



Jigging Observer data

As per CMM 02 Data Standards
(Template version April 2021)

Data Field	Reference (CMM 02)	Data Type	Example	Additional Explanation
Observer Vessel Header (one row per submission):				
Current vessel flag	Annex 7 part A 2a)	ISO 3-alpha country code	AUS	The Flag State or Member the vessel was registered with during this fishing
Vessel name	Annex 7 part A 2b)	Capitalised Free text	FV. EAGLE	The current vessel name
First Name of the Captain	Annex 7 part A 2c)	Free text	John	The first name of the vessel Captain during the observed fishing trip
Surname(s) of the Captain	Annex 7 part A 2c)	Free text	Smith	The surname of the vessel Captain during the observed fishing trip
First Name of Fishing Master	Annex 7 part A 2d)	Free text	John	The first name of the fishing master of the vessel during the observed fishing trip
Surname (s) of Fishing Master	Annex 7 part A 2d)	Free text	Smith	The surname of the fishing master of the vessel during the observed fishing trip
Vessel registration number	Annex 7 part A 2e)	Free text and/or numeric	7767	The registration number issued to the vessel by the flag State
International radio call sign (if any)	Annex 7 part A 2f)	Free text and/or numeric	AXA1552	The call sign of the vessel
IMO number (if allocated)	Annex 7 part A 2g)	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)	Annex 7 part A 2h)	Comma separated Free text	PRION, GULL	A list showing all previous vessel names
Port of registry	Annex 7 part A 2i)	Free text	Sydney	The home port that the vessel is currently registered with
Previous flag (if any)	Annex 7 part A 2j)	ISO 3-alpha country code	PER	The previous flag state (if different to current)
Type of vessel: (Annex 10 CMM 02 code)	Annex 7 part A 2k); L 4c)	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): (Annex 9 CMM 02 code)	Annex 7 part A 2l); L 4b)	Alpha or numeric code (ISSCFG)	09.3.0	The type of fishing gear being used as specified from the standard ISSCFG fishing gear standards in Annex 9 of CMM 02, for example either 09.1.0 or LHP for Handlines and pole-lines (hand-operated) or 09.2.0 or LHM for Handlines and pole-lines (mechanised).
Vessel Length (m)	Annex 7 part A 2m); L 5b)	Numeric	51	The length of the vessel in metres
Vessel Length Type: eg LOA or LBP	Annex 7 part A 2n)	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)	Annex 7 part A 2o); L 5b)	Numeric	8.2	Width of the hull in metres
Gross tonnage (GT)	Annex 7 part A 2p)	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)	Annex 7 part A 2q)	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)	Annex 7 part A 2r); L 5d)	Numeric	2500	The total power of the main engine(s). Report as a single figure in kilowatts
Hold capacity (m ³)	Annex 7 part A 2s); L 5c)	Numeric	250	The volume of the fish hold in cubic metres
Record of the equipment on board which may affect fishing power	Annex 7 part A 2t)	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 no. crew (all staff, excluding observers)	Annex 7 part A 2u)	Numeric	99	The total number of staff on board the vessel during the fishing trip, excluding observers
Total number fishing days in trip		Whole number	46	The total number of days during the fishing trip
Number of Fishing days observed		Whole number	23	The total number of days during the fishing trip that the observer was able to observe
Observer Person header (one line per observer, 2 max):				
Observer Number (1 or 2)		Numeric (eg 1 or 2)	1	An identifying number for this Observer within this particular trip
Observer First Name	Annex 7 part A 3a)	Free text	David	The first name of the Observer
Observer Surname	Annex 7 part A 3a)	Free text	Jones	The surname of the Observer
Observer's Organisation Name	Annex 7 part A 3b)	Free text	National Science Research Organisation	The Organisation that the Observer represented
Date Observer Embarked (UTC)	Annex 7 part A 3c); L 2	Date format YYYY-MON-DD	2017-Jul-01	The date (UTC) that the Observer embarked for this observed trip

