Comparison among Proposals on DFADs (Prop A, B, and D)

1. Definition

• The colored portions (A: blue, D: green, C: red) are those that are different from the current Resolution definitions.

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
a) Fish Aggregating Device (FAD)	a) "Fish Aggregating Device (FAD)"	a) "Fish Aggregating Device (FAD)"	a) Fish Aggregating Device (FAD)
means a permanent, semi-permanent	means a permanent, semi-permanent	means a permanent, semi-permanent	means a permanent, semi-permanent
or temporary object, structure or	or temporary object, structure or	or temporary object, structure or	or temporary object, structure or
device of any material, man-made or	device of any material, man-made or	device of any material, man-made or	device of any material, man-made or
natural, which is deployed and/or	natural, which is deployed and/or	natural, which is deployed and/or	natural, which is deployed and/or
tracked, for the purpose of	tracked, for the purpose of	tracked and may aggregate fish (full	tracked, for the purpose of
aggregating target tuna species for	aggregating target tuna species for	stop).	aggregating target tuna species for
consequent capture.	consequent capture.	b) "Drifting Fish Aggregating Device	consequent capture.
b) Drifting Fish Aggregating Devices	b) "Drifting Fish Aggregating Device	(DFAD)" means a FAD not tethered to	b) Drifting Fish Aggregating Devices
(DFADs) means a FAD not tethered to	(DFAD)" means a FAD not tethered to	the bottom of the ocean (full stop).	(DFADs) means a FAD not tethered to
the bottom of the ocean. A DFAD	the bottom of the ocean (full stop).	a) "instrumented huev" means a huev	the bottom of the ocean. A DFAD
typically has a floating structure (such	c) "Anchorod Eich Aggrogating	c) "instrumented buoy" means a buoy	typically has a floating structure (such
as a bamboo or metal raft with	c) "Anchored Fish Aggregating Device" (AFAD) means a man-made	clearly marked with a unique reference number allowing	as a bamboo or metal raft with
buoyancy provided by buoys, corks,	FAD tethered to the bottom of the	identification of its owner and	buoyancy provided by buoys, corks,
etc.) and a submerged structure	ocean (full stop).	equipped with a satellite tracking	etc.) and a submerged structure
(made of old netting, canvass, ropes,		system to monitor its position	(made of old netting, canvass, ropes,
etc.).	d) "Log" means a floating object of		etc.).
c) Anchored Fish Aggregating Devices	natural source or accidentally lost	d) "activation of a buoy" means the	
(AFADs) means a FAD tethered to the	from anthropic activities and that was	act of initialising satellite	
bottom of the ocean. It usually	not built and deployed for the	communication service, which is done	
consists of a very large buoy and	purpose of aggregating and/or	by the buoy supplier company at the	
anchored to the bottom of the ocean	locating target tuna species for	request of the buoy owner. The buoy	
with a chain.	subsequent capture.	can be transmitting or not, depending	
	e) "Instrumented buoy" means a buoy	if it has been manually switched on.	
d) Instrumented buoy means a buoy	clearly marked with a unique		
	Clearly marked with a unique		

with a clearly marked with a unique reference number allowing identification of its owner and	reference number allowing identification of its owner and equipped with a satellite tracking	(Operational buoy definition absent) e) "deactivation of a buoy" means the	
equipped with a satellite tracking system to monitor its position.	system to monitor at least its position.	act of cancelling satellite communications service, which is done by the buoy supplier company	
e) Operational buoy means any instrumented buoy, previously	 f) "Operational buoy" means any instrumented buoy, previously 	at the request of the vessel owner or buoy owner.	
activated, switched on and deployed at sea on a drifting FAD or log, which transmit position and any other available information such as eco- sounder estimates.	activated, switched on and deployed at sea on a drifting FAD, which transmits position and any other available information such as eco- sounder data.	f) "buoy owner" means any legal or natural person, entity or branch, who is paying for the communication service for the buoy associated with a DFAD that is registered on the DFAD	
f) Activation of a buoy means the act of initializing satellite communication service, which is done by the buoy supplier company at the request of the vessel owner or manager.	g) "Responsible buoy operator" means the owner/master/operator of a fishing vessel who is in charge of tracking an instrumented buoy and is authorised to request its activation	Register, and/or who is authorised to receive information from the satellite buoy, as well as to request its activation and/or deactivation.	
g) Deactivation of a buoy means the act of cancelling satellite communications service, which is	and/or deactivation. h) "Activation of a buoy" means the act of initialising satellite	g) "reactivation" means the act of re- enabling satellite communications services by the buoy supplier company at the request of the buoy	
done by the buoy supplier company at the request of the vessel owner or manager. h) Buoy owner means any legal or	communication service, which is done by the buoy supplier company at the request of the responsible buoy operator.	owner. h) "abandoned DFAD" means a DFAD that was initially deployed with the intention of later retrieval but that is	
natural person, entity or branch, who is paying for the communication	i) "Deactivation of a buoy" means the act of cancelling satellite	deliberately left at sea due to <i>force</i> <i>majeure</i> or other reasons.	
service for the buoy associated with a FAD, and/or who is authorized to receive information from the satellite buoy, as well as to request its	communications service, which is done by the buoy supplier company at the request of the responsible buoy operator.	i) "lost DFAD" means a DFAD over which the buoy owner has lost control and that cannot be located and/or retrieved by the buoy owner.	

