

CleanAtlantic

Tackling Marine Litter in the Atlantic Area

DELIVERABLE - Booklet on “Abandoned, Lost or otherwise Discarded Fishing Gear”: A selection of resources taken from the CleanAtlantic Knowledge Tool

WP 7: Tackling Marine Litter

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INTRODUCTION

Marine litter is a severe pollution threat with environmental, human health, safety and socioeconomic impacts, demanding regional collaboration. CleanAtlantic addresses this challenge and aims to protect biodiversity and ecosystem services by improving the regional cooperation and by reinforcing capabilities to prevent, monitor and remove marine litter in the Atlantic Area. Eventually, the project will contribute to raise awareness and change attitudes among stakeholders and to improve marine litter managing systems. Project outputs will be transferred to competent authorities and key stakeholders to improve management and facilitate the Marine Strategy Framework Directive (MSFD) implementation.

Aligned with these objectives, CleanAtlantic identified and compiled existing knowledge on marine litter generated by EU and national funded public research, as well as by national and European organisations dealing with this topic, and make them easily available through a user friendly publicly available database: the CleanAtlantic knowledge tool. This online database allows users to search for resources by marine litter themes, type of resources, organisation or project generating resource, and funding source.

Through a combination of simple and advanced queries, users can have direct access to resources or when appropriate, to the author's website. It currently stores information on 175 research projects and 115 organisations and contains 888 resources with relevance for marine litter such as Fishing for Litter, Modelling, Monitoring, Policy, Governance and Management, Socioeconomic analysis and Impact, Training and Education, Awareness, Circular Economy, Microplastics, among others. The compiled resources include thematic reports, databases, scientific publications, best practices, case studies, policy briefs, equipment/technologies, software and modelling tools, books, protocols and guidelines, databases, services and tools, dissemination materials, multimedia and training activities and materials.

With the help of the CleanAtlantic Knowledge Tool, and based on a criterion guided selection of marine litter resources, this booklet provides an example on how the knowledge generated by expert organisations and research projects have addressed issues relevant to tackle "Abandoned, Lost or otherwise Discarded Fishing Gears" (ALDFG).

The awareness of ecological damage of the marine environment and organisms related to the presence of ALDFG, also referred to as either ghost gear or derelict fishing gear, has increased. To mitigate their negative impacts on marine ecosystems, retrieval operation campaigns are now being carried out in marine basins all over the world. In the context of these retrieval operations, it is important to consider the potential damage that may be caused to the marine environment. The compilation of resources in this booklet is focused on the main impacts of ALDFG in the marine environment (including impacts caused by their retrieval), best practices and prevention measures to reduce them, aspects to take into account when planning retrieval operations, and management when arriving at Port. A selection of resources dealing with the recycling process of fishing gears has also been included as best practice to reduce the presence of ALDFG in the marine areas.

Being aware that the topic on ALDFG incorporate a wide range of aspects and resources (protocols, guides, information, tools, etc.), for the purpose of this booklet we selected those that address these topics under an operational perspective, mainly manuals, guides, technical reports and tools that can help managers and fishermen in getting an overview of the issues that need to be considered in terms of prevention and removal of ALDFG.

A total of 66 resources have been selected keeping in mind the considerations mentioned earlier and the following criteria:

- Online availability
- No confidentiality restrictions
- Prioritisation of targeted resources
- Prioritisation of operational materials vs. scientific publications
- Available in English

Other relevant resources, not fulfilling these criteria can be accessed through the CleanAtlantic Knowledge Tool.

Resources dealing with “Fishing for Litter” and “Waste management” are also key elements to be considered in the prevention and reduction of marine litter but they have been included in separate booklets to facilitate the usability and consultation.

To facilitate the reading of the booklet, resources have been grouped into 9 different categories according to resource types: protocols/guidelines, best practices, reports, equipment/technology, services/tools/models, book/reviews, scientific publications, multimedia and dissemination materials. Each category has been listed in chronological order (most recent resources appear first). For each resource, a basic description (title, description, source, year of publication, and link to resource) is provided.

