SC-04-INFO-07

4th Meeting of the Southern Indian Ocean Fisheries Agreement (SIOFA) Scientific Committee

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French fisheries observation program

Please note that National Reports and SC Working Group reports shall be classified as working papers

Relates to agenda item: 5.6 Working paper ☐ Info paper ☒

Delegation of French Territory

Abstract

This document provides an overview of the French observer program implemented on bottom longline and trap fishery. The observer coverage is 100%, meaning that they are on board vessels for every fishing event. Data (including both from observer and skipper) are entered daily in an electronic logbook and their consistency is checked on a daily basis by observers at sea and on a weekly basis by the MNHN (Muséum National d'Histoire Naturelle).

Recommendations *(working papers only)*

1. [text]
2. [text]

1 INTRODUCTION

This document provides an overview on the french observer program taking place in the SIOFA area.

Longliners operating in the SIOFA area also fish within CCAMLR area and the observer program follows the same standards in SIOFA as in CCAMLR waters.

2 FRENCH OBSERVER PROGRAM

The description of the French observer program below is based on the list of criteria developed under the CCAMLR observer training program accreditation scheme (COTPAS).

2.1 Communication

It is mandatory for ship-owner to provide internet and telephone access to observers.

2.2 Information security

2.2.1 Back up

archive	location	type	How often	comment
Logbook	At sea	Flash drive and laptop	daily	
Copy of logbook	At sea	laptop	Daily	
Copy of logbook	At sea	Flashdrive	Weekly	
Data only	MNHN, TAAF	Through email	Every monday	Light file containing only data from the logbook
logbook	MNHN	Hard drive + data base	At the end of the trip	Uploaded into a secured oracle server
logbook	TAAF	Hard drives	At the end of the trip	

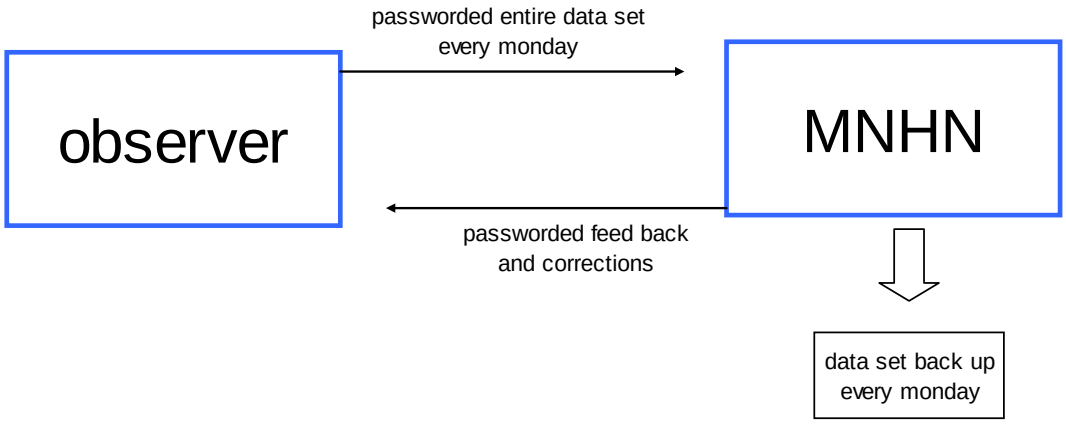
Each observer at sea emails its entire dataset to be checked and archived every monday thus creating an external back-up on a weekly basis.

French logbook allows to export a small size file with data only that can be imported back in a logbook.

2.2.2 Data security

After the end of the trip, the final data set are received at the MNHN in Paris, they are stored following a data security procedure.

2.2.3 Password use



For email exchanges, data set is pass-worded automatically by the French logbook so that the observers can't make mistakes when entering it, also he can't lose it since he does not have the password at all. The VBA code writing this password is itself accessible only under a password and none of the passwords are given at sea.

Even if an observer emails his data set to the wrong address or receives another data set by accident, files cannot be opened.

In addition, it is mandatory that skipper maintains a confidential access to internet for the observer.

2.2.4 Erasing data

A procedure between TAAF administration and the MNHN to erase data from observer's laptop when he gets back to the dry land is in place.

2.2.5 Hard copies

All data have a hand written source on hardcopies so everything can be checked and even re-entered if necessary.

Hard copies are archived at the Museum with no limit of time.

2.3 Observer's contractual requirements

Clauses describing observer's contractual requirements with respect to data security are in place to ensure confidentiality.

2.4 Access to facility's where data is stored

The access to data is officially limited to the observer's only on the ship.

2.5 Provision of Gear and Equipment

Observers are provided with:

- Waterproof paper for labels
- Sampling material such as forceps, zip bags, tubes…
- Photo template with scale
- SLR and waterproof camera
- Measuring board
- Caliper
- Laptop, A4 printer, dymo printer for labels.
- Boots and all factory suits for wet and cold environment.
- Motion compensated factory scale (that stays on board)

2.6 Recruitment

Recruitment is organised by TAAF administration in collaboration with the MNHN. Candidates must be computer literates.

2.7 Training

Training occurs once a year with new observers and last 8 full days long .

New observers are given documents (fishing history, gear types, navigation…) several weeks before the training workshop to familiarize themselves.

the agenda of the training workshop is the following:

- Introduction to fishing activities and gear types with videos
- Lecture on all the different types of techniques and data collected
- Identification of species with training and performance assessment
- Exercises to use the electronic logbook to enter data
- Error searching in the data set
- Benthic organisms background, identification and protocols (2 days)
- Presentation of the analyses of the data collected and it interest

Candidates must pass the performance tests during the week to be hired for the job.

After that, observers are also trained on survival technics, fire fighting and go through medical and psychological tests before to be able to leave.

2.8 Duties and responsibilities

A code of conduct is provided to the observer to guide them on board.

Scientific priorities are provided in a table updated on a yearly basis.

2.9 Fishing Methods

Main fishing techniques are described in the French manual observers are provided with, samples of integrated weight longlines and hooks are available during training.

Videos are used during training to show the use of different technics.

2.10 Location determination

Observers are trained and provided with documents explaining how to read GPS and depth.

They are also provided with different maps of the area and the different RFMO involved.

2.11 Mitigation

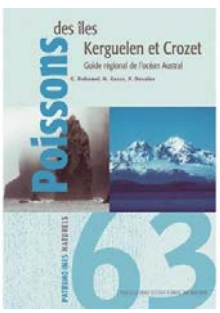
Observers are provided with detailed documents on mitigation and historical data related to marine mammal and bird incidental catches.

2.12 Health and Safety at sea

Observers follow a training called "Certificat de Base à la Sécurité Nautique" which corresponds to STCW95.

2.13 Identify target and main by-catch species

Several resources are made available for observers at sea among which a 430 pages book dedicated for fish identification in Kerguelen and Crozet's waters:



MNHN Document provided to observer but not provided for COTPAS as no electronic version is available.

Duhamel, Guy; Gasco, Nicolas; Davaine, Patrick; ,Poissons des îles Kerguelen et Crozet(guide régional de l'océan Austral),Patrimoines naturels,,,,2005,Publications scientifiques du Muséum national d'Histoire naturelle

Also an important amount of identification documents are provided to observers.

Observers are provided with self-training tools, so that they can train themselves during steaming.

2.14 Marine mammal and seabird identification and behaviour

Identification documents developed by the MNHN are provided, for the south part of SIOFA the following guide also applies:

https://www.ccamlr.org/en/document/science/seabird-identification-%E2%80%93-photographic-guide-observers-sea-southern-indian-ocean

Observers are provided with selftraining tools presented at CCAMLR, so that they can train themselves during steaming:

https://www.ccamlr.org/en/science/observer-self-training-guide

Observers also conduct an important work of photo-identification following:

https://www.ccamlr.org/en/document/science/whale-depredation-%E2%80%93-data-collection-guidelines

Observers are not asked to identify killer whales and spermwhales individually but they are provided with catalogues issued from their photo-identification work for their information and as a feedback of how their work is being used.

Feedback is given to observers in a document presenting a list of individuals they photograph by observers and by year (not in public domain).

Main results on depredation analyses are presented during training.

Last point, beaked whale fossils are collected by observers and leaded to very interesting results:

2.15 Sampling and types of measurements

Sampling strategy and detailed measurements are described in the manual provided to observers.

2.16 Obtaining and preserving samples

Sampling techniques are described in the manual provided to observers.

labeling:

- a Dymo label printer is provided to observer to label otolith envelopes, barcod tubes, tag recaptures etc. It is directly linked to the French logbook thus avoiding reporting errors.

- special labels are provided for fossils (thick paper), alcohol (pre-print waterproof paper)

Unique reference number is provided for every single sample collected.

2.17 Determination of conversion factors

Observers are asked to measure conversion factor for each trip, each area, each species and each product type. Conversion factor is used to calculate the green weight at the scale of each fishing event.

2.18 Sexing and maturity scales

Observers are provided with maturity scale developed by the MNHN for Patagonian toothfish:

https://www.ccamlr.org/en/document/science/dissostichus-eleginoides-gonade-maturity-guide

Information on birds and crustaceans are also provided in the observer's manual.

During training observers practice on local species.

2.19 Tagging

Recapture is described in the observer's manuel.

First 10 photographs of recaptured tags at sea are compressed and emailed to MNHN in order to check and validate that instructions are correctly followed.

Naming convention is used for all pictures, naming is run automatically through french logbook using VBA to avoid errors.

All physical tags are double checked when they get back to the Museum after trip ended.

Training video is provided is also made available for observers.

2.20 Observation of seabirds and marine mammals

Data are collected by observers on all mitigation measures in place at the scale of each longline, including brickle curtain presence for each hauling.

2.21 Determining species composition

Observer monitors opportunistically the data collection from the crew at the factory by comparing his figures collected during hauling observation (those are dedicated to bird bycatch but fish is also taken into account).

Skipper provides numbers and weight of all catches to the observer on a daily basis.

Fish numbers by species are compared between observer's and skipper's data for each hauling and observers informs its skipper if any discrepancies is observed.

All the catch is weighted on board (by species) on motion compensated scales (except if cut off) and all products are reweighted on the dry land in Reunion Island by a private expert company leading to slight corrections of all the data collected at the scale of each haul before to upload those data into the database.

2.22 Monitoring discards

Discards are declared by skipper in a form containing volume, date and time, position lat and long, observer on board compares those data to the calculated amount of discard derived from greenweight versus processed weight.

2.23 Monitoring effort

The skipper provides all details of effort to the observer on a daily basis.

Hooks per magazine are counted several times per trip by observer to make sure numbers match, observers are asked to assess baiting rate.

2.24 Gathering meteorological and oceanographic data

Meteorological data are collected, detailed list of variables collected is available in annexe.

Meteorological and environmental condition background is given in the observer's manual.

In order to be used for oceanographic purposes, positions and depth of both hauling and setting are collected according to:

Park, Y. H., Gasco, N., & Duhamel, G. (2008). Slope currents around the Kerguelen Islands from demersal longline fishing records. *Geophysical Research Letters*, *35*(9).

2.25 Collecting data on vessel sightings

Observers are asked to report any sighting of fishing gear and vessels, detailed list of variables collected is provided in annexe.

Background on IUU and information on data to be collected are provided here the observer's manual.

Observers are asked to take pictures as much as possible and keep the gear if necessary, all pictures are archived.

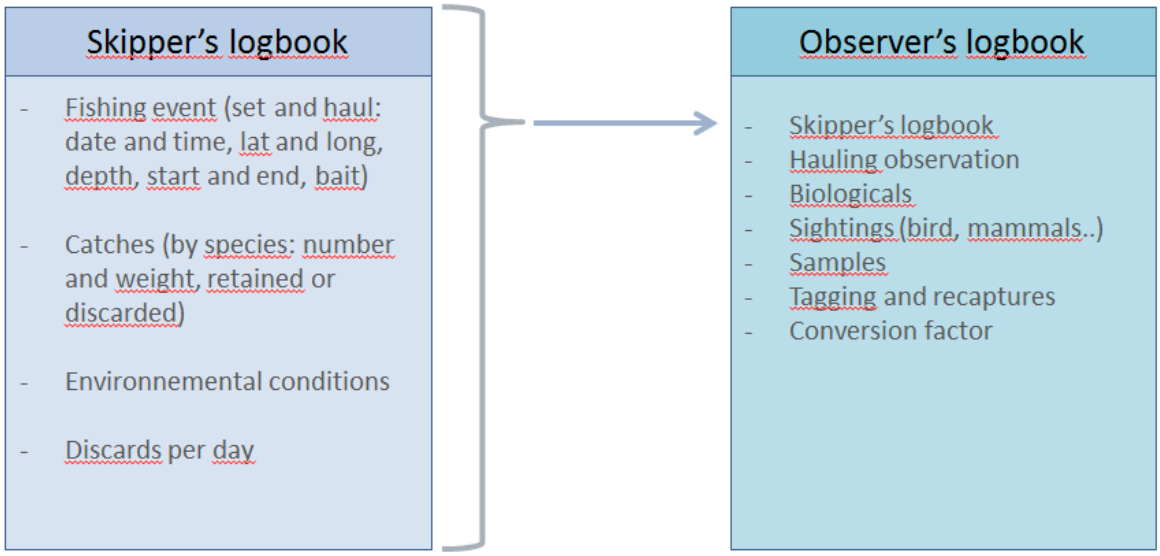
2.26 Feedback

A key point is the feedback to observers, the Museum does its best to provide observers with all scientific papers and reports produced thanks to their great work, a bulletin is also circulated to observers and fishers to keep them in the loop of scientific work.

3 Data collection strategy

In the SIOFA area, data are collected at two different levels, the skipper and the scientific observer on board.

The skipper provides its data to the observer on a daily basis for him to archive. The observer is also in charge of quality assurance through addins provided by the MNHN that are run on daily basis leading to high quality dataset.



The entire data set is sent to the MNHN on a weekly basis to double check quality.

3.1 Data collected by the skipper

At the scale of every single fishing event, the skipper reports the folowing data:

on fishing event:

- latitude and longitude and depth of start and end of setting and hauling
- environmental conditions (weather, wind, swell)
- number of hooks or pots
- species of bait

On catch:

For each haul and each species:

- number of individuals
- product weight
- type of product (filet, HGT, collars….)
- green weight calculated through product weight X conversion factor
- fate (kept on board, discarded….)

3.2 Data collected by scientific observer

Observers are asked to collect information on the following items:

Hauling observations

For each line set , a fourth of the hooks set are observed during hauling in order to count bird incidental bycatches (caught either during setting and hauling) and fish catches by species and if they are brought on board or lost at the surface.

Setting observation

The baiting rate is assessed three times per trip.

Number of hooks

The number of hooks declared per line is verified at least 5 times per trip.

Bird abundance

If visibility allows it, observer are asked to assess bird abundance around the boat daily for each species.

Bird tag

Bird bands and localization systems such as argos or GLS are reported.

Mammal abundance

For each line hauled, the presence and absence (and if possible the number of individuals) of marine mammals is reported for each species, observers also report interactions with fishing activities, the time between the first hook hauled and the time mammals arrive.

Catch measurement for toothfish is targeted

Observers measure Total Length on at least 100 fish per day (up to 200) or 10% of the number of individuals caught (in case of low capture rates), this includes also sexing, gonad maturity stages and stomach contents when times allows.

Catch measurement for all species

Observers measure as many fish as times allows (the threshold being 3 hours 30 minutes per day maximum at the factory for biologicals), covering all species. Individual weights are also collected to the extent possible.

Tagging recapture

This applies mainly for toothfish, observers are asked to collect Total Length, Standard Length, sex, gonad stage, weight, they are also asked to seek for pit tag (or any probe) and they sample otoliths and take pictures of tagging site and tag, healing is assessed according to a scale established with CCAMLR technical coordinators. If tagged is likely to have steamed for a long distance a sample of tissu is sampled in alcohol for genetic analyses. Samples are returned and archived at the MNHN.

Benthic organisms

All benthic organisms brought on board during the observed fourth of the line are weighted and photographed. All benthic organisms caught on the line are sampled and returned to the MNHN.

Sample: uncommon species

Observers are asked to take pictures of animals, measure and weight them. Based on pictures received by email the decision to keep them partly or entirely is provided to observers.

Sample: bait

Tissu samples (and otolith when possible) of baits used during each trip are archived as references.

Sample: otoliths

a minimum of 5 fish per species are sampled for otoliths along with total length, weight, sex and gonad stage.

Sample: Fossils

Fossils (benthic organisms, whales…) are all kept by observers and returned to the MNHN to be identified and studied.

Sample: Hooks

Every type of hook used during each trip is archived along with all informations of sizes and label from maker.

Photo-identication

Observers are asked to follow two protocols, first is to take as many pictures as possible of killerwhales around the boat for each haul in order to identify pods involved in the interactions, second is (when times and weather conditions allows it) to take as many pictures as possible of every individuals of killer whales and spermwhales to follow the evolution of markings and update the photo-identification catalogues. Other species are photographed opportunistically.

