

14.8 Comparison of ALDFG

Despite a general recognition of the importance of ALDFGs in the region and their high expected contribution to marine plastics, their physical impacts on coral reefs and on marine life, as well as their

contribution to marine plastics pollution, are understudied. Table 1.2.14.14 below provides a summary of the few publications found on this topic as a baseline for further study.

Table 1.2.14.14. List of publications on ALDFGs in ASEAN+3 (including aquaculture).

	No.	Research aim of study
IDN	2	Examining presence of ALDFG (plastic net) and as a substrate for coral reef
		Examining possible causes of ALDFG from Australian and Indonesian fisherman
SGP	4	Documenting the impacts of trammel nets on marine life in Singapore
		Documenting the presence of coral cat-shark, reporting impacts of fish traps on marine life in Singapore
		Documenting the presence of blackspot shark, reporting impacts of gill nets on marine life in Singapore
		Documenting the presence of black-tipped reef shark, reporting impacts of gill nets on marine life in Singapore
THA	1	Understanding the impact of lost fishing gear (nets, ropes, cages, lines) on six stony coral growth forms; Inventorising lost fishing gear on reefs, and identify and quantify damaged caused to stony corals based on growth forms
CHN	1	Quantifying microplastics in the surface waters, intertidal sediments, and benthic sediments of Xiangshan Bay, Zhejiang, with a focus on potential mariculture origin
ROK	8	Observing ingestion and fragmentation of EPS debris (derived from styrofoam fishing buoys) in marine polychaetes, in the field and in laboratory conditions
		Quantifying entanglement records of ALDFG on ships of Korea's navy
		Measuring HBCD levels in mussels adhering to polystyrene buoys
		Identifying the spatial distribution and source of HBCDs in Jinhae and Masan Bay
		Evaluating the cost-effectiveness of three derelict fishing gear programmes (cleanup with ships, buy back, floating reception barge) in South Korea using an emergy accounting method
		Quantifying marine debris on 13 beaches in Tongyeong City
		Quantifying mesoplastic on Heungnam beach, Geoje Island, and comparing differences in result when measuring along the cross-sectional line or the high strandline
		Reviewing the impact of marine debris in South Korea and the practices, policies, and challenges for managing marine debris, with a focus on ALDFG
JPN	3	Conducting comparative surveys of microplastics in three zones of coastal seas of Japan; Examine the abundance and size of microplastics, as well as their polymer types in a coastal sea; Compare across the bottom sediment, beach sediment, and surface water; Deduce sinking and fragmentation process of foamed polystyrene (FPS) plastics
		Developing database to capture deep-sea debris information; Examine archives of photographs from dives by deep-sea submersibles and remotely operated vehicles; Assess the quantity, debris types, and impacts on deep-sea ecosystem
		Assessing the abundance and composition of anthropogenic marine debris on the basis of six bottom trawl surveys on the continental slope off Iwate Prefecture between pre- and post-earthquake period