

 <p data-bbox="272 499 500 541">Agreement on the Conservation of Albatrosses and Petrels</p>	<p data-bbox="532 226 1359 262">Ninth Meeting of the Seabird Bycatch Working Group</p> <p data-bbox="857 279 1359 315"><i>Florianópolis, Brazil, 6 - 8 May 2019</i></p> <p data-bbox="532 386 1359 478">ACAP seabird bycatch performance indicators and reporting framework</p> <p data-bbox="558 499 1333 575"><i>Sebastián Jiménez, Igor Debski, Wiesława Misiak, Nathan Walker, Anton Wolfaardt</i></p>
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SUMMARY

The ACAP Action Plan calls on the Advisory Committee to routinely review and update data on the mortality of albatrosses and petrels in commercial and other relevant fisheries. It has been agreed previously that the Status-Pressure-Response framework will be used by ACAP to measure performance, and that the main Pressure Indicator for bycatch P1 should be: total number of birds killed per year of ACAP species (by species where possible), and their bycatch rate, across each of the fisheries of member Parties.

Here we report on intersessional progress on the approach agreed at SBWG8. A reporting template was refined for the national reporting process ahead of AC11. The data received through this new reporting format was very limited. We identify the steps needed in the next intersessional period if any progress is to be achieved towards using seabird bycatch indicators to understand how ACAP can track and address the mortality of seabird in fisheries.

RECOMMENDATIONS

We recommend that the Seabird Bycatch Working Group:

1. Consider the reporting format used and advise on any further refinements necessary to allow the collection of robust data for ACAP's bycatch indicator(s).
2. Request that the Advisory Committee reiterates the importance of Parties and Range States reporting bycatch estimates using appropriate statistical methods, or where this is not available, observed bycatch data using relevant strata.
3. Request that the Advisory Committee reiterates the importance of Parties and Range States identifying fisheries where data are either extremely poor or lacking altogether, and the reasons for those.

Indicadores de desempeño del ACAP para la captura secundaria de aves marinas y marco para la presentación de informes

RESUMEN

El Plan de Acción del ACAP solicita al Comité Asesor que revise y actualice en forma periódica los datos sobre mortalidad de albatros y petreles en pesquerías comerciales y demás pesquerías pertinentes. Con anterioridad, se ha acordado que el ACAP utilizaría el marco de Estado-Presión-Respuesta para la medición del desempeño y que el principal indicador de Presión (P1) para la captura secundaria debería ser la cantidad total de aves muertas por año que forman parte de las especies amparadas por el ACAP (en lo posible, según la especie) y la tasa de captura secundaria de estas últimas en cada una de las pesquerías pertenecientes a las Partes.

En este documento, se informa sobre los progresos logrados durante el periodo intersesional con respecto a la metodología acordada en la GdTCS8. Se ajustó una plantilla de presentación de informes según el proceso de presentación de informes de la Reunión CA11 a nivel nacional. Los datos recibidos mediante este nuevo formato de presentación de informes fueron muy limitados. Identificamos los pasos necesarios para el próximo período intersesional si se logran avances en el uso de indicadores de captura secundaria de aves marinas a fin de comprender en qué forma el ACAP puede vigilar y abordar la mortalidad de aves marinas en pesquerías.

RECOMENDACIONES

Se recomienda al Grupo de Trabajo sobre Captura Secundaria de Aves Marinas realizar las siguientes acciones:

1. Considerar el formato usado para la presentación de informes y sugerir ajustes adicionales que pudieran ser necesarios para posibilitar la recopilación de datos sólidos para el/los indicador/es de captura secundaria del ACAP.
2. Solicitar al Comité Asesor que reitere la importancia de que las Partes y los Estados del Área de Distribución informen sobre sus cálculos de captura secundaria utilizando los métodos estadísticos que correspondan, y de que, en caso de que estos últimos no estén disponibles, informen sobre los datos de captura secundaria observada utilizando los estratos pertinentes.
3. Solicitar al Comité Asesor que reitere la importancia de que las Partes y los Estados del Área de Distribución identifiquen pesquerías cuando exista una deficiencia extrema de datos o estos directamente no existan y expliquen las razones de ese fenómeno.

Indicateurs de performance relatifs à la capture accessoire d'oiseaux de mer et format de collecte des données

RÉSUMÉ

Le Plan d'action de l'ACAP prévoit que le Comité consultatif passe en revue et actualise régulièrement les données relatives au taux de mortalité des albatros et des pétrels enregistré dans les activités de pêche commerciale et autre pêche concernée. Il a été convenu précédemment que l'ACAP utiliserait le cadre état-pression-réponse pour mesurer la performance, et que le principal indicateur de pression pour la capture accessoire P1 devrait être le nombre total d'oiseaux inscrits à l'ACAP tués par an (par espèce, dans la mesure du possible), et le taux de capture accessoire dans les pêches de toutes les Parties à l'Accord.

Le présent document constitue un rapport sur les avancées accomplies conformément à l'approche adoptée lors de la réunion du GTCA8. Un modèle de rapport a été affiné pour les procédures nationales de préparation des rapports en prévision du CC11. Les données reçues par le biais de ce nouveau format de rapport étaient très limitées. Nous devons identifier les étapes nécessaires à prendre lors de la prochaine période intersessions pour permettre une meilleure utilisation des indicateurs de capture accessoire d'oiseaux de mer, afin de mieux comprendre comment l'ACAP peut surveiller la mortalité des oiseaux marins dans les pêcheries et de déterminer mesures à prendre en conséquence.

RECOMMANDATIONS

Nous recommandons que le Groupe de travail sur la capture accessoire des oiseaux de mer :

1. examine le format des rapports employé et émette des conseils pour le perfectionner en vue de collecter des données solides pour alimenter les indicateurs de captures accessoires de l'ACAP.
2. prie le Comité consultatif d'insister sur le fait qu'il est important que les Parties et les États de l'aire de répartition communiquent les estimations de capture accessoire à l'aide de méthodes statistiques adéquates ou, si ce n'est pas possible, en utilisant les données relatives à la capture accessoire observée à l'aide des strates pertinentes
3. demande au Comité consultatif de réaffirmer l'importance de l'identification par les Parties et les États de l'aire de répartition des pêcheries où les données sont très rares ou inexistantes, et d'en déterminer les raisons.

