



## Bottom Long Lining Observer data

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

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 A 2a)	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 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 the 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 the Fishing Master	Annex 7 part A 2d)	Free text	Smith	The surname of the fishing master of the vessel during the observed fishing trip
Registration number of vessel	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	Annex 7 part A 2f)	Free text and/or numeric	AXA1552	The call sign of the vessel
IMO Number	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: ISSCFV 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): ISSCFG codes	Annex 7 part A 2l); L 4b)	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)
Vessel length (m)	Annex 7 part A 2m); L 5b)	Numeric	51	The length of the vessel in metres
Vessel length type: e.g. 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 <sup>3</sup> )	Annex 7 part A 2s); L 5c)	Numeric	250	The volume of the fish hold in cubic metres
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 number of 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 of sets in trip		Whole number	46	The total number of sets during the fishing trip
Number of sets observed		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 (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

Data Field	Reference (CMM 02)	Data Type	Example	Additional Explanation
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
<b>Bottom Longline (one line for each different species caught per set, or one line per set if nothing was caught):</b>				
Observer Number (Number of the Observer observing this set)		Numeric (eg 1 or 2)	1	This number can be used to identify which Observer observed this particular set
Set start date and time (UTC)	Annex 7 part D 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 (the time gear starts fishing)
Set end date and time (UTC)	Annex 7 part D 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 (the time the gear begins to be hauled back on board)
Set start position: latitude	Annex 7 part D 2c); L 3	Latitude (decimal degrees)	-43.97	The latitude at the start of the set. Southern latitudes should be indicated by the use of negative decimal degree values (1/100 th degree resolution).
Set start position: longitude	Annex 7 part D 2c); L 3	Longitude (decimal degrees)	-86.25	The longitude at the start of the set. Western longitudes should be indicated by the use of negative numbers (1/100 th degree resolution).
Set end position: latitude	Annex 7 part D 2d); L 3	Latitude (decimal degrees)	-43.75	The latitude at the end of the set. Southern latitudes should be indicated by the use of negative decimal degree values (1/100 th degree resolution).
Set end position: longitude	Annex 7 part D 2d); L 3	Longitude (decimal degrees)	-86.67	The longitude at the end of the set. Western longitudes should be indicated by the use of negative numbers (1/100 th degree resolution for bottom fishing).
Intended target species	Annex 7 part D 2e); L 4a)	Species code (FAO 3-alpha code)	BWA	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> ).
Total length of longline set (km)	Annex 7 part D 2f)	Numeric	120	A measure of the total length of line that was set (in kilometres)
Number of hooks for the set	Annex 7 part D 2g)	Numeric	6000	A count of the number of hooks used in total on the line set
Bottom (seabed) depth at start of set (m)	Annex 7 part D 2h); L 5b)	Numeric	600	The distance from the seabed to the ocean surface in metres, taken at the start of fishing
Number of hooks actually observed during the haul	Annex 7 part D 2i)	Numeric	3000	A count of the number of hooks that were actually observed (including for marine mammals, seabirds, reptiles or other species of concern caught) during the haul (for example, some hooks may have been hauled while the observer was asleep)
Bycatch mitigation measures employed	Annex 7 part D 2n)	Free text	T1, W1	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". If Offal Management is being used record: i. No discharge during shooting and hauling ii. Only liquid discharge iii Waste batching at least 2 hours/other/none Record if fish/squid/mixed; live/dead/mixed; frozen/thawed/mixed; or synthetic bait was used. Record what haul mitigation was used (e.g. Bird Baffler or other). If other bycatch mitigation measures are used, record details.
Please leave blank	NA	NA	NA	Please leave this column blank, not required.
Please leave blank	NA	NA	NA	Please leave this column blank, not required.
Species code (3-alpha code)	Annex 7 part D 2j,k; L 4a); H 1a); I 1a	Species code (FAO 3-alpha code)	BWA	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> ). 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 catch (Live weight - kg)	Annex 7 part D 2j);H 1b); I 1b); L 5a)	Numeric	3000	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 (Live weight - kg)	Annex 7 part D 2k); H 1b); I 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.
Please leave blank	NA	NA	NA	Please leave this column blank, not required.
Please leave blank	NA	NA	NA	Please leave this column blank, not required.
Please leave blank	NA	NA	NA	Please leave this column blank, not required.
Incidental captures of species of concern (Marine mammal/Bird/Reptile/Other) (count)	Annex 7 part D 2l); 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.
<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
Set Start Date and Time (UTC)	Annex 7 part D 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 Bottom Longline worksheet
Set End Date and Time (UTC)	Annex 7 part D 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 Bottom Longline 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 <a href="http://www.fao.org/fishery/collection/asfis/en">http://www.fao.org/fishery/collection/asfis/en</a> ). There should also be a corresponding retained catch amount on the Bottom Longline tab (as the individual must have been caught in order to have been sampled)

