

Dr Cleo Small
BirdLife International



#### THE BIRDLIFE INTERNATIONAL PARTNERSHIP





Argentina























Burkina Faso



















Cyprus



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Iceland

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BirdLife



Belgium



Belize



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Cook Islands



















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India





New Zealand

Bird Watch







Norway







Palestine



Panama

Kuwait



Philippines

Lebanon



Lithuania

Portugal











Nepal



Netherlands



New Caledonia





Nigeria







Pakistan



South Africa

Palau









Poland

Liechtenstein























Tanzania

Thailand

Tunisia

Ukraine

Uruguay

USA

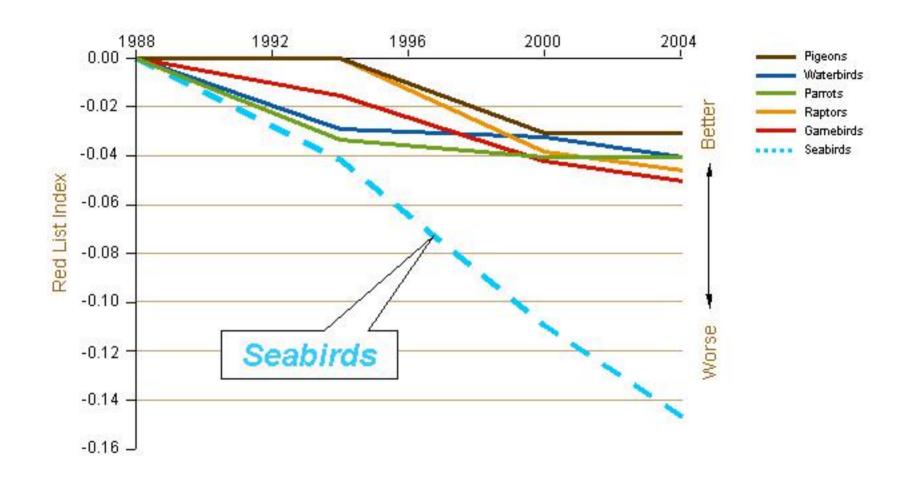
Venezuela Zambia

Zimbabwe

### **Overview**

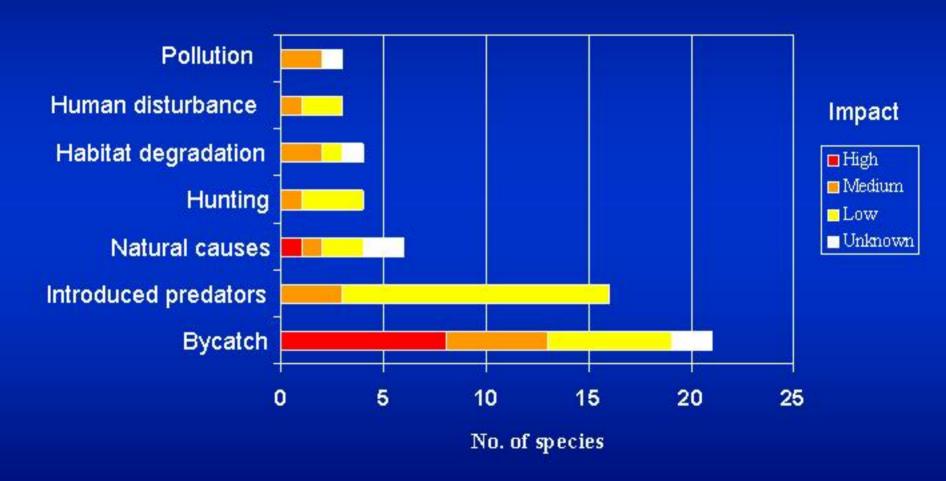
- 1. Threats to seabirds from bycatch
- 2. Importance of RFMOs in reducing bycatch
- 3. Albatross satellite tracking: top RFMOs for albatross distribution
- 4. RFMO performance
- 5. Future work