Photo of gear

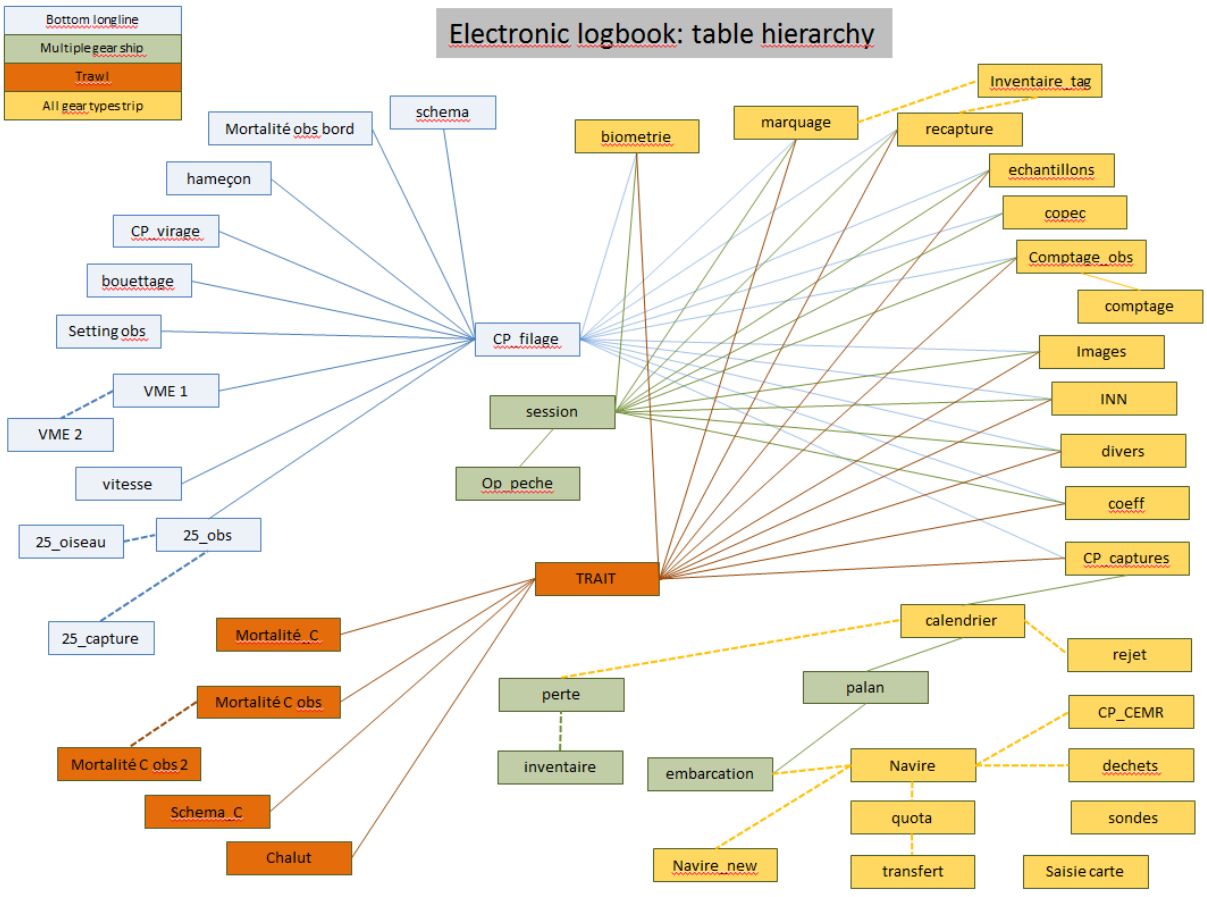
Observers are asked to take pictures of every element of gear used on board including all mitigation in place.

4 Electronic Logbook tables

This chapter describes the different tables that are available in the electronic logbook developped and provided by the MNHN to fishery observers.

This logbook is designed to allow the reporting of a wide range of data type for different fisheries in SIOFA and also in the French EEZ . Tables related to trawl are not currently used in SIOFA but present in the description.

The following figure gives an overview of the tables related to bottom lonligne, vessels using multiple gear (pots, small longlines through small boats delivering to mother boat), trawlers (not in use). Tables can be specific to one of those types only or can be used in different types (shown in light orange in the figure).



4.1 List of the tables

TABLE 1: "CP_filage"

content: data related to the setting of longlines, environmental conditions and mitigation in place

used for: longline

TABLE 2: "CP_virage"

content: data related to the hauling of longlines and routine observations of marine mammals.

used for: longline

TABLE 3: "CP_captures"

content: data on catches per species and related product and fate

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 4: "CP_CEMR"

content: data related to the weight of all products landed on port

used for:

TABLE 5: "Navire"

content: information on the ship

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 6: "Navire_new"

content: information on new ships that have never fished in the fishery before

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 7: "bouettage"

content: data related to baiting performances

used for: longline

TABLE 8: "25_obs"

content: hauling observation positions and time

used for: longline

TABLE 9: "25_oiseau"

content: number and species of birds observed during the hauling observation

used for: longline

TABLE 10: "25_captures"

content: number and species of fish observed during the hauling observation

used for: longline

TABLE 11: "divers"

content: miscelaneous observations either during fishing operations or not

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 12: "comptage_obs"

content: information on the bird abundance observation

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 13: "comptage"

content: number and species of birds related to the bird abundance observation

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 14: "ech"

content: samples collected (otoliths, tissues, benthos…)

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 15: "marquage"

content: data related to the release ot tagged animals

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 16: "recapture"

content: data related to the recapture of tagged animals

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 17: "INN"

content: data on unidentified ship or gear possibly IUU

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 18: "biométrie"

content: measurement and weights, stomach content.

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 19: "Rejet"

content: location and volume of offal discards

used for: longline , trawl

TABLE 20: "vitesse"

content: longline immersion speed measures

used for: longline

TABLE 21: "quota"

content: quota for each species and each area

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 22: "transfert"

content: quota transfer

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 23: "coeff"

content: conversion factor measures

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 24: "calendrier"

content: daily activity of the ship

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 25: "sondes"

content: depth data

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 26: "vos_tag"

content: list of all the tags available before the start of fishing activities

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 27: "hamecon"

content: hook tally for checking purposes

used for: longline

TABLE 28: "copec"

content: name of observer related to different tasks

used for:

TABLE 29: "mortalite_obs_bord"

content: bird incidental bycatch reported by the crew

used for: longline

TABLE 30: "saisie_carte"

content: data from the map

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 31: "images"

content: list ot photos renamed

used for: longline , trawl , multiple gear fishing boat (pot, small longlines)

TABLE 32: "Schema"

content: information on all the fishing gear used

used for: longline

TABLE 33: "Dechets"

content: data on discards

used for: longline , trawl

TABLE 34: "TRAIT"

content: setting and hauling of trawl, mitigation and environmental data related

used for: trawl

TABLE 35: "Schema_C"

content: gear configuration of the trawler, mitigation information related

used for: trawl

TABLE 36: "mortalité_C"

content: bird incidental bycatch data

used for: trawl

TABLE 37: "Chalut"

content: information on the trawl type

used for: trawl

TABLE 38: "mortalité_C_obs"

content: observed colision during the tow of the trawl

used for: trawl

TABLE 39: "VME_1"

content: observation of line segments for Vulnerable Marine Ecosystems

used for: longline

TABLE 40: "VME_2"

content: taxa reported during the observation for Vulnerable Marine Ecosystem

used for: longline

TABLE 41: "op_peche"

content: fishing events

used for: multiple gear fishing boat (pot, small longlines)

TABLE 42: "session"

content: details on fishing events related to tagging, recapture, measures, CF etc

used for: multiple gear fishing boat (pot, small longlines)

TABLE 43: "embarcation"

content: details on small boat

used for: multiple gear fishing boat (pot, small longlines)

TABLE 44: "palan"

content: assesment of catches of small boats delivering to the mother boat

used for: multiple gear fishing boat (pot, small longlines)

TABLE 45: "perte"

content: number of pots lost

used for: multiple gear fishing boat (pot, small longlines)

TABLE 46: "inventaire"

content: pot inventory before start of fishing activities

used for: multiple gear fishing boat (pot, small longlines)

TABLE 47: "mortalité_C_obs2"

content: marine mammal and bird observation during setting and hauling

used for: trawl

TABLE 48: "setting_obs"

content: longline setting observation

used for: longline

5 ANNEXE

5.1 DETAILED CONTENT OF TABLES

The following chapters describe what are the data that can be collected in each field of each table, along with the format, the thresholds, if any, or the references lists used in dropdown menus which are themselves detailed in the next chapter.

5.1.1 TABLE 1 "CP_filage" (setting of the lines)

FIELD == > LL number (fishing event ref number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > ship setting (who set the line? (which ship, in case recovering gear for other ship))

FORMAT: "General" (REFERENCE: navire_acronyme)

FIELD == > ship quota (to which ship the quota of this line belongs to? in case hauling line for another ship)

FORMAT: "General" (REFERENCE: navire_acronyme)

FIELD == > R/C (Research or Commercial)

FORMAT: "General" (REFERENCE: recherche_commercial)

start setting:

FIELD == > date time (date and time of start of setting, meaning when anchor is dropped, position is associated to this same moment)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth (depth as read on the fish finder, in meters, no negative sign)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

end setting:

FIELD == > date time (date and time of end of setting, when anchor is dropped, like for start of setting the position corresponds to this moment)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth (depth as read on the fish finder, in meters, no negative sign)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > length (length of the line in meters)

FORMAT: 2_décimal "#,##0" (threshold min:0 max:100000)

FIELD == > asd (fishing area)

FORMAT: "General" (REFERENCE: zone_peche)

sector:

FIELD == > start (calculated automatically in EEZ)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > end (calculated automatically in EEZ)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > middle (calculated automatically in EEZ)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

hook number:

FIELD == > # type1 (type of hooks as described in gear description table)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > # type 2 (type of hooks as described in gear description table)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > # type 3 (type of hooks as described in gear description table)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

bait composition:

bait 1:

FIELD == > name (use drop down menu)

FORMAT: "General" (REFERENCE: appat)

FIELD == > % (percentage of this bait on the line)

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

bait 2:

FIELD == > name (use drop down menu)

FORMAT: "General" (REFERENCE: appat)

FIELD == > % (percentage of this bait on the line)

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

bait 3:

FIELD == > name (use drop down menu)

FORMAT: "General" (REFERENCE: appat)

FIELD == > % (percentage of this bait on the line)

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

bait 4:

FIELD == > name (use drop down menu)

FORMAT: "General" (REFERENCE: appat)

FIELD == > % (percentage of this bait on the line)

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

FIELD == > straight (is this line straight?)

FORMAT: "General" (REFERENCE: filage_rectiligne)

FIELD == > hauling by other ship? (if all or part of this line has been hauled by another ship indicate which ship)

FORMAT: "General" (REFERENCE: navire_acronyme)

environmental conditions:

visual observation:

FIELD == > moon (moon visual impression of intensity taking cloud cover into account)

FORMAT: "General" (REFERENCE: filage_lune)

FIELD == > cloud cover (cloud cover (use scale provided))

FORMAT: "General" (REFERENCE: filage_nebulosite)

FIELD == > precipitation (precipitation during setting)

FORMAT: "General" (REFERENCE: filage_precipitation)

FIELD == > visi (visibility during setting)

FORMAT: "General" (REFERENCE: filage_visi)

wind:

FIELD == > vap (wind direction in degrees during setting)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > speed (wing speed in KT during setting)

FORMAT: 1_integer "0" (threshold min:0 max:180)

swell:

FIELD == > vap (swell direction in degrees during setting)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > height (swell height during setting)

FORMAT: 1_integer "0" (threshold min:0 max:30)

.:

FIELD == > sea state (sea state during setting)

FORMAT: "General" (REFERENCE: filage_etat_mer)

FIELD == > setting speed (speed of setting provided by the bridge (in Kt))

FORMAT: 2_décimal "0.0" (threshold min:0,1 max:15)

temperature:

FIELD == > air (air temperature during setting)

FORMAT: 2_décimal "0.0" (threshold min:-30 max:50)

FIELD == > sea (sea temperature during setting)

FORMAT: 2_décimal "0.0" (threshold min:-5 max:35)

.:

FIELD == > pressure (atmospheric pressure in Hpa)

FORMAT: 1_integer "#,##0" (threshold min:800 max:1100)

weight:

FIELD == > type (type of weight (integrated weight...))

FORMAT: "General" (REFERENCE: type_lestage)

FIELD == > space in m (space between weights in meters)

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > space in h (space between weights in hook number)

FORMAT: 1_integer "0" (threshold min:0 max:10000)

sun height:

FIELD == > start setting (calculated automatically in EEZ)

FORMAT: "00.00"

FIELD == > end setting (calculated automatically in EEZ)

FORMAT: "00.00"

mitigation:

line supporting streamerline:

FIELD == > number (number of streamers)

FORMAT: 1_integer "0" (threshold min:0 max:50)

FIELD == > functionning (if ok=100%, if all wiped out=0%, half wiped out 50% etc...)

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

FIELD == > comment (comment on streamerline fonctiunning)

FORMAT: "General"

FIELD == > length (length of streamers (with "trainard") in meters)

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > aerial extend (aerial extent of the line in meters)

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > height above water (height above water of the point where lines are attached (in meters))

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > material (line material)

FORMAT: "General" (REFERENCE: matière)

FIELD == > diameter (line diameter in mm)

FORMAT: 1_integer "0" (threshold min:0 max:30)

FIELD == > trainard (type of material used at the end of the line if any)

FORMAT: "General"

streamer line:

FIELD == > number (number of streamers)

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > simple or double (streamers are single or double?)

FORMAT: "General" (REFERENCE: banderoles_double_simple)

FIELD == > material (streamer material)

FORMAT: "General" (REFERENCE: matière)

FIELD == > diameter or width (streamer diameter or width in mm)

FORMAT: 2_décimal "0.0" (threshold min:0 max:90)

FIELD == > space between (space between streamers in meters)

FORMAT: 2_décimal "0.0" (threshold min:0,1 max:1000)

FIELD == > lenght min (min size of streamer in meters)

FORMAT: 2_décimal "0.0" (threshold min:0,1 max:1000)

FIELD == > length max (max size of streamer in meters)

FORMAT: 2_décimal "0.0" (threshold min:0,1 max:1000)

light:

FIELD == > attenuation (describe how light is attenuated, using dark curtain, red bulb....)

FORMAT: "General"

FIELD == > gear (for pot fishing only, indicate if they are set in fleet or not)

FORMAT: "General" (REFERENCE: filage_engin)

FIELD == > comment (free comment)

FORMAT: "General"

5.1.2 TABLE 2 "CP_virage" (hauling of the lines)

FIELD == > LL number (fishing event ref number, each number can appear several times if line is hauled in several sections)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > rank

FORMAT: 1_integer "0" (threshold min:0 max:500)

start:

FIELD == > date time (date and time of the first hook on board)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

start hauling:

latitude:

FIELD == > deg (position is taken at the exact vertical of the anchor based on tension sensors, it does not correspond to the same moment of date and time)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth (depth as read on the fish finder, in meters, no negative sign)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

end:

FIELD == > date time (date and time of the last hook on board)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

end hauling:

latitude:

FIELD == > deg (position is taken at the exact vertical of the anchor based on tension sensors, it does not correspond to the same moment of date and time)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth (depth as read on the fish finder, in meters, no negative sign)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

hook number:

FIELD == > # type1 (type of hooks as described in gear description table)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > # type 2 (type of hooks as described in gear description table)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > # type 3 (type of hooks as described in gear description table)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

buoying off:

FIELD == > yes or no (has the line been buoyed off)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > comment (reason for buoying off?)

FORMAT: "General" (REFERENCE: virage_ballonnage)

break:

FIELD == > yes or no (has the line broke during hauling?)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > comment (free comment on ligne break)

FORMAT: "General"

FIELD == > soak comment (if line has soaked for more thant 5 days: indicate the reason here)

FORMAT: "General" (REFERENCE: ballonnage_long)

FIELD == > strategy (give reason if ship is leaving the area at the end of the hauling of this line)

FORMAT: "General" (REFERENCE: strategie_peche)

FIELD == > sea state (sea stated using drop down menu)

FORMAT: "General" (REFERENCE: filage_etat_mer)

seal:

males:

FIELD == > number (number of male seal)

FORMAT: 1_integer "0" (threshold min:0 max:500)

females or youngs:

FIELD == > number (number of females or youngs seals)

FORMAT: 1_integer "0" (threshold min:0 max:500)

total:

FIELD == > number (total number of seals, total can't be less than sum of M F youngs but can be superior)

FORMAT: 1_integer "0" (threshold min:0 max:500)

.:

FIELD == > comment (seal comment)

FORMAT: "General"

killer whale:

FIELD == > presence (presence OR absence OR not observed, must be any of the three cases)

FORMAT: "General" (REFERENCE: presence_absence)

FIELD == > min number (orca minimum number estimated)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > max number (orca maximum number estimated)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > ID (orca: ID of the matriline)

FORMAT: "General"

FIELD == > interaction with LL (interaction between fishing gear and orcas)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > interaction with SW (interactions between sperm whales and orcas)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > time arrival (times between the first hook on board and the arrival of orcas (for the entire hauling, not only based on the tally period))

FORMAT: 5_hour "h:mm;@" (threshold min:0 max:0,999305555555556)

FIELD == > comment on time arrival (comment on time arrival)

FORMAT: "General"

FIELD == > comment (comments on buoying off, wait, hauling other line, steaming...)

