices



Branchline weighting

More mass close to the hook sinks the hooks most rapidly, reduces attacks on baits and is most likely to reduce mortalities. No negative effects detected on target catch rates.



Recommended minimum standards: ≥ 40 g, ≤ 0.5 m to the hook; ≥ 60 g, ≤ 1 m; ≥ 80 g, ≤ 2 m. Distance to the hook > 2 m is no longer recommended

This varies from specifications in IATTC Resolution C-11-02

Bird scaring lines

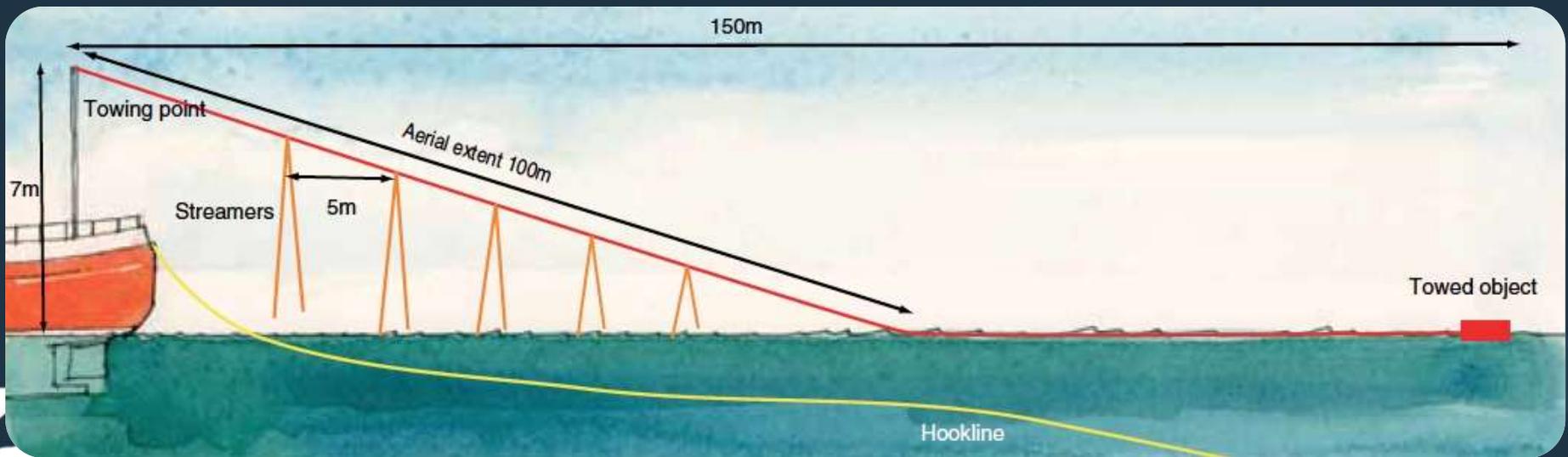
BSL runs from a high point at the stern to a device or mechanism that creates drag. Brightly coloured streamers hanging from the line and reaching the water scare birds from reaching the sinking baited hooks

Vessels >35 m - Two BSLs, one on each side of the sinking longline

Vessels <35 m - Single BSL

ACAP minimum standards for vessels <35 m were revised in Sept 2017

Specifications in IATTC Resolution C-11-02 vary from ACAP minimum standards



Hook shielding devices

Recommended subject to meeting performance requirements:

- Shield hook to at least 10 m deep or for 10 mins
- Meet minimum branch line weighting specifications
- Experimentally proven effective

Two devices currently assessed by ACAP

Hook Pod



Smart Tuna Hook



No option for use in IATTC Resolution C-11-02

Other ACAP mitigation recommendations

Side-setting with line weighting and bird curtain

- evidence from North Pacific only
- must be used in combination with branch line weighting

Mainline tension

Dead bait

Bait hooking position

Offal and discard management

Measures under development: controlled depth release of hooks



Mitigation measures NOT recommended

Line shooters (IATTC Resolution C-11-02, column B)

Olfactory deterrents

Hook size and design

Blue dyed bait (IATTC Resolution C-11-02, column B)

Bait thaw status

Laser technology

- serious concerns regarding animal welfare



Data needs and reporting

Previous ACAP advice in SAC-08 INF D(b)

Databases incomplete and low in detail, limiting a full understanding of global bycatch

Evaluation of performance of conservation measures requires data:

- at species level (and consider uncertainty in identification)
- across spatial and temporal strata
- across the full range of fishery operations

A range of bycatch estimation methods were identified, they should:

- consider undetected mortality
- consider uncertainty in estimation

Data collection requirements similar across other bycatch taxa



RECOMMENDATIONS

- (1) Recognise the bycatch risks posed to seabirds in the IATTC area.
- (2) Recognise the conservation concern for high priority populations of seabirds foraging in the IATTC area, including Waved Albatross and Antipodean Albatross.
- (3) Review the mitigation measures required in C-11-02 in light of the latest advances in seabird bycatch mitigation, and assess the level of implementation.
- (4) Ensure appropriate bycatch data is collected and reported to allow robust assessment of seabird and other bycatch.