#### Red List Indices for selected species-groups





## Threats to albatrosses and petrels



## Bird scaring 'Tori' Lines





## Other measures



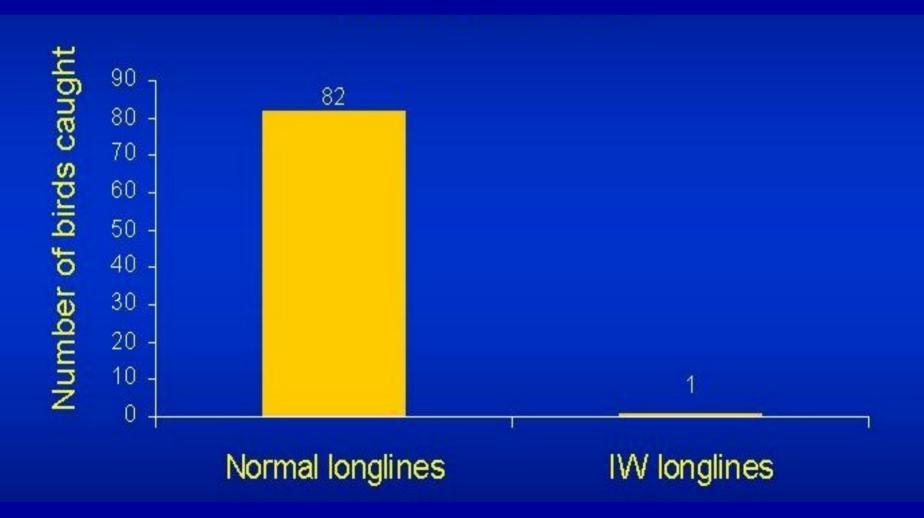




Control offal discharge during line setting

## Integrated Line Weights

Trial in New Zealand Ling fishery Nov 2002 Sink rate 10m/s compared to 4m/s



## Seabird bycatch mitigation measures

- Highly effective
- Many are simple & inexpensive
- Potential benefits for fishermen

## RFMOs are key to reducing bycatch

Central importance for sustainable management of highly migratory and straddling fish stocks

.... and for conservation of highly migratory and vulnerable species caught as bycatch, including albatrosses



## Central role for RFMOs in reducing bycatch

- Code of Conduct
- UNFSA
- IPOA-Seabirds (para 19)

## **Duties of RFMOs**

**Code of Conduct for Responsible Fisheries** 

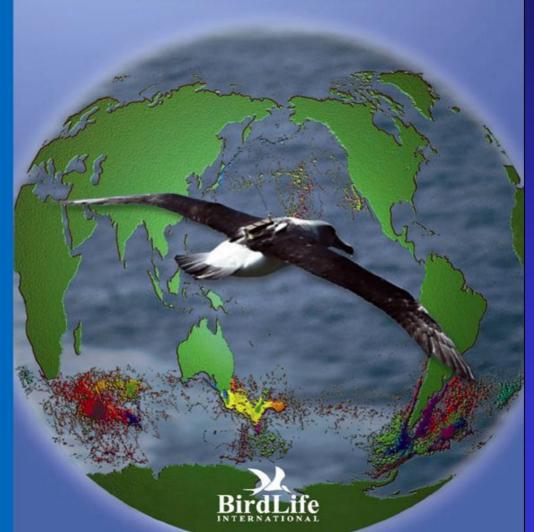
**Article 7.2.2** 

'States and sub-regional or regional fisheries management organisations and arrangements should take appropriate measures to ensure that ..discards, catch of non-target species, both fish and non-fish species, and impacts on associated or dependent species are minimised..'