FORMAT: "General"

FIELD == > photos (photo info)

FORMAT: "General"

FIELD == > number of magasin with presence (number of magazine with presence (left blank if no whale, don't forget to fill up number of hooks per magasine))

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:100)

FIELD == > behavior comment (behavior observations etc)

FORMAT: "General"

sperm whale:

FIELD == > presence (presence OR absence OR not observed, must be any of the three cases)

FORMAT: "General" (REFERENCE: presence_absence)

FIELD == > min number (minimum number estimated)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > max number (maximum number estimated)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > interaction with LL (interaction with fishing gear)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > comment (comment on spermwhales observations)

FORMAT: "General"

FIELD == > time arrival (times between the first hook on board and the arrival of SW (for the entire hauling, not only based on the tally period))

FORMAT: 5_hour "h:mm;@" (threshold min:0 max:0,999305555555556)

FIELD == > photos (photo info)

FORMAT: "General"

Brickle:

FIELD == > % presence (percentage of the line with Brickle curtain present, data is provided by skipper)

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

FIELD == > comment (general comment on the hauling)

FORMAT: "General"

5.1.3 TABLE 3 "CP_captures" (captures and production)

FIELD == > LL number (fishing event ref number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > rank (for longline only, rank is 1 if hauled in one time, if hauled in two times then second time will be 2 etc)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > species (species or group of species)

FORMAT: "General" (REFERENCE: esp_capture)

FIELD == > number (number of individuals, does not contain tagged individuals released)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > destination (destination of this, use dropdown menu)

FORMAT: "General" (REFERENCE: destination)

FIELD == > greenweight (green weight that does not come from a processed weight so no conversion factor involved)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:30000)

FIELD == > greenweight from processed weight (not corrected) (this weight is automatically calculated by the logbook using the conversion factors and the processed weights)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:30000)

FIELD == > greenweight from processed weight (corrected) (this takes into account the landings in port and reweight the all cargo, calculation is made by museum after the trip)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:30000)

FIELD == > product (what product is it? fillet, Headed gutted and tailed etc, use drop down menu)

FORMAT: "General" (REFERENCE: produit)

FIELD == > processed weight (processed weight)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:30000)

FIELD == > corrected processed weight (this takes into account the landings in port and reweight the all cargo, calculation is made by museum after the trip)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:30000)

FIELD == > state (state can be fresh or frozen)

FORMAT: "General" (REFERENCE: etat_produit)

FIELD == > comment (comments on this line of data)

FORMAT: "General"

crayfish:

FIELD == > date (date of processing for crayfish only)

FORMAT: 4_date "ddd dd/mm/yy" (threshold min:34700 max:54789)

FIELD == > caliber (calibre of crayfish if any)

FORMAT: "General" (REFERENCE: calibre_langouste)

FIELD == > asd (deep or shallow area for crayfish)

FORMAT: "General" (REFERENCE: zone_langouste)

5.1.4 TABLE 4 "CP_CEMR" (landings in port)

port landing data (museum):

FIELD == > asd (fishing area for port landing corrections)

FORMAT: "General" (REFERENCE: zone_peche)

FIELD == > species or group of species (species or group of species)

FORMAT: "General" (REFERENCE: esp_capture)

FIELD == > product (what product is it? fillet, Headed gutted and tailed etc, use drop down menu)

FORMAT: "General" (REFERENCE: produit)

FIELD == > processed weight (processed weight)

FORMAT: 2_décimal "#,##0.000" (threshold min:0 max:300000)

FIELD == > state (state can be fresh or frozen)

FORMAT: "General" (REFERENCE: etat_produit)

FIELD == > comment (comment on the port landings)

FORMAT: "General"

FIELD == > caliber (calibre of crayfish if any)

FORMAT: "General" (REFERENCE: calibre_langouste)

FIELD == > destination (destination as used in capture table)

FORMAT: "General" (REFERENCE: destination)

5.1.5 TABLE 5 "Navire" (ship info)

FIELD == > ship (ship three leters code)

FORMAT: "General" (REFERENCE: navire_acronyme)

FIELD == > fishing technic (fishing technique used in this logbook)

FORMAT: "General" (REFERENCE: technique_peche)

FIELD == > season (french fishing season)

FORMAT: "@" (REFERENCE: saison)

start:

FIELD == > date time (date and time of leaving port)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:18264 max:54789)

ETA:

FIELD == > date time (date and time of returning to port at the end of the trip to land cargo)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:18264 max:54789)

bait:

bait 1:

FIELD == > species code (use drop down menu)

FORMAT: "General" (REFERENCE: appat)

FIELD == > origin (report maximum information from the labels)

FORMAT: "General"

bait 2:

FIELD == > species code (use drop down menu)

FORMAT: "General" (REFERENCE: appat)

FIELD == > origin (report maximum information from the labels)

FORMAT: "General"

bait 3:

FIELD == > species code (use drop down menu)

FORMAT: "General" (REFERENCE: appat)

FIELD == > origin (report maximum information from the labels)

FORMAT: "General"

bait 4:

FIELD == > species code (use drop down menu)

FORMAT: "General" (REFERENCE: appat)

FIELD == > origin (report maximum information from the labels)

FORMAT: "General"

FIELD == > skipper (skipper's name)

FORMAT: "General" (REFERENCE: capitaine)

FIELD == > first mate (first mate's name)

FORMAT: "General"

FIELD == > factory director (factory director's name)

FORMAT: "General"

FIELD == > fishery observer (fishery observer's name)

FORMAT: "General" (REFERENCE: copec_acronyme)

FIELD == > GMT+ (time zone used for all the data collected in this logbook)

FORMAT: 1_integer "0" (threshold min:-12 max:12)

FIELD == > Immatriculation: (Immatriculation:)

FORMAT: "General"

FIELD == > Indicatif d'appel: (Indicatif d'appel:)

FORMAT: "General"

FIELD == > trip (trip number for this logbook)

FORMAT: 1_integer "0" (threshold min:1 max:12)

FIELD == > logbook unique number (filled up automatically from informations provided in the table)

FORMAT: 1_integer "0" (threshold min:1 max:100000)

FIELD == > n° Licence: (n° Licence:)

FORMAT: "General"

FIELD == > logbook version (filled up automatically)

FORMAT: "General"

FIELD == > task list version (task list version number)

FORMAT: "General" (REFERENCE: consignes)

FIELD == > info hydraulique (use drop down menu)

FORMAT: "General" (REFERENCE: hydraulique)

FIELD == > enrouleur (présence ou non d'un enrouleur pour les lignes de banderoles)

FORMAT: "General" (REFERENCE: oui_non)

port landing corrections info (museum):

FIELD == > date time (date of port landing corrections)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > port landing info (general comment)

FORMAT: "General"

FIELD == > treatment info (data treatment general comment)

FORMAT: "General"

FIELD == > DCD (Dissostichus Catch Document, filled up after the trip)

FORMAT: "General" (REFERENCE: DCD)

5.1.6 TABLE 6 "Navire_new" (new ship info)

FIELD == > année fabrication (année de fabrication)

FORMAT: 1_integer "0" (threshold min:1900 max:2100)

FIELD == > GRT (Gross Register Tonnage)

FORMAT: 1_integer "0" (threshold min:0 max:5000)

capacity:

FIELD == > poisson, t (capacité en cale en tonnes de poisson)

FORMAT: 1_integer "0" (threshold min:0 max:5000)

FIELD == > jours pêche (capacité gasoil en jour de pêche hors route)

FORMAT: 1_integer "0" (threshold min:0 max:5000)

FIELD == > m3 gasoil (capacité gasoil en m3)

FORMAT: 1_integer "0" (threshold min:0 max:5000)

FIELD == > fax (fax)

FORMAT: "@"

FIELD == > length (longueur hors tout)

FORMAT: 2_décimal "0.0" (threshold min:0 max:150)

FIELD == > MMSI (MMSI)

FORMAT: "General"

FIELD == > port attache (port d'attache)

FORMAT: "General"

FIELD == > chevaux (puissance MP en chevaux)

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > KW (puissance MP en KW)

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > téléphone (téléphone)

FORMAT: "General"

FIELD == > télex (télex)

FORMAT: "General"

FIELD == > TJB (TJB (tonnage jauge brute))

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > vts max (vitesse maxi)

FORMAT: 2_décimal "0.0" (threshold min:0 max:25)

FIELD == > rotation (sens de rotation de l'hélice:)

FORMAT: "General" (REFERENCE: rotation)

5.1.7 TABLE 7 "bouettage" (baiting rate)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > comment (what was the activity of the boat when measured?)

FORMAT: "General"

hooks:

FIELD == > observed (number of hooks observed)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > baited (number of hooks baited)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

5.1.8 TABLE 8 "25_obs" (hauling observation)

FIELD == > LL number (fishing event ref number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > observation number (if only one observation then = 1, if a second observation for the line then = 2 etc)

FORMAT: 1_integer "0" (threshold min:0 max:10)

FIELD == > LL 1/4th (what fourth of the line was observed? fourth is considered during setting not hauling)

FORMAT: 1_integer "0" (threshold min:1 max:4)

observation start:

FIELD == > date time (date and time of start of observation)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth (depth as read on the fish finder, in meters, no negative sign)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

observation end:

FIELD == > date time (date and time of end of observation)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth (depth as read on the fish finder, in meters, no negative sign)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

hooks observed:

.:

FIELD == > type 1 (number of hooks of this type observed)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > type 2 (number of hooks of this type observed)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > type 3 (number of hooks of this type observed)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > LL broken of buoy off (give details if longline broke etc)

FORMAT: "General"

FIELD == > observation location (where was the observation made?)

FORMAT: "General" (REFERENCE: lieu_obs_25pourcents)

Brickle:

FIELD == > presence (what is the percentage of bricle curtain presence during the observation in terms of number of hooks)

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

FIELD == > comment (comment on Brickle curtain)

FORMAT: "General"

5.1.9 TABLE 9 "25_oiseau" (birds observed during hauling)

FIELD == > LL number (fishing event ref number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > observation number (if only one observation then = 1, if a second observation for the line then = 2 etc)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > species (species)

FORMAT: "General" (REFERENCE: espece_oiso)

FIELD == > caught during setting or hauling? (was the bird caught during hauling or setting, if it is during setting the bird is dead but if the bird is dead it does not mean it was during setting)

FORMAT: "General" (REFERENCE: filage_virage)

FIELD == > state (state: dead, injured, not injured)

FORMAT: "General" (REFERENCE: etat_mort_blesse)

FIELD == > number (number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

hooked location:

FIELD == > hook type (type of hook on which bird was caught)

FORMAT: 1_integer "General" (threshold min:1 max:4)

FIELD == > location where hooked (location where the bird was hooked, can be beak wings etc)

FORMAT: "General" (REFERENCE: accrochage)

FIELD == > plaque incub. (pour les oiseaux morts plaque incubatrice)

FORMAT: "General" (REFERENCE: etat_plaque_incubatrice)

FIELD == > bait (what bait type was observed when bird was caught)

FORMAT: "General" (REFERENCE: appat)

FIELD == > comment (comment on bird mortality)

FORMAT: "General"

FIELD == > picture associated (for dead bird is there a picture associated? yes or no)

FORMAT: "General" (REFERENCE: oui_non)

5.1.10 TABLE 10 "25_captures" (other captures during hauling observation)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > observation number (if only one observation then = 1, if a second observation for the line then = 2 etc)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > species (species, use dropdown menu)

FORMAT: "General" (REFERENCE: esp_obs_25pourcents)

FIELD == > landed on board (was it landed on board or did it drop back to water accidentally?)

FORMAT: "General" (REFERENCE: rejet_ou_a_bord)

FIELD == > number (number of individuals)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > lice state (mainly for toothfish, do not enter anything if absent)

FORMAT: "General" (REFERENCE: etat_puce)

FIELD == > depth (depth)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > comment (comment on capture)

FORMAT: "General"

5.1.11 TABLE 11 "divers" (opportunistic observations)

FIELD == > LL number (fishing event nummber if observation was made during fishing)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

observation outside fishing:

latitude:

FIELD == > deg (if observation is not made during fishing, not mandatory but helpfull)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (if observation is not made during fishing, not mandatory but helpfull)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (if observation is not made during fishing, not mandatory but helpfull)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (if observation is not made during fishing, not mandatory but helpfull)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > date time (if observation is not made during fishing, not mandatory but helpfull)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > observed by observer? (observed by observer?)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > species (species or group of species)

FORMAT: "General" (REFERENCE: espece_divers)

FIELD == > number (number of individuals)

FORMAT: 1_integer "#,##0" (threshold min:0 max:100000)

FIELD == > state (state (alive, dead, injured...))

FORMAT: "General" (REFERENCE: etat_mort_blesse)

FIELD == > sex (sex)

FORMAT: "General" (REFERENCE: sexe)

FIELD == > comment on environnmental conditions (comment on environmental conditions, strom, snow...)

FORMAT: "General"

FIELD == > general comment (bird brought on board for example...)

FORMAT: "General"

FIELD == > picture associated (is there a picture associated?)

FORMAT: "General" (REFERENCE: oui_non)

for birds:

.:

FIELD == > plaque incub. (pour les oiseaux plaque incubatrice)

FORMAT: "General" (REFERENCE: etat_plaque_incubatrice)

FIELD == > metal band ref (metal band ref, or "present but impossible to read due to long distance"... etc)

FORMAT: "General"

Darvick:

FIELD == > color (band color)

FORMAT: "General" (REFERENCE: couleur_darvick_plumage)

FIELD == > text (band text and or number)

FORMAT: "General"

gls:

FIELD == > yes or no (presence of GLS)

FORMAT: "General" (REFERENCE: oui_non)

argos transmiter:

FIELD == > yes or no (presence of argos transmiter observed)

FORMAT: "General" (REFERENCE: oui_non)

.:

FIELD == > coloration on feathers (describe if any coloration on the feathers (red, blue...))

FORMAT: "General" (REFERENCE: couleur_darvick_plumage)

FIELD == > comment (comment on all this)

FORMAT: "General"

interaction:

FIELD == > with (interaction with the ship, fishing gear etc...)

FORMAT: "General"

FIELD == > description (description of these interactions)

FORMAT: "General"

5.1.12 TABLE 12 "comptage_obs" (live bird observation)

FIELD == > abundance ref (this unique number is the reference used to give the number of birds by species in the next table)

FORMAT: 1_integer "0" (threshold min:0 max:100000)

FIELD == > date time (date and time when abundance of birds was estimated)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > ship activity (ship's activity during bird counting)

FORMAT: "General" (REFERENCE: activite_navire)

FIELD == > visibility (visibility)

FORMAT: "General" (REFERENCE: filage_visi)

FIELD == > LL number (if bird abundance was estimated during a fishing event then report the ref number)

FORMAT: 1_integer "0" (threshold min:1 max:500)

FIELD == > comment (comment on capture)

FORMAT: "General"

FIELD == > distance (m) (if distance is not maximum report distance between the ship and the observation range)

FORMAT: 1_integer "0" (threshold min:1 max:10000)

5.1.13 TABLE 13 "comptage" (live bird abundance)

FIELD == > abundance ref (this unique number refers to the number used to give details on the abundance estimation)

FORMAT: 1_integer "0" (threshold min:0 max:100000)

FIELD == > species (species or group of species)

FORMAT: "General" (REFERENCE: espece_oiso)

FIELD == > number (number of individuals)

FORMAT: 1_integer "0" (threshold min:0 max:100000)

FIELD == > comment (comment on bird abundance)

FORMAT: "General"

5.1.14 TABLE 14 "ech" (sample)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > type of sample (type of sample: alcohol, otolith, dry (coral...), frozen...)

FORMAT: "General" (REFERENCE: echantillon_type)

FIELD == > number (unique ref number of the sample, filled up automatically through AIDE)

FORMAT: "General"

FIELD == > species (of sample) (species of group of species, including cephalopod, unidentified fish etc. This ID corresponds to the sample not the fish who ate it if any.)

FORMAT: "General" (REFERENCE: esp_echantillon)

FIELD == > origin (origin of the sample, was it found at the factory, in a stomach content, caught on a hook etc...)

FORMAT: "General" (REFERENCE: echantillon_origine)

FIELD == > protocol (protocol reference)

FORMAT: "General" (REFERENCE: protocole)

FIELD == > SL (standard lenght in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > TL (total length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > AL (anal length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > FL (fork length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > wingspan (wingspan in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > CL (carapace length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > CW (carapace width in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > sex (sex)

FORMAT: "General" (REFERENCE: sexe)

FIELD == > stage (gonad stage)

FORMAT: "General" (REFERENCE: stade)

FIELD == > greenweight (greenweight of the individual)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:10000)

FIELD == > processed weight (processed weight of the individual if available)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:10000)

FIELD == > comment (comment on sample, all individual, flesh sample...)

FORMAT: "General"

FIELD == > museum info (report any identification or info received from the museum if for example you sent a picture etc)

FORMAT: "General"

FIELD == > random sample (was the sample taken from an individual chosen randomly?)

