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Sociedade Portuguesa
para o Estudo das Aves



User Guide for the App to Enter Fishing Vessel Data

Lisbon, March, 2020

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This user guide is an essential tool for technicians and volunteers to be able to use the available applications autonomously and consult it in case of doubt.



CyberTracker



Mission

Work for the study and conservation of birds and their habitats, promoting a development that ensures the viability of the natural heritage for the enjoyment of future generations.

SPEA – Portuguese Society for the Study of Birds is an Environmental Non-Governmental Organization that works for the conservation of birds and their habitats in Portugal. As a non-profit association, it depends on the support of its members and various entities to carry out its actions. It is part of a worldwide network of environmental organizations, *BirdLife International*, which operates in 120 countries and aims to preserve biological diversity through the conservation of birds, their habitats and the promotion of the sustainable use of natural resources.

SPEA was recognized as a public benefit entity in 2012.

www.spea.pt

www.facebook.com/spea.Birdlife



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User Guide of the App for Entering Fishing Vessel Data Portuguese Society for the Study of Birds, 2020

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Photographs: Nuno Oliveira



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SUMMARY

The user guide for data entry applications is an essential tool for technicians to learn how to handle the various applications available and consult it in case of doubt without being dependent on others. There are several activities that SPEA technicians perform and data entry applications facilitate data collection. The applications available are related to commercial fishing vessels, marine census with ESAS (European Seabirds At Sea) methodology and also with RAM (Rede de observação de Aves e Mamíferos marinhos) counts.

1. COMMERCIAL FISHING VESSELS – FISHING OBSERVERS

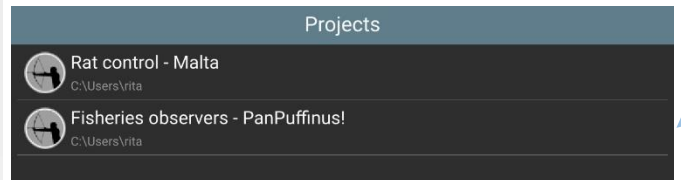
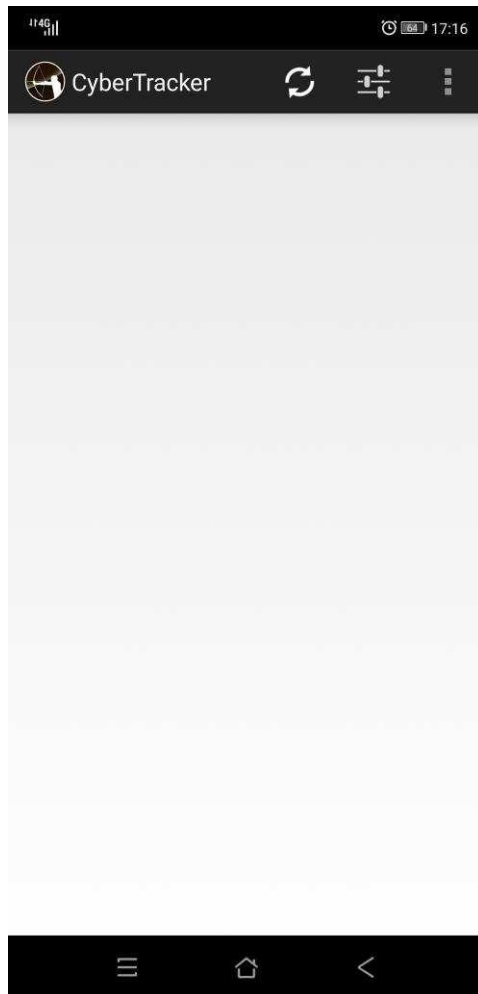
This application is used for data entry relating to commercial fishing vessels. On-board fisheries observers collect a wide variety of data and it is crucial that the report is as complete as possible. During the boarding of the vessel, data are recorded regarding the social and economic characterization of the crew members, the technical characterization of the vessel, meteorological characterization on the day of boarding, interaction of the birds with the fishing gear, characterization of fishing events, the gear to be operated and all the catches made.

2. APP INSTALLATION

1. If you already have the *CyberTracker* app installed, go directly to point 4;
2. On your Android device, in the *Security* settings, enable the "*unknown source*" option;
3. Open the browser for internet access on your Android device, and download the *Cybertracker* App using the link <http://bit.ly/CT-SPEA>;



4. After installing the App, open it on your mobile device, using the icon *CyberTracker* ;
5. Click on the icon with the 3 dots or on the triangle on the top bar, as shown in the figure and select *Install from web*;