These booklets are intended to demonstrate how knowledge can be compiled and clustered to facilitate its uptake. Nevertheless, to get a comprehensive overview of all the resources potentially relevant for the different thematic areas, readers are kindly invited to explore the full content and search functionalities of the CleanAtlantic knowledge tool.

Taking into account that the universe of R&D projects and organisations that are tackling marine litter issues, and particularly dealing with ALDFG, is extremely broad, this booklet aims at showing a significant, but not fully comprehensive picture of the knowledge produced at European and national level in the CleanAtlantic partner countries, and facilitates its further exploration to users.



PROTOCOLS / GUIDELINES

2019



Voluntary Guidelines on the Marking of Fishing Gear

Description: The Voluntary Guidelines on the Marking of Fishing Gear are a tool to contribute to sustainable fisheries, to improve the state of the marine environment, and to enhance safety at sea by combatting, minimizing and eliminating abandoned, lost or otherwise discarded fishing gear (ALDFG) and facilitating the identification and recovery of such gear. The Guidelines address the implementation of a gear marking system and its associated components, including reporting, recovery and disposal of ALDFG or unwanted fishing gear and commercial traceability of fishing gear. The Guidelines are expected to assist States in meeting their obligations under international law, including relevant international agreements and related governance frameworks and the specific requirements for gear marking contained in FAO's Code of Conduct for Responsible Fisheries.

Publication year: 2019

Authors / Organisations: FAO

Language: English; French; Spanish

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



The Baltic Sea Blueprint. A step-by-step roadmap on how to approach Derelict Fishing Gear

Description: The comprehensive knowledge generated by the MARELITT Baltic project has been condensed into this Baltic Sea Blueprint. The blueprint crystallises the most crucial requirements into step-by-step recommendations for addressing mitigation within each of the four activities. This blueprint distils the detailed project findings, which are available in 11 reports, into recommendations, lessons learned and best practices.

Publication year: 2019

Authors: Vesa Tschernij, Marek Press, *et al.*

Project: MARELITT Baltic

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

2018



Methods to locate Derelict Fishing Gear in Marine Waters

Description: The purpose of the document is to assist prospective solutions project managers by providing a general overview of methods and techniques used globally to locate abandoned, lost, or otherwise discarded fishing gear (ALDFG) in marine habitats. The document describes a number of methods used; provides

general techniques, benefits and limitations of the methods; and provides contact information of individuals and entities experienced in the methods.

Publication year: 2018

Authors / Organisations: GGGI Catalyse and Replicate Solutions Working Group

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Environmental Impact Assessment. Retrieval of derelict fishing gear from the Baltic Sea

Description: These guidelines deal with the environmental impacts of derelict fishing gear (DFG) retrieval operations. They can be used during the planning of retrieval operations to highlight the possible impacts the operation can have on the environment and can help to minimize these impacts. It is important to consider whether the retrieval operations themselves can cause harm to the marine environment, and therefore when it is accordingly better to avoid DFG retrieval.

Publication year: 2018

Authors: Jonas Sahlin & Ingrid Tjensvoll, WSP Sweden

Project: MARELITT Baltic

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

2016



Agreement on Port State Measures to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated Fishing. Revised Edition

Description: The Agreement on Port State Measures to Prevent, Deter and Eliminate Illegal, Unreported and Unregulated (IUU) Fishing seeks to prevent, deter and eliminate illegal, unreported and unregulated fishing through the adoption and implementation of effective port State measures as a means of ensuring the long-term conservation and sustainable use of living marine resources. The intention is that the Agreement will be applied widely and effectively by Parties, in their capacities as port States, for vessels not entitled to fly their flags. It will apply to these vessels when seeking entry to Parties' ports or while they are in port. Certain artisanal fishing and container vessels will be exempt. The Agreement gives special emphasis to the requirements of developing countries to support their efforts to implement the Agreement.