FORMAT: "General" (REFERENCE: echantillonnage)

5.1.15 TABLE 15 "marquage" (tagging)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > species (species tagged)

FORMAT: "General" (REFERENCE: espece_marquable)

left tag:

FIELD == > text (wording on the left tag)

FORMAT: "General" (REFERENCE: texte_marquage)

FIELD == > color (color of the left tag)

FORMAT: "General" (REFERENCE: couleur_tag)

FIELD == > number (number on the left tag)

FORMAT: "@"

right tag:

FIELD == > text (wording on the right tag)

FORMAT: "General" (REFERENCE: texte_marquage)

FIELD == > color (color on the right tag)

FORMAT: "General" (REFERENCE: couleur_tag)

FIELD == > number (number on the right tag)

FORMAT: "@"

FIELD == > SL (standard lenght in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > TL (total length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > AL (anal length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > FL (fork length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > CL (carapace length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > sex (sex)

FORMAT: "General" (REFERENCE: sexe)

FIELD == > wingspan (wingspan)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > greenweight (greenweight in kg of the tagged fish)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:10000)

FIELD == > state (stated)

FORMAT: "General" (REFERENCE: etat_poisson_marquage)

FIELD == > distance (distance steamed if release was delayed due to seals for examples (milles))

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > bac déstressage (was the fish put in a large tank to recover from stress?)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > comment (comment on missed tag numbers etc)

FORMAT: "General"

FIELD == > carapace state (are there epibionte organisms on the carapace)

FORMAT: "General"

release position:

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

5.1.16 TABLE 16 "recapture" (recaptures of tagged animals)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > species (species tagged)

FORMAT: "General" (REFERENCE: espece_marquable)

left tag:

FIELD == > text (wording on the left tag)

FORMAT: "General" (REFERENCE: texte_recapture)

FIELD == > color (color of the left tag)

FORMAT: "General" (REFERENCE: couleur_tag)

FIELD == > number (number on the left tag)

FORMAT: "@"

right tag:

FIELD == > text (wording on the right tag)

FORMAT: "General" (REFERENCE: texte_recapture)

FIELD == > color (color on the right tag)

FORMAT: "General" (REFERENCE: couleur_tag)

FIELD == > number (number on the right tag)

FORMAT: "@"

FIELD == > SL (standard lenght in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > TL (total length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > AL (anal length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > CL (carapace length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > FL (fork length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > wingspan (wingspan in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > sex (sex)

FORMAT: "General" (REFERENCE: sexe)

FIELD == > stage (gonad stage)

FORMAT: "General" (REFERENCE: stade)

weight:

FIELD == > green (greenweight of the tagged individual)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:10000)

FIELD == > processed (processed weight of the tagged individual if available)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:10000)

FIELD == > estimated? (was greenweight estimated through processed weight (in cas tag was found after processing))

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > otolithe ref (otolith ref (be carefull this ref is not linked to the sample table))

FORMAT: "General" (REFERENCE: ref_otolithe_recapture)

FIELD == > finder? (who found it?)

FORMAT: "General"

FIELD == > state (state of the fish)

FORMAT: "General" (REFERENCE: etat_poisson_recapture)

FIELD == > healing (at the point where tag was inserted, is healing ok?)

FORMAT: "General" (REFERENCE: etat_point_marquage)

FIELD == > correct position of tags (are tags correctly inserted according to CCAMLR instructions!?)

FORMAT: "General" (REFERENCE: position_tag)

FIELD == > pit tag (is there a pit tag, no need to fill it up for routine french tag in french EEZ, use NA if no pit tag reader or positive test available)

FORMAT: "General" (REFERENCE: oui_non_na)

FIELD == > picture associated (are there pictures associated available, yes or no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > image name (name of image is generated automatically using a naming convention)

FORMAT: "General"

FIELD == > AAD ref (for AAD, you can insert code if available)

FORMAT: "General"

FIELD == > comment (comment on this recapture)

FORMAT: "General"

5.1.17 TABLE 17 "INN" (illegal and potential illegal fishing)

FIELD == > date time (date and time)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > n° PV (report number)

FORMAT: "General"

this ship:

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > asd (zone de pêche du navire sur lequel vous êtes)

FORMAT: "General" (REFERENCE: zone_peche)

FIELD == > élément observé (nature de l'élément observé, navire, bouée, matériel remonté)

FORMAT: "General" (REFERENCE: IUU_element)

other ship:

.:

FIELD == > description (description navire)

FORMAT: "General"

FIELD == > type de navire (de quel type de navire s'agit-il?)

FORMAT: "General" (REFERENCE: type_navire)

.:

FIELD == > name (nom navire)

FORMAT: "General"

FIELD == > IMO/MMSI (provide information if possible on iIMO and MMSI)

FORMAT: ""

FIELD == > AIS (was AIS detected by your vessel?)

FORMAT: "General" (REFERENCE: oui_non)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > direction (direction of the observed ship)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > speed (speed of the observed ship)

FORMAT: 1_integer "0" (threshold min:0 max:35)

FIELD == > type of observation (radar, visual…)

FORMAT: "General"

.:

FIELD == > Indicatif d'appel: (indicatif navire)

FORMAT: "General"

FIELD == > nationalité du pavillon

FORMAT: "General"

FIELD == > contact radio (contact radio oui non)

FORMAT: "General"

FIELD == > échanges radio (description échanges radio)

FORMAT: "General"

FIELD == > distance (distance du navire en milles)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > activité (ship's activity during bird counting)

FORMAT: "General"

FIELD == > présence de lignes de banderoles? (présence de lignes de banderoles?)

FORMAT: "General" (REFERENCE: oui_non)

.:

FIELD == > photos associée? (photos associée?)

FORMAT: "General" (REFERENCE: oui_non)

gear:

FIELD == > lest (type de lest,)

FORMAT: "General"

FIELD == > obs lest (obs lest)

FORMAT: "General"

longline:

FIELD == > ligne de pêche (description ligne de pêche)

FORMAT: "General"

FIELD == > ligne mère (description ligne mère pour la palangre espagnole uniquement)

FORMAT: "General"

FIELD == > hameçon (types d'hameçons)

FORMAT: "General"

net:

FIELD == > description (description dans le cas de filet)

FORMAT: "General"

FIELD == > maillage (maillage dans le cas de filet)

FORMAT: "General"

FIELD == > photo (photo associées)

FORMAT: "General"

FIELD == > comment (observation générale)

FORMAT: "General"

5.1.18 TABLE 18 "biométrie" (measurements from factory)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > species (species)

FORMAT: "General" (REFERENCE: espece_mesurable)

FIELD == > SL (standard lenght in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > TL (total length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > AL (anal length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > FL (fork length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > CL (carapace length in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > CW (carapace width in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > wingspan (wingspan in cm)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > sex (sex)

FORMAT: "General" (REFERENCE: sexe)

FIELD == > stage (gonad stage)

FORMAT: "General" (REFERENCE: stade)

FIELD == > greenweight (greenweight in kg)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:10000)

FIELD == > processed weight (processed weight of the individual if available)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:10000)

FIELD == > comment (comment, parasites...)

FORMAT: "General"

FIELD == > lithod parasite (rizocephal parasite if any)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > sampling strategy (is sampling random or not (do not fill up if random))

FORMAT: "General" (REFERENCE: echantillonnage)

stomach contents:

FIELD == > filing (from 0 à 5 (0: 0%); (1: >0 to 25%); (2: 25 to 50%); (3: 50 to 75%); (4: 75 to <100%); (5: 100%))

FORMAT: 1_integer "0" (threshold min:0 max:5)

FIELD == > composition (fill up as folowing: "gunnari 50%; salp 10%; squid 40%")

FORMAT: "General"

5.1.19 TABLE 19 "Rejet" (factory offals)

FIELD == > date time (date and time of discard)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

FIELD == > volume (estimated volum in M3)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > activity (ship's activity during bird counting)

FORMAT: "General" (REFERENCE: activite_navire)

end of discard:

FIELD == > date heure (date and time of end of discard if made during steaming)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

FIELD == > type of discard (use drop down menu)

FORMAT: "General" (REFERENCE: type_rejet)

(comment on discard)

FORMAT: "General"

5.1.20 TABLE 20 "vitesse" (gear immersion speed)

FIELD == > date time (date and time of measurement)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > LL number (longline number if measurement made during fishing)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > gear (type of gear used to measure (bottle...))

FORMAT: "General"

FIELD == > gear ref (TDR number or bottle...)

FORMAT: "General"

FIELD == > gear position (position of the gear)

FORMAT: "General" (REFERENCE: position_TDR_bouteille)

FIELD == > speed (speed obtained from calculation)

FORMAT: 2_décimal "0.00" (threshold min:0 max:100)

FIELD == > comment (comment on measurement)

FORMAT: "General"

5.1.21 TABLE 21 "quota" (quota)

FIELD == > asd (area)

FORMAT: "General" (REFERENCE: zone_quota)

FIELD == > species (target species)

FORMAT: "General" (REFERENCE: esp_capture)

FIELD == > attributed quota or allocation (attributed amount of fish etc for this ship)

FORMAT: 2_décimal "#,##0.000" (threshold min:0 max:5000)

FIELD == > left to be fished when starting trip (what is left of the quota when this trip starts)

FORMAT: 2_décimal "#,##0.000" (threshold min:-50000 max:5000)

5.1.22 TABLE 22 "transfert" (quota transfert)

transfert to this ship:

FIELD == > date (infos, numéro arrêté…)

FORMAT: 4_date "m/d/yyyy" (threshold min:34700 max:54789)

FIELD == > ref (référence du courrier des taaf pour ce transfert)

FORMAT: "General"

FIELD == > source ship (nom du navire source du transfert)

FORMAT: "General" (REFERENCE: navire_acronyme)

FIELD == > species (quelle espèce est concernée par ce transfert)

FORMAT: "General" (REFERENCE: esp_capture)

FIELD == > weight (tons) (poids transféré)

FORMAT: 2_décimal "#,##0.000" (threshold min:0 max:6000)

FIELD == > ASD source (zone où est pris ce poids)

FORMAT: "General" (REFERENCE: zone_peche)

FIELD == > ASD destination (zone destination de ce transfert)

FORMAT: "General" (REFERENCE: zone_peche)

FIELD == > comment (commentaire utiles)

FORMAT: "General"

5.1.23 TABLE 23 "coeff" (conversion factor)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > species (species)

FORMAT: "General" (REFERENCE: esp_capture)

FIELD == > product type (type of product, headed gutted and tailed etc...)

FORMAT: "General" (REFERENCE: produit)

FIELD == > number of individuals (number of individuals)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

TL (or CL) in cm:

FIELD == > min size (size of the smallest individuals)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > max size (size of the largest individual)

FORMAT: 2_décimal "#,##0.0" (threshold min:0 max:10000)

FIELD == > greenweight (greenweight in kg)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:6000)

FIELD == > processed weight (processed weight)

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:6000)

FIELD == > comment (comment on bird abundance)

FORMAT: "General"

rock lobster:

FIELD == > asd (zone côtière ou profonde pour la langouste uniquement, pas pour le poisson)

FORMAT: "General" (REFERENCE: zone_langouste)

5.1.24 TABLE 24 "calendrier" (calendar)

FIELD == > date (date)

FORMAT: 4_date "m/d/yyyy" (threshold min:34700 max:54789)

FIELD == > code (used dropdown menu)

FORMAT: "General" (REFERENCE: calendrier)

FIELD == > SSMU (list the small scale management units)

FORMAT: "General"

FIELD == > comment (comments on this day, incidents, anything relevant)

FORMAT: "General"

5.1.25 TABLE 25 "sondes" (depth data collection)

FIELD == > date time (date and time)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > fish finder ref (fish finder ref)

FORMAT: "General"

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth (depth in meters)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

5.1.26 TABLE 26 "vos_tag" (tag stock)

FIELD == > text (wording)

FORMAT: "General" (REFERENCE: texte_marquage)

FIELD == > color (color)

FORMAT: "General" (REFERENCE: couleur_tag)

FIELD == > area (area for which tags will be used)

FORMAT: "General" (REFERENCE: TAG_zone)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > number (tag number)

FORMAT: "@"

FORMAT: "@"

FIELD == > used (at the end of the trip was the tag used)

FORMAT: "@"

FIELD == > comment (comment)

FORMAT: "@"

FORMAT: "@"

5.1.27 TABLE 27 "hamecon" (hook number checking)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

number of hooks per magasine:

FIELD == > # type1 (hook count for this type of hook, per magasine)

FORMAT: 1_integer "0" (threshold min:0 max:2500)

FIELD == > # type 2 (hook count for this type of hook, per magasine)

FORMAT: 1_integer "0" (threshold min:0 max:2500)

FIELD == > # type 3 (hook count for this type of hook, per magasine)

FORMAT: 1_integer "0" (threshold min:0 max:2500)

5.1.28 TABLE 28 "copec" (observer on board)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > observer (name of observer in charge of data collection for this line)

FORMAT: "General" (REFERENCE: copec_acronyme)

work done for::

FIELD == > hauling observation (if more than one observer on board specify who did the work for this section)

FORMAT: "General" (REFERENCE: copec_acronyme)

FIELD == > VME data collection (if more than one observer on board specify who did the work for this section)

FORMAT: "General" (REFERENCE: copec_acronyme)

FIELD == > biologicals (if more than one observer on board specify who did the work for this section)

FORMAT: "General" (REFERENCE: copec_acronyme)

FIELD == > Conversion factor (if more than one observer on board specify who did the work for this section)

FORMAT: "General" (REFERENCE: copec_acronyme)

FIELD == > tagging (if more than one observer on board specify who did the work for this section)

FORMAT: "General" (REFERENCE: copec_acronyme)

5.1.29 TABLE 29 "mortalite_obs_bord" (bird mortality observed by crew)

FIELD == > LL number (fishing event number)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > number (number)

FORMAT: 1_integer "0" (threshold min:0 max:2500)

FIELD == > state (state: dead, injured, not injured)

FORMAT: "General" (REFERENCE: etat_mort_blesse)

5.1.30 TABLE 30 "saisie_carte" (data from map)

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > type of point

FORMAT: "@"

FIELD == > latitude

FORMAT: 2_décimal "#,##0.00" (threshold min:0 max:90)

FIELD == > longitude

FORMAT: 2_décimal "0.00" (threshold min:0 max:90)

5.1.31 TABLE 31 "images" (picture renaming tool)

FIELD == > LL number (this is filled up by interface)

FORMAT: 1_integer "0" (threshold min:0 max:6000)

FIELD == > type ob observation (this is filled up by interface)

FORMAT: "@"

renaming:

(this is filled up by interface)

FORMAT: "@"

FORMAT: "@"

5.1.32 TABLE 32 "Schema" (longliner gear configuration)

anchor:

FIELD == > type (type of anchor or weight etc)

FORMAT: "General" (REFERENCE: ancre_type)

FIELD == > weight (kg) (weight of anchor or weight etc)

FORMAT: 2_décimal "0.0" (threshold min:0 max:90)

FIELD == > deployment (how are anchors or weights deployed?)

FORMAT: "General" (REFERENCE: ancre_disposition)

FIELD == > type of weight (type of weight)

FORMAT: "@"

hooks:

FIELD == > type of hook (type of hooks according to CCAMLR standard list)

FORMAT: "General" (REFERENCE: hamecon)

hook size in mm:

FIELD == > opening (size in mm, see "AIDE" for details)

FORMAT: 2_décimal "0.00" (threshold min:0 max:200)

FIELD == > diameter (size in mm, see "AIDE" for details)

FORMAT: 2_décimal "0.00" (threshold min:0 max:200)

FIELD == > total lenght (size in mm, see "AIDE" for details)

FORMAT: 2_décimal "0.00" (threshold min:0 max:200)

FIELD == > hampe (size in mm, see "AIDE" for details)

FORMAT: 2_décimal "0.00" (threshold min:0 max:200)

FIELD == > eye (size in mm, see "AIDE" for details)

FORMAT: 2_décimal "0.00" (threshold min:0 max:200)

FIELD == > depth (size in mm, see "AIDE" for details)

FORMAT: 2_décimal "0.00" (threshold min:0 max:200)

FIELD == > longueur frontale (size in mm, see "AIDE" for details)

FORMAT: 2_décimal "0.00" (threshold min:0 max:200)

FIELD == > curve (size in mm, see "AIDE" for details)

FORMAT: 2_décimal "0.00" (threshold min:0 max:200)

number of hooks per magasine:

FIELD == > type 1 (number of hooks per magazine for this type of hook)

FORMAT: 1_integer "0" (threshold min:0 max:5000)

FIELD == > type 2 (number of hooks per magazine for this type of hook)

FORMAT: 1_integer "0" (threshold min:0 max:5000)

FIELD == > type 3 (number of hooks per magazine for this type of hook)

FORMAT: 1_integer "0" (threshold min:0 max:5000)

space between hooks:

FIELD == > type 1 (space between hooks for this type of hook)

FORMAT: 2_décimal "0.0" (threshold min:0 max:90)

FIELD == > type 2 (space between hooks for this type of hook)

FORMAT: 2_décimal "0.0" (threshold min:0 max:90)

FIELD == > type 3 (space between hooks for this type of hook)

FORMAT: 2_décimal "0.0" (threshold min:0 max:90)

snood color:

FIELD == > type 1 (color of snoods for this type of hooks)

FORMAT: "General" (REFERENCE: couleur_avancon)

FIELD == > type 2 (color of snoods for this type of hooks)

FORMAT: "General" (REFERENCE: couleur_avancon)

FIELD == > type 3 (color of snoods for this type of hooks)

FORMAT: "General" (REFERENCE: couleur_avancon)

snood length in m:

FIELD == > type 1 (length of snoods for this type of hooks)

FORMAT: 2_décimal "0.0" (threshold min:0 max:90)

FIELD == > type 2 (length of snoods for this type of hooks)

FORMAT: 2_décimal "0.0" (threshold min:0 max:90)

FIELD == > type 3 (length of snoods for this type of hooks)

FORMAT: 2_décimal "0.0" (threshold min:0 max:90)

integrated weight or not:

FIELD == > type 1 (IW or not for this type of hooks)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > type 2 (IW or not for this type of hooks)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > type 3 (IW or not for this type of hooks)

FORMAT: "General" (REFERENCE: oui_non)

if IW: grams per meters:

FIELD == > type 1 (if IW; how many grams per meters?)

FORMAT: 2_décimal "0.0" (threshold min:0 max:200)

FIELD == > type 2 (if IW; how many grams per meters?)

FORMAT: 2_décimal "0.0" (threshold min:0 max:200)

FIELD == > type 3 (if IW; how many grams per meters?)

