



## Purse Seine Observer Landings data

As per CMM 02 Data Standards  
(Template version September 2020)

| Data Field   | Reference (CMM 02) | Data Type                            | Example                                | Additional Explanation  |
|--|--------------------|--------------------------------------|--|---|
| <b>Observer Vessel Header (one row per submission):</b>                              |                    |                                      |  |   |
| Current vessel flag  | Annex 7 part O 1a  | ISO 3-alpha country code             | AUS                                    | The Flag State or Member the vessel was registered with during this fishing   |
| Name of vessel   | Annex 7 part O 1b  | Capitalised Free text                | FV. EAGLE                              | The current vessel name   |
| Name of the Captain: First Name (if known)   |                    | Free text                            | John                                   | The first name of the vessel Captain during the observed fishing trip   |
| Name of Captain: Surname (if known)  |                    | Free text                            | Smith                                  | The surname of the vessel Captain during the observed fishing trip  |
| Name of the Fishing Master: First Name (if known)                                    |                    | Free text                            | John                                   | The first name of the fishing master of the vessel during the observed fishing trip   |
| Name of the Fishing Master: Surname (if known)                                       |                    | Free text                            | Smith                                  | The surname of the fishing master of the vessel during the observed fishing trip  |
| Registration number of vessel  | Annex 7 part O 1c  | Free text and/or numeric             | 7767                                   | The registration number issued to the vessel by the flag State  |
| International radio call sign  | Annex 7 part O 1d  | Free text and/or numeric             | AXA1552                                | The call sign of the vessel   |
| IMO Number   | Annex 7 part O 1e  | Vessel identifying 7 digit number    | 1234567                                | The unique 7 digit identifier assigned to the vessel by IHS Maritime, previously known as Lloyd's Register Fairplay   |
| Previous names (if known)  |                    | Comma separated Free text            | PRION, GULL                            | A list showing all previous vessel names  |
| Port of registry (if known)  |                    | Free text                            | Sydney                                 | The home port that the vessel is currently registered with  |
| Previous flag (if any)   |                    | ISO 3-alpha country code             | PER                                    | The previous flag state (if different to current)   |
| Type of vessel: ISSCFV code  | Annex 7 part O 1f  | Alpha or numeric code (ISSCFV)       | 07.2.0                                 | The vessel type (singular), as listed in Annex 10 of CMM 02 (either standard abbreviations or codes accepted)   |
| Type of fishing method(s): ISSCFG codes  | Annex 7 part O 1g  | Alpha or numeric code (ISSCFG)       | 09.3.0                                 | The fishing gear this vessel uses as listed in Annex 9 of CMM 02 (either standard abbreviations or codes accepted)  |
| Length (m) (if known)  |                    | Numeric                              | 51                                     | The length of the vessel in metres  |
| Length Type e.g. LOA or LBP  |                    | e.g. LOA or LBP                      | LOA                                    | The type of length measurement used (either LOA for length overall or LBP for length between perpendiculars)  |
| Beam (m) (if known)  |                    | Numeric                              | 8.2                                    | Width of the hull in metres   |
| Gross Tonnage (GT) (if known)  |                    | Numeric                              | 655                                    | Volume of all the ship's enclosed spaces measured to the outside of the hull framing (GT is the preferred unit of tonnage)  |
| Gross Register Tonnage (GRT) (if known)  |                    | Numeric                              |  | Total measured cubic content of the permanently enclosed spaces of a vessel, with deductions for living quarters (to be provided if GT is not available, or in addition to GT)  |
| Power of main engine(s) (Kw) (if known)  |                    | Numeric                              | 2500                                   | The total power of the main engine(s). Report as a single figure in kilowatts   |
| Hold capacity (m <sup>3</sup> ) (if known)   |                    | Numeric                              | 250                                    | The volume of the fish hold in cubic metres   |
| Record of equipment on board which may affect fishing power factors, where practical |                    | Free text                            | Doppler current monitor                | Record of the equipment on board which may affect fishing power factors (navigational equipment, radar, sonar systems, weather fax or satellite weather receiver, sea-surface temperature image receiver, Doppler current monitor, radio direction finder), where practical |