activation and/or deactivation. i) Reactivation: the act of re-enabling satellite communications services by the buoy supplier company at the request of the buoy owner or manager. j) Buoy in stock means an instrumented buoy acquired by the owner which has not been made operational.	 j) "Reactivation" means the act of reenabling satellite communications services by the buoy supplier company at the request of the responsible buoy operator. k) "Abandoned DFAD" means a DFAD which the responsible buoy operator has deliberately left at sea due to force majeure or other reasons and over which the buoy supplier can transmit localisation information for the purpose of retrieving the DFAD. l) "Lost DFAD" means a DFAD previously tracked with an instrumented buoy by the responsible buoy operator and over which control has been lost due to several reasons (appropriation, beaching, sinking, etc.) and that cannot be located by neither responsible buoy operator nor the buoy supplier. m) "Discarded DFAD" means a DFAD that is released at sea without any attempt for further control or recovery by the responsible buoy operator. n) "Biodegradable material" means a 	 j) "discarded DFAD" means a DFAD that is released at sea without any attempt for further control or recovery by the buoy owner. k) "biodegradable materials" means renewable lignocellulosic materials (i.e., plant dry matter - here described as natural material) and/or bio-based biodegradable plastic compounds. Those materials shall degrade in normal conditions of the use of DFADs and both be biodegradable in marine environments in accordance with international relevant standards or certification labels for plastic compostability in marine environments and compostable on land. In addition, the substances resulting from the degradation of these materials shall not be toxic for the marine and coastal ecosystems or include heavy metals in their composition. 	
	renewable lignocellulosic material (i.e., plant dry matter - here described as natural material) and/or bio-based biodegradable plastic compound.		

Those materials shall degrade in normal conditions of use of DFADs and be biodegradable in marine environments. In addition, the substances resulting from the degradation of these materials shall not be toxic for the marine and coastal ecosystems or include heavy metals in their composition. Those materials shall be used provided they comply with international standards	
Committee following the preparatory work by the <i>ad hoc</i> working group on	
FADs.	

2. Application

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
2. This Resolution shall apply to CPCs	2. This Resolution shall apply to	2. This Resolution shall apply to	2. This Resolution applies to all CPC
having purse seine vessels and fishing	Contracting Parties and Cooperating	Contracting Party and Cooperating	flag purse seine vessels and
on Drifting Fish Aggregating Devices	Non-Contracting Parties (CPCs) having	Non-Contracting Party (CPC) flag	associated supply and support vessels
(DFADs), equipped with instrumented	vessels fishing on FADs aggregating	purse seine vessels fishing on DFADs	fishing for tuna or tuna-like species in
buoys for the purpose of aggregating	tuna species in the IOTC area of	aggregating target tuna species in the	the high seas within the IOTC area of
target tuna species, in the IOTC area	competence.	IOTC area of competence as well as	competence.
of competence. Only purse seiners		associated supply or support vessels.	
and associated supply or support	3. Only purse seiners and associated		
vessels are allowed to deploy DFADs	supply vessels are allowed to deploy	10. CPCs shall ensure that only purse	
in the IOTC Area of Competence.	DFADs instrumented buoys in the	seine vessels and associated supply or	
	IOTC Area of Competence.	support vessels use DFADs in the IOTC	
		area of competence.	

3. DFAD Register

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
No provision	No provision		No provision
		3. The IOTC Executive Secretary shall	
		maintain a register for all DFADs	
		deployed in the IOTC area of	
		competence (DFAD Register). The	
		IOTC Executive Secretary shall provide	
		detailed guidelines and a dedicated	
		technological tool. The DFAD Register	
		shall be effective as of 1 January 2024.	
		4. CPCs shall submit electronically to	
		the IOTC Executive Secretary, for each	
		of their flag purse seine vessels that is	
		authorised to operate in the IOTC area	
		of competence, the following	
		information for inclusion in the DFAD	
		Register: a) unique instrumented	
		buoy reference number that will allow	
		the identification of its owner;	
		b) name of the purse seine vessel to	
		which the instrumented buoy is	
		assigned;	
		c) name of the buoy owner;	
		d) unique IOTC Vessel Register	
		number of the purse seine vessel that	
		is assigned to the instrumented buoy;	
		e) flag State of the purse seine vessel	
		that is assigned to the instrumented	

buoy; f) manufacturer of the instrumented buoy; g) model name of the instrumented buoy.
7. Flag CPCs shall submit the information under paragraph 4 to the IOTC Executive Secretary at least 24 hours before an instrumented buoy is activated, switched on and deployed at sea on a DFAD or any floating object.
8. CPCs shall promptly notify, after the establishment of their initial DFAD Register record, the IOTC Executive Secretary of any addition to, any deletion from and/or any modification of the information mentioned in paragraph 4 as included in the DFAD Register at any time such changes occur.
9. The IOTC Executive Secretary shall make the DFAD Register available in a secure section the IOTC website that is accessible to CPCs. The IOTC Executive Secretary shall make the data contained in the DFAD Registry available for purposes of scientific research and monitoring of compliance. For other users, the data

shall be made available upon written	
request to the IOTC Executive	
Secretary following agreement from	
the CPC concerned.	

