

In the Mediterranean Sea, the First Documented Case of a Cetacean Fatality in an Artisanal Fish Aggregating Device

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Introduction

The Mediterranean Sea, celebrated for its abundant biodiversity, confronts a multitude of threats stemming from human activities, notably the deployment of artisanal fish aggregating devices (FADs). These devices, designed to bolster fish yields, inadvertently endanger non-target species, such as cetaceans. This article delves into the inaugural documented instance of a cetacean fatality attributed to an artisanal FAD in the Mediterranean, scrutinizing its ramifications for marine conservation and advocating for measures to curtail such occurrences. Renowned for its ecological significance and economic vitality, the Mediterranean Sea sustains a diverse array of marine life, including cetaceans. Traditional artisanal fishing practices, deeply rooted in the region's heritage, have evolved alongside technological progress, embracing methods like FAD utilization. While FADs may augment fish catches, they also raise concerns about bycatch, encompassing the inadvertent harm inflicted upon cetaceans. This article scrutinizes the recent incident of a cetacean fatality linked to an artisanal FAD, underscoring the pressing imperative for conservation interventions [1].

Description

Floating structures that offer food and shelter to fish are known as artisanal fish-attracting devices, or FADs for short. These gadgets are used by fishermen to increase the efficiency of their catches, especially for species such as tuna. However, because FADs are indiscriminate, they frequently cause bycatch, which entangles a variety of marine animals, including cetaceans. Artisanal fish-based diets (FADs) continue to be a major danger to marine biodiversity in the Mediterranean, even with measures to control their use. A troubling turning point in Mediterranean marine conservation efforts has been reached with the death of a cetacean that was recently entangled in an artisanal fish harvesting device (FAD). The particulars of this incident, such as the species involved, the setting, and the consequences, highlight the urgent need for preventative management measures. It should be the top priority of proactive management strategies to develop and adopt substitute fishing methods that reduce the [2,3].

The cetacean engaged with the episode was distinguished as an adolescent normal dolphin (*Delphinus delphis*), an animal categories generally saw as in the Mediterranean. The weakness of this species to ensnarement features the more extensive dangers presented by high quality Crazes to cetacean populaces in the district. The occurrence happened in a high-traffic region close to waterfront fishing grounds, where distinctive Craze sending is normal. The entanglement and collision risks posed by FADs' proximity to cetacean habitats make conservation a significant challenge. Executing

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measures to diminish cetacean bycatch in high quality Crazes, for example, altering Prevailing fashion plans or utilizing acoustic obstacle gadgets, is fundamental for defend marine biodiversity. Reinforcing guidelines and checking instruments to guarantee consistence with bycatch decrease gauges and advance dependable fishing rehearses. Connecting with anglers, preservation associations, and policymakers in cooperative endeavors to address the complex financial variables driving high quality Prevailing fashion use while focusing on marine protection objectives. Putting resources into research drives to evaluate the effects of distinctive Trends on cetacean populaces and illuminate proof based administration procedures [4,5].

Conclusion

The first documented case of a cetacean killed in an artisanal FAD in the Mediterranean Sea underscores the urgent need for comprehensive conservation measures. By addressing the complex socio-economic dynamics driving FAD deployment and promoting sustainable fishing practices, stakeholders can mitigate the risks posed by these devices and safeguard the region's marine biodiversity for future generations.

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Conflict of Interest

The author declares there is no conflict of interest associated with this manuscript.

References

1. Castro, Cristina, Koen Van Waerebeek, Diana Cárdenas and Juan José Alava. "Marine mammals used as bait for improvised fish aggregating devices in marine waters of Ecuador, eastern tropical Pacific." *Endanger Species Res* 41 (2020): 289-302.
2. Calzada, N and A. Aguilar. "Geographical variation of body size in Western Mediterranean striped dolphins (*Stenella coeruleoalba*)." *Z Saugetierkd* 60 (1995): 257-264.
3. D'Anna, G., F. Badalamenti and Silvano Riggio. "Traditional and experimental floating fish aggregating devices in the Gulf of Castellammare (NW Sicily): Results from catches and visual observations." *Scientia Marina* 63 (1999): 209-218.
4. Gilman, Eric L. "Bycatch governance and best practice mitigation technology in global tuna fisheries." *Marine Policy* 35 (2011): 590-609.
5. Faramarzi, Afshin, Mohammad Heidarinejad, Seyedali Mirjalili and Amir H. Gandomi. "Marine Predators Algorithm: A nature-inspired metaheuristic." *Expert Syst Appl* 152 (2020): 113377.

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