The global distribution of albatrosses and petrels

Results from the Global Procellariiform Tracking Workshop, 1–5 September, 2003, Gordon's Bay, South Africa



### Data contributors

#### PTT Data Contributors:

Wandering, Blackbrowed, Sooty Albatross and Whitechinned Petrel (Crozet and Kerguelen Islands), Blackbrowed, Greyheaded and Southern Royal Albatross (Campbell Island), Lightmantled Albatross (Crozet Islands, Macquarie Island), Indian Yellownosed and Amsterdam Albatross (Amsterdam Island):

Henri Weimerskirch, Centre d'Etudes Biologiques de Chizé, (CNRS UPR 1934), France Support from Institut Paul-Emile Victor (IPEV programme 109)

#### Blackbrowed, Greyheaded and Wandering Albatross, Southern and Northern Giant Petrel and Whitechinned Petrel (South Georgia):

John Croxall, Richard Phillips, Jacob Gonzalez-Solis & Andy Wood, British Antarctic Survey, Natural Environment Research Council

#### Blackbrowed and Greyheaded Albatross (Chile):

Graham Robertson, Australian Antarctic Division Javier Arata, Instituto de Ecología y Evolución, Universidad Austral de Chile Instituto Antarctico Chileno

#### Blackfooted and Laysan Albatross (Hawaii):

Yann Tremblay¹, Scott A. Shaffer¹, Jill Awkerman², Dan P. Costa¹ & Dave J. Anderson²
¹Department of Ecology and Evolutionary Biology, University of California Santa Cruz
²Department of Biology, Wake Forest University Support from Tagging of Pacific Pelagics (TOPP) and U.S. Fish & Wildlife Service, Honolulu

#### Laysan Albatross (Mexico):

Bill Henry, Don A. Croll & Scott A. Shaffer
Dept. of Ecology and Evolutionary Biology, University of
California Santa Cruz

Support from Island Conservation Ecology Group (ICEG) and Tagging of Pacific Pelagics (TOPP)

#### Shy Albatross (Tasmania), Greyheaded, Blackbrowed and Lightmantled Albatross (Macquarie Island):

Nigel Brothers, April Hedd, Rosemary Gales & Aleks Terauds, Department of Primary Industries, Water and Environment (DPIWE), Tasmania

#### **Chatham Albatross (New Zealand)**

D.G. Nicholls, M.D. Murray & C.J.R. Robertson. Support from WWF, Ian Potter Foundation, Chisholm Institute, La Trobe University, Department of Conservation, David Bell, Hans Rook

#### Chatham Albatross (New Zealand)

C.J.R. Robertson, Department of Conservation New Zealand, D.G. Nicholls and M.D. Murray.

Support from Department of Conservation –

Conservation Services Program, David Bell

#### Northern Royal Albatross (New Zealand):

C.J.R. Robertson, D.G. Nicholls & M.D. Murray.
Support from Ian Potter Foundation, WWF Australia,
Department of Conservation, David and Mike Bell,
Isobel Burns. Sandra McGrouther

#### Wandering and Greyheaded Albatross (Marion Island):

Deon Nel & Peter Ryan, Percy FitzPatrick Institute, <u>University of Cape Town, South Africa</u>

#### **Blackfooted Albatross (USA):**

David Hyrenbach, Scripps Institution of Oceanography, University of California San Diego, USA

#### Antipodean and Gibson's Albatross (New Zealand)

D.G. Nicholls, M.D. Murray & E.C. Butcher.
Support from Kath Walker, Graeme Elliott, WWF
Australia

#### Antipodean and Gibson's Albatross (New Zealand)

D.G. Nicholls, M.D. Murray, E.C. Butcher, Kath Walker Graeme Elliott & Department of Conservation New Zealand.

