



# FIRMS

## FISHERIES AND RESOURCES MONITORING SYSTEM

### RECOFI Stocks inventory

Related to Agenda item 5c

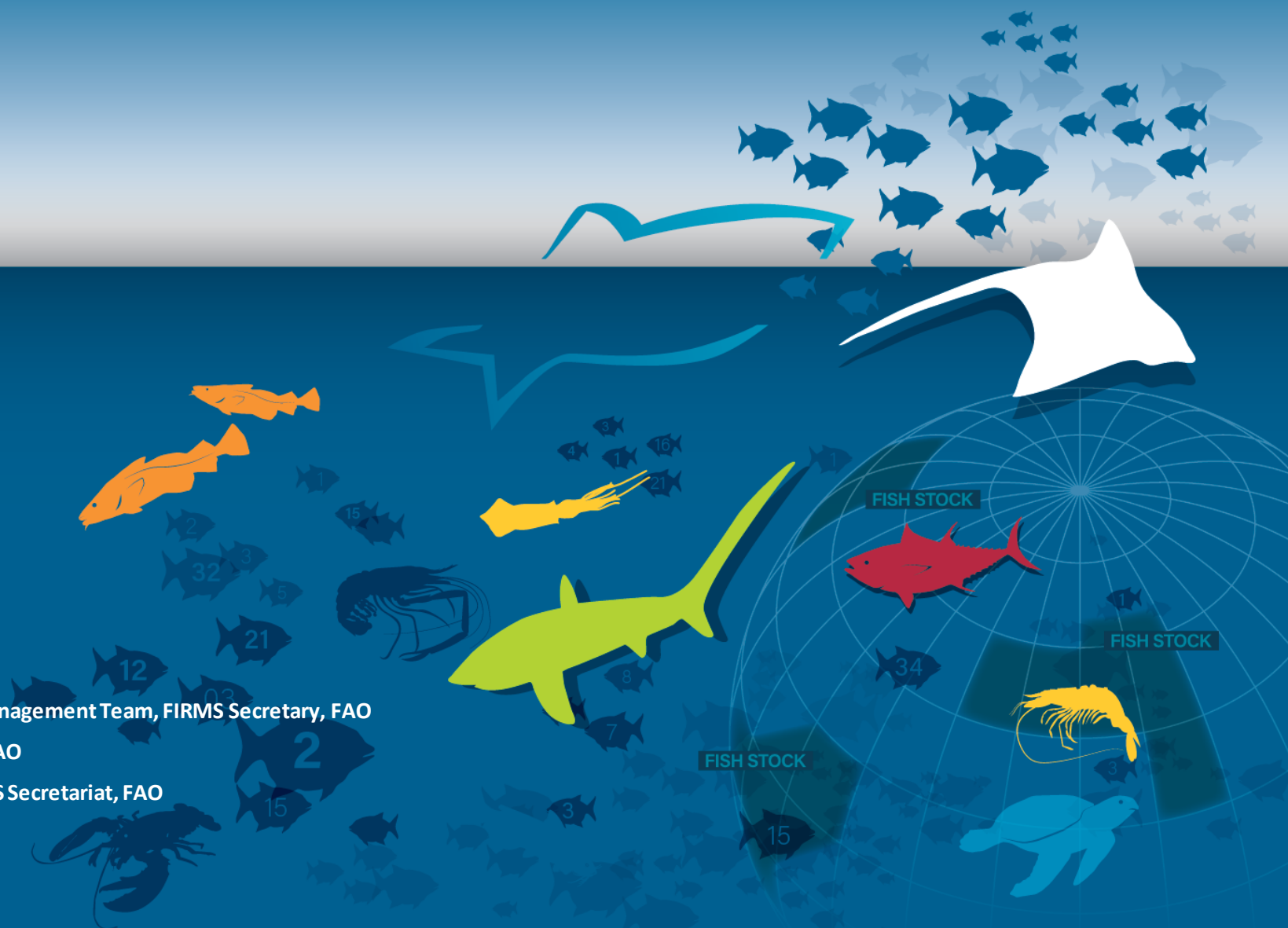
Marc Taconet, Team Leader Information and Knowledge management Team, FIRMS Secretary, FAO

Aureliano Gentile, Information Officer, FIRMS Secretariat, FAO

Bracken van Niekerk, Fisheries information Specialist, FIRMS Secretariat, FAO

FAO Fisheries and Aquaculture Division

 [FIRMS-Secretariat@fao.org](mailto:FIRMS-Secretariat@fao.org)



# RECOFI Stocks inventory

From RECOFI Commission X (2019):