Publication year: 2016

Authors / Organisations: FAO

Language: Arabic; Chinese; English; French; Russian; Spanish

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Derelict fishing gear and fishing for litter project guidelines

Description: The objective of these guidelines is to provide an initial understanding of the various causes and impacts of marine litter, and of the categories of stakeholders that should be targeted when designing Fishing for Litter (FFL) project and measures to realize. They also collect the issues that fishermen manager or a responsible of fishery port should consider when setting up any kind of derelict fishing gear DFG/FFL project and how they should overcome problems that could occur.

Publication year: 2016

Authors / Project: DeFishGear

Language: English

Areas of knowledge: Fishing for litter; Impacts, reduction & retrieval of ALDFG



Assessing Ecological and Economic Effects of Derelict Fishing Gear: A Guiding Framework

Description: This document outlines a Derelict Fishing Gear Assessment Framework to guide the development and implementation of derelict gear assessment, management and mitigation. The framework draws from techniques and protocols developed to assess derelict crab traps effects in the Chesapeake Bay and on past derelict gear assessments either conducted by or known to the framework authors. However, this framework is generalized and intended to be used by any stakeholder with a need to assess the status of derelict fishing gear and its economic and ecological effects on living resources, habitats, ecosystems, and local economies.

Publication year: 2016

Authors: Christopher F. G. Jeffrey, Kirk J. Havens, *et al.*

Organisations: NOAA Marine Debris Program

Areas of knowledge: Impacts, reduction & retrieval of ALDFG, Socioeconomic analysis & impact



Guidelines for Marine Litter and Derelict Fishing Gear Management in the frame of ICZM

Description: This document aims at establishing derelict fishing gear management schemes to collect and recycle lost or abandoned fishing nets and other gear. It is the result of a collaborative effort among different entities to find tools for a common governance and sustainable management in the framework of ICZM. The objective of this action is to foster collaborative policy frameworks in order to implement new shared guidelines based on the results of the aforementioned activities, involving scientists and stakeholders, in the Adriatic to integrate these results into each country's ICZM strategies and plans.

Publication year: 2016

Author / Project: DeFishGear

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Hands-on Manual to prevent and reduce abandoned fishing gears at sea

Description: This manual is an operational guide targeting institutions, public and private bodies, sector operators and environmental associations, all contributing in various ways to marine ecosystem protection particularly through the adoption of appropriate measures for the management of fishing gear and aquaculture equipment abandoned at sea. Protocols and guidelines drawn up within the scope of the LIFE-GHOST project are the main contents of this manual. They have been designed in the conviction that their replicability will positively contribute to extending locally obtained benefits to other similar environmental contexts. Significantly, suggested methods are particularly suitable for use in shallow coastal areas of particular biological importance, owing to the (occasional) presence of seabeds characterised by rocky formations and high biodiversity. The abandoned fishing gear considered in this manual is mostly of small size, as fishing activities in these areas are mostly classified as small-scale coastal fishing.

Publication year: 2016

Authors: Da Ros L., Delaney E., *et al.*

Project: GHOST

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG / Waste prevention & management from fishing, aquaculture and ports



Lost at Sea: A Ghost Gear retrieval manual

Description: This manual aims to inform about the work developed for Fundy North Fishermen's Association to identify, retrieve and prevent lost fishing gear since 2008. It includes detailed descriptions on their retrieval and prevention processes, as well as their rationale for embarking on such a project. It is intended that the manual could be useful to other fishermen and fishermen's organizations, and of interest to the general public.

Publication year: 2016

Authors / Organisations: Fundy North

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

2015



Toolkit for setting up Derelict Fishing Gear Retrieval projects

Description: This Toolkit is developed for organisations that want to initiate a project to reduce the impact of derelict fishing gear (DFG) on the marine environment. When setting up a DFG project, this Toolkit will support organisations in the planning and implementation of projects. This Toolkit does not provide a single recipe for how to develop a DFG project. Instead, it points out some important issues to think of when setting up projects and provides advice on how to overcome problems that may be faced when setting up a DFG project.