| Total number of crew (all staff excluding observers) (if known)                      |                    | Numeric                              | 99                                     | The total number of staff on board the vessel during the fishing trip, excluding observers  |
| Total No. Tows or Sets in Trip (if known)  |                    | Whole number                         | 46                                     | The total number of sets during the fishing trip  |
| Total No. of Sets/ Tows Observed (if known)  |                    | Whole number                         | 23                                     | The total number of sets during the fishing trip that the observer was able to observe  |
|  |                    |                                      |  |   |
| <b>Observer Person header (one line per observer, 2 max):</b>                        |                    |                                      |  |   |
| Observer Number  |                    | Numeric (eg 1 or 2)                  | 1                                      | An identifying number for this Observer within this particular trip   |
| Observer Name: First Name  | Annex 7 part O 2a  | Free text                            | David                                  | The first name of the Observer  |
| Observer Name: Surname   | Annex 7 part O 2a  | Free text                            | Jones                                  | The surname of the Observer   |
| Observer's Organisation Name   | Annex 7 part O 2b  | Free text                            | National Science Research Organisation | The Organisation that the Observer represented  |
| First day of trip (if known)   |                    | Date format YYYY-MON-DD              | 2017-Jul-01                            | The date (UTC) that the trip started  |
| In Port identifier   |                    | NA- Observer Landing                 | NA- Observer Landing                   | If this is an In Port observation, put "NA- Observer Landing" so that the record can be identified as such.   |
| Landing Date and time (UTC format)   | Annex 7 part O 3a) | Datetime format YYYY-MON-DDThh:mm:ss | 2017-Jul-31T23:59:59                   | The date and time of the landing (UTC)  |

| Data Field  | Reference (CMM 02)        | Data Type                            | Example              | Additional Explanation   |
|---|---------------------------|--------------------------------------|----------------------|--|
| Port/Point of landing   | Annex 7 part O 2c, 2d)    | Free text                            | Sydney               | The port at which the Observer observed the landing  |
| <b>Purse seine (one line for each different species caught):</b>                |                           |                                      |                      |  |
| Observer Number (Number of the Observer observing this set 1 or 2)              |                           | Numeric (eg 1 or 2)                  | 1                    | This number can be used to identify which Observer observed this particular set  |
| Total search time (leave blank)   |                           | Decimal hours                        | 4.5                  | The total time since the last set, and before this set, that the vessel spent searching  |
| First day of trip - to the extent practicable                                   | Annex 7 part O 3b; K 2    | Datetime format YYYY-MON-DDThh:mm:ss | 2017-Jul-10T00:00:00 | The date/time (UTC) at the start of the trip (as well as it can be determined by the Observer).  |
| Last day of trip - to the extent practicable                                    | Annex 7 part O 3c; K 2    | Datetime format YYYY-MON-DDThh:mm:ss | 2017-Jul-17T23:59:59 | The date/time (UTC) at the end of the trip (as well as it can be determined by the Observer).  |
| Indicative fishing area: latitude   | Annex 7 part O 3d); K 3   | Latitude (decimal degrees)           | -44                  | An approximate latitude to indicate where the fish had been caught. Southern latitudes should be indicated by the use of negative numbers.   |
| Indicative fishing area: longitude  | Annex 7 part O 3d); K 3   | Longitude (decimal degrees)          | -175                 | An approximate longitude to indicate where the fish had been caught. Western longitudes should be indicated by the use of negative numbers.  |
| Net length (m) (if known)   |                           | Numeric                              | 120                  | A measure of how long the net is (in metres)   |
| Net height (m) (if known)   |                           | Numeric                              | 60                   | A measure of how high the net is (in metres)   |
| Net mesh size (mm) (if known)   |                           | Numeric                              | 110                  | The mesh size of net (measured in millimetres when stretched)  |
| Net mesh type (if known)  |                           | Free text                            | Diamond              | A description of the type of mesh (diamond, square etc)  |