Support from Peter Dilks, Andy Cox, Southland Conservancy, Department of Conservation New Zealand

#### Wandering Albatross (Australia):

D.G. Nicholls, M.D. Murray & E.C. Butcher. Support from La Trobe University, Australian Research Council, Ian Potter Foundation, W V West Estate, WWF Australia, Chisholm Institute, Dandenong, SOSSA, Dick Smith Foundation, Environment Australia

#### **Southern Giant Petrel (Antarctic Peninsula):**

Donna Patterson & William Fraser, Polar Oceans Research Group, USA

#### **Short-tailed Albatross (Japan):**

Rob Suryan, Hatfield Marine Science Center, Oregon State University

Greg Balogh, U.S. Fish & Wildlife Service

Kiyoaki Ozaki and Fumio Sato, Yamashina Institute for Ornithology

Shiho Kanie, Nature Conservation Bureau, Ministry of Environment, Japan

#### Tristan Albatross (Gough):

Richard Cuthbert, Royal Society for the Protection of Birds, UK

Percy FitzPatrick Institute, University of Cape Town, South Africa

#### **Southern Giant Petrel (Argentina):**

Flavio Quintana, Centro Nacional Patagonico, Argentina

#### **Blackbrowed Albatross (Falklands):**

Nic Huin, Falklands Conservation

#### **Buller's Albatross (New Zealand):**

Jean-Claude Stahl, Museum of New Zealand Te Papa Tongarewa

Paul Sagar, National Institute of Water and Atmospheric Research

#### **GLS Data Contributors:**

#### Blackbrowed Albatross (Chile):

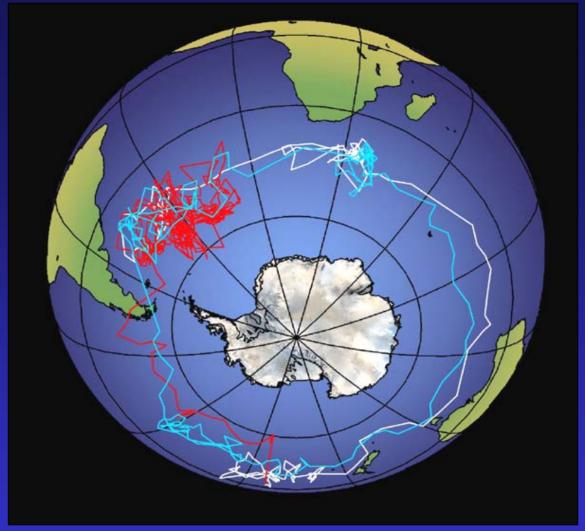
John Croxall, Janet Silk, British Antarctic Survey Javier Arata, Universidad Austral de Chile

#### Blackbrowed Albatross (Falklands):

Nic Huin, Falklands Conservation John Croxall, British Antarctic Survey

#### Blackbrowed and Greyheaded Albatross (South Georgia)

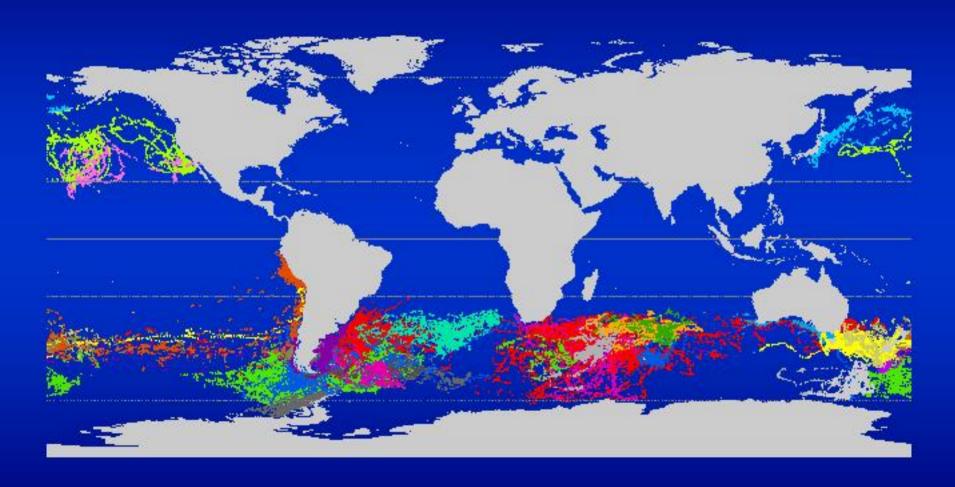
John Croxall, Richard Phillips, Janet Silk & Dirk Briggs British Antarctic Survey



