



FishInfo

FAO FISHERIES AND AQUACULTURE KNOWLEDGE BASE

Plenary discussion on MDR Agreement

Related to agenda item 4d

Stefania Savorè – Fishery Information Officer, FAO

Johanna Herfaut – Fisheries Specialist, FAO

Stefania.savore@fao.org

Johanna.Herfaut@fao.org



4. Minimum Data Reporting and Regional Database

4.a. Recap of outcomes and recommendations (2021 workshops, WGFM 12, RECOFI XI, MDR Dataset Review Report)

4.b. Member Country presentations – focus on indicators and priority species list

4.c. Presentation of pilot MDR RECOFI regional database

4.d. Plenary discussion and recommendations for actions on MDR Agreement (data submission template, indicators, MDR standard classifications, priority species list)

Objectives of the new MDR submission template

- Preparation of a database format to facilitate data upload in the Regional database.
- Organize submissions by MDR Agreement indicator categories.
- Harmonize and standardize reference tables (areas, vessel types, fishing gears, species and aggregations).
- Facilitate the use of the data (e.g. shared stock, stock assessment).

Presentation of new template

Snapshot of proposed new data submission template (Effort tab)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Country	Area	Local area / Port*	Year	Month* (only recommended for narrow barred Spanish mackerel)	Vessel type	Vessel length class*	Vessel Material*	No. of vessels engaged in the fishery	Fishing gear	Effort unit	Total effort	Days in fishing season*	Average time of fishing operation*	Average no. of fishing operations per day*	Target species*
2	use the drop down list	use the drop down list		at least from 2012	use the drop down list	use the drop down list	use the drop down list	use the drop down list		use the drop down list	for example: day/boats, boat-gear days...	for example: Total no. days at sea		for example: average tow duration, average soaking time...	for example: average no. of tows per day...	precise the main targeted species
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

- RECOFI data submission template (currently in use)
<https://docs.google.com/spreadsheets/d/1tSSnt4qjXBxqOOSGQlajнку1H0qK2s1A/edit?usp=sharing&oid=107373050523346337492&rtpof=true&sd=true>
- RECOFI RDB data submission template proposal (new)
https://docs.google.com/spreadsheets/d/1aGtCL4ssi608_hh0QJBttU1injcYpob3/edit?usp=sharing&oid=107373050523346337492&rtpof=true&sd=true
- Discuss adoption by RECOFI Members

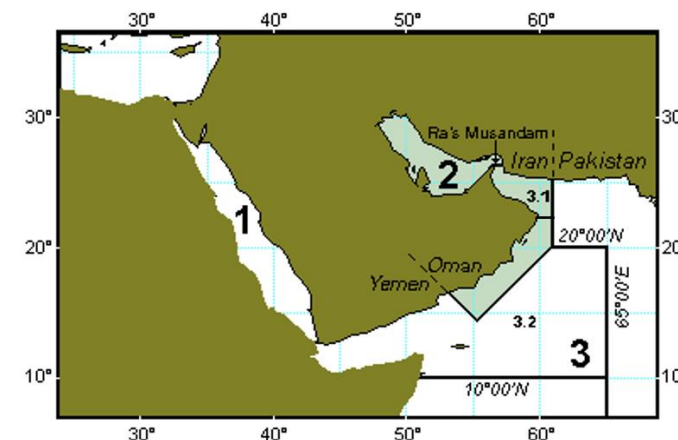
MDR Standard Classification – Fishing Area names

Current reporting

RECOFI	Gulf	Oman Sea
Bahrain	Gulf	
Iran (Islamic Republic of)	Gulf	Oman Sea
Iraq	Gulf	
Kuwait	Gulf	
Oman	Gulf	Sea of Oman
		Arabian Sea
Qatar	Gulf	
Saudi Arabia	Northern Area	
	Southern Area	
United Arab Emirates	Gulf	Oman Sea



RECOFI subarea/division



Proposal

CodeArea	FAO areas
51.2.0	The Gulf
51.3.1	Sea of Oman
51.3.2	Arabian Sea

MDR Standard Classification – Vessel types

Current reporting

RECOFI	Steel boat	Dhow	Speedboat
Bahrain		Dhow	Speedboat
Iran (Islamic Republic of)	Vessel	Dhow	Boat
Iraq	Steel	Fibre	Wooden
Kuwait	Steel boats	Wooden dhow	Speed boats
Oman		Dhow	Skiff
Qatar		Dhow	Speed boats/ skiffs
Saudi Arabia		Large	Small
United Arab Emirates		Dhow	Fibreglass



