



EUROPEAN
COMMISSION

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ANNEXES 5 to 7

ANNEXES

to the

**Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE
COUNCIL**

**laying down management, conservation and control measures applicable in the Area of
Application of the Southern Indian Ocean Fisheries Agreement (SIOFA)**

ANNEX 5

List of “high risk” and “of concern” deep sea shark species

Scientific name	French common name	English common name	FAO code
<i>Centroscymnus coelolepis</i>	Pailona commun	Portuguese dogfish	CYO
<i>Deania calcea</i>	Squale savate	Birdbeak dogfish	DCA
<i>Bathyraja tunae</i>	Cristina's skate		DWG
<i>Centrophorus granulosus</i>	Requin chagrin	Gulper shark	GUP
<i>Dalatias licha</i>	Squale liche	Kitefin shark	SCK
<i>Bythaelurus bachi</i>	Requin chat de Bach	Bach's catshark	BZO
<i>Chimaera buccanigella</i>	Chimère bouche-foncée	Dark-mouth chimaera	ZZC
<i>Chimaera didierae</i>	Chimère de Didier	The Falkor chimaera	ZZD
<i>Chimaera willwatchi</i>	Chimère du marin	Seafarer's ghostshark	ZZE
<i>Centroscymnus crepidater</i>	Pailona à long nez	Longnose Velvet Dogfish	CYP
<i>Zameus squamulosus</i>	Squale-grogneur à queue échancrée	Velvet dogfish	SSQ
<i>Etmopterus alphas</i>	Requin lanterne à joues blanches	Whitecheek lanternshark	EZU
<i>Apristurus indicus</i>	Holbiche artouca	Smallbelly catshark	APD
<i>Harriotta raleighana</i>	Chimère à nez rigide	Bentnose rabbitfish	HCR
<i>Bythaelurus tenuicephalus</i>	Requin chat à tête étroite	Narrowhead catshark	BZL
<i>Chlamydoselachus anguineus</i>	Requin lézard	Frilled shark	HXC

<i>Hexanchus nakamurai</i>	Requin gris	Bigeyed six-gill shark	HXN
<i>Etmopterus pusillus</i>	Sagre nain	Smooth lanternshark	ETP
<i>Somniosus antarcticus</i>	Requin dormeur antarctique	Southern sleeper shark	RZZ
<i>Mitsukurina owstoni</i>	Requin lutin	Goblin shark	LMO
<i>Rhinochimaera africana</i>		Paddlenose chimarea	RFI
<i>Scymnodon macracanthus</i>	Pailona austral	Large velvet dogfish	YSM
<i>Etmopterus viator</i>		Blue-eye lanternshark	EZT
<i>Etmopterus bigelowi</i>		Blurred smooth lantern shark	ETB
<i>Centrophorus squamosus</i>	Squale-chagrin de l'Atlantique	Leafscale gulper shark	GUQ
<i>Centrophorus uyato</i>	Petit squale-chagrin	Little gulper shark	CPU
<i>Bythaelurus naylori</i>		Dusky Snout catshark	JBY
<i>Squalus mitsukurii</i>	Aiguillat épinette	Shortpine spurdog	QUK
<i>Deania quadrispinosa</i>	Squale-savate à long nez	Longsnout dogfish	SDQ
<i>Deania profundorum</i>	Squale-savate lutin	Arrowhead dogfish	SDU

ANNEX 6

Vessel Catch and Effort Data Standards

The following data on fishing activities shall be collected by Union demersal fishing vessels:

Data Set - Fishing activities General (Trip) Vessel flag Member State (ISO 3-alpha) Name of vessel International radio call sign (if any) Vessel Registration number (flag Member State) Lloyd's / IMO /IHS Fairplay Number (if allocated) Vessel size: Gross Tonnage (Gross register tonnage may be used if GT is not available, or both) Name of person filling in the data
Weight Conversion Factor Species Processing type Conversion factor = live weight/processed weight
Haul Information Intended Target species (FAO code) Type of fishing (C)ommercial; (R)esearch; (S)urvey data Haul ID number
Set Start date and Time (Based on Coordinated Universal Time (UTC)) Recorded at start and end of fishing For longline vessels - record at start and end of setting, in addition to start and end of haul Date format (YYYY.MON.DD) Time format (hh.mm)
Position at start and end of fishing Latitude Longitude <ul style="list-style-type: none">• For longline vessels: position is recorded at the start and end of setting• For handline fishing: record the position of the vessels at the start and at the end of the fishing operation
Bottom Depth (m)