4. DFAD limits

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
4. This Resolution sets the maximum	4. CPCs shall require, in respect of its	5. The maximum number of	No provision
number of operational buoys	flag vessels operating in the IOTC area	instrumented buoys that may be	
followed by any purse seine vessel at	of competence that:	registered on the DFAD Register to	
300 at any one time. The number of	a) the maximum number of	any purse seine vessel, at any one	
instrumented buoys that may be	-	time, shall not exceed 150 (DFAD	
acquired annually for each purse	operational buoys followed at any	Limits). Notwithstanding the	
seine vessel is set at no more than	one time by any purse seine vessel:	completion of any study undertaken	
500. No purse seine vessel shall have	i. from the 1 January 2024, to be 280;	at the request of the Commission, the	
more than 500 instrumented buoys	and	Commission may review the DFAD	
(buoy in stock and operational buoy)		Limits. This paragraph is without	
at any time. An instrumented buoy	ii. from the 1 January 2026, to be 260.	prejudice to the right of CPCs to	
shall be made operational only when	h) the manimum much an of	adopt more stringent DFAD Limits for	
physically present on board the	b) the maximum number of	their flag vessels or within their EEZ.	
purse-seine vessel to which it belongs	instrumented buoys that may be		
or its associated supply or support	acquired annually for each purse	6. Reactivated instrumented buoys	
vessel, and the event shall be	seine vessel shall not be more than	shall not count as new instrumented	
recorded in the appropriate logbook,	450.	buoys under the DFAD Limits but shall	
specifying the instrumented buoy	E March 1995	be counted as part of the original	
unique identification number and the	5. No additional instrumented buoy	limit of instrumented buoys that is	
date, time and geographical	shall be attributed to supply vessels.	allowed for each purse seine vessel.	
coordinates of its deployment.			
L A CDC may adapt a lower limit than	6. A CPC may adopt lower limits than		
5. A CPC may adopt a lower limit than	the one provided in paragraph 4 for		
the one set out in paragraph 4 for	its flag vessels and may adopt lower		

vessels flying its flag. Further, any CPC	limits for DFADs deployed in its	
may adopt a lower limit for DFADs	exclusive economic zone (EEZ).	
deployed in its EEZ than that stated in		
paragraph 4. The CPC shall review the adopted limit to ensure that such limit is not more than the limit fixed by the Commission.	7. In order to reduce the amount of DFAD used, data of operational buoy can be shared among multiple purse seine vessels only provided that:	
 6. CPCs shall ensure that as from the effective date of this Resolution, each of its purse seiners already in operation does not exceed the maximum number of operational and instrumented buoys at any one time as set out in paragraph 4. 9. Notwithstanding the completion of any study undertaken at the request of the Commission including the study 	 a) shared buoys are reported for each single purse seine vessel receiving the information, and not only for the responsible buoy operator, when reporting information as defined in paragraph 4a; b) shared buoys are accounted for as a fraction of the number of purse seiners sharing the same buoy, remaining within the limit set in 	
to be undertaken by the Working	paragraph 4; and	
Group adopted at Resolution 15/09 in	c) no instrumented buoy shall be	
relation to FADs, the Commission may	attributed to supply vessels.	
review the maximum number of		
instrumented buoys set out in		
paragraph 4.		

5. FAD Management and Reporting

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
 3. This resolution requires the use of instrumented buoy, as per the above definition, on all DFADs and prohibits the use of any other buoys, such as radio buoys, not meeting this definition. 7. All purse seine vessel, supply or support vessel shall declare to its respective CPC, the number of instrumented buoys onboard, including each unique identifier of the 	Prop A (EU) 9. In order to support the monitoring of compliance with the limitations established in this Resolution, CPCs shall: a) ensure their flag vessels use instrumented buoys on all DFADs and prohibit the use of any other buoys, such as radio buoys, that do not meet the definition in paragraph 1; b) ensure their flags vessels only deploy DFADs with an operational buoy ;	Prop D (KEN, etc) 11. CPCs shall ensure that their flag vessels exclusively use instrumented buoys registered to them in the DFAD Register on all DFADs and shall prohibit the use of any other buoys, such as radio buoys. 12. CPCs shall ensure that their flag purse seine vessels and associated supply and support vessels do not attach their own instrumented buoys to DFADs that are already equipped with the instrumented buoy of another vessel.	Prop B (India) No provision
 Including each unique identifier of the instrumented buoy before and after each fishing trip. 8. Reactivation of an instrumented buoy shall only be possible once it has been brought back to port, either by the vessel tracking the buoy/ associated supply or support vessel or by another vessel and has been authorized by the CPC. 	buoy ; c) ensure that their flag vessels only make their instrumented buoys active when physically present on board the purse seine vessel to which it belongs or its associated supply vessel, and that the event shall be recorded in the appropriate logbook, specifying the instrumented buoy unique identification number, the DFAD biodegradability category and the date, time and geographical coordinates of its deployment; d) ensure that reactivation of an instrumented buoy is only possible after it has been brought back to port		