1. BACKGROUND

The ACAP Action Plan calls on Parties ‘to collect reliable, and where possible, verifiable data to enable accurate estimation of the nature and extent of albatross and petrel interactions with fisheries’ (Action 4.2). The Action Plan also expects the Advisory Committee regularly to review and update data on the mortality of albatrosses and petrels in fisheries (5.1f) as well as data on the distribution and seasonality of fishing effort for those fisheries that overlap with species listed in Annex 1 of the Agreement (5.1g). In order to achieve this objective, a web-based reporting system was developed to capture and use fisheries and bycatch data submitted by Parties and collaborating Range States. Since its inception, (see AC6 Doc 16 and [SBWG4 Doc 25 Rev 3](#)), the reporting format has undergone a number of reviews ([SBWG5 Doc 16](#), [SBWG6 Doc09](#), [SBWG7 Doc05](#), [SBWG8 Doc05](#)) to reflect discussions about the nature of data which would be submitted to ACAP and used to construct relevant bycatch indicators which would monitor changes in bycatch levels (and factors contributing to these changes), important data gaps that need to be filled, or capacity needs of Parties. The most recent reviews on the reporting format ([SBWG7 Doc 05](#), [SBWG8 Doc 05](#)) have reflected the recommendation made at SBWG6 that instead of providing raw or aggregated data, Parties could provide estimates that they themselves have derived. However, if these estimates are not available, the reporting format also allows unprocessed observer data to be incorporated.

2. RESULTS FROM 2018 - AC11 REPORTING

Following a review of the reporting forms at SBWG8 ([SBWG8 Doc 05](#)) and during subsequent consultations with data holders, the Secretariat made a number of improvements to the presentation of the bycatch forms in the ACAP database (**ANNEX 1**). Depending on the level of data availability for each taxon, seabird bycatch data can now be reported as total estimates of mortality, rate of bycatch or raw observed bycatch data within each fishery stratum on the same page. The ACAP seabird bycatch reporting template solicits bycatch and associated information from Parties in a manner that is intended to facilitate an understanding of the bycatch rates and estimates reported, including undetected mortality, uncertainty in estimation (including the representativeness of observer coverage) and uncertainty in species identification, as well as the mandated mitigation measures and those in use. We encourage further feedback from data custodians on the ease of use of the template, and suggestions for further amendments to allow for reporting of data from their jurisdiction.

Fishery and bycatch data review and submission of new data as part of the AC11 reporting round was very limited. A summary of the reporting status is provided in Annexes 2 and 3.

The database contains 95 fisheries from 14 Parties and Range States (**ANNEX 2**). Trawl was the dominant gear type, reported for 32 fisheries, followed by demersal longline (26 fisheries), and pelagic longline (21 fisheries). Seven fisheries were reported to use purse seines and four to use gillnet and entangling nets. Squid jig, pots/ trap, and bait boats fishing for tuna were reported in one fishery each. Seven fisheries did not have their gear type specified, and no fisheries were identified as boat seines.

Only seven fisheries (New Zealand and USA) were able to report total estimated mortality of all seabirds. Bycatch rates of total seabirds or particular taxa were reported for 16 fisheries (New Zealand, Spain, Uruguay, and USA). Unprocessed observer data for any taxa was

reported for 76 fisheries. Seven Parties or Range States (Chile, New Zealand, Peru, South Africa, Spain, Uruguay and USA) provided information for 2016-2018.

Lack of resources/expertise to process data was reported by two Parties (Argentina and Chile) as the reason for total estimates of mortality or rates of bycatch not being available for their fisheries. Rates of bycatch could not be reported for some New Zealand fisheries due to lack of observer data in those fisheries. For some fisheries, total mortality or rates of bycatch were not reported as no seabirds were observed caught (i.e. observed bycatch was 0).

Information on mandated mitigation measures was provided in eight fisheries (Chile, New Zealand, Spain, Uruguay), and mitigation measures in use were reported for nine fisheries (Chile, New Zealand, Spain, Uruguay).

ACAP Species were reported bycaught in six (out of 9) gear types, along with seven other families of seabirds (**ANNEX 3**). The species most frequently reported in trawl were *Thalassarchesteadi*, *T.salvini*, *Procellariaaequinocialis*, *T.melanophris*, and *T.bulleri*. Those most frequently reported in pelagic longlines were *Phoebastrianigripes* and *P. immutabilis*, and for demersal longlines, *Procellariaaequinocialis*, *T.melanophris*, *Phoebastrianigripes* and *P. immutabilis*.

3. ACAP INDICATORS

ACAP has previously agreed that the primary Pressure Indicator for Bycatch (P1) should comprise two linked components: i) bycatch rates of seabirds (by species, where possible) across each of the fisheries of member Parties and ii) the total number of birds killed (bycaught) per year of ACAP species (again, preferably by species). From the limited data reported in the lead up to AC11 it is clearly not possible at this point in time to report these indicators to measure the performance across all ACAP Parties. The Working Group should consider the question of how much data, in terms of the proportion of the number of ACAP Party fisheries for which bycatch estimates are available, is required to allow meaningful reporting of the Pressure Indicator for Bycatch. This would inform the development of indicator reporting to be considered at SBWG10, ahead of MOP6.

State indicator 2 (S2) relates to the availability of bycatch data relevant to ACAP species. Progress in the availability of bycatch data is measured as an increasing number of Parties and/or fleets reporting bycatch estimates over time, and a change in methods used to those producing most robust estimates. The Working Group should consider reporting options ahead of development of reporting to be considered at SBWG10, ahead of MoP6.

Example State Indicator for Bycatch reporting template:

	2018 (for AC11)				2020 (for AC12)			
	All	Trawl	Pelagic LL	Demersal LL	All	Trawl	Pelagic LL	Demersal LL
Fisheries reporting:								
total estimates of mortality for <u>all seabirds</u>	7/ 7%	2/ 2%	2/ 2%	3/3%				
rates of bycatch for <u>all seabirds</u>	10/10%	1/ 1%	6/ 6%	3/ 3%				
raw observer data for <u>all seabirds</u>	16/17%	5 /5%	6 /6%	5 /6%				

4. FUTURE IMPLEMENTATION

In order for the bycatch indicators work to move forward and be implemented at the next WG and AC meetings, the following issues need to be addressed:

1. Parties and collaborating Range States need to provide information on their relevant fisheries (or advise of the barriers to the provision of this information) in a timely manner. The fishery forms are available outside the AC reporting process and therefore data can be entered at any time.
2. What can ACAP do to address specific barriers to data provision?
3. The analysis and summary of data to be reported to the WGs and the AC/Parties as indicators will require additional resources to those currently available in the Secretariat.

