

COMMISSION FIFTEENTH REGULAR SESSION

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ISSF FAD Research and Best Practices Infographic

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Submitted by ISSF

Addressing FAD Ecological Impacts

Research & Best Practices to Reduce Bycatch and Ocean Debris



Although purse-seine fishers also set on free-swimming schools and use naturally occurring floating objects to catch tuna, they're relying more on artificial Fish Aggregating Devices (FADs).

Over 40% of the global tuna catch is made with FADs, which have increased in all oceans.





FADs are floating objects often with hanging components — designed to aggregate fish. Some FADs are assembled

FADs have tracking

devices attached.

with plastic and other man-made materials.

FADs, like other fishing gears, need to be managed to reduce their ecological impacts, including:

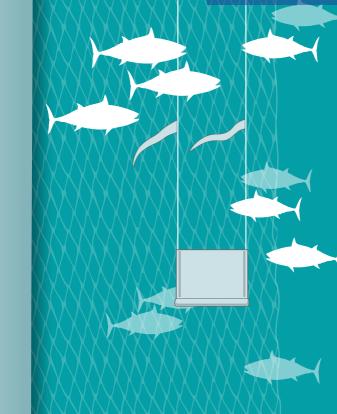


2. The unintentional capture/entanglement of non-target species such as sharks and sea turtles² or other finfish and billfish (also known as bycatch)

3. Damage and marine litter,3 when FAD structures are lost or abandoned, in fragile marine habitats like coral reefs

4. Ghost fishing,4 the accidental capture of marine life by fishing gear lost or discarded at sea that continues to entangle animals

A purse-seine vessel's net encircles the FAD and species aggregated nearby.



ISSF is investigating ways to lessen FAD fishing's impacts



Ongoing Research

Echosounder buoys to remotely assess the amount of bigeye and yellowfin tuna around FADs



Reduce bigeye and yellowfin catch in areas that need to reduce fishing pressure on those species



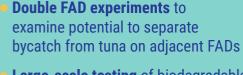


Potential reduction of bycatch through avoidance or selective release; i.e., escape panels, backdown procedure



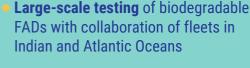


Potential avoidance of small bigeye and non-target species



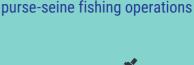


Potential avoidance of non-target species, with special focus on sharks before net is set





Reduction of FAD-structure impact on ecosystem



Release sharks from net during



Increase shark survival and avoid risks for crew on deck



Best Practices



Do not cover FAD surfaces with mesh



Reduces turtle entanglement



Use non-meshed materials such as ropes or canvas sheets for hanging components



Reduces shark entanglement



Use natural or biodegradable materials such as bamboo, palm leaves or other



Reduces ocean debris and damage on coastal ecosystems



Simplify FAD structure, reducing size, volume and weight as much as possible



Reduces ocean debris and facilitates FAD retrieval



Avoid setting on small tuna schools



Can reduce bycatch with little impact on total target catch



Focus on shark and mobulid ray release efforts from the deck, in the first brails



Increases survival of released sharks



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