FORMAT: 2_décimal "0.0" (threshold min:0 max:200)

Brickle:

FIELD == > buoy ligne (define location)

FORMAT: "General" (REFERENCE: rideau_espacement_bouées)

FIELD == > number of buoys (report number if present)

FORMAT: 1_integer "0" (threshold min:0 max:200)

FIELD == > length of the curtain in meters

FORMAT: 2_décimal "0.0" (threshold min:0 max:200)

FIELD == > presence of a net (yes/no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > height of the net in meters

FORMAT: 2_décimal "0.0" (threshold min:0 max:200)

FIELD == > distance between ship and buoys in meters (distance at the level of the ligne getting out of the water)

FORMAT: 2_décimal "0.0" (threshold min:0 max:200)

FIELD == > curtain fix (number of outriggers)

FORMAT: 2_décimal "0.0" (threshold min:0 max:200)

FIELD == > is the curtain closed to reach the ship (in front, in the back or both)

FORMAT: "General" (REFERENCE: rideau_fermeture)

FIELD == > setting of outriggers (can the outriggers be modified according to swell etc)

FORMAT: "General" (REFERENCE: rideau_tangon)

FIELD == > area covered (satistactory or not)

FORMAT: "General" (REFERENCE: rideau_couverture)

offal container:

FIELD == > position of container (free comment)

FORMAT: "@"

FIELD == > volume in m3

FORMAT: 2_décimal "0.0" (threshold min:0 max:200)

FIELD == > location of the culbert (port or starbord side)

FORMAT: "General" (REFERENCE: navire_bord)

FIELD == > sufficient capacity? (is it sufficient for any amount of production or only medium or only small)

FORMAT: "General" (REFERENCE: cuve_capacité)

FIELD == > meal (yes or no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > information on meal (efficient, not efficient, efficient if production is not too big)

FORMAT: "@"

5.1.33 TABLE 33 "Dechets" (waste disposal)

fishing gear:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

snoods:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

snoods and hooks:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

hooks in offals etc:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

weight and anchor:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

section of fishing line:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

buoy:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

tory line:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

rope:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

déchets du bord:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

gally organic offals:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

gally not organic offals:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

plastic bags:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

feuillard:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

métal verre bouteilles:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

Metal/Glass/Bottles:

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

papier carton:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

huile:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

eaux usées:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

Polystyrene etc.:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

cendres d'incinérations:

FIELD == > lost

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > thrown away

FORMAT: "General" (REFERENCE: rejet_dechets)

FIELD == > kept onboard

FORMAT: "General" (REFERENCE: rejet_dechets)

5.1.34 TABLE 34 "TRAIT" (setting and hauling of trawl)

FIELD == > fishing event number

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > research or commercial

FORMAT: "General" (REFERENCE: recherche_commercial)

FIELD == > Fish finder used (Y/N)

FORMAT: "General" (REFERENCE: oui_non)

début filage:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

.:

FIELD == > bottom depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > Net binding used when shooting (Y/N)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > cleaning of trawl before setting

FORMAT: "General" (REFERENCE: nettoyage)

FIELD == > setting speed

FORMAT: 2_décimal "0.0" (threshold min:0,1 max:15)

FIELD == > date and time of trawl immersion

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > date and time when the doors enter water (for pelagic only)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

fin filage:

.:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

.:

FIELD == > bottom depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > fishing depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > offal discard during fishing

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > wind speed

FORMAT: 1_integer "0" (threshold min:0 max:120)

chalut en pêche:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

en traine:

.:

FIELD == > speed

FORMAT: 2_décimal "0.00" (threshold min:0 max:20)

FIELD == > bearing

FORMAT: "@"

FIELD == > horizontal opening

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > vertical opening

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > straight route or not

FORMAT: "General" (REFERENCE: oui_non)

Pelagic:

FIELD == > paravane yes or no

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > minimimum depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > maximum depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > average depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

début virage:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

.:

FIELD == > bottom depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > fishing depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > date and time trawl at surface

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > date and time doors out of water (pelagic)

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

fin virage:

.:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

.:

FIELD == > bottom depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > wind speed

FORMAT: 1_integer "0" (threshold min:0 max:120)

info virage:

FIELD == > offal discard during fishing

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > trawl reference

FORMAT: "General" (REFERENCE: Chalut_model)

FIELD == > ASD (fishing area) (fishing area)

FORMAT: "General" (REFERENCE: zone_peche)

sector:

FIELD == > start of setting SSMU (number of the Small Scale Management Unit)

FORMAT: "@"

FIELD == > comment

FORMAT: "@"

FIELD == > gear damages

FORMAT: "@"

FIELD == > comment

FORMAT: "@"

environmental conditions:

visual observation:

FIELD == > moon intensity

FORMAT: "General" (REFERENCE: filage_lune)

FIELD == > cloud cover (cloud cover (use scale provided))

FORMAT: "General" (REFERENCE: filage_nebulosite)

FIELD == > precipitation (precipitation during setting)

FORMAT: "General" (REFERENCE: filage_precipitation)

FIELD == > visi (visibility during setting)

FORMAT: "General" (REFERENCE: filage_visi)

wind:

FIELD == > vap (wind direction in degrees during setting)

FORMAT: 1_integer "0" (threshold min:0 max:360)

swell:

FIELD == > vap (swell direction in degrees during setting)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > height (swell height during setting)

FORMAT: 1_integer "0" (threshold min:0 max:25)

FIELD == > sea state (sea state during setting)

FORMAT: "General" (REFERENCE: filage_etat_mer)

temperature:

FIELD == > air (air temperature during setting)

FORMAT: 2_décimal "0.0" (threshold min:-20 max:45)

FIELD == > sea surface (sea temperature during setting)

FORMAT: 2_décimal "0.0" (threshold min:-10 max:35)

FIELD == > trawl sensor sea temperature

FORMAT: 2_décimal "0.0" (threshold min:-10 max:35)

FIELD == > pressure

FORMAT: 1_integer "#,##0" (threshold min:800 max:1200)

chalut:

FIELD == > time at surface

FORMAT: 5_hour "h:mm;@" (threshold min:0 max:0,999305555555556)

FIELD == > light intensity

FORMAT: "General" (REFERENCE: lumiere_chalut)

MITIGATION:

FIELD == > configuration reference

FORMAT: 1_integer "0" (threshold min:1 max:1200)

tory line:

FIELD == > functionning

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

FIELD == > comment

FORMAT: "General"

mitigation on warps:

FIELD == > comment

FORMAT: "General"

5.1.35 TABLE 35 "Schema_C" (configuration of gear on trawler)

FIELD == > Configuration

FORMAT: 1_integer "0" (threshold min:0 max:12)

mitigation system on warps:

FIELD == > type de dispositif

FORMAT: "@"

FIELD == > nombre d'éléments

FORMAT: 1_integer "0" (threshold min:0 max:12)

FIELD == > setting

FORMAT: "@"

FIELD == > around the warp

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > type of buoys

FORMAT: "@"

FIELD == > type of weighing

FORMAT: "@"

streamer line:

FIELD == > number per warp

FORMAT: 1_integer "0" (threshold min:0 max:12)

FIELD == > length without towed object

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > height were it is fixed

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > aerial extent

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > material

FORMAT: "@"

FIELD == > diameter

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > use of reel

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > comment

FORMAT: "@"

streamers:

FIELD == > number

FORMAT: 1_integer "0" (threshold min:0 max:12)

FIELD == > min length

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > max length

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > regular intervals (yes no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > max interval

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > min interval

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > material

FORMAT: "@"

FIELD == > diameter or width

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

towed object:

FIELD == > material

FORMAT: "@"

FIELD == > diameter

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > longueur du trainard (m)

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > weight (kg)

FORMAT: 2_décimal "0.0" (threshold min:0 max:1000)

FIELD == > type of weight

FORMAT: "@"

5.1.36 TABLE 36 "mortalité_C" (marine mammals and bird incidental bycatch)

FIELD == > fishing event observed

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > location of interaction

FORMAT: "General" (REFERENCE: lieu_impact_chalut)

FIELD == > species

FORMAT: "General" (REFERENCE: espece_oiso_mort)

FIELD == > observed (yes no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > when did the capture occured

FORMAT: "General" (REFERENCE: chalut_activite_capture)

FIELD == > state when released

FORMAT: "General" (REFERENCE: Chalut_piaf_mamm_etat)

FIELD == > cause of injury

FORMAT: "General" (REFERENCE: Chalut_blessure_cause)

FIELD == > sample retained (yes no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > type of sample

FORMAT: "General" (REFERENCE: Chalut_piaf_echantillon)

FIELD == > sample number

FORMAT: "General"

FIELD == > bird band (yes no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > band number

FORMAT: "General"

FIELD == > comment

FORMAT: "General"

5.1.37 TABLE 37 "Chalut" (description of different trawls used)

FIELD == > fishing event number

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > type of trawl

FORMAT: "General" (REFERENCE: Chalut_type)

FIELD == > Headrope Length (m)

FORMAT: 1_integer "0" (threshold min:1 max:1000)

FIELD == > Groundrope Length (m)

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > Bobbin Diameter (cm)

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > Ottorboard to wing length (m)

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > horizontal opening

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > vertical opening

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > weighing

FORMAT: "General"

FIELD == > floating configuration

FORMAT: "General"

Codend Mesh:

FIELD == > size in cm

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > size of mesh

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > Orientation

FORMAT: "General"

doors:

FIELD == > Type

FORMAT: "General"

FIELD == > weight in kg

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > description

FORMAT: "General"

5.1.38 TABLE 38 "mortalité_C_obs" (collision observed during towing)

FIELD == > fishing event reference

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > date and time of observation start

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > date and time of observation end

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

nombre de collisions:

Albatross:

FIELD == > water

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > sea

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > immersion

FORMAT: 1_integer "0" (threshold min:0 max:1000)

giant petrel:

FIELD == > water

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > sea

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > immersion

FORMAT: 1_integer "0" (threshold min:0 max:1000)

white chinned petrel:

FIELD == > water

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > sea

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > immersion

FORMAT: 1_integer "0" (threshold min:0 max:1000)

other:

FIELD == > water

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > sea

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > immersion

FORMAT: 1_integer "0" (threshold min:0 max:1000)

seabird abundance:

FIELD == > bird presence (yes no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > number of individuals

FORMAT: 1_integer "0" (threshold min:0 max:10000)

information on fishing event:

FIELD == > arerial extend of warps

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > warps in line with route of the boat (yes no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > bearing of warps

FORMAT: "General" (REFERENCE: direction_fune)

FIELD == > bearing change during towing

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > bearing changes (starbord, port)

FORMAT: "General" (REFERENCE: Chalut_virage)

factory discard during observation:

FIELD == > minced?

FORMAT: "General" (REFERENCE: Chalut_rejet)

FIELD == > partly not minced?

FORMAT: "General" (REFERENCE: Chalut_rejet)

FIELD == > all fish?

FORMAT: "General" (REFERENCE: Chalut_rejet)

FIELD == > liquid offals?

FORMAT: "General" (REFERENCE: Chalut_rejet)

bird incursion in danger area:

FIELD == > white chinned petrel

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > cape pigeon

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > giant petrels

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > black browed albatross

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > grey headed albatross

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > wandering albatross

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > other

FORMAT: 1_integer "0" (threshold min:0 max:1000)

FIELD == > comment

FORMAT: "General"

5.1.39 TABLE 39 "VME_1" (segment observation)

FIELD == > LL number (fishing event ref number)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > LL segment (number of the segment on the line)

FORMAT: 1_integer "0" (threshold min:0 max:200)

FIELD == > volume (use drop down menu)

FORMAT: "General" (REFERENCE: VME_volume)

FIELD == > sampling strategy (is the sampling strategy random or not)

FORMAT: "General" (REFERENCE: echantillonnage)

middle point of the segment:

latitude:

FIELD == > deg (degrees of latitude, no need to enter the minus sign)

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min (minutes of latitude, deux digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg (degrees of longitude, always positive)

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min (minutes of longitude, two digits)

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth (depth as read on the fish finder, in meters, no negative sign)

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

segment observation:

FIELD == > number of VME per bucket

FORMAT: 1_integer "0" (threshold min:0 max:200)

CM 22-07 data:

FIELD == > volume (Total volume (litre)
of organisms that can be placed in a
10-litre container)

FORMAT: 2_décimal "00.00" (threshold min:0 max:100)

FIELD == > weight (kg) (Total weight (kg)
of organisms that do not fit into a 10-litre container)

FORMAT: 2_décimal "00.00" (threshold min:0 max:100)

FIELD == > indicator units (VME
indicator units (sum of total volume + total weight))

FORMAT: 2_décimal "00.00" (threshold min:0 max:100)

FIELD == > comment (comments)

FORMAT: "General"

5.1.40 TABLE 40 "VME_2" (segment containt)

FIELD == > LL number (fishing event ref number)

FORMAT: 1_integer "0" (threshold min:0 max:500)

FIELD == > LL segment (segment number on the line)

FORMAT: 1_integer "0" (threshold min:0 max:200)

FIELD == > taxa (including non VME)

FORMAT: "General" (REFERENCE: VME_taxon)

FIELD == > number

FORMAT: 1_integer "0" (threshold min:0 max:200)

FIELD == > weight (kg)

FORMAT: 2_décimal "00.00" (threshold min:0 max:100)

FIELD == > volume (liters)

FORMAT: 2_décimal "00.00" (threshold min:0 max:100)

FIELD == > photos

FORMAT: "General"

5.1.41 TABLE 41 "op_peche" (fishing event in Stpaul_Ams multiple gear configuration)

FIELD == > island

FORMAT: "General" (REFERENCE: ile)

FIELD == > date

FORMAT: 4_date "ddd dd/mm/yy" (threshold min:34700 max:54789)

FIELD == > morning or after noon

FORMAT: "" (REFERENCE: matin_pm)

FIELD == > ship

FORMAT: "" (REFERENCE: embarcations)

FIELD == > target

FORMAT: "" (REFERENCE: cible)

start:

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

end:

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > fishing gear used

FORMAT: "" (REFERENCE: technique_stp_ams)

effort:

FIELD == > set

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > hauled

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > unit

FORMAT: "" (REFERENCE: unite_effort_stp_ams)

orcas:

FIELD == > presence

FORMAT: "General" (REFERENCE: presence_absence)

FIELD == > depredation

FORMAT: "General"

FIELD == > photos available

FORMAT: "General"

FIELD == > comment

FORMAT: "General"

FIELD == > local name

FORMAT: "" (REFERENCE: lieu_dit_stpaul_ams)

FIELD == > date and time start setting

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

5.1.42 TABLE 42 "session" (biological session)

FIELD == > session reference number

FORMAT: ""

FIELD == > island

FORMAT: "General" (REFERENCE: ile)

FIELD == > local name

FORMAT: "" (REFERENCE: lieu_dit_stpaul_ams)

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

FIELD == > ship where measures occured

FORMAT: "" (REFERENCE: embarcations)

FIELD == > ship where source of measure is coming from

FORMAT: "" (REFERENCE: embarcations)

FIELD == > target

FORMAT: "" (REFERENCE: cible)

FIELD == > gear

FORMAT: "" (REFERENCE: technique_stp_ams)

start:

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

end:

latitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:89)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:59,99)

longitude:

FIELD == > deg

FORMAT: 1_integer "0" (threshold min:0 max:180)

FIELD == > min

FORMAT: 2_décimal "00.00" (threshold min:0 max:180)

FIELD == > depth

FORMAT: 1_integer "#,##0" (threshold min:0 max:10000)

FIELD == > aim (otoliths, measures, observations, tagging…)

FORMAT: "" (REFERENCE: but_session)

FIELD == > comment

FORMAT: "General"

5.1.43 TABLE 43 "embarcation" (small ship in the SaintPaul_Ams fishing configuration)

FIELD == > small ship type

FORMAT: "" (REFERENCE: embarcations)

FIELD == > skipper

FORMAT: "General"

5.1.44 TABLE 44 "palan" (assesment of the catch delivered to the mother boat)

FIELD == > date

FORMAT: 4_date "ddd dd/mm/yy" (threshold min:34700 max:54789)

FIELD == > morning or after noon

FORMAT: "" (REFERENCE: matin_pm)

FIELD == > ship

FORMAT: "" (REFERENCE: embarcations)

FIELD == > gear used

FORMAT: "" (REFERENCE: technique_stp_ams)

FIELD == > weight (kg)

FORMAT: 2_décimal "0" (threshold min:0 max:10000)

FIELD == > sorted (yes no)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > comment

FORMAT: "General"

5.1.45 TABLE 45 "perte" (setting and hauling of pots)

FIELD == > date (date de la perte)

FORMAT: 4_date "ddd dd/mm/yy" (threshold min:34700 max:54789)

FIELD == > source ship (quel est le navire source? Austral, caseyeur, doris…)

FORMAT: "" (REFERENCE: embarcations)

FIELD == > number of pots set (quel est l'effort de pêche pour le filage)

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > number of pots hauled (quel est l'effort de pêche pour le virage)

FORMAT: 1_integer "0" (threshold min:0 max:10000)

FIELD == > comment on lost pots (informations en cas de perte)

FORMAT: "General"

FIELD == > comment on lost pots location (informations sur la localisation en cas de perte)

FORMAT: "General"

FIELD == > morning or after noon (mettre l'ordre sous forme 1/2/3/4)

FORMAT: "" (REFERENCE: matin_pm)

5.1.46 TABLE 46 "inventaire" (inventory of pots on board)

FIELD == > type of pot (quel type exact de casier, y compris les modifications de trappes d'échappement etc)

FORMAT: "" (REFERENCE: type_casier)

FIELD == > number before start of fishing (nombre compté au départ avant la mise en pêche)

FORMAT: 1_integer "0" (threshold min:0 max:100000)

FIELD == > number after end of fishing (nombre compté après la fin de pêche)

FORMAT: 1_integer "0" (threshold min:0 max:100000)

FIELD == > comment (commentaires éventuels sur les pertes ou autre)