ANNEX 1. Question 4: Bycatch data form

Fisheries: SE nemo longline - back to [edit fishery](#) or [Add records for new Stratum table](#)

Fishery Strata

Please provide information on this stratum below by season, area and vessel as appropriate. If reporting for all seasons, areas and vessels, leave the default "All seasons", "All areas" and "All vessels". You can chose several mitigation measures that are mandated and if different to those used please also specify what is actually being used by clicking on the options in the drop-down list. Then provide the technical specification in the text box below. If your option is not on the list, please email secretariat@acap.aq and ask for it to be added to the list of mitigation measures. If you have estimated bycatch data, please provide details in Section 'A. Estimates' and continue to the taxa table at the bottom of the page. If not, please indicate what is preventing the submission of data at this level and continue to Section 'B. Rates'. If you have data on rates of bycatch for this stratum, please provide the details and continue to the taxa table at the bottom of the page. If not, please indicate what is preventing the submission of data at this level and continue to Section 'C. Observer data'. If you have observed bycatch data for this stratum, please provide the details and continue to the taxa table at the bottom of the page. If not, please save your answers and navigate out of the form via the save button in this section. If the list of total effort, observed effort or Bycatch data source does not have an option you need, please email secretariat@acap.aq. You can enter more than 1 type of data per page e.g. Estimates and Rates, depending on availability for each taxon or taxon grouping. If this is the case, please fill out Sections A and B. You can hide any sections that are not relevant to the type of data your are submitting via the 'Hide Estimates', 'Hide Rates' and 'Hide Raw' buttons at the top of each section. Please remember to save your data regularly and before navigating away from the form/ page.

Year: Season: Area: Vessel:

Mandated mitigation measures -

Mitigation measures in use -

Details and technical specifications of mitigation measures in use (e.g. aerial extent of tori lines, line weighting regime applied) and any other comments.

Optionally select a map linked to this strata.

[Save and continue editing strata](#)

or

[Save and back to fishery](#)

Hide Estimates
Hide Rates
Hide Raw

A. Estimates of total mortality

Do you have simple or stratified ratio estimates, model based or quantitative risk assessment estimates of seabird bycatch in this fishery?

If Yes then

If not, please provide more information (tick all that apply):

- Lack of resources/expertise to process data
- Lack of observer data
- Poor quality data
- Other (please provide details in text box)

Then continue to Rates →

Estimates includes - tick all that apply: [\[edit picklist\]](#)

- birds landed on vessel that are dead
- live birds landed on board that are injured
- birds observed killed or injured by direct interaction with fishing gear but not landed on the fishing vessel
- undetected mortality (not observed) - if yes describe how this was quantified

Source of data - tick all that apply: [\[edit picklist\]](#)

- Observer programme
- Fishery logbooks
- Electronic Monitoring (EM)
- Other - use text box for details

Method comments :

Percent unit fishing effort observed for bycatch (This should reflect the proportion of actual fishing effort that was directly observed and not a proxy which includes e.g. travel time or other periods when the vessel was not engaged in fishing). %

Any other comments on unit fishing effort

B. Bycatch Rates

Do you have rates of seabird bycatch in this fishery?

If Yes then

If not, please provide more information (tick all that apply):

- Lack of resources/expertise to process data
- Lack of observer data
- Poor quality data
- Other (please provide details in text box)

Then continue to Observer Data →

Rates includes - tick all that apply: [\[edit picklist\]](#)

- birds landed on vessel that are dead
- live birds landed on board that are injured
- birds observed killed or injured by direct interaction with fishing gear but not landed on the fishing vessel
- undetected mortality (not observed) - if yes describe how this was quantified

Source of data - tick all that apply: [\[edit picklist\]](#)

- Observer programme
- Fishery logbooks
- Electronic Monitoring (EM)
- Other - use text box for details

Percent unit fishing effort observed for bycatch (This should reflect the proportion of actual fishing effort that was directly observed and not a proxy which includes e.g. travel time or other periods when the vessel was not engaged in fishing). %

Any other comments on unit fishing effort

C. Raw/unprocessed Bycatch Data

Do you have any raw/unprocessed data (i.e. no estimates) for seabird bycatch in this fishery?

If Yes then

If not, please provide more information (tick all that apply):

- No observer programme in this fishery (data is not collected)
- Data collected, but not available from agency responsible
- Other (please provide details in text box)

Then [Save and back to fishery](#)

	Quantity	Type
Total Effort	<input type="text"/>	total number of hooks set based on complete reporting
Observed Effort	<input type="text"/>	Number of hooks observed

OR

Percent unit fishing effort observed for bycatch (This should reflect the proportion of actual fishing effort that was directly observed and not a proxy which includes e.g. travel time or other periods when the vessel was not engaged in fishing). %

Bycatch data source: [Observed caught](#)

Comment

Please provide details of seabird bycatch for this stratum. Data can be entered as Estimates, Rates or numbers observed caught, depending on what is available for each taxon or group. Columns that are not needed for data entry can be hidden from view e.g. if you only have observed data, Rates and Estimates sections can be hidden. Or, if you have observed data for some species, but Rates data for other species, you can show and hide the appropriate columns as you proceed with data entry.

Hide Taxon/Group Raw Hide Taxon/Group Rates Hide Taxon/Group Estimates

Taxon/group	Raw	Rates		Estimates					Entered by
	How many observed caught	Rate	Per unit fishing effort	Estimate	Uncertainty (min - max)	Measure of uncertainty type e.g. 95% CI	How was 95% CI or other measure of uncertainty derived?	estimate_method [edit picklist]	
Total seabirds	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Total Diomedidae	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Total albatrosses	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Total Procellariidae	<input type="text"/>	45	1000 hooks set	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Wieslawa Misiak
Total petrels, prions and shearwaters	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Total non-Procellariidae non-Diomedidae	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Total other seabirds	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Diomedidae	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Unidentified albatross	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Diomedea sp	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Unidentified great albatrosses	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Diomedea	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
exulans/dabbenena /antipodensis	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Wandering Albatross sensu lato (or complex)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Diomedea amsterdamensis	<input type="text"/>	12.3	1000 hooks set	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Wieslawa Misiak
Amsterdam albatross	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Diomedea antipodensis	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Antipodean albatross	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Diomedea dabbenena	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Tristan albatross	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> - <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

ANNEX 2.