Publication year: 2015

Authors / Project: MARELITT

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

2014



The MARLISCO Guide for Reducing Marine Litter: Get Inspired and Become Innovative Through Best Practices

Description: This guide was based on a collection of best practices for the reduction of marine litter recorded from across Europe within the project MARLISCO. An analysis of over 70 practices showed that they could be clustered in 14 categories, each representing initiatives with specific, and often innovative, characteristics. Initiatives focus on seabed litter and 'Other' types of practices included information on nets retrieval, separation and recycling.

Publication year: 2014

Authors: Orthodoxou L. Demetra, Loizidou I. Xenia and Loizides I. Michael

Project: MARLISCO

Language: Arabic; English; German; Greek; Italian; Portuguese; Turkish

Areas of knowledge: Cleaning the marine environment; Fishing for litter; Impacts, reduction & retrieval of ALDFG; Microplastics; Training and education; Waste prevention & management from fishing, aquaculture and ports; Waste prevention & management from land-based sources; Awareness



BEST PRACTICES

2021



Best Practice Framework for the Management of Fishing Gear: June 2021 Update

Description: In 2017 the GGGI produced the Best Practice Framework for the Management of Fishing Gear for wild capture fisheries (C-BPF). Since that date there has been significant experience gained from the application of the C-BPF and further developments made in areas such as fishing gear marking, gear tracking technology and recycling. In order to incorporate these new developments in the C-BPF, and to celebrate the GGGI's fifth anniversary, the GGGI decided to update the C-BPF in September 2020 and to launch this revised version in 2021. **Publication year:** 2021

Authors: prepared by Poseidon Aquatic Resource Management for the Global Ghost Gear Initiative (GGGI)

Organisations: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from

2020



OSPAR scoping study on best practices for the design and recycling of fishing gear as a means to reduce quantities of fishing gear found as marine litter in the North-East Atlantic

Description: This scoping document sets out current understanding of the provisions, challenges, barriers, solutions and best practice examples for design and recycling of fishing gear, while also providing suggestions for next steps. The information collated in this document may aid Contracting Parties in implementing Extended Producer Responsibility schemes for fishing gear containing plastics, as foreseen under the EU Directive (EU) 2019/904.

Publication year: 2020

Authors: Task leads for Action 36 of the OSPAR ML RAP (The Netherlands and The United Kingdom)

Organisations: OSPAR

Language: English

Areas of knowledge: Circular economy & recycling; Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports;

2017



A response to the best practice framework for the management of fishing gear 2017

Description: This document summarizes the input received from fishing industry and related stakeholders on the content, relevance and feasibility of the best Practice Framework developed by the Global Ghost Gear Initiative (GGGI). A consultation process was launched in 2017, and their feedback was sought through anonymous online survey and a series of webinars with targeted stakeholder groups. They responded to questions about familiarity with ghost gear and ghost fishing, the relative importance of the issue (from the respondent's perspective), and the Framework's strengths and weaknesses.

Publication year: 2017

Authors: Tim Huntington of Poseidon Aquatic Resource Consultants Ltd in conjunction with the working group

Organisations: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports

2013



Description of the MARLISCO Web database of brief and detailed best practices

Description: This report describes the process of collecting best practice examples for marine litter from across the four European Seas and the technical aspects of presenting them on the MARLISCO website (www.marlisco.eu) to create a web-database. The MARLISCO consortium collected and recorded a total of 72 best practices, 61 brief ones and 11 detailed ones, from across the European Seas, which address the marine litter issue throughout its lifecycle. All the best practices are displayed on the MARLISCO website (www.marlisco.eu) where an interactive map gives an overview of the spatial distribution of the best practices within Europe.