As recorded at the start and end of fishing.
Fishing / gear depth (m) As recorded at the start and end of fishing. For trapping/potting, Actual Fishing / gear depth (m) as recorded at start is required.
Species retained An estimation of the amount of living marine resources retained by taxa, if possible, in green weight (kg). Total number retained by taxa (for longline toothfish target fishing only).
Species Discarded An estimation of the amount of living marine resources discarded by taxa, if possible, in green. weight (kg). In addition, if possible, total number discarded by taxa (for longline toothfish target fishing only).
Incidental bycatch of marine mammals, seabirds, reptiles and 'other species of concern' Presence: Yes / No For each species caught <ul style="list-style-type: none"> • Taxa name • Number alive • Number dead or injured
Incidental bycatch of VME indicator taxa Presence: Yes / No For each species caught <ul style="list-style-type: none"> • Taxa name

The following data on fishing activities shall be collected by Union pelagic fishing vessels:

Data Set – Fishing activities General (Trip) Vessel flag Member State (ISO 3-apha) Name of vessel International radio call sign (if any) Vessel Registration number (flag MS) Lloyd's / IMO / IHS Fairplay Number (if allocated) Vessel size: Gross Tonnage (Gross register tonnage may be used if GT is not available, or both) Name of person filling the data
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Weight Conversion Factor Species Processing type Conversion factor = live weight/processed weight
Haul Information Intended Target species (FAO code) Type of fishing (C)ommercial; (R)esearch; (S)urvey data Haul ID number
Set Start date and Time (Based on Coordinated Universal Time (UTC)) Recorded at start of fishing Date format (YYYY.MON.DD) Time format (hh.mm)
Position at start of fishing Latitude Longitude
Species retained Estimated catch retained on board by taxa (FAO species/group code/scientific name) in live weight (kg)
Species discarded An estimation of the amount of living marine resources discarded by taxa, if possible, in live weight (kg)
Incidental bycatch of marine mammals, seabirds, reptiles and 'other species of concern' Presence: Yes / No For each species caught - Taxa name - Number alive - Number dead or injured

The following gear-specific data on fishing activities shall be collected from Union fishing vessels:

Data Set – Gear
Demersal Longline Type of longline (Spanish, Trotline, Autoline) Total length (m)

Type of bait Hook size (mm) Hook spacing (m) Hook code or make Length of line (m) Number of hooks set Number hooks per cluster (if Trotline) Number of hooks lost (attached to lost sections of line)
Handline Number of fishermen involved Number of line lifts per fisherman Number of hooks per line
Pelagic Longline Total length (m) Total number of hooks in the set Number of hooks between floats Number of light-stick used in the set Type of bait used in the set Sea surface temperature at noon (Length of floating line) (Length of branch line) (Distance between branch lines)
Trap/Pot Pot type Type of line: Dropline or longline Length of line (m) Pot spacing (m) Number of pots set Number of pots lost Type of bait
Dahn/Drop Line/ Total number of hooks in the set Total number of line lifts in the set Number of hooks lost Hook code or make