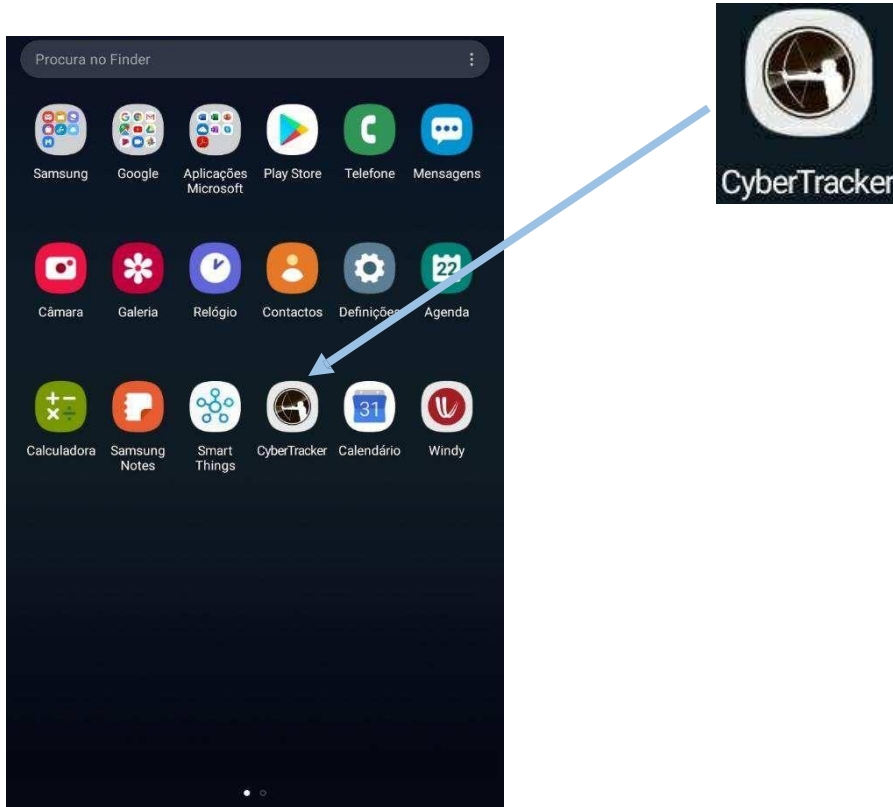
6. Type the following address <http://bit.ly/2GilCDL>, and select *OK*;
7. The *Fisheriers observers – PanPuffinus!* option should appear in the list of applications in your *CyberTracker* App.

3. DATA INPUT – GENERAL PROCEDURE

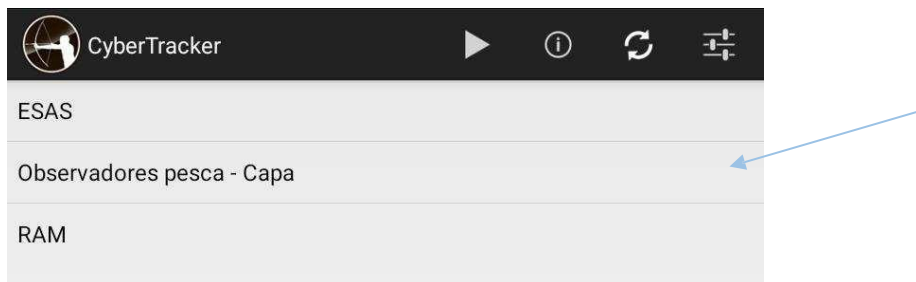
1. **Vessel departs from the fishing harbour:**
 - a. **Harbour Exit** – As soon as the vessel leaves the harbour, this information must be filled in;
 - b. **Effort** – Fill in this information after inserting the previous one;
 - c. **Interaction** – Fill in this information as soon as you leave the harbour in case it occurs during the daytime;
2. **Navigation:**
 - a. **Effort** – Fill in this information whenever there is a change in the weather or in the characterization of the effort;
 - b. **Interaction / New Interaction** – Fill in this information following the frequency stipulated in the methodology and during the daytime;
3. **Fishing Event:**
 - a. **Effort** – Should be the first information to be entered as soon as the fishing event starts;
 - b. **Event / Start Event** – Fill in according to the methodology;
 - c. **Interaction** – Fill in this information following the frequency stipulated in the methodology and during the daytime;
 - d. **Dive** – Fill in this information following the frequency stipulated in the methodology and during the daytime (applied only to longlines);
 - e. **New catch** – If it applies and any capture occurs, it must be inserted in this section;
 - f. **End Event** – Register as soon as the fishing event is over;
 - g. **Back to TRIP COVER**;
 - h. **Interaction** - Fill in this information after registering the end of the event, as long as it occurs during the daytime;
4. **Weighing the fish:**
 - a. **Fish Weighing / Insert Fishing Event** – Fill in this information at any time during boarding, as long as it is on the same day as the fishing event;
 - b. **New fish** – Insert individually by species and size. The fish entered must correspond to the event inserted in the previous point. Go back to the previous point to insert a new event before inserting the fish corresponding to the new event;
 - c. **Back to TRIP COVER**;
5. **Stopping of observation effort:**
 - a. **End of effort** – If for some reason the observation effort has to be stopped.
 - b. **Effort** – Reopen the effort when you return to observation;
6. **Vessel returns to fishing harbour:**
 - a. **End of effort** – Record the end of the observation effort;
 - b. **Harbour entrance**– As soon as the vessel enters the harbour, this information must be filled in;
 - c. **Equal distribution of fish** – This information can be added throughout the trip or at the end;
 - d. **Training courses of the crew**– This information can be added during boarding or at the end;
 - e. **Spills and other pollutants** – This information can be added throughout the trip or at the end;
7. **Landings:**
 - a. Data on fish landed at auction may be entered on a day after the day of shipment.
8. **Data submission** – It must be done daily at the end of each day.