Publication year: 2013

Authors: Demetra L. Orthodoxou, Matthias Mossbauer and Xenia I. Loizidou

Project: MARLISCO

Language: English

Areas of knowledge: Cleaning the marine environment; Fishing for litter; Impacts, reduction & retrieval of ALDFG; Monitoring of marine litter; Training and education; Waste prevention & management from fishing, aquaculture and ports; Waste prevention & management from land-based sources; Awareness

REPORTS

2020



Report of 2019 FAO Regional workshops on best practices to prevent and reduce abandoned, lost or discarded fishing gear in collaboration with the Global Ghost Gear Initiative

Description: FAO in collaboration with the Global Ghost Gear Initiative (GGGI), convened a series of regional workshops on Best Practices to Prevent and Reduce Abandoned, Lost and Otherwise Discarded Fishing Gear (ALDFG) between May and November 2019. The workshops which involved Government representatives, Regional Bodies, relevant intergovernmental and non-governmental organizations, the fishing industry and other regional stakeholders covered the Southwest Pacific, Southeast Asia, West Africa, and South America and the Caribbean regions. Workshop participants reviewed existing measures for addressing fishing-related marine debris in particular ALDFG, considered best available information that supports further development of best practices for the management of fishing gear, discussed provisions required within international instruments and identify region-specific challenges, opportunities and priority needs.

Publication year: 2020

Authors / Organisations: FAO; GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Sea-based sources of marine litter-A review of current knowledge and assessment of data gaps. Second Interim Report of GESAMP Working Group 43

Description: This second interim report builds on content initially presented in a first interim report on progress made by WG 43 from June – December 2019. Herein, WG43 fully addresses Term of Reference (ToR) 1 of the WG43: Identify sources of marine litter from sea-based sources, including but not limited to fishing operations, aquaculture, shipping, dumping of waste and other matter at sea and other sea-based sources (e.g. recreation). This second interim report also presents new and further work on WG43 ToR 2: Estimate the relative contribution and impacts of different sea-based sources of marine litter; ToR 4: Assess data gaps as identified under ToRs 1 to 3 and prioritize for further work; and ToR 6: Quantify the environmental, social and economic impacts of ALDFG.

Publication year: 2020

Authors: Kirsten V.K. Gilardi (WG 43 Chair), Kyle Antonelis, *et al.*

Organisations: FAO; GESAMP

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Socioeconomic analysis & impact; Waste prevention & management from fishing, aquaculture and ports;



Ghost Gear Legislation Analysis Report

Description: Report that describes the work carried out by Ocean Outcomes (O2) commissioned by WWF and GGI, to research best examples of legislation that can drive implementation of ALDFG best practice and develop recommendations of key components of effective legislation that could help guide ALDFG policy outreach strategies moving forward. It describes the approach to and results from the requested research, including associated context (e.g. enabling conditions) and key takeaways, and provides recommendations on how legislation and related instruments might be used to help drive best practice with regard to fishing gear management, and to minimize ALDFG and its impacts.

Publication year: 2020

Authors: Written by Ocean Outcomes for WWF, GGGI

Organisations: WWF, GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

2019



Report of the 2019 Symposium on Responsible Fishing Technology for Healthy Ecosystems and a Clean Environment

Description: The 2019 annual meeting of the ICES-FAO Working Group on Fishing Technology and Fish Behaviour (WGFTFB) was held from 8 to 12 April 2019 in Shanghai, China. The meeting was hosted by FAO in close collaboration with the Shanghai Ocean University. More than 120 fishing technologists, scientists and other stakeholders, representing 23 countries from Europe, North America, Latin America and the Caribbean, and Asia, attended this meeting. This report summarizes the four-day symposium, on “Responsible Fishing

Technology for Healthy Ecosystems and a Clean Environment”, which was organized as part of the 2019 annual meeting of the ICES-FAO WGFTFB. Of the eight thematic sessions that the symposium comprised, one was especially dedicated to abandoned, lost and otherwise discarded fishing gear (ALDFG).