Type of leader used
Type of bait used
<p>Squid Jigging</p> <p>Use of the fish finder (Y/N)</p> <p>Number of fishers</p> <p>Number of line machines</p> <p>Fishing duration by hand (h)</p> <p>Fishing duration by machines (h)</p> <p>Number of hooks on per line</p> <p><i>Lighting</i></p> <p>Lighting used (Y/N)</p> <p>Total Power of fish lamp (kW)</p> <p>Lamp Type (e.g. Metal Halide Lamp or LED)</p> <p>Total power of underwater lamps (kW)</p> <p>Total power of above sea level lamps (kW)</p> <p>Lighting duration (hours) on underwater lamps and above sea level lamps, respectively</p>
<p>Light seining</p> <p>Type of seining gear</p> <p>FAO Gear code: SV-boat seine (02.2), LNB-boat-operated-liftnet (05.2) and FCN cast net (06.1)</p> <p><i>Net details</i></p> <p>Length on mouth net (m)</p> <p>Width on mouth net (m)</p> <p>Cod end mesh Size (mm)</p> <p><i>Lighting</i></p> <p>Lighting used (Y/N)</p> <p>Total Power of fish lamp (kW)</p> <p>Lamp Type (e.g. Metal Halide Lamp or LED)</p> <p>Total power of underwater lamps (kW)</p> <p>Total power of above sea level lamps (kW)</p> <p>Lightning duration (hours) on underwater lamps and above sea level lamps,</p>

respectively
Trawl Cod end mesh Size (mm) Trawl technique: Type of trawl: (S)ingle, (D)ouble or (T)ripple

ANNEX 7

Observer data

1. Hierarchies for Observer Data collection

Fishing Operation Information

All vessel and tow / set / effort information.

Reporting of Catches

Record time, weight of catch sampled versus total catch or effort (e.g. number of hooks), and total numbers of each species caught.

Identification and counts of endangered, threatened or protected species (ETP), seabirds, mammals, reptiles (e.g., turtles), sensitive benthic species and vulnerable species.

Record numbers or weights of each species retained or discarded Record instances of depredation, where appropriate.

Biological Sampling

Check for presence of tags

Length-frequency data for Target species (FAO species code)

Basic biological data (sex, maturity) for Target species (FAO species code)

Length-frequency data for main by-catch species

Otoliths (and stomach samples, if being collected) for Target species (FAO species code)

Basic biological data for by-catch species

Biological samples of by-catch species (if being collected)

Take photos

2. Observer Data Sections Common to all fisheries

Data Set – Observer data
Trip Details Trip Number Cruise details (start and end dates – YYYY.MON.DD) Date report is generated (UTC) Current vessel flag CCP (ISO 3-apha) Name of vessel
Observer Details Observer name and ID Nationality (ISO 3-apha) Employing organisation Contact name in organisation (Address/email/fax)

Boarding location (UNLOCODE, if applicable or Latitude/Longitude) Boarding Date (UTC:YYYY.MON.DD) Disembarkation location (UNLOCODE, if applicable or Latitude/Longitude) Disembarkation date (UTC:YYYY.MON.DD) Time Zone (UTC +/-)
Length Frequency Data Representative and randomly sampled length-frequency data shall be collected for the target species (FAO species code). Length data shall be collected and recorded at the most precise level appropriate for the species (cm or mm and whether to the nearest unit or unit below) and the type of measurement used (total length, fork length, or standard length) shall also be recorded. Where possible, total weight of length-frequency samples should be recorded, or estimated and the method of estimation recorded. Where possible, Observers should determine and record sex of measured fish to generate length-frequency data stratified by sex. Where possible, representative and randomly sampled length-frequency data should be collected for other main by-catch species.
Biological Sampling Species Length (mm or cm) and the type of length measurement used. Skates and rays: <ul style="list-style-type: none"> • Maximum disk width shall be measured Sharks • Appropriate length measurement to be used should be selected for each species. As a default, total length should be measured. Weight (kg) Sex (male, female, immature (optional), unsexed (optional)) Maturity stage (optional) and criteria/schedule used (optional) Gonad weight (g) (optional) Otoliths

Seabird & Marine Mammals abundance observation (to be recorded for each operation and for all gears/fisheries):

Operation ID (Set ID, tow ID) At Setting or At Hauling (At setting/At hauling/Not applicable) Seabirds present in observation area? (Yes/No/Not Observed) Species Estimated numbers of abundance (by species)

<p>Operation ID (Set ID, tow ID)</p> <p>Marine Mammals present in observation area? (Yes/No/Not Observed)</p> <p>Species</p> <p>Estimated numbers of abundance (by species)</p>