4. DATA INPUT – STEP BY STEP

1. Enable the location function of the mobile device
2. Open the "CyberTracker" App on the mobile device;



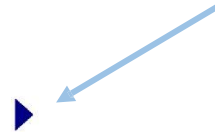
3. Select the Fisheriers observers – PanPuffinus! Project;



4. Start data entry by selecting the blue triangle;




Fisheries observations
Application to enter data
v2022.4 2022-04-18
by nuno.oliveira@spea.pt
translated and adapted rita.matos@birdlifemalta.org









4.1. Harbour Exit Log

1. Start filling in the forms from the **Harbour exit section**. Data entry must begin as soon as the vessel prepares to leave the fishing harbour;

TRIP COVER
Harbour exit
Harbour entrance
Effort
Fishing event
Fish weighing
Interaction
Dive
End of effort
Equal distribution of fish between crew
Training courses of the crew
Spills and other pollutants
Landings



- a) **ID Observers:** identification of the observer (first and last name). If the name does not appear in the predefined list, select the option **Other observer(s)**:
 - i) If the Other observer(s) **option is selected**, select the "tap to edit" option;
 - ii) Write the required information;
 - iii) Select "Ok" and proceed to .
- b) **Vessel name:** Identify the name of the vessel. If the name is not in the predefined list, select the **Other vessel**" option (*).
 - i) If the Other vessel **option is selected**, select the "tap to edit" option;
 - ii) Write the required information;
 - iii) Select "Ok" and proceed to .
- c) **Captain name:** Identify the name of the captain of the vessel. If the name does not appear in the predefined list, choose the **Other captain option. (*)**
 - i) If the Other captain **option is selected**, select the "tap to edit" option;
 - ii) Write the required information;
 - iii) Select "Ok" and proceed to .
- d) **Registration number:** add the registration number of the vessel. If the registration number is not in the predefined list, select the **Other registration number** option (*).
 - i) If the Other registration number **option is selected**, select the "tap to edit" option;
 - ii) Write the required information;
 - iii) Select "Ok" and proceed to .
- e) **Fishing gear type:** select the fishing gear that the vessel will operate. If you operate more than one gear, select the "Other type of gear" option; select the "tap to edit" option and write the required information;

- f) **Harbour exit:** Identify the Harbour where the vessel exit. If the name of the harbour is not included in the predefined list, select the **Other harbour option**;
- i) If the Other harbour **option is selected**, select the "*tap to edit*" option;
 - ii) Write the required information;
 - iii) Select "Ok" and proceed to ;
- g) **TRIP COVER Notes:** to add any relevant information that is not in the other fields.
- i) Select the "*tap to edit*" option;
 - ii) Write the required information;
 - iii) Select "Ok";
 - iv) Save the log by clicking on the  icon;
 - v) Wait for the GPS location to be acquired and recorded. Do not interrupt this process.

(* For BirdLife Malta, **Vessel name, Captain name, Registration number** hold only the "*tap to edit*" option. As so, select the "*tap to edit*" option and write the required information. Proceed as previous instructed.

4.2. Observation Effort Log


1. Move on to the input of the **Effort section**. This field should be filled in whenever the activity of the vessel changes (e.g. start of navigation, start of fishing event, at the end of the fishing event, rest stop, etc.) or every 30 minutes.
 - a. **Observer position**: select the observer's position on the vessel.
 - b. **Douglas**: Select the swell amplitude value. Please refer to the following website to confirm the values: <https://www.windguru.cz>
 - c. **Beaufort**: select the values relative to wind and wave strength. Refer to the following table if necessary:
 - d.