| Main target species   | Annex 7 part O 3e); K 4a) | Species code (FAO 3-alpha code)      | CJM                  | The species that the fishing operation was aiming to catch (using FAO code <a href="http://www.fao.org/fishery/collection/asfis/en">http://www.fao.org/fishery/collection/asfis/en</a> )   |
| Leave blank   |                           |                                      |                      | This information is not required, so the column can be left blank  |
| Bycatch mitigation measures employed (if known)                                 |                           | Free text                            | Bird cannon          | Identify any measures employed to mitigate bycatch, using where appropriate the code for each piece of equipment described on the the Bird Scaring Line, Bird Baffler or Line Weighting tabs, for example T1, B1, W1 for a tori line, a Bird baffler and a Line Weighting system. If setting is restricted to between the times of nautical dusk and nautical dawn then record "Night setting".<br>If Offal Management is being used record:<br>i. No discharge during shooting and hauling<br>ii. Only liquid discharge<br>iii Waste batching at least 2 hours/other/none<br>If other bycatch mitigation measures are used, record details. |
| Species code (3-alpha code)   | Annex 7 part 3g; K 4a)    | Species code (FAO 3-alpha code)      | MAS                  | The species that was caught, retained or discarded (using FAO code <a href="http://www.fao.org/fishery/collection/asfis/en">http://www.fao.org/fishery/collection/asfis/en</a> ).<br>This will be a fish species, sensitive benthic species, mammal, bird or a reptile.<br>Use the lowest known taxon (species if possible, but genus or family is acceptable)   |
| Retained catch: Live weight of catch retained for all species to the nearest kg | Annex 7 part 3g); K 5a)   | Numeric                              | 30000                | A live weight (kg) estimate of the catch that was retained on board (one line per species).  |

| Data Field  | Reference (CMM 02)      | Data Type                            | Example              | Additional Explanation   |
|---|-------------------------|--------------------------------------|----------------------|--|
| Discarded catch: Estimate of the live weight (kg) of living marine resources discarded split to the lowest known taxon (if known) |                         | Numeric                              | 105                  | A live weight estimate of the catch that was discarded (one line per species). This should be in weight (kg) for fish and benthic material; numbers for marine mammals, seabirds, reptiles and other species of concern.                             |
| Please leave blank  |                         |                                      |                      | This information is not required, so the column can be left blank  |
| Incidental Captures of Species of Concern (Marine mammal/Bird/Reptile/Other) (count)  |                         | Numeric                              |                      | A count of incidental captures by species. Leave blank, unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern (as listed in Annex 14 of CMM 02).   |
| No. Bycatch Adults in Vigorous State  |                         | Numeric                              |                      | If there were incidental captures, then this is the number of adults that were in a vigorous state when released. Leave blank unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern.                       |
| No. Bycatch Adults Alive  |                         | Numeric                              |                      | If there were incidental captures, then this is the number of adults that were alive (but not vigorous nor lethargic) when released. Leave blank unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern     |
| No. Bycatch Adults in Lethargic State   |                         | Numeric                              |                      | If there were incidental captures, then this is the number of adults that were in a lethargic state when released. Leave blank unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern                       |
| No. Bycatch Adults Dead   |                         | Numeric                              |                      | If there were incidental captures, then this is the number of adults that were dead when released. Leave blank unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern.                                      |
| No. Bycatch Juveniles in Vigorous State   |                         | Numeric                              |                      | If there were incidental captures, then this is the number of Juveniles that were in a vigorous state when released. Leave blank unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern.                    |
| No. Bycatch Juveniles Alive   |                         | Numeric                              |                      | If there were incidental captures, then this is the number of Juveniles that were alive (but not vigorous nor lethargic) when released. Leave blank unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern. |