Proposal

Harmonized vessel type (as in FIRMS)
Skiff (CWP ISSCFV 10.9, Multipurpose nei) (6-12 m. or above)
Dhow (CWP ISSCFV 10.9, Multipurpose nei) (12-20 m. or above)
Other vessels (e.g. industrial trawlers CWP ISSCFV 1.9, purse seiners CWP ISSCFV 2.9)
No vessels

Construction material information can be added in a separate field

MDR Standard Classification - Fishing gears

Current reporting

RECOFI	Shrimp trawl	Gillnet	Wire trap	Hook-and-Line
Bahrain	Shrimp trawl	Gillnet	Large wire trap	Hooks and line
			Small wire trap	Longline
			Crab wire trap	
Iran (Islamic Republic of)	Shrimp trawl	Gillnet	Wire-traps	Hooks and Lines
Iraq	Trawler	Gillnet	Gillnet\traps	
Kuwait	Trawler	Gill netters	Trap setters	
Oman	Shrimp/ shrimp trawler	Net	Trap	Troll/hand line
Qatar		King fish (driftnet pelagic/ driftnet Spanish mackerel)	Trap	
Saudi Arabia	Trawl	Gill net	Trap	Hand line
		Small gill net		Long line Troll line
United Arab Emirates	N/A	Gillnet	Wire Trap	Hook and line



Proposal

Harmonized gear type (as in ISSCFG)
Trawls 0.3
Gillnets and entangling nets 0.7
Traps 0.8
Hook and line 0.9

International Standard Classification of Fishing Gears (ISSCFG, Rev.1 21 October 2010)

Fishing gear category L1	Fishing gear L2	Standart abbreviation	ISSCFG code
Surrounding net	Purse seines	PS	01.1
Seine nets	Beach seines	SB	02.1
Trawls	Midwater trawls (nei)	TM	03.29
	Trawl (nei)	TX	03.9
Falling gear	Cast nets	FCN	06.1
Gillnets and entangling nets	Set gillnets (anchored)	GNS	07.1
	Drift gillnets	GND	07.2
	Gillnets and entangling nets (nei)	GEN	07.9
Traps	Pots/Traps	FPO	08.2
	Barriers, fences, weirs, etc.	FWR	08.5
	Traps (nei)	FIX	08.9
Hook and lines	Handlines and hand-operated pole-and-lines	LHP	09.1
	Longline (nei)	LL	09.39
	Trolling lines	LTL	09.5
	Hooks and lines (nei)	LX	09.9
Misceallaneous gear	Gear nei	MIS	10.9

RECOFI gears and standard classification correspondences

Proposed harmonization

Fishing gear category L1	Fishing gear L2	Standart abbreviation	ISSCFG code	FAO gear category	Correspondence with RECOFI category	Correspondence with RECOFI reported gears
Surrounding net	Purse seines	PS	01.1	Surrounding nets	None	
Seine nets	Beiche seines	SB	02.1	Seine nets	None	
Trawls	Midwater trawls (nei)	TM	03.29	Trawls	None	
	Trawl (nei)	TX	03.9	Trawls	Shrimp trawl	Shrimp trawl
Falling gear	Cast nets	FCN	06.1	Falling gears	None	
Gillnets and entangling nets	Set gillnets (anchored)	GNS	07.1	Gillnets	Gillnet	Gillnet Small gillnet Net Barrier Net
	Drift gillnets	GND	07.2	Gillnets	Gillnet	Pelagic drift net Narrow-barred Spanish mackerel drifnet Small pelagic net
	Gillnets and entangling nets (nei)	GEN	07.9	Gillnets	Gillnet	
Traps	Pots/Traps	FPO	08.2	Traps	Wire trap	Wire trap Large wire trap Small wire trap Crab wire trap Trap
	Barriers, fences, weirs, etc.	FWR	08.5	Traps	None	Haddrah (Barrier Trap)
	Traps (nei)	FIX	08.9	Traps	Wire trap	
Hook and lines	Handlines and hand-operated pole-and-lines	LHP	09.1	Hooks and lines	Hook-and-line	Handline
	Longline (nei)	LL	09.39	Hooks and lines	Hook-and-line	Longline
	Trolling lines	LTL	09.5	Hooks and lines	Hook-and-line	Troll line Troll/Handline
	Hooks and lines (nei)	LX	09.9	Hooks and lines	Hook-and-line	Hook-and-line
Misceallaneous geaf	Gear nei	MIS	10.9	Miscellaneous gear	None	Lader jellyfish (Bahrain)