Beaufort Scale

Force	Knots	MPH	K/Hr	Wave Ht	Descr	Effects on Water
0	<1	<1	<1	0 Ft 0m	Calm	Flat
1	1-3	1-4	1-5	0-1 Ft 0-.2m	Light air	Ripples without crests
2	4-6	4-7	6-11	1-2 Ft .2-.5m	Light Breeze	Small wavelets; Crests of glassy appearance
3	7-10	8-12	12-19	2-4 Ft .5-1m	Gentle Breeze	Large wavelets, crests begin to break, scattered whitecaps
4	11-16	13-17	20-28	4-6 Ft 1-2m	Moderate Breeze	Waves 1-4 ft. becoming longer, numerous whitecaps
5	17-21	18-24	29-38	6-9 Ft 2-3m	Fresh Breeze	Moderate waves taking longer form, many whitecaps, some spray
6	22-27	25-30	39-49	8-13 Ft 3-4m	Strong Breeze	Larger waves, whitecaps common, more spray
7	28-33	31-38	50-61	13-19 Ft 4-6m	Moderate Gale	Sea heaps up, white foam streaks off breakers
8	34-40	39-46	62-74	18-25 Ft 5-8m	Gale	Moderately high waves of greater length, edges of crests begin to break into spindrift, foam blown in streaks
9	41-47	47-54	75-88	23-32 Ft 7-10m	Strong Gale	High waves, sea begins to roll, dense streaks of foam, spray may reduce visibility
10	48-55	55-63	89-102	29-42 Ft 9-12m	Storm	Very high waves with overhanging crests, sea white with densely blown foam, heavy rolling
11	56-63	64-73	103-117	37-52 Ft 12-16m	Violent Storm	Exceptionally high, foam patches cover sea, visibility more reduced
12	>63	>73	>117	>46 Ft >14m	Hurricane	Air filled with foam, sea completely white with driving spray, visibility greatly reduced

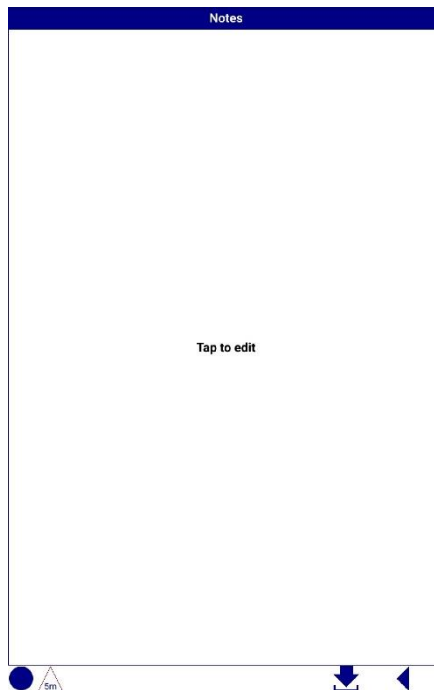
Figure. Beaufort scale. Font: <https://shorturl.at/fBHM7>


- e. **Wind direction**: indicate the direction of the wind. Please refer to the following website to confirm the direction: <https://www.windguru.cz>
https://pescarias.files.wordpress.com/2010/06/esc_beaufort-11.jpg
- f. **Visibility**: select the margin of visibility you have.
- g. **Air Temperature**: Indicate the ambient temperature. Check the following website to check the temperature: <https://www.windguru.cz>. This website indicates the ambient temperature every 3 hours.
- h. **Cloudy**: Indicate the range in percentage of cloudiness.
- i. **Meteorology**: indicate the weather conditions you are in.
- j. **Glare - right and left**: indicate the intensity of the glare. Glare is the intensity of the glare due to solar radiation that "mirrors" in the water. This can be different for each side of the vessel according to its position in relation to the sun.
- k. **Field of vision**: Indicate the observer's field of view. This varies depending on the position of the observer on the vessel (e.g. inside the cabin you will have a smaller field of vision compared to an outside seat).
- l. **Fishing vessels**: indicate the number of fishing vessels that are visible.

- m. **Cargo ships:** indicate the number of cargo ships (e.g. maritime-touristic ships) that are visible.
- n. **Recreation vessels:** indicate the number of recreation vessels (e.g. sailboats) that are visible.
- o. **Fishing operation:** indicate the operation you are performing at the moment, i.e. what type of activity you are doing at the time of registration (e.g. navigation or setting fishing gear);
- p. Save the log by clicking the icon .


4.3. Interaction Log

1. Input of the **Interaction section**: in this section, seabird species that interact with the vessel/gear are recorded every 15 minutes, or until there is a change in the activity of the vessel. Interactions should only be recorded during the daytime. Interactions with cetaceans and other groups of animals should also be recorded.
 - a) Click **New Interaction** to start recording a new interaction.
 - b) **Species**: indicate the species that is interacting with the vessel. If no species is observed, record **0** and go directly to point h). If the species name is not on the pre-existing list, add **Other species**.
 - i) If the Other species **option is selected**, select the "tap to edit" option;
 - ii) Write the required information;
 - iii) Select "Ok";
 - c) **Number**: indicate the number of individuals of the same species, with the same behaviour and with the same distance from the vessel.
 - d) **Age**: if possible, indicate the age of the birds. If unknown, select the NA option.
 - e) **Distance**: indicate the distance of the bird from the vessel.
 - f) **Behavior**: indicate the behavior that the bird exhibits.
 - g) **Notes**: any relevant information to add;



- h) Save the log by clicking the icon .