Publication year: 2019

Authors / Organisations: FAO; ICES - WGML

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



GGGI Annual Report 2019

Description: Every year the GGGI publishes a report with an overview of the latest research, science, project work and achievements of the GGGI collective. In 2019, Ocean Conservancy assumed the lead partner role of the GGGI. GGGI alongside FAO, hosted 4 regional workshops on the GGGI’s Best Practice Framework for the Management of Fishing Gear (BPF) and FAO’s Voluntary Guidelines for the Marking of Fishing Gear (VGMFG). GGGI also facilitated gear removals around the world and raised public awareness of ghost gears through global mainstream media coverage.

Publication year: 2019

Authors/ Organisation: GGGI

Language: English

Areas of knowledge: Cleaning the marine environment; Impacts, reduction & retrieval of ALDFG; Socioeconomic analysis & impact; Waste prevention & management from fishing, aquaculture and ports



Ammunition Risk Assessment Study for DFG search and retrieval actions

Description: This study concerns the safety of DFG retrieval crews and divers and the risk imposed by warfare ammunitions potentially encountered on seafloor or on wrecks.

Publication year: 2019

Authors: Jann Wendt, Ezra Eisbrenner (EGEOS GmbH) *et al.*

Project: MARELITT Baltic

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

2018



Report of the technical consultation on marking of fishing gear

Description: The Technical Consultation on the Marking of Fishing Gear was held at FAO headquarters in Rome, Italy, from 5 to 9 February 2018. The Technical Consultation worked towards concluding the development of Draft Voluntary Guidelines on the Marking of Fishing Gear. The Technical Consultation used a preliminary draft text that had been developed at the Expert Consultation on the Marking of Fishing Gear held by FAO on 4-7 April 2016 as further edited by the FAO Secretariat.

Publication year: 2018

Authors / Organisations: FAO

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports



Commission Staff Working Document, Impact assessment. Reducing Marine Litter: action on single use plastics and fishing gear

Description: This Impact Assessment supports a legal initiative aiming to reduce marine litter, as part of an integral and complementary part of a much wider, comprehensive approach, namely the Plastics Strategy, the Circular Economy Action Plan and the revised waste legislation. It directly addresses the two main sources of marine litter in Europe – i) single use plastics and ii) fishing gear. Together, these constitute 84% of plastic marine litter items, among them the most environmentally harmful items in the marine environment.

Publication year: 2018

Authors / Organisations: DG MARE

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Policy, governance and management; Waste prevention & management from fishing, aquaculture and ports



Gear marking pilot study in Indonesian small-scale gillnet fisheries with reference to FAO's draft Guidelines on the Marking of Fishing Gear

Description: This report describes a pilot project to test means and methods of marking gillnets in accordance with FAO's Draft Guidelines on the Marking of Fishing Gear ('the Draft Guidelines') and to explore the scope for a retrieval and recycling scheme. The pilot study was conducted in Indonesia small-scale gillnet fisheries. The study found that the availability of environmentally friendly materials for markers and fisher safety when operating gear with physical markers were both key issues. The study also found that gear marking must be implemented in the context of broader measures for managing fishing gear and wider fisheries management measures as gear marking alone is unlikely to solve the issues of abandoned, lost or otherwise discarded fishing (ALDFG) and ghost fishing that are apparent in Indonesian small scale-scale and probably other similar fisheries, particularly in developing countries.

