ACOUSTIC DISCRIMINATION PUBLICATIONS

Through at-sea research, including with the Common Oceans ABNJ Tuna Project, ISSF and AZTI scientists scientists have been studying the acoustic responses and behavior of tuna and other species in purse-seine fisheries.

Our findings may enable tuna fishers to use echosounders and other acoustic equipment to better identify the species, size, and number of tuna and non-tuna at fish aggregating devices (FADs) *before* they cast their nets — helping to avoid overfishing and reduce bycatch.

Acoustic Technology

2013 • Multi-frequency echosounder buoys come into use

ISSF Publications

2014 — ***Fisheries Research* article** on echosounder buoy technology

2016 — **ISSF blog** on tuna acoustic discrimination at FADs

2018 — ***ICES Journal of Marine Science* article** on skipjack acoustic identification

2019 — ***PLOS ONE* article** on ISSF acoustic discrimination of tuna species

2020 — ***ICES Journal of Marine Science* article** on bigeye tuna acoustic identification

2021 — **ISSF blog** on decoding bigeye and skipjack acoustic signatures

2022 — ***Fisheries Science* article** on tuna species lacking a swimbladder

2023 — **Article** on yellowfin acoustic discrimination (under review)

2024 — ***ICES Journal of Marine Science* article** on yellowfin tuna target strength and tropical tuna species acoustic discrimination

2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Learn more about our acoustic discrimination research:
www.iss-foundation.org/fishery-goals-and-resources/our-priorities/tuna-conservation/acoustic-discrimination

iss-foundation.org

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