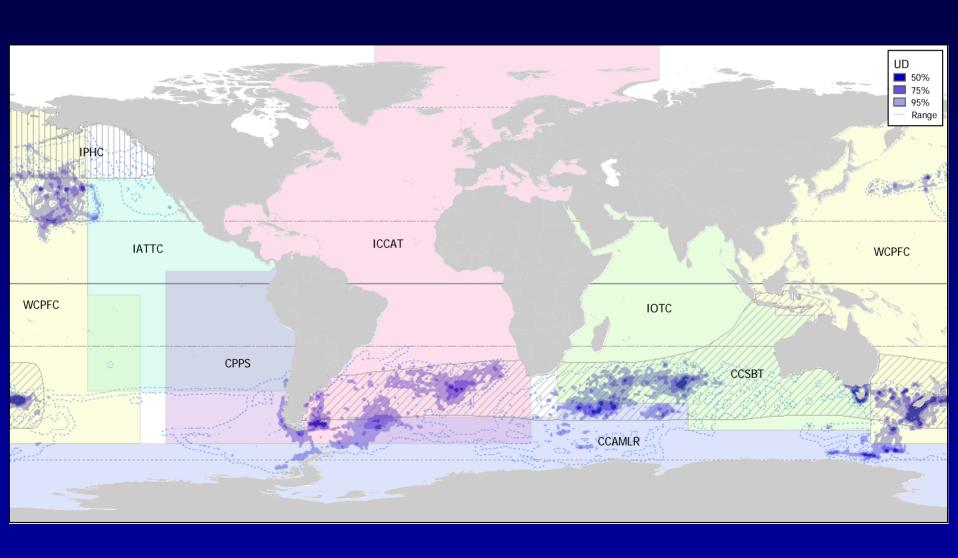
Grey-headed albatross from South Georgia

Winter 1999Summer 2000Winter 2000

## Albatross and petrel satellite tracking



## Distribution of breeding albatrosses in RFMO areas



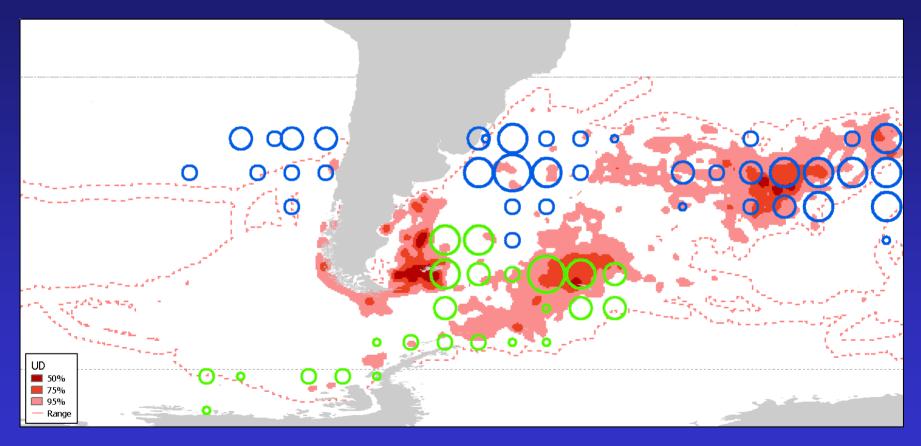
### Top 5 RFMOs for albatross distribution