have been a first state of the second state of	
by the flag vessel tracking the buoy,	
by an associated supply vessel or by	-
another flag vessel, and has been	vessels reactivate instrumented buoys
authorised by the CPC;	only once this has been authorised by
e) require that the responsible buoy	the flag CPC and once the
operator reports any deactivation o	f Instrumented buoys have been
an operational buoy at sea in the	brought back to port.
logbook, including the unique	
reference number, date, time, last	16. CPCs shall ensure that their flag
geographical coordinates and the	vessels fishing on DFADs annually
reasons for deactivation; and	submit the number of instrumented
	buoys assigned to them. This shall
f) require, while protecting business	include instrumented buoys which have been lost, abandoned and/or
confidential data, its flag vessels or	discarded by 1° by 1° grid area and
the instrumented buoy supplier	
company to report, daily informatio	n month strata and DFAD type.
on all active DFADs, including the	17. CPCs shall ensure that their flag
date, instrumented buoy ID, and	vessels record fishing and fishing-
assigned vessel and daily position	related activities in association with
(latitude, longitude). CPCs shall compile this information at monthly	
intervals and submit with a time del	
of at least 60 days, but no longer that	
90 days to the Secretariat.	
So days to the Secretariat.	18. CPCs shall report any factual
	information showing reasonable
	grounds for suspicion of violations
	against paragraphs 10-17 to the IOTC
	Executive Secretary.

6. FAD Management Plans

Current Measure	Prop A (EU)-DFAD MPs	Prop D (KEN, etc)-DFAD MPs	Prop B (India)
12. CPCs having vessels flying their	19. CPCs with flag vessels fishing on	19. CPCs having flag vessels fishing on	No provision
flag and fishing on FADs shall submit,	DFADs shall submit to the Secretariat,	DFADs shall submit, to the IOTC	
to the Commission, on an annual	each year in their annual	Executive Secretary, on an annual	
basis, Management Plans for the use	Implementation Report, a DFADs	basis, Fish Aggregating Device (FAD)	
of FADs. Due to their specificity in	Management Plan for the use of	Management Plans in accordance	
terms of users, type of boat/vessel	DFADs and associated technologies	with the Guidelines for Preparation of	
involved, fishing method and gear	(instrumented buoys and supply	FAD Management Plans as provided	
used and materials used in their	vessels).	for DFADs in Annex I.	
 construction, the Management Plans and Reporting Requirements for Drifting FADs (DFAD) and Anchored FADs (AFAD) shall be addressed separately for the purposes of this Resolution. The Plans shall at a minimum follow the Guidelines for Preparation for FAD Management Plans by each CPC as provided for DFADs in Annex I and AFADs in Annex II. 13. The Management Plans shall be analysed by the IOTC Compliance Committee. 	 20. The objectives of the DFAD Management Plan shall be, to the extent possible, to monitor and keep at sustainable levels the impact on small bigeye tuna and yellowfin tuna and non-target species associated with fishing on DFADs and to prevent the loss or abandonment of DFADs. 21. The DFAD Management Plan shall at a minimum follow the Guidelines for Preparation for DFAD Management Plan provided in Annex IV and include the assessment of the implementation of this Resolution 	 20. The Management Plans shall include initiatives or surveys to investigate and shall, to the extent possible, minimise the capture of juvenile bigeye tuna and yellowfin tuna and non-target species associated with fishing on DFADs. Management Plans shall also include guidelines to prevent the abandonment, discarding and loss of DFADs. 21. The IOTC Compliance Committee and the IOTC Scientific Committee 	
14. The Management Plans shall	and measures taken to achieve the	shall analyse the Management Plans	
include initiatives or surveys to	objectives presented in paragraph 18.	and report the results of this analysis	
investigate, and to the extent possible minimise the capture of small bigeye tuna and yellowfin tuna and non- target species associated with fishing on FADs. Management Plans shall also	22. The DFAD Management Plans shall be analysed by the IOTC Compliance Committee and by the IOTC Scientific Committee each in	to the Commission. 22. CPCs shall submit to the Commission, 60 days before the Annual Meeting, a report on the	

include guidelines to prevent, to the	their respective role.	progress of their Management Plans,	
extent possible, the loss or		including, if necessary, reviews of the	
abandonment of FADs.		initially submitted Management	
15. In addition to the Management Plans, all CPCs shall ensure that all fishing vessels flying their flag and fishing on FADs, including supply vessels, shall record fishing activities in association with FADs using the specific data elements found in Annex III (DFAD) and Annex IV (AFAD).		Plans, and including reviews of the application of the principles provided in Annex I.	
16. CPCs shall submit to the Commission, 60 days before the Annual Meeting, a report on the progress of the management plans of FADs, including, if necessary, reviews of the initially submitted Management Plans, and including reviews of the application of the principles set out in Annex III.			

