

# Adaptive Evolution in Deep-Sea Fish and its Habitat

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Marine litter air pollution threatens marine ecosystems and biodiversity conservation, mainly on sea floors the place all anthropogenic waste naturally sinks. In this study, we grant new data on the composition, density and foundation of sea floor microliter as properly as on plastic ingestion in deep-sea fish from bottom-trawling by-catch in the southern Tyrrhenian Sea. Plastic constituted the perfect fraction of litter in phrases of density (64 %) and weight (32%) and used to be additionally retrieved in the gastrointestinal features of *Chlorophthalmus Agassiz*, *Coelorhynchus* and *Hoplostethus* Mediterranean. FT-IR spectroscopy evaluation on the sea floor microliter and the ingested plastics printed the presence of synthetic polymers such as PE, PET/polyester, PA broadly used for meals packaging, plastic baggage and countless frequent products, in particular Single Use Plastic (SUP).

**Keywords:** *Chlorophthalmus Agassiz*, *Coelorhynchus*, *Hoplostethus*, *Adaptive Evolution*, *Deep-Sea Fish*, *Marine Litter*, *Plastic Ingestion*, *FT-IR Spectroscopy*, *Polymers*, *Single Use Plastic (SUP)*

**Introduction:** Marine litter air pollution threatens marine ecosystems and biodiversity conservation, mainly on sea floors the place all anthropogenic waste naturally sinks. In this study, we grant new data on the composition, density and foundation of sea floor microliter as properly as on plastic ingestion in deep-sea fish from bottom-trawling by-catch in the southern Tyrrhenian Sea. Plastic constituted the perfect fraction of litter in phrases of density (64 %) and weight (32%) and used to be additionally retrieved in the gastrointestinal features of *Chlorophthalmus Agassiz*, *Coelorhynchus* and *Hoplostethus* Mediterranean. FT-IR spectroscopy evaluation on the sea floor microliter and the ingested plastics printed the presence of synthetic polymers such as PE, PET/polyester, PA broadly used for meals packaging, plastic baggage and countless frequent products, in particular Single Use Plastic (SUP).

## Discussion

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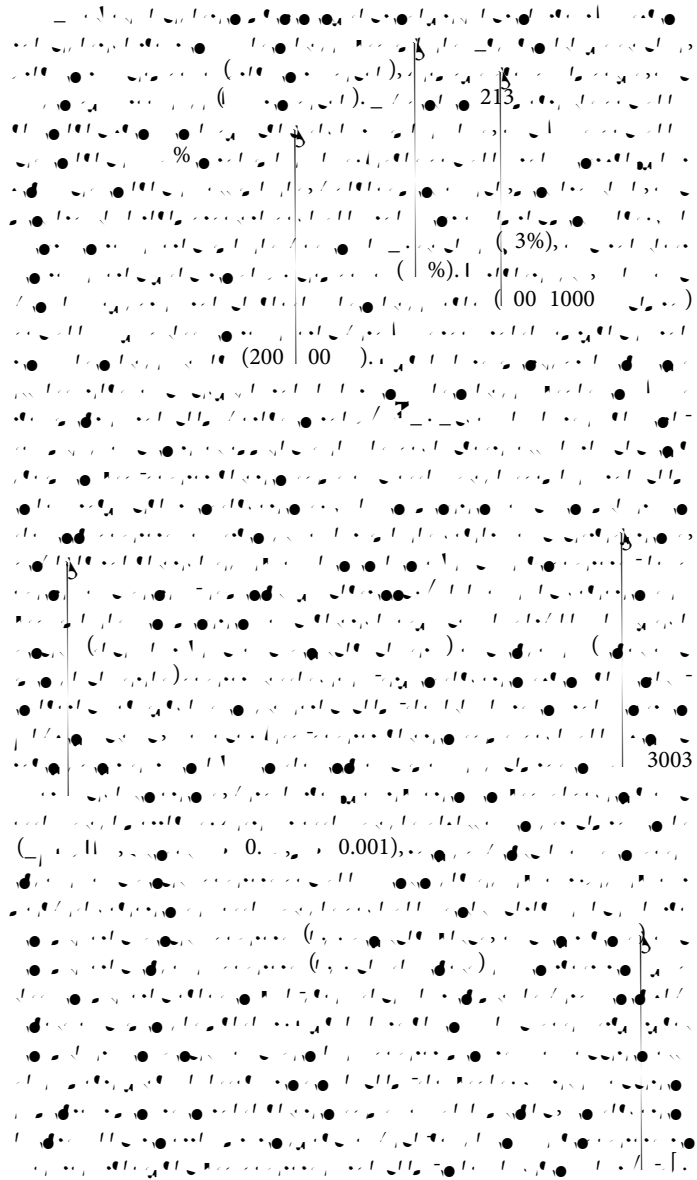


Figure 1: [Illegible text describing the figure]

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