#### Albatross time

| CCSBT  | 67 % |
|--------|------|
| WCPFC  | 46 % |
| IOTC   | 21 % |
| ICCAT  | 17 % |
| CCAMLR | 16 % |

Also SEAFO, SWIOFC, IPHC, IATTC, CPPS/Galapagos Agreement

## To measure risk: overlap albatross data with fishing effort data

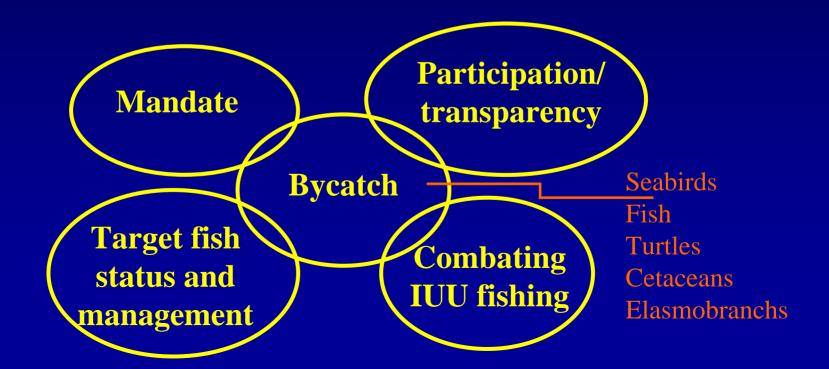


: pelagic longline

: demersal longline

## BirdLife RFMO evaluation

- Based on UN Fish Stocks Agreement & Code of Conduct for Responsible Fisheries
- 100 + criteria



## RFMO performance (% scores)

| A. Partici | pation & trans | parency |
|------------|----------------|---------|
|------------|----------------|---------|

- B. Target fish: data & assessment
- C. Target fish: management & status
- D. Combating IUU fishing
- E1. Commitment to reducing bycatch
- E2. Bycatch data collection
- E3. Bycatch mitigation

TOTAL %

| CCSBT | WCPFC | IOTC | ICCAT | CCAMLR | IATTC |
|-------|-------|------|-------|--------|-------|
| 58    | 82    | 78   | 82    | 70     | 70    |
| 55    | 64    | 36   | 57    | 100    | 64    |
| 41    | -     | 14   | 39    | 82     | 43    |
| 31    | 62    | 58   | 62    | 90     | 50    |
| 60    | 53    | 33   | 55    | 88     | 63    |
| 26    | -     | 8    | 31    | 97     | 87    |
| 4     | -     | 0    | 13    | 90     | 31    |
| 35    | -     | 27   | 44    | 89     | 63    |

### Five essential elements

- 1. Mandate includes non-target species
- 2. Commitment to minimising bycatch
- 3. Bycatch sub-group
- 4. On-Board Observer programme
- 5. Albatross bycatch mitigation



#### **Commission for the Conservation of Antarctic Marine Living Resources:**

Regional observer programme.

Wide range of mitigation measures including streamer lines, line weighting, offal management, night setting.