Table 1. All reported fisheries with types of bycatch data reported in each fishery.

	Fishery	Gear Type	Number of strata in this fishery	Strata year - earliest reported	Strata year - latest reported	Number of strata with Estimates of total mortality	Number of strata with Bycatch rates	Number of strata with Raw data
Argentina	CONGELADORES - MERLUZA DE COLA, POLACA Y MERLUZA NEGRA	Trawl	17	2008	2014			4
Argentina	CONGELADORES - MERLUZA HUBBSI	Trawl	16	2008	2013			3
Argentina	CONGELADORES - PALANGREROS	Longline - demersal	25	2008	2012			5
Argentina	CONGELADORES - TANGONEROS	Longline - demersal	40	2005	2012			8
Argentina	COSTEROS - FLOTA AMARILLA DE RAWSON	Trawl	35	2006	2012			7
Argentina	COSTEROS - PELAGICAS - RED DE MEDIA AGUA	Trawl	10	2011	2012			2
Argentina	FRESQUEROS ALTURA - MERLUZA HUBBSI	Trawl	27	2008	2014			7
Argentina	RADA O RIA - MERLUZA HUBBSI - PALANGRE	Longline - demersal	5	2009	2009			
Australia	Eastern Tuna and Billfish	Longline - pelagic	50	2004	2013			4
Australia	Gillnet, Hook & Trap - longline sector	Longline - demersal	50	2004	2013			6
Australia	Great Australian Bight Trawl Sector	Trawl	50	2004	2013			1
Australia	Heard Island & McDonald Islands - Longline	Longline - demersal	50	2004	2013			6
Australia	Heard Island and McDonald Islands - Trawl	Trawl	50	2004	2013			4

	Fishery	Gear Type	Number of strata in this fishery	Strata year - earliest reported	Strata year - latest reported	Number of strata with Estimates of total mortality	Number of strata with Bycatch rates	Number of strata with Raw data
Australia	Macquarie Island - Longline	Longline - demersal	50	2004	2013			
Australia	Macquarie Island - Trawl	Trawl	45	2004	2012			
Australia	South-East Trawl including Victorian Inshore Trawl	Trawl	50	2004	2013			7
Australia	Western Tuna and Billfish	Longline - pelagic	50	2004	2013			1
Brazil	Monkfish gillnet	gillnet and entangling nets	15	2011	2013			2
Brazil	Pelagic longline for tuna and swordfish	Longline - pelagic	50	2004	2013			8
Brazil	Pelagic Longline Fishery - Foreign-owned fishing boats rented by Brazilian fishing enterprises	Longline - pelagic	6	2011	2012			1
Canada	Commercial Pacific Halibut fishery (west coast of Canada)	no data	30	2004	2009			4
Canada	Commercial Pacific Salmon gillnet fishery	no data	10	2009	2010			1
Canada	Commercial Rockfish (west coast of Canada)	no data	30	2004	2009			3
Chile	PESQUERIA DE ARRASTRE DE CRUSTACEOS DEMERSALES	Trawl	17	2013-2015	2017		1	3
Chile	Pesquería industrial de cerco de pequeños pelágicos (sardina y anchoveta, otros)	purse seines	16	2014	2017			5
Chile	Pesquería de cerco artesanal de pequeños pelagicos (sardina comun y anchoveta)	purse seines	16	2014	2017			4
Chile	pesqueria de cerco industrial sobre pelagicos medianos (Jurel, caballa).	purse seines	16	2014	2017			3

	Fishery	Gear Type	Number of strata in this fishery	Strata year - earliest reported	Strata year - latest reported	Number of strata with Estimates of total mortality	Number of strata with Bycatch rates	Number of strata with Raw data
Chile	Pesquería artesanal de peces pelagicos mediano y tiburones	Longline - pelagic	1	2017	2017			1
Chile	Pesquería Arrastre Fabrica (congelador) especies: Merlucciusaustralis, Macruronusmagellanicus, Genypterusblacodes, Micromesistiusaustralis y otras especies demersales.	Trawl	20	2012	2017			8
Chile	Pesquería de arrastre fabrica Surimero especies objetivo : merluza de tres aletas (Micromesistiusaustralis), Merluza de cola (Macruronusmagellanicus)	Trawl	21	2012	2017			7
Chile	Pesquería de Arrastre Hielero especies merluza del sur (merlucciusaustralis) y merluza de cola (macruronusmagellanicus) y otras especies demersales.	Trawl	21	2012	2017			8
Chile	Gillnets Swordfish Fishery	gillnet and entangling nets	16	2011	2017			1
Chile	Pelagic longline	Longline - pelagic	50	2004	2013			2
Chile	Pelagic longline	Longline - pelagic	66	2004	2017			12
Chile	Pesquería merluza del sur (Merlucciusaustralis), flota palangre industrial.	Longline - demersal	60	2004	Q3 (Jul-Sep)			7
Chile	Tootfish's fishery, Bacalao de profundidad Industrial	Longline - demersal	57	2004	2017			2
Ecuador	Artisanal demersal longline fishery in Santa Rosa	Longline - demersal	20	2010	2013			1

	Fishery	Gear Type	Number of strata in this fishery	Strata year - earliest reported	Strata year - latest reported	Number of strata with Estimates of total mortality	Number of strata with Bycatch rates	Number of strata with Raw data
France	Pêcheriepalangrière À la L'océane Australe	Longline - demersal	55	2004	2014			
New Zealand	Trawl	Trawl	288	2002/2003	2017	279	279	3
New Zealand	Setnet	gillnet and entangling nets	6	2012/13	2017		6	3
New Zealand	Purse seine	purse seines	6	2012/13	2017		6	3
New Zealand	Deepwater trawl	Trawl	51	2004	2014			9
New Zealand	Demersal longline	Longline - demersal	57	2004	2017	6	6	13
New Zealand	Inshore trawl	no data	51	2004	2014			10
New Zealand	Middle depth trawl	no data	51	2004	2014			10
New Zealand	Pelagic longline	Longline - pelagic	57	2004	2017	6	6	13
New Zealand	Pelagic trawl	Trawl	52	2004	2014	1		10
Peru	Palangre de fondo	Longline - demersal	15	2014	2016			
Peru	Arrastre industrial	Trawl	35	2010	2016			
Peru	Cerco : Pesca industrial de cerco para anchoveta	purse seines	50	2007	2016			4
Peru	Espinelartesanal	Longline - pelagic	26	2005	2010			3
Peru	Redes agalleras a la deriva	no data	11	2005	2009			1