| No. Bycatch Juveniles in Lethargic State  |                         | Numeric                              |                      | If there were incidental captures, then this is the number of Juveniles that were in a lethargic state when released. Leave blank unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern.                   |
| No. Bycatch Juveniles Dead  |                         | Numeric                              |                      | If there were incidental captures, then this is the number of Juveniles that were dead when released. Leave blank unless the Species Code (in column N) was a mammal, bird or reptile or other species of concern.                                   |
| <b>Length frequencies (one sheet per submission, one line per length category per sample):</b>                                    |                         |                                      |                      |  |
| Observer Number   |                         | Numeric (eg 1 or 2)                  | 1                    | This number can be used to identify which Observer conducted this length frequency measurement   |
| First day of trip - to the extent practicable   | Annex 7 part O 3b); K 2 | Datetime format YYYY-MON-DDThh:mm:ss | 2017-Jul-17T13:10:00 | The date/time (UTC) of the start of the trip; must match the time listed on the Purse Seine worksheet  |
| Last day of trip - to the extent practicable  | Annex 7 part O 3c); K 2 | Datetime format YYYY-MON-DDThh:mm:ss | 2017-Jul-17T17:30:00 | The date/time (UTC) of the end of the trip; must match the time listed on the Purse Seine worksheet  |
| Total weight of sample from this set (kg)   | Annex 7 E; K 5a)        | Numeric                              | 50                   | The total weight (kg) of the length frequency sample of this species   |
| Method of estimating total weight of sample   | Annex 7 E               | Free text                            | Salter scales        | A description of how the total weight of the sample was measured or estimated  |

| Data Field   | Reference (CMM 02)        | Data Type                            | Example              | Additional Explanation  |
|--|---------------------------|--------------------------------------|----------------------|---|
| Species Code: FAO 3-alpha code   | Annex 7 E; K 4a)          | Species code (FAO 3-alpha code)      | MAS                  | The species code for the individual that is being measured (using FAO code <a href="http://www.fao.org/fishery/collection/asfis/en">http://www.fao.org/fishery/collection/asfis/en</a> ).<br>There should also be a corresponding retained catch amount on the Purse Seine tab (as the individual must have been caught in order to have been sampled)  |
| Length<br>Submit all lengths in mm<br>(even if they were measured to the nearest cm)                   | Annex 7 E                 | Numeric                              | 410                  | The measured length of the individual of this species (in mm):<br>i) Fish species (other than skates, rays and sharks) should be measured consistent with Annex P of CMM 02-2020. If maximum length is greater than 400 mm fork length, then measure to the nearest 10 mm (else to the nearest millimetre).<br>ii) For squid, mantle length should be measured to the nearest 10 mm.<br>iii) For skates and rays maximum disk width should be measured.<br>iv) shark species should be measured consistent with Annex P of CMM 02-2020. Total length is the default.<br>v) For marine mammals and reptiles the total length should be measured (where possible) |
| Number measured at this length   | Annex 7 E                 | Whole number                         | 4                    | The number of individuals (of this species) measured at this length from this set.<br><b>Note that this is a number, not a percentage</b>   |
| Type of measurement used   | Annex 7 E                 | Free text                            | Fork Length          | A description of the measurement used to determine the length ( for example total length, standard length or fork length).  |
| <b>Biology &amp; Individual Lengths (one sheet per submission , one line per individual examined):</b> |                           |                                      |                      |   |
| Observer Number  |                           | Numeric (eg 1 or 2)                  | 1                    | This number can be used to identify which Observer conducted this biological sample   |
| First day of trip - to the extent practicable  | Annex 7 part O 3b); K 2   | Datetime format YYYY-MON-DDThh:mm:ss | 2017-Jul-17T13:10:00 | The date/time (UTC) of the start of the trip; must match the time listed on the Purse Seine worksheet   |
| Last day of trip - to the extent practicable   | Annex 7 part O 3c); K 2   | Datetime format YYYY-MON-DDThh:mm:ss | 2017-Jul-17T17:30:00 | The date/time (UTC) of the end of the trip; must match the time listed on the Purse Seine worksheet   |
| Total weight of sample from this set (kg)  | Annex 7 E; K 5a)          | Numeric                              | 50                   | The total weight (kg) of the biological sample of this species  |