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Port of Embarkation	Annex 7 part A 3d)	Free text	Sydney	The port at which the Observer embarked
Date Observer Disembarked (UTC)	Annex 7 part A 3e); L 2	Date format YYYY-MON-DD	2017-Jul-31	The date (UTC) that the Observer disembarked from this observed trip
Port of Disembarkation	Annex 7 part A 3f)	Free text	Sydney	The port at which the Observer disembarked
Fishing Activity (one line for each different species caught per drift, or one line per drift if nothing was caught):				
Observer Number (Number of the Observer observing this tow)		Numeric (eg 1 or 2)	1	This number can be used to identify which Observer observed this particular set
Fishing start date and time (UTC)	Annex 7 part E 2a); L 2	Datetime format YYYY-MON-DDThh:mm:ss	2017-Jul-17T13:10:00	The date/time (UTC) at the start of fishing
Fishing end date and time (UTC)	Annex 7 part E 2b); L 2	Datetime format YYYY-MON-DDThh:mm:ss	2017-Jul-17T17:30:00	The date/time (UTC) at the end of fishing
Position at start of drift: latitude	Annex 7 part E 2c); L 3	Latitude (decimal degrees)	-44.0	The latitude at the start of the drift. Southern latitudes should be indicated by the use of negative decimal degree values (1/10 th degree resolution).
Position at start of drift: longitude	Annex 7 part E 2c); L 3	Longitude (decimal degrees)	-86.3	The longitude at the start of the drift. Western longitudes should be indicated by the use of negative numbers (1/10 th degree resolution).
Position at end of drift: latitude	Annex 7 part E 2d); L 3	Latitude (decimal degrees)	-43.8	The latitude at the end of the set. Southern latitudes should be indicated by the use of negative decimal degree values (1/10 th degree resolution).
Position at end of drift: longitude	Annex 7 part E 2d); L 3	Longitude (decimal degrees)	-86.7	The longitude at the end of the set. Western longitudes should be indicated by the use of negative numbers (1/10 th degree resolution for bottom fishing).
Intended target species	Annex 7 part E 2e); L 4a)	Species code (FAO 3-alpha code)	BWA	The species that the fishing operation was aiming to catch (using FAO code http://www.fao.org/fishery/collection/asfis/en).
Blast freezing throughput (t/hr)	Annex 7 part E 2f)	Numeric	120.0	The number of tonnes per hour of product that the blast freezers can produce.
Total deck light power (kW)	Annex 7 part E 2g)	Numeric	780.0	The total deck lighting power in kilowatts.
Number of hand jig lines	Annex 7 part E 2h)	Integer	0	The number of hand jigging lines used during the fishing.
Number of single jig machines	Annex 7 part E 2i)	Integer	0	The number of single jig machines used in this fishing operation
Number of double jig machines	Annex 7 part E 2j)	Integer	48	The number of double jig machines used in this fishing operation
Number of jigs per line	Annex 7 part E 2k)	Integer	1	The number of jigs per line used in this fishing operation
Bycatch mitigation measures employed (if applicable)	Annex 7 part E 2l)	Free text	No discharge during fishing	Identify and describe any measures employed to mitigate bycatch.
Species Code	Annex 7 part E 2m,n; L 4a); H 1a)	Species code (FAO 3-alpha code)	GIS	The species that was caught, retained or discarded (using FAO code http://www.fao.org/fishery/collection/asfis/en). This will be a fish species, sensitive benthic species, mammal, bird or a reptile. Use the lowest known taxon (species if possible, but genus or family is acceptable)
Retained: Live weight (kg)	Annex 7 part E 2m); H 1b); L 5a)	Numeric	3000	A live weight (kg) estimate of the catch that was retained on board (one line per species).

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Discarded: Live weight (kg)	Annex 7 part E 2n); H 1b); L 5a)	Numeric	4	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.
Incidental captures of species of concern (Marine mammal/Bird/Reptile/Other) (count)	Annex 7 part E 2o); H 1b)	Numeric		A count of incidental captures by species. Leave blank, unless the Species Code (in column P) 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	Annex 7 part H 1a); H 1d),4	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 P) was a mammal, bird or reptile or other species of concern.
No. Bycatch Adults Alive	Annex 7 part H 1a); H 1d),4	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 P) was a mammal, bird or reptile or other species of concern.
No. Bycatch Adults in Lethargic State	Annex 7 part H 1a); H 1d),4	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 P) was a mammal, bird or reptile or other species of concern.
No. Bycatch Adults Dead	Annex 7 part H 1a); H 1d),4	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 P) was a mammal, bird or reptile or other species of concern.
No. Bycatch Juveniles in Vigorous State	Annex 7 part H 1a); H 1d),4	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 P) was a mammal, bird or reptile or other species of concern.
No. Bycatch Juveniles Alive	Annex 7 part H 1a); H 1d),4	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 P) was a mammal, bird or reptile or other species of concern.
No. Bycatch Juveniles in Lethargic State	Annex 7 part H 1a); H 1d),4	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 P) was a mammal, bird or reptile or other species of concern.
No. Bycatch Juveniles Dead	Annex 7 part H 1a); H 1d),4	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 P) was a mammal, bird or reptile or other species of concern.
Length frequencies (one sheet per submission, one line per length category per sample):				
Observer Number		Numeric (eg 1 or 2)	1	This number can be used to identify which Observer conducted this length frequency measurement
Fishing Start Date and Time (UTC)	Annex 7 part E 2a); L 2	Datetime format YYYY-MON-DDThh:mm:ss	2017-Jul-17T13:10:00	The date/time (UTC) at the start of the set; must match the time listed on the Fishing Activity worksheet
Fishing End Date and Time (UTC)	Annex 7 part E 2b); L 2	Datetime format YYYY-MON-DDThh:mm:ss	2017-Jul-17T17:30:00	The date/time (UTC) at the end of the set; must match the time listed on the Fishing Activity worksheet
Total weight of sample from this set (kg)	Annex 7 F; L 5a)	Numeric	50	The total weight (kg) of the length frequency sample of this species
Method of estimating total weight of sample	Annex 7 F	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 F; L 4a)	Species code (FAO 3-alpha code)	MAS	The species code for the individual 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 Fishing Activity tab (as the individual must have been caught in order to have been sampled)