7. DFAD Closure

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
No provision	No provision	23. With the objective of reducing the	DFAD prohibition
		fishing mortality of juvenile bigeye	
		and yellowfin tunas, CPCs shall ensure	3. The use of DFADs within the IOTC
		that their flag purse seine vessels	area of competence shall, as a
		fishing for bigeye, yellowfin and	precautionary measure, be prohibited
		skipjack tunas, as well as associated	from 1 January 2024, without
		supply or support vessels, do not fish on DFADs or deploy or maintain	prejudice to the adoption of an earlier prohibition of DFADs by the
		DFADs in the IOTC area of	Commission.
		competence between 0000hrs of 1 July and 0000hrs 30th September each year (DFAD Closure Period).	4. For the purpose of this Resolution, DFADs deployed in the territorial waters of coastal States by small-scale
		24. CPCs shall ensure that, if their flag purse seine vessels and associated	artisanal fishery will be exempted from this prohibition.
		supply and support vessels retrieve the electronic equipment on their DFADs during the DFAD Closure Period, they retrieve the entire DFAD and keep it on board the vessel until landed in port or until the end of the DFAD Closure Period.	5. CPCs shall take all measures necessary to prevent their fishing vessels and associated supply and support vessels from using DFADs in the IOTC area of competence by 1 January 2024.
		25. CPCs shall ensure that their flag vessels do not deploy or maintain DFADs during a period of 15 days prior to the beginning of the DFAD Closure Period.	6. CPCs shall take all necessary measures to ensure that owners and operators of their flag vessels retrieve all DFADs deployed by their flag vessels by 1 January 2024.
		26. CPCs shall ensure that during the	7. CPCs shall include in their annual

DFAD Closure Period, their flag purse	Report of Implementation a summary
seine vessels or associated supply or	of monitoring, control and
support vessels do not conduct any	surveillance measures related to
part of a set within five nautical miles	DFAD use in the IOTC area of
of a DFAD, meaning that at no time	competence.
may the vessel or its fishing gear or	
tenders be located within five nautical	8. The measure contained in this
miles of a DFAD while a set is being	Resolution shall not prevent CPCs
conducted.	from taking more stringent measures
	to regulate the use of DFADs in the
27. CPCs shall ensure that during the	IOTC area of competence.
DFAD Closure Period their flag purse	
seine vessels or associated supply or	
support vessels are not used to	
aggregate fish, or move aggregated	
fish, including through the use of	
underwater lights and chumming.	
28. The Commission shall review the	
DFAD Closure Period and associated	
measures and, if necessary, revise	
them based on advice by the IOTC	
Scientific Committee, taking into	
account monthly trends in free school	
and DFAD-associated catches.	

8. FAD Monitoring System

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
No provision	No provision	29. To support the monitoring of	No provision
		compliance with the DFAD Limits, and	
		to ensure the effective management	
		of DFADs, the IOTC Executive	
		Secretary shall establish and	
		administer, with the support of	
		external service providers as	
		appropriate, a DFAD Monitoring	
		System (DFAD-MS) to be activated by	
		1 January 2025.	
		30. The IOTC Compliance Committee shall develop rules and procedures for the operation of the DFAD-MS, to be	
		adopted by the Commission. These	
		rules and procedures shall include,	
		<i>inter alia</i> : a) minimum data standards	
		and formats;	
		b) rules on polling of instrumented	
		buoys;	
		c) cost recovery;	
		d) cost sharing;	
		e) measures to prevent tampering,	
		and	
		f) obligations and roles of fishing	
		vessels, CPCs, the IOTC Executive	
		Secretary and any external service	
		providers.	

 31. Once the DFAD-MS is operational, CPCs shall ensure that their flag vessels report the following real-time information about each instrumented buoy on the DFAD Register to the DFAD-MS when DFADs on the DFAD Register are first activated and until they are deactivated: a) the geographical location (in degrees, minutes and seconds); b) the date; c) the time; d) the instrumented buoy unique reference number of each instrumented buoy; and e) the name and IOTC registration number of the vessels assigned to the instrumented buoy.
32. Until the DFAD-MS is operational, CPCs shall ensure that their flag vessels report daily information containing the information mentioned in paragraph 31 on all active DFADs on the DFAD Register to the IOTC Executive Secretary. Such information shall be compiled at monthly intervals, to be submitted with a time delay of at least 60 days, but no longer than 90 days.

33. CPCs shall ensure that their flag
vessels report real-time information
on the geographical location (in
degrees, minutes and seconds) of
each instrumented buoy in 6-hourly
intervals to the DFAD-MS.