	Fishery	Gear Type	Number of strata in this fishery	Strata year - earliest reported	Strata year - latest reported	Number of strata with Estimates of total mortality	Number of strata with Bycatch rates	Number of strata with Raw data
South Africa	Large Pelagics	Longline - pelagic	16	2014	2017			2
South Africa	Demersal Shark Longline	Longline - demersal	1	2013	2013			
South Africa	Demersal Trawl OFFSHORE	Trawl	34	2004	2014			
South Africa	Patagonian Toothfish Longline	Longline - demersal	50	2004	2013			3
South Africa	Tuna / Swordfish Longline (South African vessels only)	Longline - pelagic	45	2004	2012			7
South Africa	Tuna Longline Fishery - Joint Venture Vessels only	Longline - pelagic	50	2004	2013			9
Spain	Flota de arrastre cefalopodera y de peces de aleta congeladora (mã©tier OTB_MCF>70_0_0)	Trawl	3	2015	2017			
Spain	Flota artesanal polivalente dirigida a especies demersales de Canarias (mã©tier MIS_DES_0_0_0)	Longline - demersal Longline - pelagic pots/traps	3	2015	2017			
Spain	Flota artesanal de cerco dirigida a pequeños pelágicos en Canarias (mã©tier PS_SPF_10_0_0)	purse seines	1	2017	2017			
Spain	Flota de cebo vivo de Canarias y tropical (base en Dakar) de tãºnidos y especies afines. Bait boat!	bait boats fishing for tuna	2	2016	2018			

	Fishery	Gear Type	Number of strata in this fishery	Strata year - earliest reported	Strata year - latest reported	Number of strata with Estimates of total mortality	Number of strata with Bycatch rates	Number of strata with Raw data
Spain	Palangre de Fondo dirigida a Austromerluza patagónica en aguas de SIOFA (OcéanoIndicó)	Longline - demersal	2	2017	2018		1	1
Spain	Palangre de superficie dirigido a pez espada (WCPFC)	Longline - pelagic	10	2010	2011			1
Spain	Pesquería dirigida a especies demersales y pelágicas en zonas ICES (VI, VII, VIII y IX)	gillnet and entangling nets Longline - demersal purse seines Trawl	58	2004	2017			2
Spain	Palangre y arrastre de fondo en el Mediterráneo español (excepto tñidos)	Longline - demersal Trawl	25	2009	2017			
Spain	Pesquería de arrastre dirigida a crustáceos en Atlántico Centro-Este	Trawl	13	2010	2017			
Spain	Pesquería de arrastre de fondo dirigida a la merluza en Atlántico Centro-oriental (CECAF)	Trawl	7	2010	2017			
Spain	Palangre de superficie dirigido a pez espada O. Atlántico (ICCAT-ATL)	Longline - pelagic	14	2011	2017		1	1
Spain	Palangre de superficie dirigido a pez espada en océano Índico (IOTC)	Longline - pelagic	54	2004	2017		2	3
Spain	Palangre de superficie dirigido a grandes pelágicos del Mediterráneo	Longline - pelagic	44	2004	2017		5	7
Spain	PALANGRE DE SUPERFICIE PACÍFICO (IATTC)	Longline - pelagic	20	2011	2018		2	3

	Fishery	Gear Type	Number of strata in this fishery	Strata year - earliest reported	Strata year - latest reported	Number of strata with Estimates of total mortality	Number of strata with Bycatch rates	Number of strata with Raw data
Spain	Pesquería de Palangre de fondo en el océanoAntártico (CCAMLR)	Longline - demersal	29	2010	2018			
Spain	PESQUERÍA AS LEJANAS ARRASTRE GRAN ALTURA NORTE	Trawl	11	2012	2017			
Spain	Pesquería de arrastre de gran altura en Atlántico Sudoeste (ATSW-MALVINAS)	Trawl	19	2011	2017			1
United Kingdom	Bluenose/Bluefish (Hyperoglypheantarctica) - Tristan da Cunha	Longline - demersal	50	2004	2013			4
United Kingdom	Demersal longline fishery for Patagonian toothfish (Dissostichuseleginoides) - Falkland Islands ¹	Longline - demersal	45	2004	2012			3
United Kingdom	Demersal longline fishery for Patagonian toothfish - South Georgia ¹	Longline - demersal	50	2004	2013			8
United Kingdom	Finfish demersal trawl fishery - Falkland Islands ¹	Trawl	45	2004	2012			9
United Kingdom	Finfish pelagic trawl fishery - Falkland Islands ¹	Trawl	45	2004	2012			3
United Kingdom	Illexargentinus jig fishery - Falkland Islands ¹	squid jig	45	2004	2012			
United Kingdom	Loligogahi demersal trawl fishery - Falkland Islands ¹	Trawl	45	2004	2012			4
United Kingdom	Trawl fishery for Antarctic krill (South Georgia) ¹	Trawl	50	2004	2013			
United Kingdom	Trawl fishery targeting Icefish (Champsocephalusgunnari) in CCAMLR 48.3 (South Georgia) ¹	Trawl	50	2004	2013			9

	Fishery	Gear Type	Number of strata in this fishery	Strata year - earliest reported	Strata year - latest reported	Number of strata with Estimates of total mortality	Number of strata with Bycatch rates	Number of strata with Raw data
Uruguay	Palangre de fondo (Cherna Polyprionamericanus)	Longline - demersal	2	2015	2016		2	2
Uruguay	Palangre de fondo (Merluza Negra Dissostichuseleginoides)	Longline - demersal	2	2015	2016		2	2
Uruguay	PalangrepelÃ¡gico	Longline - pelagic	7	2004	2010	4	7	7
USA	Alaska demersal longline	Longline - demersal	38	2004	2017	5		14
USA	Alaska Demersal Groundfish Trawl	Trawl	54	2004	2017	5		14
USA	At-Sea Hake Trawl (Motherships & Catcher Processors; U.S. West Coast)	Trawl	30	2004	2009			6
USA	Limited Entry Sablefish-endorsed Fixed Gear (U.S. West Coast)	pots/traps	30	2004	2009			5
USA	Open Access Fixed Gear (U.S. West Coast)	no data	30	2004	2009			1
USA	Pacific halibut (Alaska)	Longline - demersal	49	2004	2017	5		5
USA	Hawaii-based Pelagic Longline, Deep Set	Longline - pelagic	75	2004	2018	37	75	75
USA	Hawaii-based Pelagic Longline, Shallow Set	Longline - pelagic	75	2004	2018	15	53	53

¹A dispute exists between the Governments of Argentina and the United Kingdom of Great Britain and Northern Ireland concerning sovereignty over the Falkland Islands (Islas Malvinas), South Georgia and the South Sandwich Islands (Islas Georgias del Sur e Islas Sandwich del Sur) and the surrounding maritime areas.