Observed catch (to be recorded for each operation and for all gears/fisheries, record weight or number according to the fishery)

<p>Operation ID (Set_ID, Tow_ID)</p> <p>Observer ID</p> <p>FAO ASFIS Species code</p> <p><i>Species retained</i></p> <p>Total Number retained</p> <p>Weight retained (kg)</p> <p><i>Species discarded</i></p> <p>Total Number discarded</p> <p>Weight discarded (kg)</p> <p>Number discarded alive</p> <p>Number discarded dead</p> <p>Number or weight of fish lost (if applicable)</p> <p>Number or weight of fish cut off (if applicable)</p> <p>Number of fish depredated (if applicable)</p> <p>Comments</p>
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Incidental bycatch of ETP species (seabirds, mammals, turtles or 'other species of concern')

<p>The following data shall be collected for all seabirds, mammals, turtles, and other species of concern caught in fishing operations as much as possible:</p> <ul style="list-style-type: none"> • Species (identified taxonomically as far as possible, or accompanied by photographs if identification is difficult) and size • Estimated species abundance around fishing vessel • Species interactions with fishing gear • Count of the number of each species caught per tow or set • Fate of bycatch animal(s) (retained or released/discarded) • If released, life status (vigorous, alive, lethargic, injured, dead) upon release

- If injured, what was the cause of injury?
- If dead, then collect information or samples for onshore identification in accordance with pre-determined sampling protocols. Where this is not possible, observers may be required to collect sub-samples of identifying parts, as specified in biological sampling protocols
 - o Record the type of interaction (hook/line entanglement/warp strike/net capture/other) if other, describe
- Sex of each individual for taxa where this is feasible from external observation, e.g. pinnipeds, small cetaceans or Elasmobranchii species
- Identify any circumstances or actions that may have contributed to the bycatch event? (E.g. tori line tangle, high levels of bait loss)

Tags

Tag releases

The following data shall be reported for all tagged fish, seabird, mammal, or reptile

Tag type, wording, and colour

Tag number

Date and time of tagging

Species

Animal length

Type of length

Animal sex (F=female, M=male, I=indeterminate, D=not examined)

Position (Lat/Lon) of release

Animal status at release (injured/uninjured)

Tag Recoveries

The following data shall be collected for all recovered fish, seabird, mammal or reptile tags if the organism is dead, to be retained, or alive:

- Name of observer
- Name of vessel
- International radio call sign (if any)
- Vessel flag CCP (ISO 3-apha)
- Collect, label (with all details below) and store the actual tags for later return to the tagging agency
- Species from which tag recovered
- Tag colour
- Tag wording and type of tag (spaghetti, archival)
- Tag numbers

- Date and time of capture (UTC)
- Location of capture (Lat/Lon, to the nearest 1 minute)
- Animal length / size (cm or mm) with description of what measurement was taken (such as total length, fork length, etc.)
- Sex (F=female, M=male, I=indeterminate, D=not examined)
- Maturity stage
- Gonad weight (g)
- Tag Site Condition
- Samples retained
- Tag photo (include in cruise report)
- Whether the tags were found during a period of fishing that was being observed (Y/N)

Seabirds

Bird Bands

The following data shall be reported for all seabird bands retrieved or spotted

- Species
- Band identifier
- Date and time of observation (UTC)
- Location of observation (Lat/Lon, to the nearest 1 minute) or Operation ID
- Type of interaction (with gear, with vessel, no interaction with gear or vessel)
- Photo taken? (Yes/No)
- State (likely to survive, injured, dead)

Bird interaction with vessel and collisions (excluding fishing gear)

- Species
- Number of birds
- Date and time of observation (UTC)
- Location of observation (Lat/Lon, to the nearest 1 minute)
- Photo taken? (Yes/No) • State (likely to survive, injured, dead)
- Vessel activity (steaming, fishing, other)
- Type of interaction (collision, entanglement, bird found landed)
- Description of the interaction (including location of the bird on the vessel)
- Presence of fog (yes/no)
- Wind speed (kts) and bearing (°)
- Sea state (Beaufort)
- Description of vessel lighting at the moment of the observation

