

THE FAO VOLUNTARY GUIDELINES ON THE MARKING OF FISHING GEAR

Pingguo He | AOSPAR Workshop | 18 February 2025

- Developed through the 2016 Expert Consultation on the Marking of Fishing Gear and the 2018 Technical Consultation on the Marking of Fishing Gear
- Endorsed by the 33rd Session by FAO Committee on Fisheries in 2018
- Considers gear marking as an important component of broader fisheries management measures
- Views gear marking as an important tool in combating ALDFG and IUU fishing
- Requires that a risk assessment be undertaken when implementing a system for gear marking













FISHING GEAR MARKING RISK ASSESSMENT: POTENTIAL RISKS

- Environmental impact (plastic pollution)
- Ecological impact (ghosting fishing; impact on ETP species; habitats vulnerability and fragility)
- Economic impact (gear replacement costs, loss of fishing time; and cost of implementation; considers economic nature of the fishery, e.g., subsistence, artisanal, small-scale, industrial; IUU fishing;)
- Technological impact (Gear types; numbers of gear units; numbers of vessels; method of operation; marking technology)
- Safety and navigational impact (risks to the vessel operating the gear, risk to other fishing vessels and non-fishing vessels; risks to other ocean users, e.g., divers, beach goers)















EXAMPL	ES OF TYPES OF R	
Fish	ing gear in normal fishing conditions	
	Gear loss	
	Ownership dispute	
	Overcapacity	
	Illegal fishing	
	Gear conflict	
	Navigation	
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LII FISHING Table 2. An examp	CELIH G GEAR G	OOD UNDER I RENADA	OF OCC NORMAL I FISHING	CURR FISHING GEARS	ENCE G COND		
		iear in normal t	ishing conditions	– Likelihoo	d of occurrenc	ce (1–5)	The second second
Gear type	Gear loss	Ownership dispute	Overcapacity	Illegal fishing	Gear conflict	Navigation hazard	27.7 B.01 06 08
Beach seine	1	1	1	1	2	1	
Set gillnets	4	5	3	1	3	4	1
Pots	4	5	3	1	5	3	
Handlines	2	1	1	1	1	1	
Set longline	3	2	5	1	3	2	
Drift longlines	5	2	5	5	5	4	10
Vertical longline	3	2	5	1	3	4	(())
Trolling lines	2	1	1	5	1	2	
Spear	1	1	1	5	1	1	N. Martin
aFAD	4	1	2	1	4	5	N. N
<i>Note:</i> Scores for ((where 1 is lowes) operation	different risks t and 5 is hi	s for Grenada ghest), based	fishing gears wh on their design	en they are characterist	e in normal fis tics, fishing n	shing conditions nechanism, and	