Table 2. All reported fisheries with mitigation use reported in each fishery.

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Argentina	CONGELADORES - MERLUZA DE COLA, POLACA Y MERLUZA NEGRA	Trawl	17			N			
Argentina	CONGELADORES - MERLUZA HUBBSI	Trawl	16			N			
Argentina	CONGELADORES - PALANGREROS	Longline - demersal	25				5	2	2008 2009
Argentina	CONGELADORES - TANGONEROS	Longline - demersal	40			N			
Argentina	COSTEROS - FLOTA AMARILLA DE RAWSON	Trawl	35			N			
Argentina	COSTEROS - PELAGICAS - RED DE MEDIA AGUA	Trawl	10			N			
Argentina	FRESQUEROS ALTURA - MERLUZA HUBBSI	Trawl	27			N			
Argentina	RADA O RIA - MERLUZA HUBBSI - PALANGRE	Longline - demersal	5			N			

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Australia	Eastern Tuna and Billfish	Longline - pelagic	50			Y	5	8	2006 2007 2008 2009 2010 2011 2012 2013
Australia	Gillnet, Hook & Trap - longline sector	Longline - demersal	50			Y	5	10	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
Australia	Great Australian Bight Trawl Sector	Trawl	50			Y			
Australia	Heard Island & McDonald Islands - Longline	Longline - demersal	50			Y	7	10	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Australia	Heard Island and McDonald Islands - Trawl	Trawl	50			Y	4	10	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
Australia	Macquarie Island - Longline	Longline - demersal	50			Y	9	7	2007 2008 2009 2010 2011 2012 2013
Australia	Macquarie Island - Trawl	Trawl	45			Y	2	4	2004 2005 2006 2010
Australia	South-East Trawl including Victorian Inshore Trawl	Trawl	50			Y			

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Australia	Western Tuna and Billfish	Longline - pelagic	50			Y	4	8	2006 2007 2008 2009 2010 2011 2012 2013
Brazil	Monkfish gillnet	gillnet and entangling nets	15			N			
Brazil	Pelagic longline for tuna and swordfish	Longline - pelagic	50			Y	3	3	2011 2012 2013
Brazil	Pelagic Longline Fishery - Foreign-owned fishing boats rented by Brazilian fishing enterprises	Longline - pelagic	6				2	2	2011 2012
Canada	Commercial Pacific Halibut fishery (west coast of Canada)	no data	30			Y			
Canada	Commercial Pacific Salmon gillnet fishery	no data	10			N			
Canada	Commercial Rockfish (west coast of Canada)	no data	30			Y			
Chile	PESQUERIA DE ARRASTRE DE CRUSTACEOS DEMERSALES	Trawl	17			N			
Chile	Pesquería industrial de cerco de pequeños pelágicos (sardina y anchoveta, otros)	purse seines	16			N			

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Chile	Pesquería de cerco artesanal de pequeños pelágicos (sardina común y anchoveta)	purse seines	16			N			
Chile	pesquería de cerco industrial sobre pelágicos medianos (Jurel, caballa).	purse seines	16			N			
Chile	Pesquería artesanal de peces pelágicos mediano y tiburones	Longline - pelagic	1						
Chile	Pesquería Arrastre Fabrica (congelador) especies: Merluccius australis, Macrurus magellanicus, Genypterus blacodes, Micromesistius australis y otras especies demersales.	Trawl	20			Y	1	3	2012 2013 2016
Chile	Pesquería de arrastre fabrica Surimero especies objetivo : merluza de tres aletas (Micromesistius australis), Merluza de cola (Macrurus magellanicus)	Trawl	21			Y	1	1	2014
Chile	Pesquería de Arrastre Hielero especies merluza del sur (merluccius australis) y merluza de cola (macrurus magellanicus) y otras especies demersales.	Trawl	21				1	3	2012 2013 2014
Chile	Gillnets Swordfish Fishery	gillnet and entangling nets	16			N			

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Chile	Pelagic longline	Longline - pelagic	50			Y	5	7	2007 2008 2009 2010 2011 2012 2013
Chile	Pelagic longline	Longline - pelagic	66	3	2	Y	7	10	2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Chile	Pesquería merluza del sur (Merluccius australis), flota palangre industrial.	Longline - demersal	60			Y	9	8	2006 2007 2008 2009 2010 2011 2012 2013

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Chile	Tootfish's fishery, Bacalao de profundidad Industrial	Longline - demersal	57			Y	5	11	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014
Ecuador	Artisanal demersal longline fishery in Santa Rosa	Longline - demersal	20			N			
France	Pêcherie palangrière À la LÃ©gine Australe	Longline - demersal	55			Y	13	4	2011 2012 2013 2014
New Zealand	Trawl	Trawl	288	3	8	Y	2	12	2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
New Zealand	Setnet	gillnet and entangling nets	6			N			
New Zealand	Purse seine	purse seines	6			N			
New Zealand	Deepwater trawl	Trawl	51			Y	3	9	2006 2007 2008 2009 2010 2011 2012 2013 2014
New Zealand	Demersal longline	Longline - demersal	57	5	9	Y	7	10	2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
New Zealand	Inshore trawl	no data	51			N	4	7	2008 2009 2010 2011 2012 2013 2014
New Zealand	Middle depth trawl	no data	51			Y	5	9	2006 2007 2008 2009 2010 2011 2012 2013 2014
New Zealand	Pelagic longline	Longline - pelagic	57	3	6	Y	3	10	2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
New Zealand	Pelagic trawl	Trawl	52			Y	5	9	2006 2007 2008 2009 2010 2011 2012 2013 2014
Peru	Palangre de fondo	Longline - demersal	15			N			
Peru	Arrastre industrial	Trawl	35			N			
Peru	Cerco : Pesca industrial de cerco para anchoveta	purse seines	50			N			
Peru	Espinel artesanal	Longline - pelagic	26			Y	1	1	2009
Peru	Redes agalleras a la deriva	no data	11			Y			
South Africa	Large Pelagics	Longline - pelagic	16			Y	8	4	2014 2015 2016 2017
South Africa	Demersal Shark Longline	Longline - demersal	1				3	1	2013