By-catch mitigation gears details

Streamer line

General Streamer Line Description

Number of streamer lines regularly set
Streamer line position (port, starboard, stern)
Streamer line length (m)
Streamer length min/max (m)
Attached height above water (m)
Distance between streamers (m)
Number of streamers
Streamer design (single or paired)
Aerial extent of line (m)
Method used to assess aerial extent
Streamer material
Streamer line diameter (mm)
Streamer colours
Streamer line over bait entry position? (y/n/u)
Distance from stern to bait entry point (m)
Towed object (Y/N)
Horizontal distance from bait entry point to streamer line (m)

Bird baffler

Other by-catch mitigation device

Trotline cetacean exclusion device
Photo taken of the mitigation gear?

3. Interactions with Vulnerable Marine Ecosystems (VME)

General information

Name of observer

Name of vessel

Date

Trip number

Set number

VME location

Start and end positions of all gear deployments and/or observations.
(Latitude/longitude)

Depth(s) fished (m)

Fishing Gear

Indicate fishing gears used at each location

VME Taxa

Presence: Yes/No

- a) Species (identified taxonomically as far as possible or accompanied by a photograph where identification is difficult).
- b) An estimate of the quantity (weight (kg) or volume (m3)) of each listed benthic species caught in the tow (and the unit of measurement).
- c) An overall estimate of the total quantity (weight (kg) or volume (m3)) of all invertebrate benthic species caught in the tow (and the unit of measurement).
- d) Where possible, provide the live or dead status for corals
- e) Where possible, and particularly for new or scarce benthic species which do not appear in ID guides, whole samples should be collected and suitably preserved for identification on shore.
- f) Collect representative biological samples from the entire VME catch. (Biological samples shall be collected and frozen when requested by the scientific authority in a Contracting Party). For some coral species that are under the CITES list photographs should be taken.

Other sessile benthos taxa

Presence: Yes/No

For each catch of taxa

Scientific names (identified to the finest taxon level possible)

FAO code (if available)

Estimation of the amount caught

4. Processing Details and Conversion Factors (CF)

Operation ID (setID, towID)

Name of observer

Species Code (FAO species code)

Processing Code

Length Type

Minimum Length (cm)

Maximum Length (cm)

Number of individuals

Total Green Weight (kg)

Weighting Method

Processed Weight (kg)

Size Grade

Quality Grade

Conversion Factor

5. **Observer data sections that are gear and fishery specific**
For trawl fishing activities ONLY

<p>Gear details</p> <p>Net ID</p> <p>Net Gear type (ISSFCV)</p> <p>Headrope length (m)</p> <p>Ground rope length (m)</p> <p>Ground rope bobbins present?</p> <p>Ground rope bobbins material (steel or rubber)</p> <p>Ground rope bobbins weight (combined)</p> <p>Bobbin diameter (cm)</p> <p>Otter board to wing length (m)</p> <p>Horizontal Opening, i.e. wingspread (m)</p> <p>Vertical Opening (m)</p> <p>Codend mesh</p> <p>Mesh size (cm),</p> <p>codend circumference (cm),</p> <p>Orientation</p> <p>Mesh type (diamond, square, etc)</p> <p>Otter board</p> <p>Type, weight (kg)</p> <p>Net design</p> <p>Net design description including make, model etc</p> <p>Selectivity device present? (Y/N)</p> <p>Selectivity device description</p> <p>Net monitoring cables present? (Y/N)</p>
<p>Trawl details</p> <p>Trawl Number</p>