9. FAD Marking, Tracking and Recovery

			Ţ
vessels to report, daily information on	the master of the vessel. The marking	minutes and seconds) where the	
all active FADs to the Secretariat.	shall be separate from the	DFAD or part thereof was lost;	
Such information shall contain, date,	instrumented buoy. The standards for	f) measures taken to retrieve the	
instrumented buoy ID, assigned vessel	the individual marking of DFADs shall	DFAD or part thereof;	
and daily position, which shall be	be developed by the IOTC Scientific	g) any perceived threats of the	
compiled at monthly intervals, to be	Committee, following preparatory	imminent beaching of the DFAD;	
submitted with a time delay of at	work by the <i>ad hoc</i> working group on	h) geographical position (degrees,	
least 60 days, but no longer than 90	FADs and in close collaboration with	minutes and seconds) of potential	
days.	the Secretariat, at the latest at its	location of beaching; and	
25. The Commission shall establish a	2024 session. These standards shall	i) plans to recover beached DFADs	
DFAD tracking and recovery policy at	take into account the requirements of	and how the recovery costs will be	
its annual session in 2021, on the	paragraph 11 on DFAD	collected and shared.	
basis of recommendations from the	biodegradability to avoid the erasing		
ad-hoc FAD working group. The policy	or loss of the marking.		
shall define DFAD tracking, reporting	16. CPCs shall require the responsible	35. CPCs shall ensure that their flag	
of lost DFADs, arrangements to alert	buoy operator to declare the end of	vessels, before reporting the loss of a	
coastal States of derelict/lost DFADs	use (retrieved, lost or abandoned) of	DFAD, or part of a DFAD, in	
at risk of beaching in near real-time,	the DFADs marked with an IOTC DFAD	accordance with paragraph 34,	
how and who recovers the DFADs,	unique identifier which they deployed	attempt to locate and retrieve such a	
how the recovery costs are collected	with their operational buoy.	DFAD as soon as possible and carry	
and shared.	17. CPCs shall ensure that no DFAD	equipment on board for these	
	are discarded by the responsible buoy	purposes.	
	operator. CPCs shall ensure that when		
	an operational buoy is retrieved from	36. CPCs shall ensure that if their flag	
	the sea, no DFAD is left without an	vessels cannot retrieve an active	
	operational buoy, so that the DFAD is	DFAD before it enters the EEZs of a	
	also retrieved if no other operational	coastal CPC that they report the	
	buoy is attached.	information provided in paragraph 34	
		to the relevant coastal CPC within 24	
	18. CPCs shall require that, if a DFAD	hours after the DFAD has entered its	
	is abandoned, immediately after the	EEZ.	
	deactivation of the instrumented		
	buoy attached to it, the responsible		

	27 CDCs shall an average the state of the	
buoy operator notify the flag State	37. CPCs shall ensure that their flag	
the date, time, last location of the	vessels record additional information	
buoy and the reasons for abandoning	for all lost, discarded and abandoned	
the DFAD. The flag State shall share	DFADs in accordance with Annex II.	
this information with the Secretariat.		
	42. Until a scheme to operationalise	
	the FAO Voluntary Guidelines on the	
	Marking of Fishing Gear (VGMFG) is	
	developed in accordance with the	
	Proposal of Terms of Reference for	
	developing a scheme to operationalise	
	the FAO Voluntary Guidelines on the	
	Marking of Fishing Gear (VGMFG);	
	<i>IOTC-2020-CoC17-14</i> , CPCs shall	
	implement the measures provided for	
	in the following paragraphs.	
	43. CPCs shall ensure that the	
	instrumented buoy attached to the	
	DFAD contains a physical, unique	
	reference number marking (ID	
	provided by the manufacturer of the	
	instrumented buoy) and that the	
	vessel's unique IOTC registration	
	number is clearly visible on the	
	instrumented buoy.	
	44. CPCs shall ensure that their flag	
	purse seine vessels and associated	
	supply and support vessels only use	
	DFADs whose raft and the sub-surface	
	structure underneath the raft have a	
	permanent mark showing the unique	
	permanent mark showing the unique	

vessel IOTC registration number attached to it. Each mark must be: a) at least 75mm x 65mm in size; b) made of durable material; and c) securely fixed to the sub-surface structure and not removable.
45. CPCs shall conduct inspections, both at sea and at port, to ensure that their flag vessels comply with gear marking and other requirements. CPCs shall report deployed DFADs found without required markings to the relevant flag CPC. CPCs shall conduct port state inspections of fishing gear in accordance with the procedures set out in Annex B, paragraph e) of the FAO Agreement on Port State Measures to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing (PSMA), including with respect to conditions relating to the marking of fishing gear.