4.4. Dive Log

1. Fill in the **Dive section**. In this section, the seabirds that dive in/near the fishing gear are recorded.
 - a) Click **New Dive** to start logging a new dive.
 - b) **Species**: indicate the species that immerses itself in the gear. If no species is observed, record **0** and go directly to point g). If the species name is not on the pre-existing list, add **Other species**.
 - i) If the Other species **option is selected**, select the "*tap to edit*" option;
 - ii) Write the required information;
 - iii) Select "Ok";
 - c) **Number**: indicate the number of individuals of the same species and at the same distance that immerse themselves in the gear.
 - d) **Age**: if possible, indicate the age of the birds. If unknown, select the N option.
 - e) **Dive distance**: indicate the distance at which the birds dive into the gear in relation to the vessel.
 - f) **Notes**: Any relevant information to add.
 - g) Save the log by clicking the icon .

4.5. Start of Fishing Event Log

1. As soon as a fishing event starts, you should register a new entry in the **Effort** field (as described in section 2.2) and then enter the **Fishing Event field**. This field should be accessed every time a fishing event starts.


Fishing Event	
Start Event	
New catch	
End Event	
Back to TRIP COVER	




2. Select **Start Event** to record the information of the start of the fishing event.
 - a. **Gear Depth (m)**: Indicate the approximate gear depth in meters. This information should be asked to the captain of the vessel, since only he knows the depth that the gear reaches. The "fathom" unit is often used on sonars (1 fathom = 1.8 meters).
 - b. **Bottom depth (m)**: indicate the approximate depth of the bottom in meters. This information can be consulted on the vessel's sonar or questioned to the captain.
 - c. **Type of ballast**: Indicate the type of ballast that is used to anchor the gear.
 - d. **Type of floats**: Indicate the type of float that is used to surface/float the gear.
 - e. **Gear time on the water (minutes)**: Indicate the time in minutes that the gear has been in the water.
 - f. **Mitigation**: indicate the mitigation measure (measures used to reduce the risk of bird bycatch) being tested. If this is not the case, select the "other" option.
 - g. **Control/Experimental**: indicate whether the fishing event is the event without mitigation measure (control) or with the test measure (experimental). If measurements are not being used, select the "NA" option.
 - h. **Type of activity**: indicate the type of activity of the event (for example, if they are collecting gear from the sea, it is a haul).
 - i. **Type of event**: Indicate the fishing gear being used in the respective event.

The following questions will be specific to each gear. Therefore, if we select the gillnets, questions will arise about the mesh size (for example). On the other hand, if it is a longline event, questions about hooks will arise. Most of the information requested is quite technical and should be questioned to the captain of the vessel.


For **gillnets** (1 surface gillnet; 1 bottom gillnet; 2 combined gillnets and trammel nets):

- j. **Mesh size (mm)**: indicate the mesh size class in mm of the nets concerned.
- k. **Net color**: Indicate the color of the net.
- l. **Mono/multi filament**: indicate whether the net consists of mono or multi filaments.
- m. **Line thickness (mm)**: Indicate the thickness of the line in mm used in nets.
- n. **Net height (cm)**: indicate the height of the net in cm.
- o. **Net length (m)**: indicate the length of the nets in meters.
- p. **Number of nets/traps**: indicate the number of nets that constitute the gear.
- q. **Main line length**: indicate the total length of the cable of the entire net set.
- r. **Notes**: Any relevant information to add.
- s. Save the log by clicking the icon .



For **Pots**:

- t. **Number of traps:** indicate the number of traps in question.
- u. **Main line length:** indicate the total length of the cable with the entire set of traps.
- v. **Notes:** Any relevant information to add.
- w. Save the log by clicking the icon .



For **Bottom/Midwater trawler:**

- x. **Net height (cm):** indicate the height of the net in cm.
- y. **Net length (m):** indicate the length of the nets in meters.
- z. **Number of nets:** Indicate the number of nets. Generally, it's just one.
- aa. **Notes:** Any relevant information to add.
- bb. Save the log by clicking the icon .


For **Rods:**

- cc. **Number of rods:** indicate the number of rods used.
- dd. **Number of hooks:** indicate the number of hooks used relative to the entire set of hooks (bucket).
- ee. **Hook size:** Indicate the size of the hook.
- ff. **Bait:** indicate the type of bait used on the hooks.
- gg. **Main line length (m):** Skip this field by clicking .
- hh. **Notes:** Any relevant information to add.
- ii. Save the log by clicking the icon .

For **Purse seine:**

- jj. **Net height (cm):** indicate the height of the net in cm.
- kk. **Net length (m):** indicate the length of the nets in meters.
- ll. **Number of nets:** Indicate the number of nets. Generally, it's just one.
- mm. **Main line length (m):** Skip this field by clicking .
- nn. **Notes:** Any relevant information to add.
- oo. Save the log by clicking the icon .

For **longlines (bottom, surface or drifting):**

- pp. **Branchline length:** indicate the length of the lines in cm. The lines are the lines where the hooks are "tied" which are then connected to the main line.
- qq. **Distance between branchlines:** indicate the distance between lines, i.e. between hooks.
- rr. **Number of hooks:** indicate the number of hooks used relative to the entire set of hooks (bucket).
- ss. **Hook size:** Indicate the size of the hook.
- tt. **Bait:** indicate the type of bait used on the hooks.
- uu. **Main line length (m):** indicate the total length in meters of the set.
- vv. **Notes:** Any relevant information to add.
- ww. Save the log by clicking the icon .