Bycatch Mitigation Gear used (Y/N) Bycatch Mitigation Gear 1 ID Bycatch Mitigation Gear 2 ID Bycatch Mitigation Gear 3 ID Trawl type: Research or Commercial (R/C) Observed (Yes/No) Target Species (FAO species code) Date Start (YYYY.MON.DD) Date Finish (YYYY.MON.DD) Time net deployed (hh:mm) Time net retrieved (hh:mm)
Start and End Fishing For bottom trawl "start" is defined as when the groundrope is on the bottom, "end" is when the hauling starts. For midwater trawl "start" is defined as when the fishing gear is at target fishing depth, "end" is when the hauling starts. Time (hh:mm) Latitude Longitude Trawl Depth (m) Bottom Depth (m)
Other Offal discharged during hauling (Y/N) Trawl speed (knots) Total catch (kg) Was Haul observed for fish/invertebrate by-catch (Y/N): Record the total weight of all sub-samples for this shot (kg):
Trawl gear strike (to be monitored for 15 minutes immediately after the net has been deployed) (optional): Start observation time (hh:mm) (optional) End observation time (hh:mm) (optional) Species

<p>Nb of light strikes</p> <p>Light strikes contact place:</p> <p>Number on windward ward</p> <p>Number on leeward ward</p> <p>Number on monitoring cable</p> <p>Number on net</p> <p>Nb of heavy strikes</p> <p>Heavy strikes contact place:</p> <p>Number on windward ward</p> <p>Number on leeward ward</p> <p>Number on monitoring cable</p> <p>Number on net</p> <p>Heavy strike fate:</p> <p>Number aerial</p> <p>Number sea surface</p> <p>Number submerged</p> <p>State of the bird(s) after strike</p> <p>Number Likely to survive</p> <p>Number Injured</p> <p>Number Dead</p> <p>Number Unknown</p>
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For Longline fishing activities ONLY

<p>Longline Description</p> <p>Longline Type (ISSCFG codes)</p> <p>Period in which the gear was used (YYYY.MON.DD)</p> <p>Start and end date (YYYY.MON.DD)</p> <p>Target Species (FAO species code)</p> <p>Main Line:</p> <p>Material</p> <p>Diameter (mm)</p>

For Integrated Weight Lines (IWL):

Integrated weight (g/m)

For non-IWL:

Weight spacing (m)

Number of measured weights

Weight type

Average weight (kg)

Standard deviation (kg)

Branch Lines:

Material

Length (m)

Spacing (m)

Branchline weights (kg)

Branchline weight distance from hook (m)

Hooks

Type (e.g.: J shaped, Circular, etc.)

Manufacturer

Marking (vessel mark, leave blank for none)

Size (mm)

Shank (mm)

Gape (mm)

Usual setting position

Line off bottom (m) (optional for pelagic longline)

Hooks off bottom (m) (optional for pelagic longline)

Method of baiting (manual/automatic)

Automatic baiting equipment (make and model)

Hook sinkers

Size (g)

Position from hook (mm)

Offal dumping position (port, starboard, stern)

Longline setting position (port, starboard, stern)
Offal dumping during hauling (never, occasionally, always)
Propeller rotation direction (clockwise/anti-clockwise)
Detail the weight and distance between the line weights for the longline system used
- Single (Auto) Line (kg:m)
- Double (Spanish) Line (kg:m)
- Trotline (vertical droppers/trots attached to a mainline) (kg:m)

Daily setting observations

Set Number (as referenced in catch and effort log)
Set Type: Research or Commercial (R/C)
Bycatch Mitigation Gear used (Y/N)
Bycatch Mitigation Gear 1 ID
Bycatch Mitigation Gear 2 ID
Bycatch Mitigation Gear 3 ID

Longline Type Code (FSSCV)
Date of observation (YYYY.MON.DD)

Setting information

Vessel setting speed (knots)
Number sets unobserved since last set

Start and End setting for each haul

Date (YYYY.MON.DD)
Time (hh:mm)
Latitude
Longitude
Bottom Depth (m)
Total length of longline set (km)
Total number of hooks for the set

For each Observation

Start date (YYYY.MON.DD)
Start time (hh:mm)

End date (YYYY.MON.DD)

End time (hh:mm)

Details of Longline Setting

Main line length (m)

Number of hooks set

Number of Baskets/Magazines Set

Number of hooks per Basket/Magazine

Percentage hooks baited

Distance between branches (m)

Distance of hooks off bottom (m) (optional for pelagic longline)

Bait species (FAO species code)

Deck lights during setting (On, Off)

Streamer lines used (Yes, No)