10. Non-entangling and Biodegradable FAD

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
17. To reduce the entanglement of	10. To reduce the entanglement of	38. To reduce the entanglement of	No Provision
sharks, marine turtles or any other	sharks, marine turtles or any other	sharks, marine turtles or any other	
species, CPCs shall require their	species, CPCs shall ensure that the	species, CPCs shall ensure that the	
flagged vessels to use non-entangling	design and construction of any DFADs	design and construction of any DFADs	
designs and materials in the	to be deployed in the IOTC Area of	to be deployed in the IOTC Area of	
construction of FADs as outlined in	competence shall comply with the	competence shall comply with the	
Annex V.	following specifications as outlined as	following specifications in accordance	
18. To reduce the amount of synthetic	an example in Annex II:	with Annex III:	
marine debris, the use of natural or	a) the use of mesh materials shall be	a) the use of mesh materials shall be	
biodegradable materials in FAD	prohibited for any part of a DFAD; and	prohibited for any part of a DFAD;	
construction should be promoted.		b) only non-entangling material and	
CPCs shall encourage their flag vessels	b) only non-entangling material and	designs shall be used; and	
to use biodegradable FADs in	designs shall be used.	c) the sub-surface structure shall be	
accordance with the guidelines at		limited to a length of 50 meters.	
Annex V with a view to transitioning	11. To reduce the amount of synthetic		
to the use of biodegradable FADs,	marine debris, CPCs shall ensure that	39. To reduce the amount of synthetic	
with the exception of materials used	their flag vessels:	marine debris, CPCs shall ensure that	
for the instrumented buoys, by their	a) no longer deploy any DFADs of	their flag vessels:	
flag vessel from 1 January 2022. CPCs	category IV, as defined in Annex III;	a) use only DFADs of biodegradability	
shall, from 1 January 2022, encourage	b) use only DFADs of biodegradability	categories I, II and III, as defined in	
their flag vessels to remove from the	categories I, II or III, as defined in	Annex III;	
water, retain onboard and only	Annex III;	b) no longer deploy any DFADs of	
dispose of in port, all traditional FADs		category IV, as defined in Annex III;	
encountered (e.g. those made of	c) as of 1st of January 2026, use only	c) as of 1 January 2025, use only	
entangling materials or designs). The	category I or II DFADs, as defined in	DFADs of categories I and II, as	
reference year prescribed above shall	Annex III; and	defined in Annex III; and	
be reviewed in light of the Scientific	d) as of the 1st of January 2029, at the	d) as of 1 January 2026, use only	
Committee's recommendation	latest, use only category I DFADs, as	DFADs of category I, as defined in	
pursuant to Resolution 18/04 On	defined in Annex III.	Annex III.	

BioFAD experimental project.	12. Instrumented buoys shall not be		
19. CPCs are encouraged to conduct trials using biodegradable materials to facilitate the transition to the use of only biodegradable material for DFADS construction by their flagged vessels. The results of such trials shall be presented to the Scientific Committee who shall continue to review research results on the use of biodegradable material on FADs and shall provide specific recommendations to the Commission as appropriate.	12. Instrumented buoys shall not be deployed on DFADs which were deployed before the entering into force of this resolution and which do not comply with the requirements of paragraphs 10 and 11. Vessels encountering DFADs that are not compliant with the requirement of this resolution, shall automatically retrieve such DFADs from the water. 13) Between the 1st of January 2024 and the 31st of December 2028, vessels deploying exclusively Category I DFADs shall be allowed to deploy a number of operational buoys	 40. CPCs are encouraged to share their experiences and scientific knowledge on the use of biodegradable materials in DFADs. 41. CPCs shall ensure that any observers deployed on their flag purse seine vessels collect detailed information on the DFAD design used and its conformity with the requirements set out in Annex III prior to the deployment of each DFAD. 	
	equivalent to 10% more than the limit established in paragraph 4.		

11. Data Reporting

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
22. CPCs shall submit the data	8. CPCs shall:	46. CPCs shall submit the data	
elements prescribed in Annex III and		elements provided in Annex II to the	
Annex IV to the Commission,	a) ensure that purse seine and supply	Commission, consistent with the IOTC	
consistent with the IOTC standards	vessels using DFADs record any	standards for the provision of catch	
for the provision of catch and effort	fishing activity in association with a	and effort data, and these data shall	
data, and these data shall be made	floating object by providing the data	be made available for analysis to the	
available for analysis to the IOTC	and information listed Annex I and	IOTC Scientific Committee on the	
Scientific Committee on the	following a template provided by the	aggregation level set by Resolution	
aggregation level set by Resolution	Secretariat;	15/02 (or any subsequent	
15/02 (or any subsequent		superseding Resolution), and under	
superseding Resolution), and under	b) submit these data and information	the confidentiality rules set by	
the confidentiality rules set by	to the Commission, following the	Resolution 12/02 (or any subsequent	
Resolution 12/02 (or any subsequent	IOTC standards for the provision of	superseding Resolution).	
superseding Resolution).	catch and effort data; these shall be		
	made available for analysis to the		
	IOTC Scientific Committee at the		
	aggregated level set by IOTC		
	Resolution 15/02, and under the		
	confidentiality rules set by IOTC		
	Resolution 12/02.		

12. Purse Seine Vessels, Supply and Support Vessels

Current Measure (21/01)	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
18. CPCs shall gradually reduce supply	No provision	48. CPCs shall only authorize purse	No provision
vessels2 in purse seine operations		seine vessels already authorized to	
targeting tropical tuna, by 31st		fish in the IOTC area of competence	
December 2022 as specified below in		under their flag in the previous year.	
(a) and (b). Flag States shall submit			
the status of reducing the use of		49. Flag CPCs shall gradually reduce	
supply vessel as part of the report of		supply and support vessels by 31	
Implementation to the Compliance		December 2023. Flag CPCs shall	
Committee.		submit information on the status of	
a. From 1 January 2022 to 31		reducing the use of supply and	
December 2024: 3 supply vessels in		support vessels in their annual	
support of not less than 10 purse		Implementation Report.	
seiners, all of the same flag State3.			
h Na CDC is allowed to register and		50. Flag CPCs shall ensure that, after	
b. No CPC is allowed to register any		31 December 2023, no supply or	
new or additional supply vessel on the IOTC Record of Authorized		support vessels support purse seine	
		vessels in the IOTC area of	
Vessels.		competence.	
19. A single purse seine vessel shall			
not be supported by more than one			
single supply vessel of the same flag			
State at any point of time.			
20. Complementary to Resolution			
15/08 and to Resolution 15/02,			
CPC/flag States shall report annually			
before the 1st of January for the			
coming year of operations which			
Purse seiners are served by each			
supply vessel. This information will be			

published on IOTC website so as to be		
accessible to all CPCs and is		
mandatory.		