Publication year: 2018

Authors: Christina Dixon, Fayakun Satria, *et al.*

Organisations: World Animal Protection, FAO

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Stakeholders' Views on Methods to Identify the Ownership and Track the Position of Drifting Fish Aggregating Devices Used by Tuna Purse Seine Fisheries with Reference to the FAO Draft Guidelines on the Marking of Fishing Gear

Description: In 2016 the Food and Agriculture Organization of the United Nations (FAO) convened an Expert Consultation on the Marking of Fishing Gear, resulting in the development of Draft Guidelines on the Marking of Fishing Gear. Recognizing challenges with applying conventional methods of marking fishing gear to identify drifting FAD ownership and to implement a recommendation made by the Committee on Fisheries, in 2017, FAO conducted a global survey to obtain stakeholder views on FAO's Draft Guidelines. This Circular presents the survey results on marking and tracking the position of drifting FADs; defining drifting FAD ownership; and defining, reporting and recovering abandoned, lost and discarded drifting FADs.

Publication year: 2018

Authors: Eric Gilman, Beau Bigler *et al.*

Organisations: FAO

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports;



Shellfish Aquaculture Gear Management Workshop 2018

Description: This document includes information about the training workshop hosted by Florida Department of Agriculture and Consumer Services, Division of Aquaculture (FDACS) targeting the aquaculture industry and shellfish farmers in Cedar Key (Florida). The workshop discussed the importance of environmental stewardship and provided practical management techniques to farmers, such as proper gear anchoring methods and severe-storm preparation strategies.

Publication year: 2018

Authors: Florida Department of Agriculture and Consumer Services, Division of Aquaculture (FDACS)

Organisations: NOAA Marine Debris Program

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Socioeconomic analysis & impact; Waste prevention & management from fishing, aquaculture and ports; Awareness



Pacific Island FAD Tracking and marking project

Description: This report describes a project initiated in 2017 which aim was to inform the drafting of guidelines for the marking of fishing gear. It was developed by the Food and Agricultural Organization (FAO) assessing current practices around the management of fish aggregating devices (FADs) in the Pacific in the context of mitigating the negative impacts associated with FAD loss and abandonment. This project consists of two tracks: one track partnering with a commercial tuna fishing company operating in the Pacific; and one track partnering with the Vanuatu Fisheries Department.

Publication year: 2018

Authors / Organisations: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Ghosts beneath the waves - 2nd edition

Description: Report produced by World Animal Protection describing the problem of ghost gears, assessment and main results, and exploring solutions to address this problem.

Publication year: 2018

Authors: Dr Martin Cooke MRCVS (World Animal Protection), Dr Rory Sullivan (Chronos Sustainability) *et al.*

Organisations: WAP

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

2017



Summary of the findings of Port-related feasibility studies related to the collection and recycling of waste fishing nets and ropes in Greenland, Ireland, Norway and Scotland

Description: This report is based on a series of unpublished national port-related feasibility studies focused on the collection and recycling of waste fishing nets and ropes (FNRs). The research was completed by Circular Ocean project partners in Greenland, Ireland, Norway and Scotland during 2016-2017. This report includes an executive summary and then a review by each country of the key cross-cutting issues related to waste FNRs, port-related innovation systems and new opportunities.

Publication year: 2017

Authors: Professor Martin Charter

Project: Circular Ocean

Language: English

Areas of knowledge: Circular economy & recycling / Impacts, reduction & retrieval of ALDFG



Approaches to the collection and recycling of end of life fishing gear: An Overview with Contacts and Case Studies

Description: The purpose of the document is to assist prospective solutions project managers by providing a general overview of challenges and opportunities surrounding the collection and recycling of fishing gear, building on the assumption that finding appropriate solutions to the management of end of life and recovered fishing gear will have a direct impact on the amount of gear that ends up lost or otherwise discarded at sea.

Publication year: 2017

Authors: GGGI, Catalyse and Replicate Solutions Working Group

Organisations: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Circular economy & recycling

2016



Mechanisms to support the recycling/reuse of fishing gear and the prevention of gear becoming lost/abandoned at sea. Barrier assessment

Description: The report details a barrier assessment relating to mitigating loss of nets at sea and increasing recycling and reuse of fishnets and ropes. The assessment is undertaken as a literature review where reports, scientific articles and other documents such as regulatory rules are used to identify potential mechanisms and barriers preventing their success.