FORMAT: "General"

5.1.47 TABLE 47 "mortalité_C_obs2" (bird and marine mammals observation during setting and hauling of trawl)

FIELD == > trawl number (numéro utilisé dans la feuille trait)

FORMAT: 1_integer "0" (threshold min:1 max:1000)

FIELD == > period observed (filage, virage)

FORMAT: "General" (REFERENCE: fil_vir)

part of gear observed:

FIELD == > splices (est ce que cette partie a été observée oui ou non)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > panneaux (est ce que cette partie a été observée oui ou non)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > trawl at surface (est ce que cette partie a été observée oui ou non)

FORMAT: "General" (REFERENCE: oui_non)

FIELD == > location of observation (depuis quel endroit l'observation a-t-elle été faite)

FORMAT: "General"

FIELD == > comment (free comment)

FORMAT: "General"

5.1.48 TABLE 48 "setting_obs" (setting observations)

FIELD == > Set Number

FORMAT: 1_integer "0" (threshold min:0 max:6000)

Observation 1:

Start:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

End:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

Observation 2:

Start:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

End:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

Observation 3:

Start:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

End:

FIELD == > date time

FORMAT: 4_date "ddd dd/mm/yy hh:mm" (threshold min:34700 max:54789)

Alterations to Line setting :

Alteration No. 1:

FIELD == > Time (hh:mm)

FORMAT: 5_hour "h:mm;@" (threshold min:0 max:0,999305555555556)

FIELD == > Course (degrees)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > Wind direction (degrees)

FORMAT: 1_integer "0" (threshold min:0 max:360)

Alteration No. 2:

FIELD == > Time (hh:mm)

FORMAT: 5_hour "h:mm;@" (threshold min:0 max:0,999305555555556)

FIELD == > Course (degrees)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > Wind direction (degrees)

FORMAT: 1_integer "0" (threshold min:0 max:360)

Alteration No. 3:

FIELD == > Time (hh:mm)

FORMAT: 5_hour "h:mm;@" (threshold min:0 max:0,999305555555556)

FIELD == > Course (degrees)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > Wind direction (degrees)

FORMAT: 1_integer "0" (threshold min:0 max:360)

Alteration No. 4:

FIELD == > Time (hh:mm)

FORMAT: 5_hour "h:mm;@" (threshold min:0 max:0,999305555555556)

FIELD == > Course (degrees)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > Wind direction (degrees)

FORMAT: 1_integer "0" (threshold min:0 max:360)

FIELD == > Percentage hooks baited

FORMAT: 2_décimal "0%" (threshold min:0 max:1)

5.2 REFERENCES USED IN TABLES

REFERENCE: "espece_oiso" content: (espèces oiseaux comptage, la plus exhaustive) albatros à bec jaune, albatros à sourcils noirs, albatros à tête grise, albatros d'Amsterdam, albatros de Salvin, albatros fuligineux à dos clair, albatros fuligineux à dos sombre, albatros fuligineux sp, albatros royal, albatros sp, albatros timide, bec en fourreau de Kerguelen, cormoran de Kerguelen, damier du Cap, fulmar antarctique, gorfou macaroni, gorfou sauteur subantarctique, gorfou sauteur subtropical, gorfou sp, grand albatros, manchot à jugulaire, manchot Adélie, manchot empereur, manchot papou, manchot royal, manchot sp, pétrel à menton blanc, pétrel à tête blanche, pétrel antarctique, pétrel bleu, pétrel de Kerguelen, pétrel des neiges, pétrel géant (les deux espèces confondues), pétrel géant antarctique, pétrel géant antarctique phase blanche, pétrel géant subantarctique, pétrel gris, pétrel noir, pétrel plongeur commun, pétrel plongeur de Géorgie du sud, pétrel plongeur sp., pétrel soyeux austral, pétrel tempête à croupion gris, pétrel tempête à ventre blanc, pétrel tempête à ventre noir, pétrel tempête de Wilson, pétrel tempête sp., prion de Belcher, prion de la Désolation, prion de Macgillivray, prion de Salvin, prion sp, puffin à pieds pâles, puffin fuligineux, puffin majeur, skua antarctique, skua subantarctique, sterne sp, Thalassarche chlororhynchos, Thalassarche melanophrys, Thalassarche chrysostoma, Diomedea amsterdamensis, Thalassarche salvini, Phoebetria palpebrata, Phoebetria fusca, Phoebetria sp., Diomedea epomophora or sanfordi, Diomedeidae, Thalassarche cauta cauta, Chionis minor minor, Phalacrocorax verrucosus, Daption capense, Fulmarus glacialoides, Eudyptes chrysolophus, Eudyptes chrysocome, Eudyptes chrysocome moseleyi, Eudyptes sp., Diomedea exulans, Pygoscelis antarctica, Pygoscelis adeliae, Aptenodytes forsteri, Pygoscelis papua, Aptenodytes patagonicus, Spheniscidae, Procellaria aequinoctialis, Pterodroma lessoni, Thalassoica antarctica, Halobaena caerulea, Lugensa brevisrostris, Pagodroma nivea, Macronectes sp., Macronectes giganteus, Macronectes giganteus, Macronectes halli, Procellaria cinerea, Pterodroma macroptera, Pelecanoïdes urinator, Pelecanoïdes georgicus, Pelecanoïdes sp., Pterodroma mollis dubia, Garodia nereis, Fregetta grallaria, Fregetta tropica, Oceanites oceanicus, Oceanitidae, Pachyptila belcheri, Pachyptila desolata, Pachyptila salvini macgillivrayi, Pachyptila salvini, Pachyptila sp., Puffinus carneipes, Puffinus griseus, Puffinus gravis, Catharacta maccormicki, Catharacta lönnbergi,

REFERENCE: "espece_divers" content: (espèces pour les obs du vivant) benthos ND, benthos total, lèvres de légine, lèvres de raie, tête de grenadier, tête de légine, Antimora rostrata, Macrourus sp., Dissostichus eleginoides, Lampris immaculatus, Bathyraja eatonii, Bathyraja eatonii+irrasa, Bathyraja irrasa, Amblyraja taaf, Somniosus antarcticus, Lamna nasus, nouvelle raie grise, raie grise lisse, raie grise rugueuse, Centroscymnus sp., Lepidion sp., Etmopterus sp., Muraenolepis sp., Bathyraja murrayi, poisson ND, Bassanago sp., Helicolenus sp., Hydrolagus sp., Pseudotriakis

microdon, Squalus sp., Zameus squamulosus, Nemadactylus monodactylus, Polyprion sp., Polyprion oxygeneios, Seriola lalandi, Mora moro, Helicolenus mouchezi, Cirrhigaleus asper, Plagiogeneion rubiginosum, Hyperoglyphe antarctica, Serranus novemcinctus, Latris lineata, Thyrsites atun, Schedophilus ovalis, Beryx sp., Centriscops humerosus, Chimaera sp., Emmelichthys nitidus nitidus, Mendosoma lineatum, Pleuroscopus pseudodorsalis, Synchiropus phasis, Torpedo macneilli, Genypterus capensis, Scomberesox saurus, Beryx decadactylus, Beryx splendens, Centrolophus niger, Polyprion americanus, Diretmichthys parini, Chauliodus sloani, Brama brama, Benthodesmus elongatus, Trachyscorpia eschmeyeri, Helicolenus dactylopterus, Isurus oxyrinchus, Thunnus maccoyii, Aldrovandia affinis, Aldrovandia phalacra, Allocyttus verrucosus, Argyropelecus gigas, Barbourisia rufa, Bathypterois perceptor, Bathysaurus ferox, Bovichtus veneris, Brotulotaenia crassa, Chaunacops coloratus, Cubiceps caeruleus, Cyttus traversi, Epigonus robustus, Evermannella balbo, Lepidoperca coatsii, Tetragonurus cuvieri, Tubbia tasmanica, Achiropsetta tricholepis, Avocettina paucipora, Careproctus crozetensis, Careproctus discoveryae, Channichthys mithridatis, Channichthys panticapaei, Channichthys rugosus, Chionobathyscus dewitti, Coryphaenoides carapinus, Coryphaenoides fernandezianus, Coryphaenoides lecointei, Etmopterus viator, Harpagifer crozetensis, Macroparalepis macrogeneion, Macrourus caml, Macrourus whitsoni, Malacosteus niger, Maurolicus muelleri, Melamphaes microps, Nannobrachium atrum, Paraliparis copei wilsoni, Paraliparis wolffi, Pogonophryne stewarti, Protomyctophum normani, Spectrunculus grandis, Genypterus blacodes, Squalus acanthias, Centroscyllium fabricii, Nansenia antarctica, Pseudocyttus maculatus, Allocyttus niger, Echiodon cryomargarites, Notolepis annulata, Notolepis coatsi, Magnisudis prionosa, Arctozenus risso, Bathydraco antarcticus, Notothenia cyanobrancha, Notothenia neglecta, Paranotothenia magellanica, Notothenia rossii, Notothenia coriiceps, Gobionotothen acuta, Lepidonotothen mizops, Gobionotothen marionensis, Nototheniops larseni, Trematomus scotti, Trematomus loennbergii, Trematomus bernacchii, Trematomus newnesi, Pagothenia brachysoma, Zanclorhynchus spinifer, Narcetes stomias, Alepocephalus antipodianus, Lepidonotothen squamifrons, Ebinania macquariensis, Pseudochaenichthys georgianus, Cyclothone microdon, Idiacanthus atlanticus, Trigonolampa miriceps, Diastobranchus capensis, Histiobranchus bathybius, Paradiplospinus antarcticus, Paradiplospinus gracilis, Electrona risso, Icichthys australis, Muraenolepis orangiensis, Muraenolepis marmorata, Notomuraenobathys microcephalus, Muraenolepis microcephalus, Muraenolepis microps, Bathylagichthys australis, Bathylagus tenuis, Pseudoscopelus altipinnis, Chiasmodon niger, Diplophos rebainsi, Lepidion schmidti, Ceratias tentaculatus, Channichthys velifer, Gymnoscopelus bolini, Neoachiropsetta milfordi, Channichthys rhinoceratus, Chaenocephalus aceratus, Chaenodraco wilsoni, Chionodraco rastrospinosus, Macrourus carinatus, Macrourus holotrachys, Coryphaenoides filicauda, Coryphaenoides armatus, Coryphaenoides ferrieri, Cynomacrurus piriei, Eleginops maclovinus, Somniosus pacificus, Somniosus microcephalus, Geotria australis, Alepisaurus brevirostris, Alepisaurus ferox, Lampichthys procerus, Metelectrona ventralis, Krefftichthys anderssoni, Electrona antarctica, Electrona carlsbergi, Electrona paucirastra, Gymnoscopelus piabilis, Gymnoscopelus braueri, Gymnoscopelus fraseri, Gymnoscopelus nicholsi, Gymnoscopelus microlampas, Gymnoscopelus hintonoides, Protomyctophum choriodon, Protomyctophum gemmatum, Protomyctophum tenisoni, Protomyctophum andriashevi, Protomyctophum bolini, Protomyctophum luciferum, Protomyctophum parallelum, Electrona subaspera, Nannobrachium achirus, Lampadena speculigera, Diaphus hudsoni, Borostomias antarcticus, Astronesthes psychrolutes, Dissostichus mawsoni, Paraliparis operculosus, Paraliparis obliquosus, Paraliparis thalassobathyalis, Paraliparis duhameli, Paraliparis copei kerguelensis, Paraliparis neelovi, Paraliparis gracilis, Halosauropsis macrochir,

Lycodapus antarcticus, Melanostigma vitiazi, Melanostigma gelatinosum, Sio nordenskjoldii, Poromitra crassiceps, Lycenchelys hureaui, Mancopsetta maculata, Melanonus gracilis, Micromesistius australis, Merluccius australis, Scopelosaurus hamiltoni, Luciosudis normani, Notophycis marginata, Lepidion ensiferus, Halargyreus johnsonii, Guttigadus kongi, Pseudophycis bachus, Patagonotothen ramsayi, Lampris guttatus, Centroscymnus coelolepis, Benthalbella macropinna, Benthalbella elongata, Pseudomancopsetta andriashevi, Harpagifer kerguelensis, Harpagifer spinosus, Champsocephalus gunnari, Stomias boa boa, Stomias gracilis, Anotopterus vorax, Polyacanthonotus challengeri, Notacanthus chemnitzii, Bathyraja maccaini, Hexanchus griseus, Etmopterus granulosus, Etmopterus lucifer, Gasterochisma melampus, Acanthodraco dewitti, Aethotaxis mitopteryx mitopteryx, Aethotaxis mitopteryx pawsoni, Akarotaxis nudiceps, Amblyraja georgiana, Apagesoma australis, Argyropelecus affinis, Argyropelecus hemigymnus, Argyropelecus olfersii, Artedidraco glareobarbatus, Artedidraco lonnbergi, Artedidraco mirus, Artedidraco orianae, Artedidraco shackletoni, Artedidraco skottsbergi, Astronesthes illuminatus, Barbapellis pterygalces, Bathydraco joannae, Bathydraco macrolepis, Bathydraco marri, Bathydraco scotiae, Bathylagus antarcticus, Bathylagus gracilis, Bathylagus niger, Bathylutichthys taranetzi, Bathyonus pectoralis, Bathypterois oddi, Bathyraja griseocauda, Bathyraja meridionalis, Bathyraja smithii, Bellingshausenia olasoi, Bentartia cinerea, Bothrocara molle, Bovichtus chilensis, Careproctus acifer, Careproctus aculeolatus, Careproctus ampliceps, Careproctus catherinae, Careproctus continentalis, Careproctus credispinulosus, Careproctus eltaninae, Careproctus fedorovi, Careproctus georgianus, Careproctus guillemi, Careproctus improvisus, Careproctus inflexidens, Careproctus lacmi, Careproctus longipectoralis, Careproctus parini, Careproctus parviporatus, Careproctus polarsterni, Careproctus profundicola, Careproctus pseudoprofundicola, Careproctus rimiventris, Careproctus sandwichensis, Careproctus scaphopterus, Careproctus steini, Careproctus tricapitidens, Careproctus vladibeckeri, Ceratias holboelli, Ceratoscopelus warmingii, Champsocephalus esox, Channichthys normani, Chionodraco hamatus, Chionodraco myersi, Coelorinchus fasciatus, Coelorinchus kaiyomaru, Coelorinchus marinii, Coryphaenoides hextii, Coryphaenoides sp., Cryodraco antarcticus, Cryodraco atkinsoni, Cryodraco pappenheimi, Cryothenia amphitreta, Cryothenia peninsulae, Cryptopsaras couesii, Cyclothone acclinidens, Cyclothone alba, Cyclothone braueri, Cyclothone kobayashii, Cyclothone pallida, Cyclothone pseudopallida, Cygnodraco mawsoni, Dacodraco hunteri, Derichthys serpentinus, Diaphus meadi, Diaphus ostenfeldi, Diceratias pileatus, Dicrolene introniger, Dieidolycus leptodermatus, Dolloidraco longedorsalis, Edentoliparis terraenovae, Eurypharynx pelecanoides, Flagellostomias boureei, Galaxias maculatus, Genioliparis kafanovi, Genioliparis lindbergi, Gerlachea australis, Gigantactis elsmani, Gigantactis meadi, Gobionotothen angustifrons, Gobionotothen barsukovi, Gobionotothen gibberifrons, Gosztonyia antarctica, Gvozdarus balushkini, Gvozdarus svetovidovi, Gymnodraco acuticeps, Gymnoscopelus opisthopterus, Gyrinomimus andriashevi, Gyrinomimus grahami, Harpagifer andriashevi, Harpagifer antarcticus, Harpagifer bispinis, Harpagifer georgianus, Harpagifer macquariensis, Harpagifer nybelini, Helcogrammoides antarcticus, Helicolenus percoides, Hintonia candens, Histiodraco velifer, Holcomycteronus brucei, Holtbyrnia anomala, Hygophum hanseni, Idiacanthus fasciola, Iluocoetes fimbriatus, Kali indica, Kathetostoma laeve, Labichthys yanoi, Lampanyctus alatus, Lampanyctus australis, Lampanyctus intricarius, Lampanyctus macdonaldi, Lampanyctus pusillus, Lepidion microcephalus, Lindbergichthys nudifrons, Lycenchelys antarctica, Lycenchelys aratrirostris, Lycenchelys argentina, Lycenchelys bellingshauseni, Lycenchelys nanospinata, Lycenchelys nigripalatum, Lycenchelys tristichodon, Lycenchelys wilkesi, Lycenchelys xanthoptera, Lycodapus pachysoma, Lycodichthys antarcticus, Lycodichthys dearborni,