Terminology and definitions

- “Catch in live-weight”:
 - Catch in live-weight can be difficult to assess.
 - What is more often reported is the **landed** catches (i.e., the retained catches), or the total catch or biomass removed (this could for example mean landed catches + discards).
 - Recent CWP discussions are increasingly moving towards the interpretation of “the catch” as including quantities landed and discarded catches.
- “Fork length composition”:
 - Consider if the focus is length or size frequency data.
 - Countries should be able to collect and report data according to the type of length measurement that is the most convenient/appropriate in the context of their fishery. Length measurement types can be transformed to a common standard measure for the purposes of comparability.

Terminology and definitions

- “Discards” and “By-catch”:
 - Consider adopting a common and standardized definition.
 - According to CWP Fisheries handbook definitions:
 - Discarded catch is the estimated component of the catch which is the total live weight of undersized, unsaleable, or otherwise undesirable whole fish and other aquatic organisms which are discarded at the time of the capture or shortly afterwards. Discarded catch refers to whole fish and other aquatic organisms discarded dead or alive and may include species taken as bycatch. Discarding in some fisheries is prohibited.
 - Bycatch is component of the catch which represents non-targeted fish associated with the catch of the target species or group towards which fishing effort is directed, or other aquatic organisms taken incidentally during the course of fishing (e.g. birds, mammals, reptiles, invertebrates). Some or all the bycatches may be returned to the sea as discarded catch, either dead or alive. The catch taken incidentally is also referred to as incidental catch.
 - By-catch of vulnerable species (e.g., mammals, turtles, sharks, rays) may be considered separately.

List of MDR indicators

Cross (X) the correct option to confirm that each indicator is still applicable at a national level or indicate if it should be removed or modified. If you select modify, include the modification in full.

Shrimp Trawl		Maintain	Delete	Not applicable	Modify
2-a-i	Opening/closing dates	Q Iran SA K Iraq		O UAE	O : no shrimp trawl
2-a-ii	Number of vessels by types and size categories	Q Iran SA K		O UAE	Iraq: no effort information available
2-a-iii	Average tow duration by vessel type/ category	Q Iran SA K		O UAE	Iraq: no effort information available
	Average number of tows per day by vessel type/ category	Q Iran SA K		O UAE	Q: Only for countries operating bottom trawlers Iraq: no effort information available
	Total number of days at sea by vessel type/ category	Q Iran SA		O UAE	Iraq: no effort information available
2-a-iv	Catch of shrimp	Q Iran SA K Iraq		O UAE	Q: Only for countries operating bottom trawlers
	Catch of narrow-barred Spanish mackerel	Q Iran SA K		O UAE	
	Catch of swimming crab, cuttlefish, emperors, groupers, sharks, and rays	Q Iran SA K		O UAE	K : quantity record only for emperors and groupers
	Catch of other finfishes	Q Iran SA		O UAE	
5-a	Shrimp species composition	Iran SA K		O UAE	Q: Only for countries operating bottom trawlers K: <i>Penaeus semisulcatus</i>
2-a-v	Amount of discards	Q Iran SA		O UAE	
2-a-vi	Species composition of bycatch and discard	Q Iran SA		O UAE	
2-b	BRD related information			O UAE	Q: Only for countries operating bottom trawlers Iran : pilot project K: under consideration

List of MDR indicators (Cont.)

Cross (X) the correct option to confirm that each indicator is still applicable at a national level or indicate if it should be removed or modified. If you select modify, include the modification in full.