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
South Africa	Demersal Trawl OFFSHORE	Trawl	34				4	9	2006 2007 2008 2009 2010 2011 2012 2013 2014
South Africa	Patagonian Toothfish Longline	Longline - demersal	50			Y			
South Africa	Tuna / Swordfish Longline (South African vessels only)	Longline - pelagic	45			Y			
South Africa	Tuna Longline Fishery - Joint Venture Vessels only	Longline - pelagic	50			Y			
Spain	Flota de arrastre cefalopodera y de peces de aleta congeladora (mã©tier OTB_MCF>70_0_0)	Trawl	3						
Spain	Flota artesanal polivalente dirigida a especies demersales de Canarias (mã©tier MIS_DES_0_0_0)	Longline - demersal	3						
		Longline - pelagic							
Spain	Flota artesanal de cerco dirigida a pequeÃ±ospelã©gicos en Canarias (mã©tier PS_SPF_10_0_0)	purse seines	1						

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Spain	Flota de cebo vivo de Canarias y tropical (base en Dakar) de t�nidos y especies afines. Bait boat!	bait boats fishing for tuna	2						
Spain	Palangre de Fondo dirigida a Austromerluza patag�nica en aguas de SIOFA (Oceano Indico)	Longline - demersal	2	1	1				
Spain	Palangre de superficie dirigido a pez espada (WCPFC)	Longline - pelagic	10						
Spain	Pesquer�a dirigida a especies demersales y pel�gicas en zonas ICES (VI, VII, VIII y IX)	gillnet and entangling nets	58						
		Longline - demersal							
		purse seines							
		Trawl							
Spain	Palangre y arrastre de fondo en el Mediterr�neo espa�ol (excepto t�nidos)	Longline - demersal	25						
		Trawl							
Spain	Pesquer�a de arrastre dirigida a crust�ceos en Atl�ntico Centro-Este	Trawl	13			N			
Spain	Pesquer�a de arrastre de fondo dirigida a la merluza en Atl�ntico Centro-oriental (CECAF)	Trawl	7			N			

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
Spain	Palangre de superficie dirigido a pez espada O. Atlántico (ICCAT-ATL)	Longline - pelagic	14			Y			
Spain	Palangre de superficie dirigido a pez espada en océano Índico (IOTC)	Longline - pelagic	54						
Spain	Palangre de superficie dirigido a grandes pelágicos del Mediterráneo	Longline - pelagic	44		1	N			
Spain	PALANGRE DE SUPERFICIE PACÃ FICO (IATTC)	Longline - pelagic	20			Y			
Spain	Pesquería de Palangre de fondo en el océano Antártico (CCAMLR)	Longline - demersal	29	3	3	Y			
Spain	PESQUERÃ AS LEJANAS ARRASTRE GRAN ALTURA NORTE	Trawl	11						
Spain	Pesquería de arrastre de gran altura en Atlántico Sudoeste (ATSW-MALVINAS)	Trawl	19			Y			
United Kingdom	Bluenose/Bluefish (Hyperoglypheantarctica) - Tristan da Cunha	Longline - demersal	50			Y	3	5	2004 2005 2006 2007 2008

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
United Kingdom	Demersal longline fishery for Patagonian toothfish (Dissostichuseleginoides) - Falkland Islands ¹	Longline - demersal	45			Y	6	9	2004 2005 2006 2007 2008 2009 2010 2011 2012
United Kingdom	Demersal longline fishery for Patagonian toothfish - South Georgia ¹	Longline - demersal	50			Y	18	10	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
United Kingdom	Finfish demersal trawl fishery - Falkland Islands ¹	Trawl	45			Y	2	9	2004 2005 2006 2007 2008 2009 2010 2011 2012

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
United Kingdom	Finfish pelagic trawl fishery - Falkland Islands ¹	Trawl	45			Y	5	9	2004 2005 2006 2007 2008 2009 2010 2011 2012
United Kingdom	Illexargentinus jig fishery - Falkland Islands ¹	squid jig	45			N			
United Kingdom	Loligogahi demersal trawl fishery - Falkland Islands ¹	Trawl	45			Y	1	6	2007 2008 2009 2010 2011 2012
United Kingdom	Trawl fishery for Antarctic krill (South Georgia) ¹	Trawl	50			Y	8	10	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
United Kingdom	Trawl fishery targeting Icefish (Champscephalusgunnari) in CCAMLR 48.3 (South Georgia) ¹	Trawl	50			Y	10	10	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013
Uruguay	Palangre de fondo (Cherna Polyprionamericanus)	Longline - demersal	2	1	1				
Uruguay	Palangre de fondo (Merluza Negra Dissostichuseleginoides)	Longline - demersal	2	4	4	Y			
Uruguay	PalangrepelÁgico	Longline - pelagic	7			Y			
USA	Alaska demersal longline	Longline - demersal	38			Y	1	8	2004 2005 2006 2007 2008 2009 2010 2011
USA	Alaska Demersal Groundfish Trawl	Trawl	54			N			
USA	At-Sea Hake Trawl (Motherships & Catcher Processors; U.S. West Coast)	Trawl	30			N			

	Fishery	Gear Type	Number of strata in this fishery	Number of unique Mandated Mitigation measures (all strata)	Number of unique Mitigation measures in use (all strata)	Q8.1 Any mitigation measures currently required in this fishery?	Q8.1 How many unique mitigation measures used in all years	Q8.1 How many years with mitigation measures	Q8.1 Which years had mitigation measures
USA	Limited Entry Sablefish-endorsed Fixed Gear (U.S. West Coast)	pots/traps	30			N			
USA	Open Access Fixed Gear (U.S. West Coast)	no data	30						
USA	Pacific halibut (Alaska)	Longline - demersal	49						
USA	Hawaii-based Pelagic Longline, Deep Set	Longline - pelagic	75			Y	5	9	2004 2005 2006 2007 2008 2009 2010 2011 2012
USA	Hawaii-based Pelagic Longline, Shallow Set	Longline - pelagic	75			Y	4	8	2004 2005 2006 2007 2008 2009 2010 2011

¹A dispute exists between the Governments of Argentina and the United Kingdom of Great Britain and Northern Ireland concerning sovereignty over the Falkland Islands (Islas Malvinas), South Georgia and the South Sandwich Islands (Islas Georgias del Sur e Islas Sandwich del Sur) and the surrounding maritime areas.