Data Field	Reference (CMM 02)	Data Type	Example	Additional Explanation
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 P of CMM 02-2020. Total length is the default. v) For marine mammals and reptiles the total length should be measured (where possible)
Number 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	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
Set Start Date and Time (UTC)	Annex 7 part D 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 Bottom Longline worksheet
Set End Date and Time (UTC)	Annex 7 part D 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 Bottom Longline worksheet
Total weight of sample from this set (kg)	Annex 7 F; L 5a)	Numeric	50	The total weight (kg) of the biological 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 part G 1a); H1a; L 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> ). 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 Bottom Longline 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". If this is the only record pertaining to this fish in this submission then record "N"
Length Submit all lengths in mm (even if they were measured to the nearest cm)	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 P of CMM 02-2020. 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).
Maturity Stage	Annex 7 part G 1e)	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). For sharks, report if pregnant and how many (if any) eggs/pups found.

Data Field	Reference (CMM 02)	Data Type	Example	Additional Explanation
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.
Otoliths Collected? Y/N	Annex 7 part G 2	e.g. Y or N	Y	Whether or not otoliths were taken from this individual
Stomach samples Collected? Y/N	Annex 7 part G 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 F, H3	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)	Annex 7 part H1f)	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)	Annex 7 part H4	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	Annex 7 part H1 a)	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.
<b>Bird Scaring Line (one description for each different line, make additional copies if you need more)</b>				
Trip Number	CMM 02 Annex 7M	Numeric	1	This is always 1.
Bird scaring line equipment code	CMM 02 Annex 7M	Numeric	T1	Each different bird scaring line should have a unique identifier, consisting of T plus a number. For example it could be T1 for the starboard bird scaring line, T2 for the port bird scaring line. If a piece of equipment is replaced during a trip, it can be given a new code, for example T3.
Bird scaring line position	CMM 02 Annex 7M	String	Starboard	Where the bird scaring line is located, must be Port, Starboard, Stern (port side, starboard side or centre) as selected from the drop down list.
Backbone length	CMM 02 Annex 7M	Numeric	20	The length of the backbone of the streamer along the diagonal, in metres.
Aerial coverage length	CMM 02 Annex 7M	Numeric	25	The horizontal distance from the start of the streamer to where it reaches sea level, in metres.
Attached height above water	CMM 02 Annex 7M	Numeric	15	The highest point that the streamer line starts from. This is the distance from the top of the boom to the water for 'Boom and Bridle' systems.
Bird scaring line material	CMM 02 Annex 7M	Character	T	The material that the bird scaring line is made of, must be T (Plastic tubing), S (Plastic strapping), O (Other)
Bird scaring line design	CMM 02 Annex 7M	String	Paired	Whether the design of the scaring line consists of single streamers or pairs of streamers - must be "Single" (meaning that a single streamer comes off the backbone) or "Paired" (meaning that two streamers are joined at the attachment to the backbone) as listed in the drop down box.
Distance between streamers	CMM 02 Annex 7M	Numeric	1.5	The distance in metres between the attachment point of the streamers along the backbone
Streamer length (min)	CMM 02 Annex 7M	Numeric	0.5	The length of the shortest streamer in metres
Streamer length (max)	CMM 02 Annex 7M	Numeric	8	The length of the longest streamer in metres.
Streamer colour	CMM 02 Annex 7M	Character	P	What colour the streamers are, must be P (Pink), R (Red), O (Other) and so on as set out in the drop down box.
Streamer material	CMM 02 Annex 7M	Character	S	What the streamer is made of, must be T (Plastic tubing), S (Plastic strapping), or O (Other) as listed in the drop down box.
Number of streamers	CMM 02 Annex 7M	Numeric	7	The number of streamers used (one for each pair in a paired design)
Towed object	CMM 02 Annex 7M	Character	F	What the object is that is being towed, it must be F (Inverted funnel/plastic cone), L (length of thick line), K (knot or loop of thick line), B (buoy) etc as listed in drop down list.