4.6. New catch registration

1. **New catch** – Catches of fish, seabirds, marine mammals and litter are recorded on this form.



Fishing Event
Start Event
New catch
End Event
Back to TRIP COVER



2. Regarding **Birds/Marine Mammals**



- a. **Species:** Indicate the species of the animal that was captured. If the species name is not listed, select the **Other species option**.
 - i. If the Other species **option is selected**, select the "tap to edit" option;
 - ii. Write the required information;
 - iii. Select "Ok" and proceed to .
- b. **Type:** indicate what circumstances the animal is in relation to the gear.
- c. **Net position:** indicate in which area of the net the animal was caught.
- d. **Age:** if possible, indicate the age of the animal. This option is possible for the group of seagulls and gannets in the case of birds. If unknown, select the "NA" option.
- e. **Alive/Dead:** Indicate whether the animal is dead or alive.
- f. **End:** Indicate what happened to the animal after it was captured (e.g. kept on board if it is alive to send to a rehabilitation centre).
- g. **Length:** select the "NA" option (Not applicable).
- h. **Quantity (no.):** indicate the number of individuals captured.
- i. **Notes:** Any relevant information to add.
- j. Save the log by clicking the icon .

3. Regarding **Crustaceans/Molluscs/Fish**

- a. **Species:** Indicate the species of crustacean caught. If the species name is not listed, select the **Other species option**.
 - i. If the Other species **option is selected**, select the "tap to edit" option;
 - ii. Write the required information;
 - iii. Select "Ok" and proceed to .
- b. **Alive/Dead:** Indicate whether the animal is alive or dead.
- c. **End:** Indicate the end of the animal (e.g. sold or rejected).
- d. **Reason:** Indicate the reason for the purpose attributed to the animal (e.g. if it was rejected, it may have been because it had a low commercial value).
- e. **Length:** if necessary, measure individuals (for e.g. for economic impact studies).
- f. **Quantity:** indicate the number of individuals of the same species caught.
- g. **Weight:** if necessary, weigh the individuals (for economic impact studies for example).
- h. **Notes:** Any relevant information to add.
- i. Save the log by clicking the icon .



4. Regarding **Rubbish**

- a. **Species:** Indicate the type of rubbish captured. If the species name is not listed, select the **Other species option**.
 - i. If the Other species **option is selected**, select the "tap to edit" option;

- ii. Write the required information;
- iii. Select "Ok" and proceed to ;
- b. **End:** Indicate the end of the captured rubbish.
- c. **Length:** indicate the approximate size in cm of the captured rubbish.
- d. **Quantity (no.):** indicate the number of pieces of the same type of rubbish captured.
- e. **Notes:** Any relevant information to add. Save the log by clicking the icon .

5. Regarding **Others**


This section is intended for other captured organisms such as corals, sea slugs, etc.

- a. **Species:** Indicate the species caught. If the species name is not listed, select the **Other species option**.
 - i. If the Other species **option is selected**, select the "tap to edit" option;
 - ii. Write the required information;
 - iii. Select "Ok" and proceed to .
- b. **Alive/Dead:** Indicate whether the animal is alive or dead.
- c. **End:** Indicate the end of the animal (e.g. sold or rejected).
- d. **Length:** indicate the approximate size of the organism.
- e. **Reason:** Indicate the reason for the purpose attributed to the animal (e.g. if it was rejected, it may have been because it had a low commercial value).
- f. **Length:** if necessary, measure individuals (for e.g. for economic impact studies).
- g. **Quantity:** indicate the number of individuals of the same species caught.
- h. **Weight:** if necessary, weigh the individuals (for economic impact studies for example).
- i. **Notes:** Any relevant information to add.
- j. Save the log by clicking the icon .

4.7. End of Fishing Event Log


1. End Event: Register the end of the fishing event

Fishing Event
Start Event
New catch
End Event
Back to TRIP COVER

- a. **All catches have been registered?** At the end of the fishing event, all you have to do is register whether or not you have identified all the catches and save.
- b. Save the log by clicking the icon .

4.8. Fish Weighing Log

Input of the **Fish weighing section**. This section is intended for the measurement of fish if precise measurements are required for economic impact studies, for example:

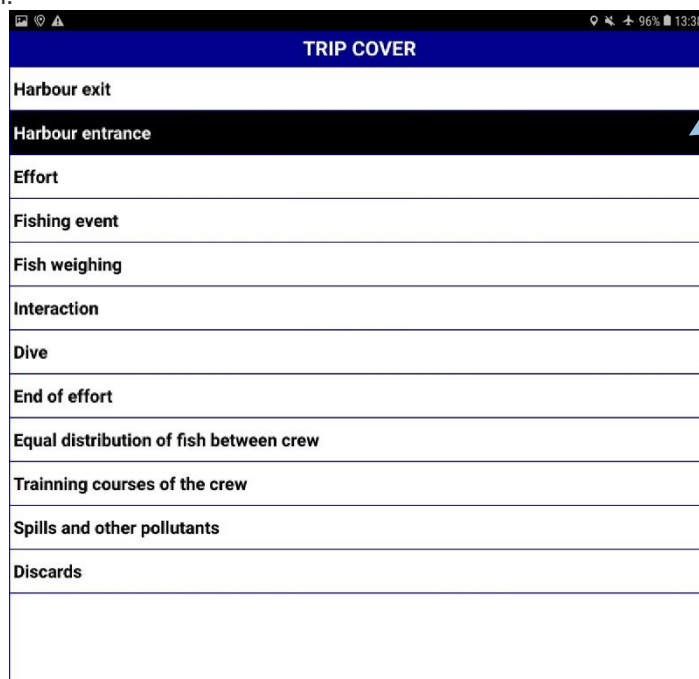
1. **Insert Fishing Event**
 - a. **No. fishing event**: indicate which event corresponds to the species that is to be measured.
 - b. **Control/Experimental**: indicate whether the specimen to be measured is part of the control gear (without mitigation measure) or the experimental gear (with mitigation measure).
2. **New fish**
 - a. **Fish**: indicate the species that will be weighed.
 - b. **Weight**: Indicate the respective weight in kilograms.
 - c. **Notes**: Any relevant information to add.
 - d. Save the log by clicking the icon .
3. Register a new event (**Insert Event**) to insert the fish for a different event than the previous one.
4. After you have finished entering the fish weighing, choose **Back to TRIP COVER**.

4.9. End-of-Effort Log

1. Select **End of effort** if for some reason the observation effort needs to be interrupted or at the end of the trip before registering **Harbour entrance**.
 - a. **Notes**: Any relevant information to add.
 - b. Save the log by clicking the icon .


4.10. Harbour entrance Log

1. Input of the **Harbour entrance section**. This section must be completed on return to the fishing harbour. Some information is quite technical and should be questioned to the captain of the vessel.




TRIP COVER
Harbour exit
Harbour entrance
Effort
Fishing event
Fish weighing
Interaction
Dive
End of effort
Equal distribution of fish between crew
Training courses of the crew
Spills and other pollutants
Discards


- a. **Harbour entrance**: indicate the fishing harbour of arrival.
- b. **Vessel Length**: indicate the length of the vessel.
- c. **Vessel Year**: indicate the year of manufacture of the vessel.
- d. **Crew number**: indicate the number of crew members on board the vessel.
- e. **Observation point height**: the height at which the observer is in relation to the fishing gear.
- f. **GPS Vessel**: indicate whether or not the vessel has GPS.
- g. **Sonar**: indicate whether or not the vessel has a sonar.
- h. **Engine power (hp)**: indicate the engine power of the vessel.
- i. **Engine consumption (lt/h)**: indicate the approximate fuel consumption of the vessel in litres per hour.
- j. **Fuel**: indicate the type of fuel the vessel uses.
- k. **Number of life jackets**: indicate the number of life jackets available on the vessel.
- l. **Number of lifebuoys**: indicate the number of lifebuoys available on the vessel.
- m. **Safety boat capacity**: indicate the maximum number of people the ferry can accommodate.
- n. **Logbook**: indicate whether or not the vessel has a logbook.
- o. **Blue box**: indicate whether or not the vessel has a blue box. If so, if it's usually on. Vessels larger than 15m are required to have the blue box on at all times.
- p. **First Aid kit on board**: indicate if there is an First Aid kit on board.
- q. **UDHR**: This section refers to the behaviour of crew members on the vessel. Whether or not there are problems between them of aggression, for example.

- r. **Animosity**: indicate whether there is animosity between crew members, for example.
- s. **Equitable distribution of fish**: indicate whether or not the fish they are entitled to take home is distributed equally.
- t. **No. gear lost**: Indicate the number of gear items that were lost during the trip.
- u. **Recovered gear**: indicate how many items were recovered from those that had been lost during the trip.
- v. **No. ghost gear recovered**: indicate the number of abandoned items that were collected during the trip.
- w. **Water used (lt)**: indicate the approximate amount of water that is used during boarding (e.g. when washing the boat and the fish).
- x. **Stowage**: indicate how the fish is packaged.
- y. **Stowage dimension (lt)**: indicate the size of the place where the fish is stored in litres.
- z. **Dump container**: indicate whether or not there is a waste container on board.
 - aa. **Container size (lt)**: if there is a waste container, indicate its size.
 - bb. **Separation**: indicate whether or not they separate the waste.
 - cc. **Waste dump site**: indicate the dump site for the waste on land.
 - dd. **Day of entry in the harbour differ from day of departure**: indicate whether or not the day of entry is different from the day of departure from the harbour.
 - ee. **Notes**: Any relevant information to add.
 - ff. Save the log by clicking the icon .