# Incidental mortality of seabirds in longline fisheries managed by CCAMLR



1997 = 6589 birds killed

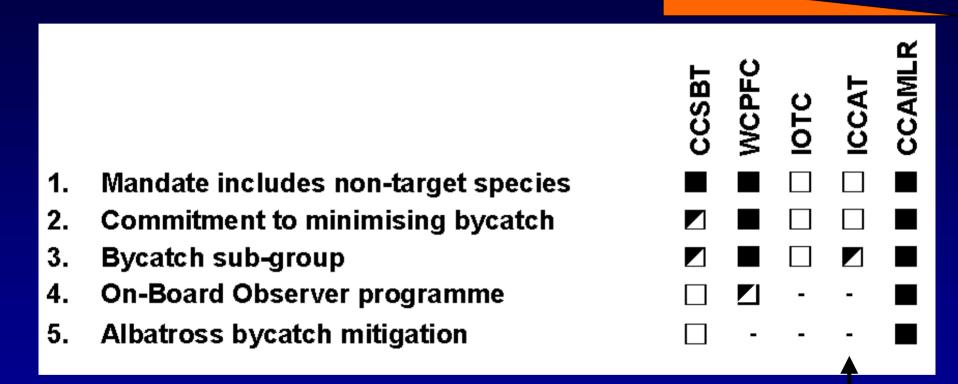
2003 = 15 birds killed

Source: CCAMLR, 2003

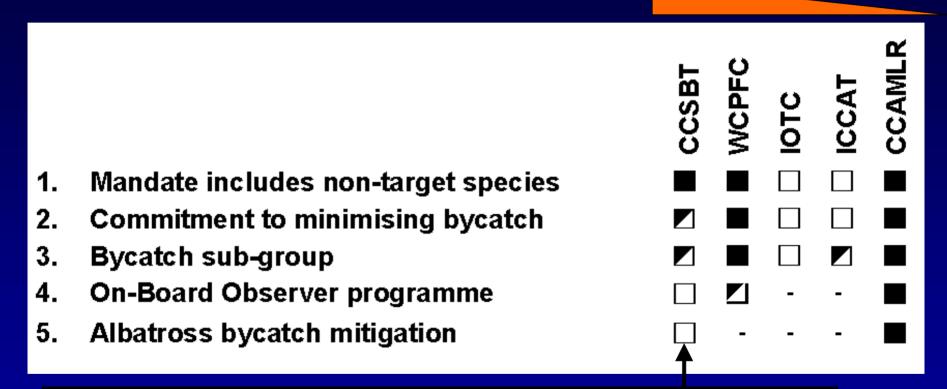
|    |                                     | CCSBT | WCPFC | ЮТС | ICCAT | CCAMLR |
|----|-------------------------------------|-------|-------|-----|-------|--------|
| 1. | Mandate includes non-target species |       |       |     |       |        |
| 2. | Commitment to minimising bycatch    |       |       |     |       |        |
| 3. | Bycatch sub-group                   |       |       |     |       |        |
| 4. | On-Board Observer programme         |       |       | -   | -     |        |
| 5. | Albatross bycatch mitigation        |       | -     | -   | -     |        |

#### **Indian Ocean Tuna Commission:**

Agreed to establish a Bycatch Group (not yet met, initial focus on sharks).

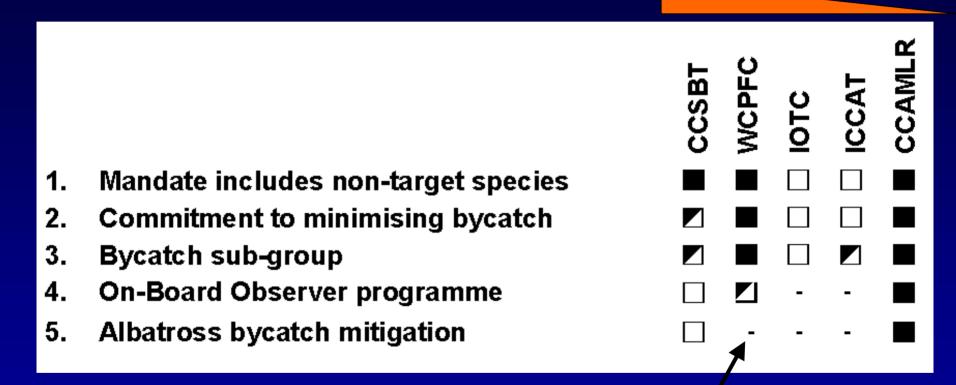


International Commission for the Conservation of Atlantic Tunas: 2002 resolution on seabirds. Resolved to produce seabird report. Has requested delegations include seabird experts.



#### **Commission for Conservation of Southern Bluefin Tuna:**

1995 requirement for streamer lines below 30°S. New observer programme gives low priority to recording data on non-fish species.



#### **Western & Central Pacific Fisheries Commission:**

Convention based on UN Fish Stocks Agreement. In force June 2004.

Will have a bycatch group & observer programme

## What Next?

#### **BirdLife International:**

- Satellite Tracking database
- Overlap of albatross distribution with fishing effort
- Economic cost-benefit analysis
- Other seabird species
- Experience with NPOAs & regional workshops

=> Work programme over next 2 years

## **Summary**

- Central role of RFMOs in reducing albatross bycatch
- International legal framework
- CCAMLR has shown potential
- RFMO performance
- BirdLife International