Data Field	Reference (CMM 02)	Data Type	Example	Additional Explanation
Additional comments	CMM 02 Annex 7M	Free Text	Broke off after third streamer after tenth day of trip	Comments to explain which part of trip the bird scaring line was used for, and how and why it changed
<b>Line Weighting Form (Fill in the boxes on the picture. One description for each line weighting system, make additional copies if you need more)</b>				
Line Weighting system equipment code		Free text	W1	Each line weighting system should have a unique identifier, consisting of W plus a number such as W1. If the line weighting system is modified during a trip, it can be given a new code, for example W2.
Single or double line?	CMM 02 Annex 7N	String	Single	Whether the weighting system is for a Single or a Double line
Avg mass of weights	CMM 02 Annex 7N	Numeric	6	The average (mean) weight of the weights (in kilograms).
Distance b/w sub-surface float and mainline	CMM 02 Annex 7N	Numeric	1	The vertical distance in metres between the bottom of the sub-surface floats and the mainline.
Distance b/w line and weight	CMM 02 Annex 7N	Numeric	10	The vertical distance in metres between the line and the top of the weights.
Number of hooks b/w surface float & anchor	CMM 02 Annex 7N	Numeric	3	A count of the number of hooks between the surface float and the anchor.
Number of hooks b/w sub-surface floats	CMM 02 Annex 7N	Numeric	16	A count of the number of hooks between one sub-surface float and the next.
Number of hooks b/w weights	CMM 02 Annex 7N	Numeric	8	A count of the number of hooks between one weight and the next.
Additional comments	CMM 02 Annex 7N	Free text	Third float lost after tenth day of trip	Comments to explain which part of trip the External line weighting was used for, and how and why it changed

<b>Bird Baffler Form (Fill in the boxes on the picture. One description for each bird baffler configuration, make additional copies if you need more)</b>				
Bird baffler equipment code		Free text	B1	Each bird baffler should have a unique identifier, consisting of B plus a number, such as B1. If the bird baffler is modified during a trip, it can be given a new code, for example B2.
Distance from stern	CMM 02 Annex 7O	Numeric	2	The distance in metres between the attachment point of the side boom and the stern of the vessel.
Side Boom				
Boom Length	CMM 02 Annex 7O	Numeric	4	The distance in metres from the side of the vessel to the attachment point of the last streamer.
Number of streamers	CMM 02 Annex 7O	Numeric	5	The number of streamers attached to the boom.
Avg. distance b/w streamers	CMM 02 Annex 7O	Numeric	0.8	The average distance (in metres) between streamers (i.e. the length of the boom divided by the number of streamers).
Height above water	CMM 02 Annex 7O	Numeric	0.5	The height of the bottom of the streamer weight above water level (in metres).
Streamer colour	CMM 02 Annex 7O	Free text	Pink	The colour of the streamer.
Streamer material	CMM 02 Annex 7O	Free text	Plastic strapping	The material that the streamer is made of.
Aft Boom				
Boom length	CMM 02 Annex 7O	Numeric	3	The distance in metres from the stern of the vessel to the attachment point of the last streamer.
Number of streamers	CMM 02 Annex 7O	Numeric	5	The number of streamers attached to the boom.
Avg. distance b/w streamers	CMM 02 Annex 7O	Numeric	0.6	The average distance (in metres) between streamers (i.e. the length of the boom divided by the number of streamers).

Data Field	Reference (CMM 02)	Data Type	Example	Additional Explanation
Height above water	CMM 02 Annex 70	Numeric	0.5	The height (in metres) of the bottom of the streamer weight above water level.
Streamer colour	CMM 02 Annex 70	Free text	Pink	The colour of the streamer.
Streamer material	CMM 02 Annex 70	Free text	Plastic strapping	The material that the streamer is made of.
Side-Aft Curtain				
Curtain length	CMM 02 Annex 70	Numeric	5	The length (in metres) of the curtain between the end of the side boom and the end of the aft boom.
Number of streamers	CMM 02 Annex 70	Numeric	5	The number of streamers hanging between the end of the side boom and the end of the aft boom.
Avg. distance b/w streamers	CMM 02 Annex 70	Numeric	1	The average distance (in metres) between streamers (i.e. the length of the curtain divided by the number of streamers).
Height above water	CMM 02 Annex 70	Numeric	0.5	The height of the bottom of the streamer weight above water level (in metres).
Streamer colour	CMM 02 Annex 70	Free text	Yellow and Blue	The colour of the streamer.
Streamer material	CMM 02 Annex 70	Free text	Plastic tubing	The material that the streamer is made of.
Aft Curtain				
Curtain length	CMM 02 Annex 70	Numeric	6	The length of the curtain (in metres) between the ends of the two aft booms.
Number of streamers	CMM 02 Annex 70	Numeric	5	The number of streamers hanging between the ends of the two aft booms.
Avg. distance b/w streamers	CMM 02 Annex 70	Numeric	1.2	The average distance (in metres) between streamers (i.e. the length of the curtain divided by the number of streamers).
Height above water	CMM 02 Annex 70	Numeric	0.5	The height of the bottom of the streamer weight above water level (in metres).
Streamer colour	CMM 02 Annex 70	Free text	Yellow and Blue	The colour of the streamer.
Streamer material	CMM 02 Annex 70	Free text	Plastic tubing	The material that the streamer is made of.