Macroparalepis affinis, Malacocephalus laevis, Maurolicus mulleri, Melanocetus rossi, Muraenolepis evseenkoi, Muraenolepis kuderskii, Muraenolepis pacifica, Nemadactylus macropterus, Nemichthys scolopaceus, Neopagetopsis ionah, Notocetichthys trunovi, Notoliparis kurchatovi, Notoscopelus resplendens, Notothenia microlepidota, Nototheniops nybelini, Oidiphorus mcallisteri, Oneirodes notius, Ophthalmolycus amberensis, Ophthalmolycus andersoni, Ophthalmolycus bothriocephalus, Ophthalmolycus eastmani, Acantholatris monodactylus, Ophthalmolycus polylepis, Pachycara brachycephalum, Pachycara cousinsi, Pachycara goni, Pachycara priedei, Pagetopsis macropterus, Pagetopsis maculatus, Pagothenia borchgrevinki, Parachaenichthys charcoti, Parachaenichthys georgianus, Paraliparis acutidens, Paraliparis alius, Paraliparis amerismos, Paraliparis andriashevi, Paraliparis antarcticus, Paraliparis aspersus, Paraliparis balgueriasi, Paraliparis camilarus, Paraliparis caninus, Paraliparis cerasinus, Paraliparis charcoti, Paraliparis copei gibbericeps, Paraliparis devriesi, Paraliparis diploprora, Paraliparis ekaporus, Paraliparis epacrognathus, Paraliparis fuscolingua, Paraliparis haploporus, Paraliparis hureaui, Paraliparis incognita, Paraliparis kocki, Paraliparis kreffti, Paraliparis leobergi, Paraliparis leucogaster, Paraliparis leucoglossus, Paraliparis longicaecus, Paraliparis macrocephalus, Paraliparis macropterus, Paraliparis magnoculus, Paraliparis mawsoni, Paraliparis meganchus, Paraliparis mentikoilon, Paraliparis monoporus, Paraliparis nigrolineatus, Paraliparis nullansa, Paraliparis orbitalis, Paraliparis orcadensis, Paraliparis parviradialis, Paraliparis plicatus, Paraliparis porcus, Paraliparis posteroporus, Paraliparis rossi, Paraliparis somovi, Paraliparis stehmanni, Paraliparis tangaroa, Paraliparis tetrapteryx, Paraliparis tompkinsae, Paraliparis trilobodon, Paraliparis valentinae, Paraliparis voroninorum, Paranotothenia dewitti, Parapercis colias, Patagonotothen brevicauda brevicauda, Patagonotothen brevicauda shagensis, Patagonotothen cornucola, Patagonotothen elegans, Patagonotothen guntheri, Patagonotothen kreffti, Patagonotothen sima, Patagonotothen squamiceps, Patagonotothen tessellata, Phosichthys argenteus, Plesienchelys stehmanni, Pleuragramma antarctica, Pogonophryne albipinna, Pogonophryne barsukovi, Pogonophryne bellingshausenensis, Pogonophryne brevibarbata, Pogonophryne cerebropogon, Pogonophryne dewitti, Pogonophryne eakini, Pogonophryne fusca, Pogonophryne immaculata, Pogonophryne lanceobarbata, Pogonophryne macropogon, Pogonophryne marmorata, Pogonophryne mentella, Pogonophryne neyelovi, Pogonophryne orangiensis, Pogonophryne permitini, Pogonophryne platypogon, Pogonophryne scotti, Pogonophryne squamibarbata, Pogonophryne tronio, Pogonophryne ventrimaculata, Poromitra atlantica, Praematoliparis anarthractae, Prionodraco evansii, Protomyctophum subparallelum, Psilodraco breviceps, Racovitzia glacialis, Rondeletia loricata, Rouleina attrita, Sagamichthys abei, Santelmoa antarctica, Santelmoa carmenae, Santelmoa elvirae, Santelmoa fusca, Scopelarchoides kreffti, Scymnodalatias albicauda, Seleniolycus laevifasciatus, Seleniolycus pectoralis, Seleniolycus robertsi, Simenchelys parasitica, Symbolophorus boops, Taaningichthys bathyphilus, Trachurus longimanus, Trematomus eulepidotus, Trematomus hansoni, Trematomus lepidorhinus, Trematomus nicolai, Trematomus pennellii, Trematomus tokarevi, Trematomus vicarius, Vinciguerria attenuata, Volodichthys parini, Vomeridens infuscipinnis, Woodsia meyerwaardeni, Xenodermichthys copei, Illex argentinus, bec céphalopode avec bulbe, bec de céphalopode, calmar ND, céphalopode ND, Cranchiidae, Illex illecebrosus, poulpe ND, Octopus vulgaris, pycnogonide, Beuroisia duhameli, Neolithodes duhameli, Pentacheles laevis, Projasus parkeri, Serolis sp., Amphipode hyperiide, Amphipode ND, Amphipode non hyperiide, Paralomis aculeata, Lithodes murrayi, crevette ND, Euphausiace ND, galathée, Isopode ND, langoustine ND, Lithode ND, Lithode sp 1, Lithode sp 2, Lithodes sp., Mysidace ND, Glyphus marsupialis, Austropenaeus nitidus, Eupasiphae gilesii, Jasus paulensis, Neognathophausia ingens, Oplophorus novaezeelandiae, baleine

à bosse, baleine bleue, baleine franche australe, cachalot, cétacé ND, dauphin à bec austral, dauphin crucigère, dauphin de Commerson, dauphin de Péron, éléphant de mer, globicéphale noir, Hyperoodon planifrons, Léopard de mer, orque, otarie, otarie à fourrure d'Amsterdam, otarie à fourrure de Kerguelen, petit rorqual, rorqual commun, albatros à bec jaune, albatros à sourcils noirs, albatros à tête grise, albatros d'Amsterdam, albatros de Salvin, albatros fuligineux à dos clair, albatros fuligineux à dos sombre, albatros fuligineux sp, albatros royal, albatros sp, albatros timide, bec en fourreau de Kerguelen, cormoran de Kerguelen, damier du Cap, fulmar antarctique, gorfou macaroni, gorfou sauteur subantarctique, gorfou sauteur subtropical, gorfou sp, grand albatros, manchot à jugulaire, manchot Adélie, manchot empereur, manchot papou, manchot royal, manchot sp, pétrel à menton blanc, pétrel à tête blanche, pétrel antarctique, pétrel bleu, pétrel de Kerguelen, pétrel des neiges, pétrel géant (les deux espèces confondues), pétrel géant antarctique, pétrel géant antarctique phase blanche, pétrel géant subantarctique, pétrel gris, pétrel noir, pétrel plongeur commun, pétrel plongeur de Géorgie du sud, pétrel plongeur sp., pétrel soyeux austral, pétrel tempête à croupion gris, pétrel tempête à ventre blanc, pétrel tempête à ventre noir, pétrel tempête de Wilson, pétrel tempête sp., prion de Belcher, prion de la Désolation, prion de Macgillivray, prion de Salvin, prion sp, puffin à pieds pâles, puffin fuligineux, puffin majeur, skua antarctique, skua subantarctique, sterne sp, Antipatharia, Actiniaria, Adamussium colbecki, Alcyonacea, Annelida, Anthoathecatae, Anthozoa, Bathylasmatidae, Brachiopoda, Bryozoa, Chemosynthetic, Chordata, Cidaroida, Cnidaria, Crinoidea, Demospongiae, Echinodermata, Echinoidea, Euryalida, Hexactinellida, Hydrozoa, Isididae, Ophiurida, Pectinidae, Pterobranchia, Scleractinia, Serpulidae, Stylasteridae, Xenophyophora, Zoanthidea, méduse, Filippovia knipovitchi, Galiteuthis glacialis, Gonatus antarcticus, Histioteuthis atlantica, Histioteuthis eltaninae, Benthoctopus gonzalezi, Graneledone thielei, Halicarcinus planatus, Opisteuthis sp., Pasiphea sp., Todarodes fillipovae, fossile, trachurus declivis, Megaptera novaeangliae, Balaenoptera musculus, Eubalaena australis, Physeter macrocephalus, Hyperoodon planifrons, Lagenorhynchus cruciger, Cephalorhynchus commersonii kerguelensis, Lissodelphis peronii, Mirounga leonina, Globicephala melas edwardii, Hydrurga leptonyx, Orcinus orca, Arctocephalus spp., Arctocephalus tropicalis, Arctocephalus gazella, Balaenoptera bonaerensis, Balaenoptera physalus, Thalassarche chlororhynchos, Thalassarche melanophrys, Thalassarche chrysostoma, Diomedea amsterdamensis, Thalassarche salvini, Phoebetria palpebrata, Phoebetria fusca, Phoebetria sp., Diomedea epomophora or sanfordi, Diomedeidae, Thalassarche cauta cauta, Chionis minor minor, Phalacrocorax verrucosus, Daption capense, Fulmarus glacialoides, Eudyptes chrysolophus, Eudyptes chrysocome, Eudyptes chrysocome moseleyi, Eudyptes sp., Diomedea exulans, Pygoscelis antarctica, Pygoscelis adeliae, Aptenodytes forsteri, Pygoscelis papua, Aptenodytes patagonicus, Spheniscidae, Procellaria aequinoctialis, Pterodroma lessoni, Thalassoica antarctica, Halobaena caerulea, Lugensa brevisrostris, Pagodroma nivea, Macronectes sp., Macronectes giganteus, Macronectes giganteus, Macronectes halli, Procellaria cinerea, Pterodroma macroptera, Pelecanoïdes urinator, Pelecanoïdes georgicus, Pelecanoïdes sp., Pterodroma mollis dubia, Garodia nereis, Fregetta grallaria, Fregetta tropica, Oceanites oceanicus, Oceanitidae, Pachyptila belcheri, Pachyptila desolata, Pachyptila salvini macgillivrayi, Pachyptila salvini, Pachyptila sp., Puffinus carneipes, Puffinus griseus, Puffinus gravis, Catharacta maccormicki, Catharacta lönnbergi,

REFERENCE: "espece_marquable" content: Antimora rostrata, Macrourus sp., Dissostichus eleginoides, Lampris immaculatus, Bathyraja eatonii, Bathyraja eatonii+irrasa, Bathyraja irrasa, Amblyraja taaf, Somniosus antarcticus, Lamna nasus, nouvelle raie grise, raie grise lisse, raie grise rugueuse, Etmopterus sp., Nemadactylus monodactylus, Polyprion sp., Polyprion oxygeneios, Latris lineata, Projasus parkeri,

REFERENCE: "sexe" content: M, F, indéterminé, non sexé,

REFERENCE: "stade" content: 1, 2, 3, 4, 5, ND,

REFERENCE: "type_palangre" content: mustad, BFG, espagnole, japonaise,

REFERENCE: "filage_rectiligne" content: rectiligne, non rectiligne,

REFERENCE: "filage_nebulosite" content: 1, 2, 3, 4, 5, 6, 7, 8,

REFERENCE: "filage_lune" content: très intense, moyennement intense, peu intense, nulle,

REFERENCE: "filage_precipitation" content: nulle, fine, moyenne, forte, neige faible, neige dense,

REFERENCE: "filage_etat_mer" content: calme, peu agitée, agitée, forte, très forte, énorme,

REFERENCE: "filage_visi" content: nulle, moins de 50 mètres, moins de 200 mètres, 1/2 mile, 1 mile, 2 à 4 miles, max,

REFERENCE: "type_lestage" content: auto-lesté, chaine de 4kg, chaine de 6 kg, chaine 10,5, chaîne de 12 kg,

REFERENCE: "hamecon" content: 4: Mustad Tuna Circle 14/0 size: 30, 5: Mustad Tuna Circle 13/0 size: 28, 44: Fiskevegn 13/0, 1: Mustad Kirby 1 size:30, 2: Mustad Kirby 3 size: 25, 3: Mustad Tuna Circle 16/0-15/0 size: 35, 4: Mustad Tuna Circle 14/0 size: 30, 5: Mustad Tuna Circle 13/0 size: 28, 6: Maguro Hollow Point 14/0 size: 28, 7: Maguro Hollow Point 12/0 size: 21, 8: Mustad Norway 6 size: 20, 9: Marutto Japan 22 size: 22, 10: Sung Woon Bokgu 2 size: 35, 11: Sung Woon Bokgu 1 size: 30, 12: Spanish Anzuelos 9/0 size: 25, 13: Sung Woon Bokgu 9/0 size: 40, 14: Mustad Curved? 15/0, 15: Russian size: 32, 16: Mustad curved 12 size: 30, 17: Mustad Hollow Point 10/0 size: 30, 18: Maguro Hollow Point 10/0, 19: Recto size: 30, 20: Encora 14/0 size: 30, 21: Mustad Unbalanced size: 28, 22: Curvo size: 25, 23: Poutada Curved 9/0 size: 23, 24: APO Straight 10/0 size: 22, 25: Stell Curved 9/0 size: 20, 26: Mustad curved 5/0 size: 20, 27: Mustad Straight size: 15, 28: Maguro Straight 9/0 size: 20, 29: Poutada Straight size: 25, 30: Mustad size: 21, 31: Maguro Straight size: 25, 32: Mustad 11/0, 33: Mustad Straight 15/0 size: 30, 34: Poutada 6/0 size: 22, 35: Mustad Straight 9/0, 36: Mustad Straight 6/0, 37: Stell curved size: 25, 38: Mustad 2/0 size: 20, 39: Mustad size: 19, 40: APO size: 25, 41: Taivan size: 26, 42: APO size: 20, 43: Fiskevegn 14/0 size: 30, 44: Fiskevegn 13/0, 45: South Korea Circle 32x65x3 30, 46: Eagle 13/0 size 15, 47: Mustad quick snap snood 13/0 size 14, 48:Mustad 20-23 with loop 14/0 size: 20 mm, 49:Fiskevegn 20-22 14/0 taille : 20 mm, 50:Fiskevegn 15/0 taille : 30 mm, 51:Fiskevegn courbe 14/0 taille : 25mm, 52:Fiskevegn droit 14/0 taille : 16mm, 53:Dykorn Ezi-Baiter 15/0 taille : 21mm, 54:MøreNot AS Snood 15/0 taille : 25mm, 59: Fiskevegn Eagle claw 15/0 taille : 20mm,

REFERENCE: "navire" content: Albius, Antarctic 1, Cap Horn, Croix du Sud, Esperance Anyo, Ile Bourbon, Ile de la Réunion, Mascareignes, Saint André, Ile de la Réunion II,

REFERENCE: "navire_acronyme" content: ALB, ANT, CAP, CK2, CRX, ESP, ILB, IDR, MAS, STA, AUS, ATL, COB, ID2,

REFERENCE: "GRT" content: (GRT correspondant au navire)

REFERENCE: "presence_absence" content: présence, absence, non obsé,

REFERENCE: "nb_de_rail_presence" content: Toute la ligne., 1, 1,5, 2, 2,5, 3, 3,5, 4, 4,5, 5, 5,5, 6, 6,5, 7, 7,5, 8, 8,5, 9, 9,5, 10, 10,5, 11, 11,5, 12, 12,5, 13, 13,5, 14, 14,5, 15, 15,5, 16, 16,5, 17, 17,5, 18, 18,5, 19, 19,5, 20, 20,5, 21, 21,5, 22, 22,5, 23, 23,5, 24, 24,5, 25, 25,5, 26, 26,5, 27, 27,5, 28, 28,5, 29, 29,5, 30, 30,5, 31, 31,5, 32, 32,5, 33, 33,5, 34, 34,5, 35, 35,5, 36, 36,5, 37, 37,5, 38, 38,5, 39, 39,5, 40, 40,5, 41, 41,5, 42, 42,5, 43, 43,5, 44, 44,5, 45, 45,5, 46, 46,5, 47, 47,5, 48, 48,5, 49, 49,5, 50,

REFERENCE: "lieu_obs_25pourcents" content: pont extérieur, bunker, passerelle, video, aileron extérieur, balcon moon pool,

REFERENCE: "etat_mort_blesse" content: mort, blessé, indemne,

REFERENCE: "accrochage" content: bec, aile, patte, cou, corps, autre et ND,

REFERENCE: "couleur_darvick_plumage" content: blanc, noir, orange, rouge, vert, bleu, bleu + rouge, jaune,

REFERENCE: "calendrier" content: 40 A quai La Réunion ou à Maurice, 50 En pêche à Ker, 51 Transit ou cape à Ker, 60 En pêche à Crozet au sud de 45°S, 61 Transit ou cape à Crozet, 62 En pêche à Crozet au nord de 45°S, 70 En pêche hors ZEE (SIOFA), 71 transit entre districts ou entre Réunion et districts (dans les deux sens), 72 pêche en zone ccamlr hors ZEE, 80 Evasan, 81 Soutage (en zone taaf), 101 en pêche à AMS, 102 en pêche à ST PAUL, 105 transit ou cape St Paul Ams, 106 assistance médicale St Paul Ams, 107 pas de pêche pour cause d'avarie,

REFERENCE: "produit" content: ailes avec peau, ailes sans peau, collier, estomac, filet avec peau, filet FOI, filet sans peau, filet sans peau sans arêtes, joues, queue, tête, noix, entier, viscères, étêté vidé avec queue, VDK écaillé, VDK non écaillé, échantillon scientifique, entière crue, entière cuite, queue cuite, queue crue, entière, éviscéré, déchet, demi langouste, chute filet,

REFERENCE: "" content: (code ccamlr produit) FLT, FLT, FLT, FLT, WHO, HAG, HGT, HGT, GUT, HAT, MEA, PLD, BOI, TEN, TUB, OTH, SEC,

REFERENCE: "" content: (détail du code ccamlr) Filleted, Filleted, Filleted, Filleted, Whole, Headed and gutted (tail not removed), Head, gut and tail removed, Head, gut and tail removed, Gutted, Head and Tail removed (viscera not removed), Mealed, Peeled (e.g. Krill), Boiled (e.g. Krill), Tentacles, Squid mantle (Tubed), Other; please describe in comments field using diagrams if necessary, Crab sections,

REFERENCE: "destination" content: mis en cale, pesé et rejeté, pesé et rejeté à cause des puces, pesé et rejeté pour pb frigo etc, rejeté en cut off sans mise à bord, mis en cale godaille, mis en cale appât, consommation du bord, donné à la base de Kerguelen, donné à la base de Crozet, donné à la base d'Amsterdam, donné à un navire, retombé à l'eau, relâché vivant sans marque,

REFERENCE: "etat_produit" content: congelé, frais,

REFERENCE: "etat_puce" content: présence faible, présence forte, présence très forte,