13. Scientific Work and Analysis

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
23. The IOTC Scientific Committee will analyse the information, when available, and provide scientific advice on additional FAD management options for consideration by the Commission, including recommendations on the number of FADs to be operated, the use of biodegradable materials in new and improved FADs design. When assessing the impact of FADs on the dynamic and distribution of targeted fish stocks and associated species and on the ecosystem, the IOTC Scientific Committee will, where relevant, use all available data on abandoned FADs (i.e. FADs without a beacon or which have drifted outside the fishing zone).	 36. information provided in paragraph 9.f. shall be stratified by fleet, year, month and 1x1 degrees grid, and expressed as the average daily number of operational buoys in each stratum and made available by the Secretariat to support scientific analysis in line with the confidentiality rules set by Resolution 12/02 On data confidentiality policy and procedures. Upon justified request by the IOTC Scientific Committee for specific analysis, and following the agreement by the Commission, data on DFAD trajectories shall be made available. 37. IOTC Scientific Committee shall analyse further information, when available, and provide scientific advice on existing, additional or alternative FAD management options for sustainable fisheries to be submitted for consideration by the Commission. 38. The IOTC Scientific Committee shall, by its annual session of 2025, provide a set of relevant indicators that would allow monitoring the effects of FAD fisheries and assessing 	47. The IOTC Scientific Committee will analyse the information and data gathered under this Resolution, when available, and provide scientific advice on additional DFAD management options for consideration by the Commission, including recommendations on the number of DFADs to be operated and new and improved DFADs design. When assessing the impact of DFADs on the dynamics and distribution of targeted fish stocks and associated species and on the ecosystem, the IOTC Scientific Committee will, where relevant, use all available data on abandoned, lost and discarded DFADs.	No provision

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the efficiency of	
existing/additional/alternative DFAD	
and AFAD management options.	
39. The IOTC Scientific Committee	
shall provide scientific advice to the	
Commission by:	
a) assessing the impact that fishing	
gears or fishing using FADs have on	
juvenile mortality and provide	
adequate advice to the Commission.	
This assessment shall include, but not	
be limited to:	
i. a comparative analysis of the	
contribution of all fishing gears to the	
juvenile mortality of targeted tunas;	
and	
ii. an estimate of reference points for	
fishing mortality of juveniles of	
yellowfin and bigeye tunas with the	
view of recovering or maintaining	
stock size above levels which can	
produce the MSY and keep the risk of	
violating/exceeding limit reference	
points to a low probability;	
b) providing an analysis of the	
efficiency of current operational buoy	
limits, and examining the potential	
efficiency of	
alternative/complementary options	
to limit the number of FAD at sea.	
to mill the number of the at sea.	

This will include, among other options, an advice on the definition and expected effectiveness of a measure to control the number of sets under DFAD".	
c) continuing reviewing research results on the use of biodegradable material on FADs and fishing gears, including on relevant international standards, with a view to provide specific recommendations to the Commission as appropriate; and	
d) researching and developing mitigating measures to avoid the loss and other impacts of AFADs. These recommendations may include guidelines on the design of AFADs or on the use of biodegradable material.	

14. Review and Entering into Force

Current Measure	Prop A (EU)	Prop D (KEN, etc)	Prop B (India)
28. This resolution shall enter into		51. This Resolution shall be reviewed	9. This Resolution shall enter into
force on 1 January 2020.	40. The Secretariat shall submit a	by the Commission, at the latest, at	force on 1 January 2024.
	report, on an annual basis, to the	its Session in 2028 based on	
	IOTC Compliance Committee on the	recommendations from the IOTC	10. The Secretariat shall submit a
	level of compliance by each CPC with	Scientific Committee.	report, on an annual basis, to the
	this Resolution.		IOTC Compliance Committee on the
		52. This Resolution shall enter into	level of compliance of each CPC with
	41. This Resolution shall enter into	force on 1 January 2024.	all the obligations under this
	force on 1 January 2024 and shall be		Resolution.
	reviewed by the Commission no later	53. CPCs not yet involved in purse	
	than at its annual Session in 2028.	seine fisheries using DFADs are	11. This Resolution shall be reviewed
		exempt from the application of this	by the Commission, at the latest, at
		Resolution for a period of 6 months	its Session in 2029 based on
		from when their vessels deploy	recommendations from the IOTC
		DFADs for the first time.	Scientific Committee.
		54. The IOTC Executive Secretary shall	
		submit a report, on an annual basis,	
		to the IOTC Compliance Committee	
		on the level of compliance of each	
		CPC with all the obligations under this	
		Resolution	