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P fishing g	OTI GR	EN7 Nder ENAD	FIAI Nori A FISH	. IN mal hing	/IP/ FISHII GEAF	ACT NG CO RS		TION	
Table 4. An exam	ple of scori	ng the im	pact of ris	s throug	h stakeho	lder surv	eys on the	importance or	
A	B	C C	D	F	F	G	н		err Rot of the
Gear type	Gear in	normal fis Owner.	shing condi Over	tions – im Illegal	pact score Gear	(1–5) Nav.	Mean impact	Rescaled mean impact	197 DE 0
	Gear loss	Dispute	capacity	fishing	conflict	hazard	score	score	
Beach seine	2.7	3.0	1.6	2.5	2.8	3.0	2.6	3	
Set gillnets	3.6	4.0	2.1	3.3	3.8	4.0	3.4	4	
Pots	2.7	3.0	1.6	2.5	2.8	3.0	2.6	3	1 1
Handlines	4.5	4.9	2.6	4.1	4.7	4.9	4.3	5	10
Set longline	3.6	4.0	2.1	3.3	3.8	4.0	3.4	4	
Drift longlines	4.5	4.9	2.6	4.1	4.7	4.9	4.3	5	
Vertical longline	1.8	2.0	1.0	1.6	1.9	2.0	1.7	2	
Trolling lines	4.5	4.9	2.6	4.1	4.7	4.9	4.3	5	A
Spear	0.9	1.0	0.5	0.8	0.9	1.0	0.9	1	· · · · · · · · · · · · · · · · · · ·
aFAD	3.6	4.0	2.1	3.3	3.8	4.0	3.4	4	
Note: Impact score	es when the	gear is in i	normal fish Mean impa	ing condit	ions for G	renada fis	hing gears,	considering the	
gear s importance	as provided	III TADIE 1.	wear impa	ict scores	are rescale	eu to 1–5.			
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EXA	MPLES OF TYPES OF F Identified through stakeholder inp	RISKS
Fishing gear normal fishir conditions	n g	ALDFG
Gear loss Ownership dispu Overcapacity Illegal fishing	e Gear abandonment Gear Discard	Plastic pollution Ghostfishing Origin tracing Navigation
Gear conflict Navigation		Fouling seabed Economic loss
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	LIKELIH	100	D O	FOC	CU	RRE	NCE	: AL	DFG	
		G	REN/	ADA FIS	SHIN	G GE	ARS			
		t						1 ast o		
	Table 5. An exam	ple of scori	ng likelih	ood of occuri	ence of	ALDFG ris	ks			-
	A	В	С	D	E	F	G	н	1	
			AL	DFG:Likelihoo	d score (1	-5)		Mean	Rescaled	B.01 06
	Gear type	Plastic pollution	Ghost fishing	Traceability of ALDFG	Nav. hazard	Fouling seabed	Economic loss	likelihood score	mean likelihood score	
	Beach seine	3	3	1	3	3	5	3.1	4	
	Set gillnet	3.2	5	3	3	5	4	3.9	5	
	Pot	1.2	5	2	2	4	4	3.1	4	
	Handline	2	1	1	1	2	2	1.6	2	6
	Set longline	2.4	2	2	2	5	4	3.0	3	$\left(\right)$
	Drift longline	5	3	5	5	2	5	4.2	5	Ľ
	Vertical longline	1.2	2	5	5	2	3	3.1	4	~ ~
	Trolling line	2	1	2	1	3	2	1.9	2	
	Spear	0.2	1	1	1	1	1	1.0	1	
	aFAD	2.4	4	5	5	3	5	4.1	5	
	Vertical longline Trolling line Spear aFAD	1.2 2 0.2 2.4	2 1 1 4	5 2 1 5	5 1 1 5	2 3 1 3	3 2 1 5	3.1 1.9 1.0 4.1		4 2 1 5
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	GF	RENA	JDA FIS	HING	- (A 1 3 C			
					J GE	ARS			
Table 7. Example	of impact s	cores for	ALDFG risks						
A	В	С	D	E	F	G	н	- I	
		ALDFG: impact score (1–5) Rean							
Gear type	Plastic pollution	Ghost fishing	Traceability of ALDFG	Nav. hazard	Fouling seabed	Economic loss	impact score	impact	
Beach seine	2.1	2.9	2.2	2.5	2.3	2.7	2.4	3	
Set gillnet	2.8	3.8	2.9	3.3	3.1	3.7	3.3	4	
Pot	2.1	2.9	2.2	2.5	2.3	2.7	2.4	3	
Handline	3.5	4.8	3.6	4.1	3.8	4.6	4.1	5	
Set longline	2.8	3.8	2.9	3.3	3.1	3.7	3.3	4	
Drift longline	3.5	4.8	3.6	4.1	3.8	4.6	4.1	5	
Vertical longline	1.4	1.9	1.4	1.6	1.5	1.8	1.6	2	
Trolling line	3.5	4.8	3.6	4.1	3.8	4.6	4.1	5	
Spear	0.7	1.0	0.7	0.8	0.8	0.9	0.8	1	
	0.0100		2.0	2.2	2.1	27	33	4	











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