

Observer landing (Purse Seine)		Reference (CMM 02)	Data Type	Example	Additional Explanation
Observer Vessel Header (one row per submission):					
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 2b)	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	
Vessel Reg No	Annex 7 part O 1c)	Free text and/or numeric	7767	The registration number issued to the vessel	
Vessel international radio call sign (if any)	Annex 7 part O 1d)	Free text and/or numeric	AXA1552	The call sign of the vessel	
Lloyd's/ IMO number (if allocated)	Annex 7 part O 1e)	Vessel identifying 7 digit number	1234567	The unique identifier assigned to the ship by IHS 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: use ISSCFV codes	Annex 7 part O 1f); K 4c)	Alpha or numeric code (ISSCFV)	02.1.0	The vessel type (singular), as listed in Annex 10 of CMM 02 (both standard abbreviations or codes accepted)	

Type of fishing method(s): use ISSCFG codes	Annex 7 part O 1g); K 4b)	Alpha or numeric code (ISSCFG)	01.1.0	The fishing gear this vessel uses as listed in Annex 9 of CMM 02 (both 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 (if known)		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	600	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 ³) (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	0	This number is set to "0" to indicate that the sampling took place in port (and thus no sets were observed at sea).
Observer Person header (one line per observer, 2 max):				
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)
Port/Point of landing	Annex 7 part O 2c, 2d)	Free text	Sydney	The port at which the Observer observed the landing
Purse seine (one line for each different species caught):				
Observer Number (Number of the Observer observing this tow 1 or 2)		Numeric (eg 1 or 2)	1	This number can be used to identify which Observer observed this landing

<i>Total search time (leave blank)</i>		<i>Leave blank</i>		<i>Not required, leave blank</i>
First day of trip - to the extent practicable	Annex 7 part O 3b)	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)	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)	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)	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)	Species code (FAO 3-alpha code)	CJM	The species that the fishing operation had been aiming to catch (using FAO code http://www.fao.org/fishery/collection/asfis/en).
<i>Type of School and Association (leave blank)</i>		<i>Leave blank</i>		<i>This information is not required, so the column can be left blank</i>
Record of any bycatch mitigation measures employed (if known)		Free text	Bird cannon	Identify and describe any measures employed to mitigate bycatch

Species code (3-alpha code)	Annex 7 part O 3f); K 4a)	Species code (FAO 3-alpha code)	MAS	The species that was caught, retained or discarded (using FAO code http://www.fao.org/fishery/collection/asfis/en). 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 C 3g); K 5a)	Numeric	30000	A live weight (kg) estimate of the catch that was retained on board (one line per species).
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 (kg) estimate of the catch that was discarded (one line per species).
Discarded catch: Estimate of the amount (volume - m ³) of living marine resources discarded split to the lowest known taxon (if known)		Numeric	2.5	A volume (m ³) estimate of the catch that was discarded (one line per species).
Incidental Captures of Species of Concern (Marine mammal/Bird/Reptile/Other) (count)		Numeric		A count of bycatch captures by species. Leave blank, unless the Species Code (in column W) 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 (if known)		Numeric		If there was bycatch, then this is the number of adults that were in a vigorous state when released. Leave blank unless the Species Code (in column W) was a mammal, bird or reptile
No. Bycatch Adults Alive (if known)		Numeric		If there was bycatch, 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 W) was a mammal, bird or reptile
No. Bycatch Adults in Lethargic State (if known)		Numeric		If there was bycatch, then this is the number of adults that were in a lethargic state when released. Leave blank unless the Species Code (in column W) was a mammal, bird or reptile

No. Bycatch Adults Dead (if known)		Numeric		If there was bycatch, then this is the number of adults that were dead when released. Leave blank unless the Species Code (in column W) was a mammal, bird or reptile
No. Bycatch Juveniles in Vigorous State (if known)		Numeric		If there was bycatch, then this is the number of Juveniles that were in a vigorous state when released. Leave blank unless the Species Code (in column W) was a mammal, bird or reptile
No. Bycatch Juveniles Alive (if known)		Numeric		If there was bycatch, 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 W) was a mammal, bird or reptile
No. Bycatch Juveniles in Lethargic State (if known)		Numeric		If there was bycatch, then this is the number of Juveniles that were in a lethargic state when released. Leave blank unless the Species Code (in column W) was a mammal, bird or reptile
No. Bycatch Juveniles Dead (if known)		Numeric		If there was bycatch, then this is the number of Juveniles that were dead when released. Leave blank unless the Species Code (in column W) was a mammal, bird or reptile
Length frequencies (one sheet per submission, one line per length category per sample):				
Observer Number [Number of the Observer observing this tow 1 or 2]		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-10T00:00:00	The date/time (UTC) at 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-17T23:59:59	The date/time (UTC) at the end of the trip; must match the time listed on the Purse Seine worksheet
Total weight of sample from this set/tow (kg) (if known)	Annex 7 E; K 5a)	Numeric	50	The total weight (kg) of the length frequency sample