Taxa	Longline - demersal	Longline - pelagic	Trawl	squid jig	pots/traps	purse seines	boat seines	gillnet and entangling nets	bait boats fishing for tuna
<i>Thalassarcheeremita</i> Chatham albatross	9	8	67					3	
<i>Thalassarcheclororhynchos/carteri</i> Yellow-nosed albatross									
<i>Thalassarchecarteri</i> Indian yellow-nosed albatross	8	11	14					3	
<i>Thalassarcheclororhynchos</i> Atlantic Yellow-nosed Albatross	5	34	13						
<i>Thalassarchechrysostoma</i> Grey-headed albatross	10	20	24					3	
<i>Thalassarchebulleri</i> Buller's Albatross	13	27	153					3	
<i>Phoebetria sp</i> Unidentified sooty albatross	2								
<i>Phoebetria palpebrata</i> Light-mantled Albatross	8	8	14					3	
<i>Phoebetria fusca</i> Sooty Albatross	6	14	11						
<i>Phoebastriaalbatrus</i> Short-tailed albatross	8	5	11						
<i>Phoebastriaimmunabilis</i> Laysan albatross	22	114	13						
<i>Phoebastriairrorata</i> Waved albatross	6	7	11						
<i>Phoebastrianigripes</i> Black-footed albatross	22	121	15		5				
<i>Procellariidae</i> Unidentified petrel/shearwater	4	7	6						
<i>Macronectessp</i> Giant petrel	2	11	6			1			
<i>Macronectesgiganteus</i> Southern Giant Petrel	14	19	29						
<i>Macronecteshalli</i> Northern Giant Petrel	10	16	22			1		3	
<i>Procellariasp</i> Unidentified Procellaria petrel	2		2			1		2	
<i>Procellariaaequinoctialis</i> White-chinned Petrel	33	55	186					4	
<i>Procellariaconspicillata</i> Spectacled petrel	5	15	11					1	
<i>Procellariacinerea</i> Grey petrel	13	15	86			1		4	
<i>Procellariaparkinsoni</i> Black petrel	15	15	43					3	
<i>Procellariawestlandica</i> Westland petrel	12	15	96					3	
<i>Daptioncapense</i> Cape petrel	9	8	17			1		2	

Taxa	Longline - demersal	Longline - pelagic	Trawl	squid jig	pots/traps	purse seines	boat seines	gillnet and entangling nets	bait boats fishing for tuna
<i>Fulmarus glacialis</i> Northern Fulmar	15	2	13						
<i>Fulmarus glacialisoides</i> Antarctic fulmar	1	1	3						
<i>Pterodromasp</i> Gadfly petrels			1						
<i>Pterodromamacroptera</i> Great-winged petrel		3	2						
<i>Pterodromaneglecta</i> Kermadec petrel		1	1						
<i>Pterodromaaminjoniana</i> Trindade Petrel		1							
<i>Halobaenacaerulea</i> Blue petrel			1						
<i>Calonectris</i> sp Calonectris shearwater									
<i>Calonectris diomedea</i> Scopoli's Shearwater		5							
<i>Calonectris borealis</i> Cory's Shearwater									
<i>Calonectris edwardsii</i> Cape Verde Shearwater									
<i>Ardennasp</i> Unidentified Ardenna shearwater	6	31	4						
<i>Ardenna gravis</i> Great shearwater	5	9	4					2	
<i>Ardennacreatopus</i> Pink-footed Shearwater		1	1			11			
<i>Ardennapacifica</i> Wedge-tailed shearwater		1	4		5				
<i>Ardennatenuirostris</i> Short-tailed shearwater	2		1						
<i>Ardennacarneipes</i> Flesh-footed shearwater	6	2	1						
<i>Ardennagrisea</i> Sooty shearwater	2	12	9			8			
<i>Puffinus</i> sp Unidentified Puffinus petrel		3						2	
<i>Puffinus mauretanicus</i> Balearic Shearwater		6	1						
<i>Hydrobatidae</i> Unidentified storm petrel						2			
<i>Oceanites oceanicus</i> Wilson's storm petrel			1			1			
<i>Spheniscus</i> sp Unidentified Spheniscus penguin						4			
<i>Spheniscushumboldtii</i> Humboldt Penguin						7			

Taxa	Longline - demersal	Longline - pelagic	Trawl	squid jig	pots/traps	purse seines	boat seines	gillnet and entangling nets	bait boats fishing for tuna
<i>Spheniscusmagellanicus</i> Magellanic penguin	7		8			2			
<i>Pygoscelispapua</i> Gentoo penguin	2		1						
<i>Pelecanusthagus</i> Peruvian Pelican			4			9			
<i>Morusbassanus</i> Northern gannet		5							
<i>Moruscapensis</i> Cape Gannet		2							
<i>Sula dactylatra</i> Masked booby									
<i>Sula variegata</i> Peruvian Booby						7			
<i>Phalacrocoraxsp</i>	1					1			
<i>Phalacrocoraxbougivillii</i> Guanay Cormorant						3			
<i>Phalacrocoraxmagellanicus</i> Rock Shag			2						
<i>Larus</i> sp	8	10	3						
<i>Larusdominicanus</i> Kelp gull	4		2			7			
<i>Ichthyaetusmelanocephalus</i> Mediterranean gull		3							
<i>Laruspipixcan</i> Franklin's gull			1			1			
<i>Rissa tridactyla</i> Black-legged kittiwake		1							
<i>Larosternainca</i> Inca tern						1			
<i>Sterna hirundinacea</i> South American Tern						1			
<i>Phaethon lepturus</i> White-tailed Tropicbird		1	1						
<i>Stercorariuspomarinus</i> Pomarineskua		3							
<i>Catharactaskua</i> Great skua		2							
<i>Catharactasp</i> Unidentified skua									
<i>Uriaaalge</i> Common Murre			4						
<i>Brachyramphusmarmoratus</i> Marbled Murrelet	1		1						
<i>Cephuscolumba</i> Pigeon Guillemot			1						
<i>Cerorhincamonocerata</i> Rhinceros Auklet	2		3						

Taxa	Longline - demersal	Longline - pelagic	Trawl	squid jig	pots/traps	purse seines	boat seines	gillnet and entangling nets	bait boats fishing for tuna
<i>Unidentified seabird</i>	8	16	4					2	