Number of streamer lines used

Offal dumping during setting (Yes, No)

Bait entry position (Port, Starboard, Stern)

Clip on Interval (seconds)

Setting Speed (Line setter)

Daily hauling observations

Set number

Date of observation (YYYY.MON.DD)

Hauling Information

Number of hooks observed for seabird and fish by-catch (tally period)

Offal dumped during hauling (Yes / No)

Interactions with marine mammals

Data is to be collected in accordance with the protocol set out in annex E. For each haul and each species of depredating whales (killer whales *Orcinus orca* and sperm whales *Physeter macrocephalus*):

- Priority 1 data to be collected include:

1. Presence/absence data: Presence / Absence / Not observed;

2. When presence, photo-identification data: photographs of specific body parts (for killer whales: dorsal fin, saddle patch and eye patches; for sperm whales: tail flukes)

visible when whales come to the surface.

- Priority 2 data to be collected include:

1. Estimates of the number of individuals present around the vessel in the vicinity of the fishing gear.

- Priority 3 data to be collected include:

1. Information about whether or not whales interact with the gear;

2. Estimate of the time of arrival of whales in the vicinity of the gear.

Gear lost

Number of sections lost

Number of hooks lost that were attached to lost sections of the longline

Number of other hooks lost (excluding hooks attached to lost sections)

Was Haul observed for fish/invertebrate by-catch (Y/N):

Estimate percentage of the haul observed for by-catch (%)

For Trapping/Potting Fishing Activities ONLY

Gear type

Pot type (with drawing)

Mesh size (mm)

Material

Funnel position

Orientation Aperture (cm)

Number of chambers

Escape port present (y/n)

Dimensions (cm) of escape port

Weights attached?

Min Weight (kg)

Max Weight (kg)

Set and haul details

Set Number

Bycatch Mitigation Gear used (Y/N)

Bycatch Mitigation Gear 1 ID

Bycatch Mitigation Gear 2 ID

<p>Bycatch Mitigation Gear 3 ID</p> <p>Date of observation (YYYY.MON.DD)</p> <p>Set Type: Research or Commercial (R/C)</p> <p>Target species (FAO species code)</p> <p>Offal dumped during setting (Yes / No)</p> <p>Offal dumped during hauling (Yes / No)</p> <p>Start and End setting. Repeat for hauling</p> <p>Date (YYYY.MON.DD)</p> <p>Time (:mm)</p> <p>Latitude</p> <p>Longitude</p> <p>Bottom depth (m)</p> <p>Gear Details</p> <p>Length of line (m)</p> <p>Type of line</p> <p>Pot spacing (m)</p> <p>Bait type</p> <p>Setting</p> <p>Number of pots set</p> <p>Number of pots observed</p> <p>Hauling</p> <p>number of pots hauled</p> <p>number of pots observed</p> <p>Was Haul observed for fish/invertebrate by-catch (Y/N):</p> <p>Estimate percentage of the haul observed for by-catch (%):</p>

For Dahn/Drop lining activity ONLY

<p>Dahn/Dropline Description</p> <p>Line Type</p>
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Period in which the gear was used (Start and end date)

Target species (FAO species code)

Main Line

Material

Diameter (mm)

Integrated weight (g/m)

Hooks

Type (e.g.: J shaped, Circular, etc.)

Manufacturer

Marking (leave blank for none)

Model name

Size (mm)

Shank (mm)

Gape (mm)

Usual setting position

Line off bottom (m)

Hooks off bottom (m)

Method of baiting (manual/automatic)

Automatic baiting equipment (make and model)

Offal

Offal dumping position (port, starboard, stern)

Offal dumping during hauling (never, occasionally, always)

Propeller rotation direction (clockwise/anti-clockwise)

Details of Dahn/Dropline Setting

Bycatch Mitigation Gear used (Y/N)

Bycatch Mitigation Gear 1 ID

Bycatch Mitigation Gear 2 ID

Bycatch Mitigation Gear 3 ID

Main line length (m)