*"...The Commission also acknowledged the benefits of developing FIRMS Stocks inventory of regional relevance for the RECOFI region and recommended the initiation of the process focusing on the Spanish mackerel and shrimps as priority species..."*

**118 marine resources status reports (from the RECOFI inventory), of which none are published as RECOFI-FIRMS fact sheets**

Country	Inventoried Marine Resources	Marine Resources in <a href="#">WGFM11</a> report
Bahrain	14	-
Iran	16	-
Iraq	9	-
Kuwait	16	4
Oman	20	18
Qatar	19	10
Saudi Arabia	11	-
UAE	12	-
RECOFI	1 (Narrow-barred Spanish mackerel)	-

# REECOFI Stocks inventory

APPENDIX 6

Current work on RECOFI priority species (updated)

Species	Country	Type of Research	Implementing institution	Methodology	Activities	Results
<b>Green Tiger Prawn</b> <i>Penaeus semisulcatus</i>	Oman	Biology and Fisheries Management	Marine Science and Fisheries Center	Trawlers Fisheries	Monthly Commercial Catch Sampling	Biomass estimate Size composition Age and growth Exploitation Rate = 0.71 Bycatch analysis Gear selectivity Long term monitoring program
<b>Blue swimming crabs</b> <i>Portunus pelagicus</i>	Oman	Biology and Fishing gear	MSFC	Commercial Catch Sampling	Monthly Commercial Catch Sampling	Age and growth Size composition Maturity analysis
<b>Pharaoh cuttlefish</b> <i>Sepia pharaonis</i>	Oman	Biology and stock assessment	MSFC	Commercial Catch Sampling Trawling Survey	Monthly Commercial Catch Sampling. Quarterly survey at sea	Biomass estimate stock spatial distribution Maturation, age and growth Recruitments Exploitation Rate = 0.61 MSY Target Reference point
<b>Stolephorus anchovies</b> <i>Stolephorus</i> spp.	Oman	Biomass estimate Stock spatial distribution	MSFC	Acoustic survey Mid-water trawling;	Quarterly survey at sea	Biomass estimate Stock spatial distribution

