

## Article

# Governing Distant-Water Fishing within the Blue Economy in Madagascar: Policy Frameworks, Challenges and Pathways

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## 1 Supplementary Material 1

### List of actors interviewed in 2017 (31) and 2018 (9)

	Status	Town	Reference in the text
Fishers	Artisanal fisher and boat owner	Antsiranana	ArtFisher1
	Artisanal fisher and boat owner	Antsiranana	ArtFisher2
	Artisanal fisher and boat owner	Antsiranana	ArtFisher3
	Artisanal fisher	Antsiranana	ArtFisher4
	Artisanal fisher	Antsiranana	ArtFisher5
	Artisanal fisher	Antsiranana	ArtFisher6
	Artisanal fisher	Antsiranana	ArtFisher7
	Artisanal fisher and boat owner	Mahajanga	ArtFisher8
	Artisanal fisher	Mahajanga	ArtFisher9
	Fishing association representative	Mahajanga	AssoFisher1
	Artisanal fisher	Toamasina	ArtFisher10
	Artisanal fisher	Toamasina	ArtFisher11
	Fishing association representative	Toamasina	AssoFisher2
	Small-scale fisher	Antsiranana	SSFisher1
	Small-scale fisher	Antsiranana	SSFisher2
	Small-scale fisher	Antsiranana	SSFisher3
	Small-scale fisher	Mahajanga	SSFisher5
	Small-scale fisher	Mahajanga	SSFisher6
	Small-scale fisher	Mahajanga	SSFisher7
	Small-scale fisher	Ste-Luce	SSFisher8
	Small-scale fisher	Ste-Luce	SSFisher9
	Small-scale fisher	Ste-Luce	SSFisher10
NGO Staff	Tous Azimut	Antsiranana	NgoRep1
	Aquatic Services	Tolagnaro	NgoRep2
	Blue Ventures	Antananarivo	NgoRep3

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	WWF	Antananarivo	NgoRep4
	Mihari Network	Antananarivo	NgoRep5
Government officials	Statistic Unit Director	Antsiranana	GovRep1
	Statistic Unit scientist	Antsiranana	GovRep2
	Statistic Unit Surveyor	Antsiranana	GovRep3
	Regional fisheries director	Antsiranana	GovRep4
	Head of MCS regional unit	Antsiranana	GovRep5
	Regional fisheries director	Tolagnaro	GovRep6
	Statistic Unit scientist	Mahajanga	GovRep7
	Regional fisheries director	Mahajanga	GovRep8
	Director of fisheries	Antananarivo	GovRep9
	Head of statistics unit	Antananarivo	GovRep10
	Head of industrial fisheries unit	Antananarivo	GovRep11
	Head of tuna fisheries unit	Antananarivo	GovRep12
	Head of MCS unit	Antananarivo	GovRep13

## 2 Supplementary Material 2

### Summary of key clauses in the SWIOFC guidelines on minimum terms and conditions for fishing access agreements

Clause	Content
Appointment of a national agent	14.1. Each coastal State should require the flag States' fishermen's associations, and operators of licensed foreign fishing vessels, supply and transport vessels to appoint a certified agent from the coastal State. The coastal State should hold <u>the agent legally accountable for the vessel and its activities, including the ability to receive documentation of and respond to legal processes.</u>
Bycatch	22.1. <u>All licensed fishing vessels should land all bycatch at a designated port and should not discard at sea fish except for endangered, threatened and protected species (ETPs), which should be released immediately after, capture to minimize mortality.</u>
Crew	23.1. SWIOFC <u>States should encourage at least 10% employment of regional crews on foreign fishing vessels</u> licensed in the region.
Financial compensation	<p>7.1. States may receive financial <u>compensation</u> for permitting a fishing, supply or transport vessel to operate within waters under their national jurisdiction <u>with due consideration of, <i>inter alia</i>, potential catch, its potential value based on a prevailing market price, and the cost of management</u> in regard to tuna and tuna-like species resources.</p> <p>7.2. States will strive to work together to standardize and harmonize financial <u>compensation</u> for access to resources of tuna and tuna-like species within waters under their national jurisdiction <u>with at least a minimum of twelve (12%) percent of the average prevailing market value</u> of the tuna and tuna-like species resources.</p>

Fishing zone	<p>10.1. <u>No licensed foreign fishing vessels</u>, including supply and transport vessels, should be permitted to operate within the internal waters, archipelagic waters (in the case of an archipelagic State), <u>or territorial sea, or in any other restricted or protected area</u> of a SWIOFC State.</p> <p>10.2. SWIOFC States should provide to the foreign licensed fishing vessels with geographical <u>coordinates of the licensing states' restricted and protected areas</u>.</p>
Landing	21.1. SWIOFC States should require that all foreign fishing vessels land all their catch in one of their designated ports.
Management of FADs	18.5 SWIOFC States may decide the number of FADs deployed by licensed vessels in waters under their jurisdiction. This number should not exceed the number of drifting FADs set in the relevant IOTC Resolutions.
Measure in case of VMS/AIS malfunction	13.6. <u>Licensing States should require licensed vessels to transmit data through other means in the case of a VMS or AIS malfunction</u> , and commit to repairing any such malfunction within seven (7) days to reinstate regular data transmissions, or to return to a port designated by the licensing coastal State. [...]
Protection of observers	12.7. <u>In case of non-observance or breach of the international rules for the safety and protection of observers</u> against bribing, threatening, intimidation, assault and/or sexual harassment, the relevant coastal and flag States may collaborate and adopt in a coordinated manner penalties and sanctions under their respective jurisdictions. These penalties may include, but not be limited to, the suspension of fishing access to the SWIOFC Region.
Publication of licensed vessels	8.1. SWIOFC States should compile and publish a regional record of the foreign fishing vessels, including supply and transport vessels, licensed to operate in the SWIOFC Region in regard to tuna and tuna-like species.
Responsibility of flag state/fishing association	<p>9.1. <u>The flag State of foreign fishing vessels</u> licensed to operate in waters under jurisdiction of a SWIOFC State should collaborate with SWIOFC States to ensure the compliance of its flagged vessels with the applicable international law, laws and regulations of the SWIOFC State and the flag State, respectively. [...]</p> <p>9.2. The <u>fishing associations</u> through which vessels received licenses to operate in waters under jurisdiction of a SWIOFC State should ensure compliance of their vessels with the SWIOFC State's laws and regulations and the terms of any access agreements under which they operate.</p>
Transshipment	20.2. SWIOFC States should only allow transshipment to occur at designated ports or offshore terminals, in accordance with the PSMA and the IOTC Resolution on PSM. <u>At-sea transshipments by any fishing vessel should be prohibited</u> within waters under the jurisdiction of a SWIOFC State, unless the safety of the vessel and crew is at risk, and authorization is issued by the licensing State.
Vessel reporting	11.2. SWIOFC States should require all licensed foreign fishing vessels operating in regard to tuna and tuna-like species to report the quantity and type of catch by species harvested after each fishing trip.