| Method of estimating total weight of sample  | Annex 7 E                 | Free text                            | Salter scales        | A description of how the total weight of the sample was measured or estimated   |
| Species Code: FAO 3-alpha code   | Annex 7 part F 1a); K 4a) | Species code (FAO 3-alpha code)      | MAS                  | The species code for the individual that is being measured (using FAO code <a href="http://www.fao.org/fishery/collection/asfis/en">http://www.fao.org/fishery/collection/asfis/en</a> ).<br>This will be a fish species, sensitive benthic species, mammal, bird or a reptile.<br>There should also be a corresponding retained catch amount on the Purse Seine tab (as the individual must have been caught in order to have been sampled)  |
| Was this individual included in the length frequency information? (Y/N)                                |                           | e.g. Y or N                          | Y                    | If this fish is also included in a length frequency sample then record "Y".<br>If this is the only record pertaining to this fish in this submission then record "N"  |
| Length<br>Submit all lengths in mm<br>(even if they were measured to the nearest cm)                   | Annex 7 part F 1b)        | Numeric                              | 310                  | The measured length of the individual of this species (in mm):<br>i) Fish species (other than skates, rays and sharks) should be measured consistent with Annex P of CMM 02-2020. If maximum length is greater than 400 mm fork length, then measure to the nearest 10 mm (else to the nearest millimetre).<br>ii) For squid, mantle length should be measured to the nearest 10 mm.<br>iii) For skates and rays maximum disk width should be measured.<br>iv) shark species should be measured consistent with Annex P of CMM 02-2020. Total length is the default.<br>v) For marine mammals and reptiles the total length should be measured (where possible) |
| Sex (Male, Female, Immature, Unsexed)  | Annex 7 part F 1d)        | e.g. M, F, I, U                      | F                    | The sex of the individual, assessed as Male (M), Female (F), Immature (I) or Unsexed (U). For seabirds, mammals, reptiles and other species of concern this should be recorded where this is feasible from external observation (e.g. pinnipeds, small cetaceans or elasmobranchii species of concern).   |

| Data Field   | Reference (CMM 02) | Data Type   | Example   | Additional Explanation   |
|--|--------------------|-------------|---|--|
| Maturity Stage   | Annex 7 part F 1e) | Free text   | IV  | The degree of ripeness of the fish gonads. For example:<br>I Immature<br>II Maturing virgin and recovering spent<br>III Ripening<br>IV Ripe<br>V Spent<br>(refer FAO Manual of Fisheries Science Part 2, Chapter 5 Sex, maturity and fecundity).<br>For sharks, report if pregnant and how many (if any) eggs/pups found.  |
| Tissue Sample Collected? Y/N                                       | Annex 7 part F 2   | e.g. Y or N | N   | Whether or not a tissue sample was taken from this individual. For seabirds, mammals, reptiles and other species of concern that were dead, adequate information or samples (for example return of carcass for necropsy, photographs, tissue or feather samples for genetic determination, or if this is not possible sub-samples of identifying parts) should be collected for onshore identification in accordance with pre-determined sampling protocols. For benthic taxa where possible, and particularly for new or scarce benthic species which do not appear in ID guides, whole samples should be collected and suitably preserved for identification on shore. |
| Otoliths Collected? Y/N  | Annex 7 part F 2   | e.g. Y or N | Y   | Whether or not otoliths were taken from this individual  |
| Stomach samples Collected? Y/N                                     | Annex 7 part F 2   | e.g. Y or N | Y   | Whether or not a stomach sample was taken from this individual   |
| Type of measurement used   | Annex 7 part F1c)  | Free text   | Fork Length   | A description of the measurement used to determine the length ( for example total length, standard length or fork length).   |
| Interaction type (for birds/mammals/reptiles/species of concern)   |                    | Free text   | Line entanglement   | The type of interaction between the bird/mammal/reptile or species of concern with the vessel, for example hook, line entanglement, warp strike, net capture or other kind of interaction.   |
| Life history stage (for birds/mammals/reptiles/species of concern) |                    | Free text   | Juvenile  | The life history stage of an individual bird/mammal/reptile/other species of concern, for example Adult/Juvenile, to the extent that it is feasible to determine this.   |
| Image reference  |                    | Free text   | <a href="https://www.flickr.com/gp/132157726@N06/i6FKgU">https://www.flickr.com/gp/132157726@N06/i6FKgU</a> | A link or reference to a photograph of this biological sample. Seabirds, mammals, reptiles, benthic taxa and other species of concern should be identified taxonomically as far as possible, or accompanied by photographs if identification is difficult.   |
|  |                    |             |   |  |