From RECOFI WGFM11, 2019

Report of the

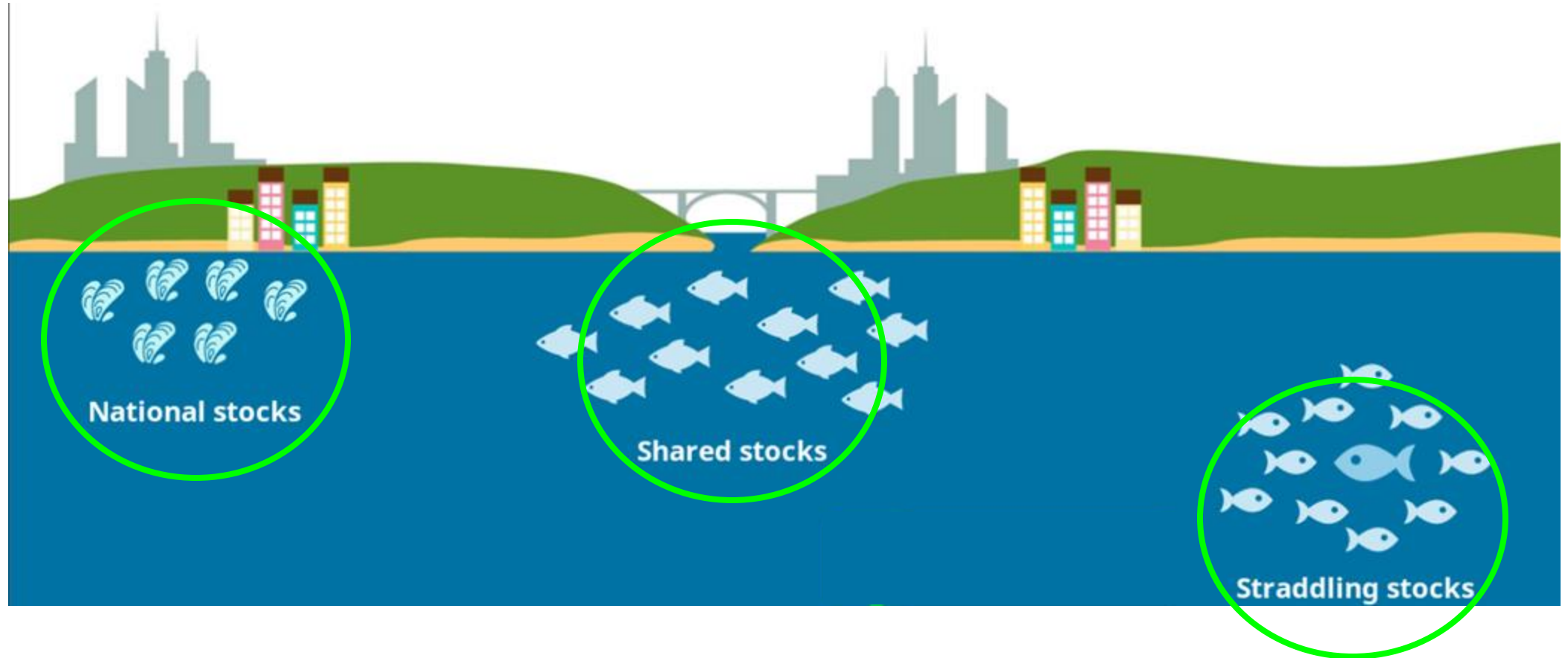
## ELEVENTH MEETING OF THE RECOFI WORKING GROUP ON FISHERIES MANAGEMENT

Muscat, Sultanate of Oman, 19-21 February 2019

<b>Pink ear emperor</b> <i>Lethrinus lentjan</i>	Kuwait	Demersal fish Stock assessment of the Gulf and Sea of Oman  (Period of Research 2011)	(KISR) Kuwait Institute for Scientific Research	Trawl survey, Survey and Trap fishing data through cruise programme  Stock Assessment and Modeling	Biomass estimation, Biological and ageing studies  Biomass modeling	Though the total biomass of fish stock from Kuwait waters from 9,515 to 14, 508 tonnes, no record for <i>Lethrinus lentjan</i> the present survey
	Oman	Biomass estimate Stock spatial distribution	MSFC	Trawling Survey	Quarterly survey at sea	Biomass estimate Stock Spatial distribution Maturation
	Qatar	Fish stock evaluated by comparing the current situation with that required to achieve the MSY. Relative Biomass and relative fishing effort estimation	Fisheries Department	Commercial catch sampling	Monthly commercial catch sampling	Relative Biomass (B/Bmsy) = 0.7808; Relative fishing effort (F/Fmsy) = 1.0640

<b>Spangled emperor</b> <i>Lethrinus nebulosus</i>	Oman	Biomass estimate Stock spatial distribution Biology and stock assessment	MSFC	Trawling Survey Commercial catch sampling	Quarterly survey at sea Monthly Commercial Catch Sampling.	Biomass estimate Stock Spatial distribution Maturity Age and growth Recruitments
	Qatar	Fish stock evaluated by comparing the current situation with that required to achieve the MSY. Relative Biomass and relative fishing effort estimation	Fisheries Department	Commercial catch sampling	Monthly commercial catch sampling	Relative Biomass (B/Bmsy) = 0.5946; Relative fishing effort (F/Fmsy) = 1.385
<b>Orange-spotted grouper</b> <i>Epinephelus coioides</i>	Kuwait	Demersal fish Stock assessment of the Arabian Gulf and Sea of Oman (Period of Research 2007- 2011)	(KISR) Kuwait Institute for Scientific Research	Trawl survey, Acoustic Survey and Trap (gargoor) fishing data through five cruise programmes Stock Assessment and Modeling	Biomass estimation, Biological and ageing studies  Biomass modeling	Biomass of <i>Epinephelus coioides</i> from Trawl survey ranged from 6.3 to 216.7 tonnes in different cruises in Kuwait waters.
	Oman	Biomass estimate Stock spatial distribution Biology	MSFC	Trawling Survey Commercial catch sampling	Quarterly survey at sea Monthly Commercial Catch Sampling.	Biomass estimate Stock Spatial distribution Reproductive characteristics

# Straddling, shared and national Stocks



**FIRMS:** shared and straddling stocks under RFBs mandates

**SDG 14.4.1 Questionnaire:** national and shared stocks

# Moving on with decisions on Marine resources published under the FIRMS inventory – guidance on general criteria

- **Stocks** from among the RECOFI **priority species**
- Those for which there is an agreement that they are shared between at least **two** RECOFI Members, and are already matter of **joint assessment** (or which would deserve joint assessment; NSBM or some pelagic or shrimp stocks would match this case)
- Those for which there are good assumptions that they are shared, hence natural candidate for joint assessment, and for which assessments (currently as national assessment units) are accepted/endorsed/peer reviewed by RECOFI (e.g. perhaps those listed within the **WGFM report?**)
- Lastly, those national stocks which RECOFI Members would like to see peer **reviewed through RECOFI** (this last category is unlikely to exist now, but exist in other bodies such as ICES or GFCM)



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

[FIRMS-Secretariat@fao.org](mailto:FIRMS-Secretariat@fao.org)