Data Field	Reference (CMM 02)	Data Type	Example	Additional Explanation
MANTLE LENGTH Submit all lengths in mm (even if they were measured to the nearest cm)	Annex 7 F	Numeric	410	The measured length of the individual of this species (in mm): 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). ii) For squid, mantle length should be measured to the nearest 10 mm. iii) For skates and rays maximum disk width should be measured. iv) shark species should be measured consistent with Annex Q of CMM 02. Total length is the default. v) For marine mammals and reptiles the total length should be measured (where possible)
Number of fish measured at this length	Annex 7 F	Whole number	4	The number of individuals (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 F	Free text	Mantle Length	A description of the measurement used to determine the length (for example total length, standard length or fork length).
Biology & Individual Lengths (one sheet per submission , one line per individual examined):				
Observer Number		Numeric (eg 1 or 2)	1	This number can be used to identify which Observer conducted this biological sample
Fishing Start Date and Time (UTC)	Annex 7 part E 2a); L 2	Datetime format YYYY-MON-DDThh:mm:ss	2017-Jul-17T13:10:00	The date/time (UTC) at the start of the set; must match the time listed on the Fishing Activity worksheet
Fishing End Date and Time (UTC)	Annex 7 part E 2b); L 2	Datetime format YYYY-MON-DDThh:mm:ss	2017-Jul-17T17:30:00	The date/time (UTC) at the end of the set; must match the time listed on the Fishing Activity worksheet
Total weight of sample (kg)	Annex 7 G; L 5a)	Numeric	50	The total weight (kg) of the biological sample of this species
Method of estimating total weight of sample	Annex 7 G	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 G 1a); H1a; L 4a)	Species code (FAO 3-alpha code)	GIS	The species code for the individual that is being measured (using FAO code http://www.fao.org/fishery/collection/asfis/en). This will be a fish species, sensitive benthic species, mammal, bird or a reptile. There should also be a corresponding retained catch amount on the Fishing Activity tab (as the individual must have been caught in order to have been sampled)
Please leave blank	NA	NA	NA	Please leave this column blank, not required.
Length in millimetres (Mantle length for all squid)	Annex 7 part G 1b), H3	Numeric	310	The measured length of the individual of this species (in mm): 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). ii) For squid, mantle length should be measured to the nearest 10 mm. iii) For skates and rays maximum disk width should be measured. iv) shark species should be measured consistent with Annex Q of CMM 02. Total length is the default. v) For marine mammals and reptiles the total length should be measured (where possible)
Sex (Male, Female, Immature, Unsexed)	Annex 7 part G 1d), H2	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 G 1e)	Free text	IV	The degree of ripeness of the fish gonads. For Jumbo flying squid the agreed SPRFMO Maturity scale for Jumbo Flying Squid (https://www.sprfmo.int/assets/Fisheries/Science/SPRFMO-Maturity-Stages-for-Jumbo-Flying-Squid.pdf) should be used : I Immature II Maturing III Mature IV Spawning/Expelling V Spent
Tissue Sample Collected? Y/N	Annex 7 part G 2; H1e	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.
Statoliths Collected? Y/N	Annex 7 part G 2	e.g. Y or N	Y	Whether or not statoliths (or otoliths) were taken from this individual
Stomach samples Collected? Y/N	Annex 7 part G 2	e.g. Y or N	N	Whether or not a stomach sample was taken from this individual
Type of measurement used	Annex 7 part F, H3	Free text	Mantle 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)	Annex 7 part H1f)	Free text		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)	Annex 7 part H4	Free text		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 (if applicable)	Annex 7 part H1 a)	Free text		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.