Gillnets		Maintain	Delete	Modify
3-a	Number of days at sea	Q O Iran SA Iraq	UAE	UAE calculate at the end of year
	Alternative annual efforts	O Iran		UAE: total fishing vessel used net
3-b	Total catch	Q O Iran UAE SA		
	Catch of narrow-barred Spanish mackerel	Q O Iran UAE SA K		
	Catch of emperors, groupers, sharks, and rays	Q O Iran UAE SA		Recommend disaggregate: Q, O, UAE K: emperors, groupers and other finfishes
	Amount of discards	Iran	UAE	Q: if any O: NA
5-b	Species composition of discards	Iran	UAE	Q: if any O: NA Iran: NA yet
Wire-traps				
3-a	Number of days at sea	Q O Iran SA	UAE	
	Alternative annual efforts	O Iran		
3-b	Total catch	Q O Iran UAE SA		
	Catch of narrow-barred Spanish mackerel	Q O SA	UAE	Iran: NA SA: check in any NBSM with traps
	Catch of emperors, groupers, sharks, and rays	Q Iran UAE SA		Recommend disaggregate: Q, O, UAE K: emperors, groupers and other finfishes
	Amount of discards		UAE	NA: O, Iran Q: if any
5-b	Species composition of discards		UAE	NA: O, Iran

List of MDR indicators (Cont.)

Cross (X) the correct option to confirm that each indicator is still applicable at a national level or indicate if it should be removed or modified. If you select modify, include the modification in full.

Hook-and-line		Maintain	Delete	Modify
3-a	Number of days at sea	Q O Iran SA	UAE	
	Alternative annual efforts	O Iran	Q	
3-b	Total catch	Q O Iran UAE SA		
	Catch of narrow-barred Spanish mackerel	Q O Iran UAE SA		
	Catch of emperors, groupers, sharks, and rays	Q O Iran UAE SA		Recommend disaggregation: Q, O
	Amount of discards		O UAE	NA : Iran Q : if any UAE : check if any discard (being HL target)
5-b	Species composition of discards		O UAE	NA : Iran Q : if any
Narrow-barred Spanish mackerel				
4-a-i	Annual catch	Q O Iran SA K		
	Monthly catch	Q O Iran SA		
4-a-ii	Fork length composition	Q O Iran SA K		
4-a-iii	Catch, effort and fork length composition of targeted gears	Q O Iran SA		Disaggregate by gear: Q, O
4-b	Relevant information on narrow-barred Spanish mackerel	O Iran		

List of Priority Species

Cross (X) the correct option to confirm for each species the capacity to report or suggest for removal or different level aggregation. Specify which species are part of the proposed aggregation.

FAO name	ASFIS code	Common name	Scientific name	Maintain	Delete	Aggregate
Green Tiger Prawn	TIP	Green Tiger Prawn	<i>Penaeus semisulcatus</i>	O SA K		
Blue swimming crabs	SCD	Blue swimming crab	<i>Portunus pelagicus</i>	Q O SA		
Pharaoh cuttlefish	IAH	Cuttlefish	<i>Sepia pharaonis</i>	Q O Iran SA		
Stolephorus anchovies	STO	Anchovies	<i>Stolephorus spp.</i>	O		Iran
Indian oil sardine	IOS	Indian oil sardine	<i>Sardinella longiceps</i>	O		Iran
Bludger	NGY	Jacks	<i>Carangoide gymnostethus</i>	Q O SA		Iran
Golden trevally	GLT	Golden trevally	<i>Gnathanodon speciosus</i>	Q O SA		Iran
Indian mackerel	RAG	Indian mackerel	<i>Rastrelliger Kanagurta</i>	O SA K		
Snubnose emperor	LBW	Orange finned emperor	<i>Lethrinus borbonicus</i>	Iran SA	K	Iran
Pink ear emperor	LTS	Redspot emperor	<i>Lethrinus lentjan</i>	Q O SA	K	Iran
Spangled emperor	LHN	Spangled emperor	<i>Lethrinus nebulosus</i>	O SA K		Iran
Coral hind	CFI	Coral grouper/Bluespotted grouper	<i>Cephalopholis miniata</i>	O SA		Iran

List of Priority Species (cont.)

Cross (X) the correct option to confirm for each species the capacity to report or suggest for removal or different level aggregation. Specify which species are part of the proposed aggregation.