REFERENCE: "appat" content: BAF: boite à appat foie porc, BAH: boite KGB à huile, BAL: boite a appat avec légine broyée, BAP: boite a appat + éponge, BAS: boite a appat samba, SQQ: calmar indéterminé, CHP: sardine (Sardinops sagax), SAP: Cololabis saira, FOI: foie de bœuf, JAX: chinchard (Trachurus trachurus), KGB: huile KGB en poche, LEP: légine en poche, MAS: maquereau (Scomber japonicus), MAX: maquereau (Scomber scombrus), MIX: cal + MAS, MUS: appât reconstitué Norbait Fishbait, NA, PDB: pied de bœuf, SAR: sardine (Sardina pilchardus), SQA: Calmar (Illex argentinus), VOL: pas appât volontairement car cyalume, tête de légine, HMG: Trachurus declivis,

REFERENCE: "etat_piaf_bague" content: posé sur l'eau, en vol, tombé sur le pont, pris au virage, mort au filage,

REFERENCE: "etat_plaque_incubatrice" content: absence, peu marquée, très marquée,

REFERENCE: "etat_poisson_marquage" content: A: relâché, s'éloigne, n'est pas attaqué par des prédateurs (oiseaux, mammifères), I: relâché et attaqué par des prédateurs ou reste en surface flottant mais toujours en vie., D: mort, tué ou mangé par des prédateurs une fois relâché.,

REFERENCE: "etat_poisson_recapture" content: E (en excellent état), A (en état moyen), P (en mauvaise condition),

REFERENCE: "etat_point_marquage" content: bonne cicatrisation, cicatrisation moyenne, mauvaise cicatrisation, NA,

REFERENCE: "couleur_tag" content: jaune, rouge, orange, vert, bleu, noir, blanc, rose,

REFERENCE: "texte_recapture" content: MNHN (DPMA) Paris France, TAAF Paris, ANTARCTIC AUSTRALIA, MNHN (TAAF) Paris France, CCAMLR, SEA FISHERIES, INSTITUTO ESPANOL DE OCEANOGRAFIA, NIWA,

REFERENCE: "" content: (acronyme pour les images) MNHN, TAAF, AUST, MNHN, CAMLR, SEAF, INEO, NIWA,

REFERENCE: "texte_marquage" content: MNHN (DPMA) Paris France, TAAF Paris, MNHN (TAAF) Paris France, CCAMLR,

REFERENCE: "strategie_peche" content: changement d'endroit car avitaillement, changement d'endroit à cause des oiseaux, initiative capitaine, changement d'endroit à cause des oiseaux, imposé par l'administration, changement d'endroit car trop de petites légines, initiative du capitaine, changement d'endroit car trop de petites légines, application règlement par le copec, changement de rectangle statistique car fin de la période autorisée, changement de rectangle car captures décevantes, changement d'endroit à cause de la déprédation, changement d'endroit à cause de perte de matériel, changement d'endroit à cause d'une évacuation sanitaire, changement d'endroit car fin des réserves de carburant, changement d'endroit en raison d'un feu à bord, changement d'endroit en raison de problème mécaniques, changement d'endroit à cause d'une fermeture de la zone, changement d'endroit à cause d'une expulsion, changement d’endroit à cause de captures de prises accessoires importantes,

REFERENCE: "activite_navire" content: filage, virage, recherche bouée, avant filage, route, en traine, route avant virage,

REFERENCE: "zone_peche" content: ZEE KER, ZEE CRO sud de 45, ZEE CRO nord de 45, hors ZEE hors CCAMLR, hors ZEE dans CCAMLR, 58.4.3a, SIOFA 51, SIOFA 57, saint paul amsterdam, Amsterdam, Saint Paul, 58.4.3a, 58.4.4a, 58.4.4b, 58.4.1, 58.4.2, ZEE CRO,

REFERENCE: "ballonnage_long" content: ballonnage du aux orques - long soak to avoid KW, fuite à cause des orques , filage suivant éloigné, fuite à cause des orques , fuite à cause des orques ,

REFERENCE: "rotation" content: (sens de rotation de l'hélice) pas à droite, pas à gauche,

REFERENCE: "echantillon_type" content: sec, otolithe, alcool, congelé,

REFERENCE: "echantillon_origine" content: trouvé à l'usine, contenu stomacal, pris sur un hameçon, tombé sur le pont, pris dans un casier, pris au carrelet, pris à la ligne à main, dans chalut,

REFERENCE: "hydraulique" content: stoppé entre deux virages, en route toute la marée,

REFERENCE: "echantillonnage" content: aleatoire, non aleatoire,

REFERENCE: "IUU_element" content: navire, palangre espagnole, palangre automatique, fillet maillant, bouée, écho radar, trotline, toile de chalut,

REFERENCE: "banderoles_double_simple" content: double, simple,

REFERENCE: "couleur_avancon" content: bleu, blanc, rouge, vert,

REFERENCE: "recherche_commercial" content: R, C, R1, R2,

REFERENCE: "type_navire" content: porte_container, palangrier, longline pélagique, filleyeur, caseyeur,

REFERENCE: "filage_virage" content: filage, virage,

REFERENCE: "rejet_dechets" content: occasionnellement, toutes les semaines, tous les jours, jamais,

REFERENCE: "position_TDR_bouteille" content: W au point d'attache des lests, M à mi chemin entre deux lests, B à trois quart de la distance entre deux points,

REFERENCE: "ancre_type" content: béton coulé, ancre métal 4 branches, ancre métal 3 branches, ancre métal 2 branches, paquet roche dans filet, chaine, bout ligne autolestée de 50 mètres, ancre et chaine en alternance,

REFERENCE: "ancre_disposition" content: 2 à chaque extrémité, 1 à chaque extrémité, uniquement à l'ouest, uniquement à l'est, variable selon météo,

REFERENCE: "lest_nature" content: maillon de chaine,

REFERENCE: "matière" content: nylon, polypropylène, chanvre, PEBD, Polyoléfine,

REFERENCE: "equipement_positionnement" content: ARGOS, GLS,

REFERENCE: "rideau_fermeture" content: avant uniquement, arrière uniquement, avant et arrière,

REFERENCE: "rideau_espacement_bouées" content: irrégulier, régulier 0 à 25 cm, régulier 25 à 50 cm, régulier 50 à 75 cm, régulier 75 à 100 cm, régulier > 100 cm,

REFERENCE: "rideau_tangon" content: fixe, réglable,

REFERENCE: "rideau_couverture" content: satisfaisante, non satisfaisante,

REFERENCE: "navire_bord" content: tribord, babord,

REFERENCE: "cuve_capacité" content: ok si production faible, ok si production moyenne, ok si production élevée,

REFERENCE: "chalut_activite_capture" content: S: au filage du chalut, H: au virage, R: à la mise à bord du chalut, W: sur les funes et/ou épissures,

REFERENCE: "technique_peche" content: chalut de fond, chalut pélagique, palangre, palangre espagnole, palangre japonaise, palangre automatique,

REFERENCE: "VME_code" content: ATX, DMK, AJZ, NHE, AZN, AJH, AQZ, BWY, BVH, BZN, CXV, CZR, CVD, CNI, CWD, DMO, ECH, URX, OEQ, HXY, HQZ, OOY, SCX, PBQ, CSS, SZS, AXT, XEF, ZOT, GGW,

REFERENCE: "VME_taxon" content: Actiniaria, Adamussium colbecki, Alcyonacea, Annelida, Anthoathecatae, Anthozoa, Antipatharia, Bathylasmatidae, Brachiopoda, Bryozoa, Chemosynthetic, Chordata, Cidaroida, Cnidaria, Crinoidea, Demospongiae, Echinodermata, Echinoidea, Euryalida, Hexactinellida, Hydrozoa, Ophiurida, Pectinidae, Pterobranchia, Scleractinia, Serpulidae, Stylasteridae, Xenophyophora, Zoanthidea, Isididae,

REFERENCE: "VME_volume" content: 0 = seau vide, 1 = seau < 5 unités, 2 = seau >= 5 unités,

REFERENCE: "TAG_zone" content: ZEE KER, ZEE CRO sud de 45, ZEE CRO nord de 45, hors ZEE hors CCAMLR, hors ZEE dans CCAMLR, 58.4.3a, SIOFA, toutes zones, ZEE KER et CRO, ZEE CRO, St Paul Amsterdam,

REFERENCE: "Chalut_type" content: chalut de fond, chalut pélagique, chalut semi-pélagique,

REFERENCE: "Chalut_rejet" content: 0 = aucun, 1 = Negligeable, 2 = Intermittent, 3 = Continu,

REFERENCE: "Chalut_virage" content: babord, tribord,

REFERENCE: "Chalut_piaf_mamm_etat" content: A = Vivant, sans blessures, I = Blessé, D = Mort,

REFERENCE: "Chalut_blessure_cause" content: CG = collision avec le filet ou les funes, T = Accroché dans le filet, CV = Collision avec le navire (et non l'engin), O = Autre (décrire dans "Commentaires"),

REFERENCE: "Chalut_piaf_echantillon" content: W = oiseau entier, H = tête, L = patte, HL = tête et patte, ST = estomac,

REFERENCE: "Chalut_model" content: chalut 01, chalut 02, chalut 03, chalut 04, chalut 05, chalut 06, chalut 07, chalut 08, chalut 09, chalut 10, chalut 11, chalut 12, chalut 13, chalut 14, chalut 15, chalut 16, chalut 17, chalut 18, chalut 19, chalut 20, chalut 21, chalut 22, chalut 23, chalut 24, chalut 25, chalut 26, chalut 27, chalut 28, chalut 29, chalut 30, chalut 31, chalut 32, chalut 33, chalut 34, chalut 35, chalut 36,

REFERENCE: "rejet_ou_a_bord" content: mis à bord, rejeté en cut off sans mise à bord, retombé à l'eau, observed number released alive good health, observed number released alive average health, observed number released alive poor health, observed number released alive and seen predated, observed number released condition unknown, Number retained with tags, Number retained without tags, Number discarded dead,

REFERENCE: "virage_ballonnage" content: à cause des orques, à cause des cachalots, à cause de la météo, à cause d'un filage, à cause d'une croche, à cause des globicéphales,

REFERENCE: "biometrie_type_mesures" content: LS, LT, LA, LF, LC, CW, envergure,

REFERENCE: "zone_quota" content: ZEE KER, ZEE CRO, Amsterdam, Saint Paul, Amsterdam côtier, Amsterdam profond, Saint Paul côtier, Saint Paul profond, Saint Paul & Amsterdam, Saint Paul & Amsterdam côtier, Saint Paul & Amsterdam profond, 58.4.3a, 58.4.4, 58.4.1, 58.4.2,

REFERENCE: "position_tag" content: positionnement correct méthode CCAMLR, positionnement incorrect méthode CCAMLR,

REFERENCE: "ile" content: Saint Paul, Amsterdam, SIOFA,

REFERENCE: "matin_pm" content: 1, 2, 3, 4,

REFERENCE: "embarcations" content: canot jaune, canot verte, canot blanche, canot noire, caseyeur MAURICIEN, caseyeur PIRIOU, Austral 2, tous canots, tous caseyeurs, caseyeur ou canot,

REFERENCE: "type_embarcation" content: Canot, Caseyeur,

REFERENCE: "cible" content: langouste, poisson, poulpe,

REFERENCE: "technique_stp_ams" content: ligne à main, palangre verticale, casier, pot, carrelet, grand casier, nasse en filiere verticale, nasse en filiere horizontale,

REFERENCE: "unite_effort_stp_ams" content: heure, casier, hameçons, pots,

REFERENCE: "lieu_dit_ams" content: Banc Sud 38°15 et 77°43, Bénédicte, Cabot Bleu, Cratère Hebert, Del Cano, Eboulement, Fausse Pointe, La Cale, La Cascade, La Chapelle, La Connasse, La Plaine, La Recherche, La Vierge, Le Jardin, Le Solitaire, Le Taureau, Mammelles, Marques Jaunes, Marques Rouges, Novara, Pissotières, Ribault, Tache Blanche, Tête Lion, Vlaming, N, E, S, W, NE, SE, SW, NW, Pointe Goodenough, Pointe Hosken,

REFERENCE: "lieu_dit_stpaul" content: banc des 16 milles, banc des 45 milles, Banc Roure, Chameau, Cratère, Japonais, La Chaussée, Nord, Pingouins, La Plaine, Pointe Ouest, Pointe Sud, Pointe Sud Est ou Hutchinson, Deux frères, Ilot Nord, Pointe Roure, Pointe Schmith, Roche Milieu, Roche Nord, Roche Quille, Tas de Charbon, Verdun, N, E, S, W, NE, SE, SW, NW,

REFERENCE: "lieu_dit_stpaul_ams" content: banc des 16 milles, banc des 45 milles, Banc Roure, Banc Sud 38°15 et 77°43, Bénédicte, Cabot Bleu, Chameau, Cratère, Cratère Hebert, Del Cano, Eboulement, Deux frères, Fausse Pointe, Ilot Nord, Japonais, La Cale, La Cascade, La Chapelle, La Chaussée, La Connasse, La Plaine, La Recherche, La Vierge, Le Jardin, Le Solitaire, Le Taureau,

Mammelles, Marques Jaunes, Marques Rouges, Nord, Novara, NW, Pingouins, Pissotières, Pointe Goodenough, Pointe Hosken, Pointe Ouest, Pointe Roure, Pointe Schmith, Pointe Sud, Pointe Sud Est ou Hutchinson, Ribault, Roche Milieu, Roche Nord, Roche Quille, Tache Blanche, Tas de Charbon, Tête Lion, Verdun, Vlaming, N, E, S, W, NE, SE, SW, NW, banc Nord Est, banc des 90 milles,

REFERENCE: "calibre_langouste" content: (Nom du calibre) entière 500g - 1000 g, entière 1 kg - 1,5 kg, entière 1,5 kg - 2 kg, entière 2 kg - 3 kg, entière 3 kg - 4 kg, entière 4 kg et +, entière 151-161 g (33), entière 151-161 g (32), entière 161-172 g (30), entière 172-186 g (28), entière 186-201 g (26), entière 201-218 g (24), entière 218-239 g (22), entière 239-264 g (20), entière 264-308 g (18), entière 308-340 g (16), entière 340-387 g (14), entière 387-450 g (12), entière 450-500 g (10), entière 750-1000 g, entière 1000-1500 g, entière 1500-2000 g, entière > 2000 g, queue 50-80 g, queue 80-100 g, queue 100-150 g, queue 150-200 g, queue 200-250 g, queue 250-300 g, queue 300-350 g, queue 350-400 g, queue 400-450 g, queue 450-500 g, queue 500-550 g, queue 550-600 g, queue 600-650 g, queue 650-700 g, queue 700-750 g, queue 750-800 g, entière 150-200 2nd cat, entière 200-250 2nd cat, entière 250-300 2nd cat, entière 300-350 2nd cat, entière 350-400 2nd cat, entière 400-450 2nd cat, entière 450-500 2nd cat, entière multi calibre, queue multi calibre, demi 150-200, demi 200-250, demi 250-300, demi 300-350, demi 350-400, demi 400-450, demi 450-500,

REFERENCE: "" content: (Gamme de poids (en g)) 151-161, 151-161, 161-172, 172-186, 186-201, 201-218, 218-239, 239-264, 264-308, 308-340, 340-387, 387-450, 450-500,

REFERENCE: "" content: (Nombre de langoustes par carton de 5kg) 33, 32, 30, 28, 26, 24, 22, 20, 18, 16, 14, 12, 11,

REFERENCE: "zone_langouste" content: côtière, profonde, banc des 16 milles, banc des 90 milles, banc des 45 milles,

REFERENCE: "espece_mesure_langouste" content: Jasus paulensis, Projasus parkeri,

REFERENCE: "type_mesure_langouste" content: LC, CW,

REFERENCE: "esp_stpaul_ams" content: (nom commercial) cabot, saint paul, rouffe, bleu, sériole, pieuvre, rascasse, tazard, requin épine, rouge, rose,

REFERENCE: "type_casier" content: (type de casier) casier bois ordinaire, casier fer ordinaire, complétable, complétable, complétable, complétable, complétable,

REFERENCE: "tri_casier" content: (tri des langouste avant livraison) tri effectué à bord, aucun tri effectué,

REFERENCE: "filage_engin" content: (engin si casier etc au filage) casier, palangre automatique,

REFERENCE: "but_session" content: (finalité de la session biologique st paul ams) Biométrie aléatoire, Biométrie non aléatoire, Coefficient, Echantillon, Marquage, Recapture, Obs opportuniste, benthos,

REFERENCE: "nettoyage" content: totalement, partiellement, pas du tout,

REFERENCE: "lumiere_chalut" content: réduite, non réduite, forte,

REFERENCE: "direction_fune" content: babord, tribord,

REFERENCE: "fil_vir" content: filage, virage,

REFERENCE: "lieu_impact_chalut" content: épissures, panneaux, chalut, funes,

REFERENCE: "" content: (liste_benthos_image) ETOILE MER, CRINOIDE, HOLOTHURIE, OPHYURE, OURSIN, AMPHIPODE, CRABE VRAI, CREVETTE, LITHODE, GALATHE, NEPHROPS, PYGNOGONIDE, ASCIDIE, CIRRIPEDE, ANEMONE, SOFT CORAL, HORNY CORAL, SEA PEN, STONY CORAL, MEDUSE, BRACHYOPODE, BIVALVE, CEPHALOPODE, GASTEROPODE, ANNELIDE, EPONGE,

REFERENCE: "oui_non_na" content: oui, non, NA,

REFERENCE: "stade_remp" content: (stade de remplissage des estomacs) 0, 1, 2, 3, 4, 5,