Number of hooks set

Percentage hooks baited
Distance between branches/snoods (m)
Distance of hooks off bottom (m)
Bait species
Bait size
Bait proportion
Deck lights during setting (On, Off)
Streamer lines used (Yes, No)
Number of streamer lines used Offal dumping during setting (Yes, No)
Daylight period
Moonlight
Bait entry position (Port, Starboard, Stern)
Vessel setting speed (knots)
Start and End setting. Repeat for Start and End of hauling
Date (YYYY.MON.DD)
Time (hh:mm)
Latitude
Longitude
Bottom Depth (m)
Gear lost
Number of sections lost
Number of hooks lost that were attached to lost sections of the dahn/dropline
Number of other hooks lost (excluding hooks attached to lost sections)
Was Haul observed for fish/invertebrate by-catch (Y/N):
Estimate percentage of the haul observed for by-catch (%):

For Handline fishing activity ONLY

Handline Description
Main Line
Material
Diameter (mm)

Hooks

Type (e.g.: J shaped, Circular, etc.)

Manufacturer

Marking (leave blank for none)

Model name

Size (mm)

Shank (mm)

Gape (mm)

Usual setting position

Line off bottom (m)

Hooks off bottom (m)

Offal

Offal dumping position (port, starboard, stern)

Offal dumping during hauling (never, occasionally, always)

Propeller rotation direction (clockwise/anti-clockwise)

Details of Handline Operation

Target species (FAO species code)

Operation type: Research or Commercial (R/C)

Bycatch Mitigation Gear 1 ID

Bycatch Mitigation Gear 2 ID

Bycatch Mitigation Gear 3 ID

Number of fishers operating handlines

Number of line lifts per fisherman (average)

Number of hooks per line

Percentage hooks baited

Bait species

Bait size

Bait proportion

Deck lights during setting (On, Off)

Start and End time of operation

(An operation is a defined period of fishing between start and end date)

Date (YYYY.MON.DD)

Time (hh:mm)

Time Start (YYYY.MON.DD hh:mm)

Time Finish (YYYY.MON.DD hh:mm)

Operation Latitude

Operation Longitude

Bottom Depth (m)

Gear lost

Number of hooks lost

Was Haul observed for fish/invertebrate by-catch (Y/N):

Estimate percentage of the haul observed for by-catch (%):

For Squid Jigging operation ONLY

Squid Jigging (operation) Number

Observed (Yes/No)

Target Species (FAO species code)

Time Start (YYYY.MON.DD hh:mm)

Time Finish (YYYY.MON.DD hh:mm)

Latitude of operation

Longitude of operation

Number of fishers

Number of jigging machines

Fishing duration by hand (h)

Fishing duration by machine (h)

Lighting

Fish lamp used during fishing (Y/N)

Total Power of fish lamp (kW)

Lamp Type (e.g. Metal Halide Lamp or LED)

Total power of underwater lamps (kW)

Total power of above sea level lamps (kW)

Lighting duration (hours) on underwater lamps and above sea level lamps,

respectively

Sea Surface Temperature (°C) (where possible)

Was fishing observed for fish/invertebrate bycatch (Y/N):

Estimated percentage of the operation observed for fish/invertebrate bycatch (%)

For Light seining activity ONLY

Type of seining gear

FAO Gear code: SV-boat seine (02.2), LNB-boat-operated-liftnet (05.2) and FCN cast net (06.1)

Target species (FAO species code)

Observed (Yes/No)

Lighting

Lighting used during fishing (Y/N)

Total Power of fish lamp (kW)

Lamp Type (e.g. Metal Halide Lamp or LED)

Total power of underwater lamps (kW)

Total power of above sea level lamps (kW)

Lighting duration (hours) on underwater lamps and above sea level lamps, respectively

Time Start fishing (YYYY.MON.DD hh:mm)

Time End fishing (YYYY.MON.DD hh:mm)

Latitude Start fishing

Longitude Start fishing

Lighting used during fishing (Y/N)

Maximum submergence depth of the net (m)

Was Haul observed for fish/invertebrate bycatch (Y/N)

Estimated percentage of the operation observed for fish/inverts bycatch (%)