4.11. Equal Distribution Log

1. Information about the **Distribution of the fish between crew** can be added throughout the trip or at the end. In this section, the percentage of profits that each fisherman receives taking into account his role on the vessel is recorded. This information is questioned to the captain of the vessel. Register one entry for each crew member.
 - a. **Role of the fisherman**: indicate the role that the fisherman performs on the vessel.
 - b. **Share (%)**: indicate the percentage of profits to which each fisherman is entitled.
 - c. Save the log by clicking the icon .



4.12. Fishermen Training Log

1. Information about the **training courses of fishermen** can be added during the trip or at the end. In this section, the training that each fisherman has is indicated. Register one entry for each type of training.
 - a. **Training**: select the course that the crew member has.
 - b. **Crew number**: indicate the number of crew members with the same formation.
 - c. Save the log by clicking the icon .

4.13. Spill and Other Pollutant Registry

1. Information about **spills and other pollutants** may be added during the trip or at the end. In this section, pollutants released into the sea by the vessel's crew are added. Register one entry for each type of spill.
 - a. **Type of pollutants**: indicate the type of pollutant that the crew member has released into the sea.
 - b. **Number of times released**: indicate the number of times the same pollutant has been released into the sea.
 - c. **Dimension**: indicate an approximate size in cm of the pollutant released into the sea.
 - d. Save the log by clicking the icon .

4.14. Landing Log

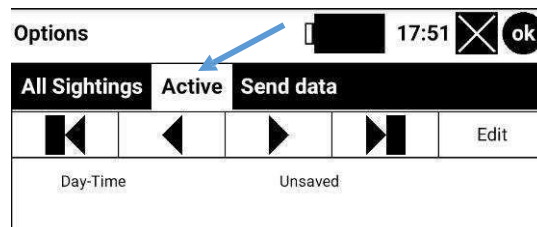
1. Information about **Landings** can be entered one day after the shipment. In this section, the species of fish sold at auction (quantity and price, species by species) are introduced. This section can only be completed once you have access to the sales sheet, which is only available the day after the fish is sold at auction. To collect the sales sheet, it is necessary to have the authorization of the captain of the vessel.
 - a. **Harbour entrance:** select the fishing harbour where the fish was sold.
 - b. **Landing Vessel:** indicate the name of the vessel concerned. If the name does not appear in the pre-existing list, choose **Other boat**. (*)
 - i. If the Other boat **option is selected**, select the "*tap to edit*" option;
 - ii. Write the required information;
 - iii. Select "Ok" and proceed to .
 - c. **Date of entrance:** indicate the date of entrance of the vessel into the fishing harbour, for the landing.
 - d. **Landing species:** indicate the species that have been unloaded at auction.
 - e. **Weight (kg):** indicate the weight of each species sold at auction.
 - f. **Commercial value:** indicate the price per kilogram of each species landed at auction.
 - g. **Class:** indicate the class of each species unloaded at auction. The class is assigned taking into account the size and freshness of the specimens. Some species may not have it (e.g. octopus, shellfish, red mullet, sea bream, etc.)
 - h. **Notes:** Any relevant information to add.
 - i. Save the log by clicking the icon .

5. DATA CORRECTION/EDITING

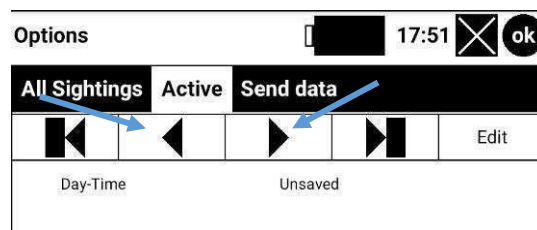
1. In the home window, select the **blue circle** in the lower left corner. If necessary, go back in the windows by clicking on the icon ;



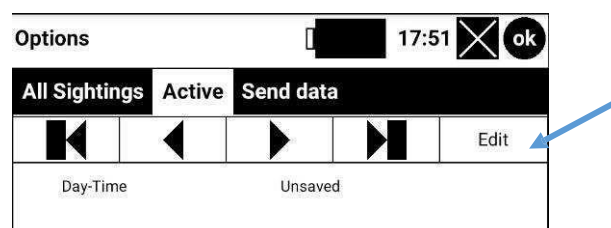
2. Select the "**Active**" window;







3. Navigate to the record you want to edit using the *navigation arrows*;




4. Select "**Edit**" in the upper right corner;



5. Navigate to the window in which you can make the change using the arrows located in the lower right corner ;
6. Replace the information you want to change and navigate back to the last window using the next arrow , located in the lower right corner;
7. Save the information by clicking on the icon . If you want to reject the changes you made, click the icon .

6. SUBMISSION OF DATA

1. The data should be sent as soon as the count is over or as soon as the device has an internet connection;
2. Turn on your mobile data connection or join a *Wi-Fi network*.
3. As with data editing, click on the *blue circle* in the bottom left corner ;
4. Select the "**Send data**" option at the top of the screen;
5. Click on the *black arrow* until the information "*Connecting*" appears;
6. If the information has been sent successfully, the message "*No data*" should appear, if it does not appear, repeat point 3 again.