Method of estimating/ measuring total weight of sample?	Annex 7 E	"(In Port)" then Free text	"(In Port) Hanging clock scale"	If this is an in port observation then the phrase "In Port" to identify it as such followed by a description of how the total weight of the sample was measured or estimated
Species Code	Annex 7 E; K 4a)	Species code (FAO 3-alpha code)	MAS	The species code for the fish that is being measured (using FAO code http://www.fao.org/fishery/collection/asfis/en). There should also be a corresponding retained catch amount on the Purse Seine tab (as the fish must have been caught in order to have been sampled)
Length of fish Submit all lengths in mm (even if they were measured to the nearest cm)	Annex 7 E	Numeric	410	The measured length of the fish (in mm): i) Fish species (other than skates, rays and sharks) should be measured in fork length. If maximum length is greater than 400 mm fork length, then measure to the nearest 10 mm (else to the nearest millimetre). ii) Use maximum disk width for skates and rays iii) shark species should be measured using an appropriate length measurement (refer FAO technical report 474 on measuring sharks). Total length is the default
Number of fish measured at this length (i.e frequency of fish measured at this length)	Annex 7 E	Whole number	4	The number of fish (of this species) measured at this length from this set. Note that this is a number, not a percentage
Type of measurement used	Annex 7 E	Free text	Fork Length	An description of the measurement used to determine the fish length (for example total length, standard length or fork length).
Biology & Individual Lengths (one sheet per submission , one line per fish examined):				
Observer Number [Number of the Observer observing this tow 1 or 2]		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-10T00:00:00	The date/time (UTC) at 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-17T23:59:59	The date/time (UTC) at the end of the trip; must match the time listed on the Purse Seine worksheet
Total weight of sample from this set/tow (kg)	Annex 7 E; K 5a)	Numeric	50	The total weight (kg) of the biological sample
Method of estimating/ measuring total weight of sample	Annex 7 E	(In Port) then Free text	“(In Port) Balance Rod Weight Scale”	If this is an in port observation then the phrase "In Port" to identify it as such followed by a description of how the total weight of the sample was measured or estimated
Species Code	Annex 7 part F 1a); K 4a)	Species code (FAO 3-alpha code)	MAS	The species code for the fish that is being measured (using FAO code http://www.fao.org/fishery/collection/asfis/en). There should also be a corresponding retained catch amount on the Purse Seine tab (as the fish must have been caught in order to have been sampled)
Was this fish included in any corresponding length frequency information submitted for this tow/set?		e.g. Y or N	Y	If this fish is also included in a length frequency sample then record "Y". If this is the only record pertaining to this fish in this submission then record "N"
Length of fish Submit all lengths in mm (even if they were measured to the nearest cm)	Annex 7 part F 1b)	Numeric	310	The measured length of the fish (in mm): i) Fish species (other than skates, rays and sharks) should be measured in fork length. If maximum length is greater than 400 mm fork length, then measure to the nearest 10 mm (else to the nearest millimetre). ii) Use maximum disk width for skates and rays iii) shark species should be measured using an appropriate length measurement (refer FAO technical report 474 on measuring sharks). Total length is the default
Sex (Male, Female, Immature, Unsexed)	Annex 7 part F 1c)	e.g. M, F, I, U	F	The sex of the fish, assessed as Male (M), Female (F), Immature (I) or Unsexed (U).

Maturity Stage	Annex 7 part F 1d)	Free text	IV	The degree of ripeness of the fish gonads. For example: I Immature II Maturing virgin and recovering spent III Ripening IV Ripe V Spent (refer FAO Manual of Fisheries Science Part 2, Chapter 5 Sex, maturity and fecundity).
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 fish.
Otoliths collected? Y/N	Annex 7 part F 2	e.g. Y or N	Y	Whether or not otoliths were taken from this fish.
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 fish.
Type of measurement used	Annex 7 part F1b)	Free text	Fork Length	An description of the measurement used to determine the fish length (for example total length, standard length or fork length).