FAO name	ASFIS code	Common name	Scientific name	Maintain	Delete	Aggregate
Orange-spotted grouper	ENI	Orange-spotted grouper	<i>Epinephelus coioides</i>	Q O SA K		Iran
White-spotted spinefoot	SCN	Rabbitfish	<i>Siganus canaliculatus</i>	Q O SA		Iran
Narrow-barred Spanish mackerel	COM	King mackerel/Narrow-barred Spanish mackerel	<i>Scomberomorus commerson</i>	Q O Iran SA K		
Longtail tuna	LOT	Longtail tuna	<i>Thunnus tonggol</i>	O Iran SA		
Kawakawa	KAW	Kawakawa	<i>Euthynnus affinis</i>	Q O Iran SA		
Requiem sharks nei	RSK	Sharks	<i>Carcharhinidae</i>	Q O SA	Later agreed to delete as all shark species are bycatch	Iran
Silver pomfret	SIP	Silver pomfret	<i>Pampus argenteus</i>	O Iran K		
Hilsa shad	HIL	Indian shad	<i>Tenualosa ilisha</i>	O Iran SA		
King soldier bream	KBR	King soldier bream	<i>Argyrops spinifer</i>	O Q SA		
Painted sweetlips	DGP	Painted sweetlips	<i>Diagramma pictum</i>	O Q SA		Iran
Smalltooth emperor	LEN	Smalltooth emperor	<i>Lethrinus microdon</i>	O Q SA		
Indian white prawn	PNI	Indian white prawn	<i>Penaeus indicus</i>	O Iran SA		

List of Priority Species (cont.)

Insert any species you consider of significant national importance, to be considered for inclusion to the List of Priority Species. Links can be made to the SDG 14.4.1 slides, to justify the addition of species to the list.

FAO name	ASFIS code	Common name	Scientific name	Comments
Tropical spiny lobster	ABX	Tropical spiny lobster	<i>Panulirus homarus</i>	Oman
Abalone nei	SLV	Abalone	<i>Haliotis maria</i>	Oman -> nei? how many species?
Haffara seabream	RXS	Haffara seabream	<i>Rhabdosargus haffara</i>	Qatar
Strongspine silver-biddy	GTV	Strongspine silver-biddy	<i>Gerres longirostris</i>	Qatar
Bluespot mullet		Bluespot mullet	<i>Crenimugil seheli</i>	Qatar
Orbicular batfish	LXR	Orbicular batfish	<i>Platax orbicularis</i>	Qatar
Blue-barred parrotfish	USY	Blue-barred parrotfish	<i>Sacarus ghobban</i>	Qatar (Attention for identification)
Hound needlefish	BTS	Hound needlefish	<i>Tylosorus crocodilus</i>	Qatar
Yellowtail scad	TUM	Yellowtail scad	<i>Atule mata</i>	Qatar
Pinjalo	PJP	Pinjalo	<i>Pinjalo pinjalo</i>	Qatar
Longnose trevally	NGH	Longnose trevally	<i>Carangoides chrysophris</i>	Qatar
Cobia	CBA	Cobia	<i>Rachycentron canadum</i>	Qatar
Malabar trevally	NGS	Malabar trevally	<i>Carangoides malabaricus</i>	Qatar
Yellowtail barracuda	BAQ	Yellowtail barracuda	<i>Sphraena flavicauda</i>	Qatar
Scordid rubberlip	GQD	Scordid rubberlip	<i>Plectorhinchus sorbidus</i>	Qatar

List of Priority Species (Cont.)

Insert any species you consider of significant national importance, to be considered for inclusion to the List of Priority Species. Links can be made to the SDG 14.4.1 slides, to justify the addition of species to the list.

FAO name	ASFIS code	Common name	Scientific name	Comments
Orange spotted trevally	NGJ	Orange spotted trevally	<i>Carangoides bajad</i>	UAE
Cobia	CBA	Cobia	<i>Rachycentron candaum</i>	UAE
Bluespot mullet	VMH	Bluespot mullet	<i>Valamugil seheli</i>	UAE
Goldstripe sardinella	SAG	Goldstripe sardinella	<i>Sardinelle giggosa</i>	Saudi Arabia
Black pomfret	POB	Black pomfret	<i>Parastromateus niger</i>	Saudi Arabia
Klunzuinger's mullet	LZK	Klunzuinger's mullet	<i>Liza klunzingeri</i>	Kuwait



Thank you ▪ Merci
Благодарю ▪ ¡Muchas gracias!
شكرا ▪ 謝謝

Stefania Savorè – Fishery Information Officer, FAO

Johanna Herfaut – Fisheries Specialist, FAO

Stefania.savore@fao.org

Johanna.Herfaut@fao.org