Publication year: 2016

Authors: Laura Brodbeck

Project: Circular Ocean

Language: English

Areas of knowledge: Circular economy & recycling / Impacts, reduction & retrieval of ALDFG



GHOST Layman's report

Description: Layman's report produced by the GHOST project (2013-2016) that focuses on techniques to reduce the impacts of ghost fishing gears and to improve biodiversity in North Adriatic coastal areas. The main project objectives were to assess the presence and impact of ALDFG on the biodiversity, to promote recovery and conservation measures for the habitats studied, to improve ecosystem biodiversity, to calculate the economic value resulting from their removal and to put forward proposals for the correct landfilling and disposal of recovered/disused nets through their recycling.

Publication year: 2016

Authors: Loredana Alfarè

Project: GHOST

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports



GHOST Final Publication

Description: This report describes the results of the three-year GHOST project, and provides a general overview of the ghost net phenomenon and its impact on the sea environment and associated economic activities. It examines the operational procedures used both to assess the magnitude of the problem in the

North Adriatic, and to recover ghost nets effectively, with no further damage to the ecology of affected areas.

Publication year: 2016

Authors: Da Ros L., Alfarè L., *et al.*

Project: GHOST

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports



Ecological and Economic Effects of Derelict Fishing Gear in the Chesapeake Bay

Description: This report focuses on the ecological and economic impacts of derelict blue crab pots in the Chesapeake Bay, where commercial harvest of hard-shelled blue crabs is a major fishing activity. The study used different inputs drawing on many direct or remote observations and other data to quantify their abundance and spatial distribution across this bay, and their resulting ecological and economic effects.

Publication year: 2016

Authors: Donna Marie Bilkovic, H. Ward Slacum, *et al.*

Organisations: NOAA Marine Debris Program

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Socioeconomic analysis & impact



Marine Debris Impacts on Coastal and Benthic Habitats

Description: In this paper, the impacts of marine debris are discussed as they affect different coastal and ocean environments. Important habitats—such as areas with kelp and macroalgae, rocky intertidal areas, and freshwater systems—are lacking research on the effects of marine debris and are in need of more attention regarding habitat impacts. Marine debris produces a wide variety of environmental, economic, safety, health, and cultural impacts being an anthropogenic threat to global oceanic ecosystems. A central theme of research on habitat degradation via marine debris is determining the impact of specific types of debris (abandoned or derelict fishing gear and plastics in particular) on sensitive habitats.

Publication year: 2016

Organisations: NOAA Marine Debris Program

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Toxicity and impact of meso and macro marine litter



Gear marking in Indonesian small-scale fisheries: A Pilot Project Case Study

Description: This report summarizes the results of a pilot project carried out in Indonesia on gear marking. It was Building on what was decided during COFI 32, the Committee instructed FAO to carry out a series of pilot projects to explore the feasibility of gear marking, particularly in developing countries, and the recovery of phantom equipment. Gillnets were proposed as a primary focus of the project due to both their prevalence and impact as ALDFG.

Publication year: 2016

Authors / Organisations: World Animal Protection, FAO

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Marine debris, plastics and microplastics

Description: This report includes the FAO Contribution to Part I of the report of the Secretary-General on Oceans and Law of the Sea, related to the topic of focus of the Seventeenth Meeting of the United Nations Open-ended informal consultative process on oceans and the Law of the Sea (OCP 17) on Marine Debris, plastic and Microplastics. Among other, it is focused on the issue of Abandoned, lost or otherwise discarded fishing gear (ALDFG), and FAO actions to prevent and significantly reduce them and their impacts.

Publication year: 2016

Authors / Organisations: FAO

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Microplastics

2015



MARELITT Final Report

Description: The Final Report provides an overview of the work completed under the MARELITT project (Removal of marine litter from Europe's four regional seas) and delivers a number of key deliverables in the Annexes. As it was set up in the objectives of the project, the report describes three main actions: 1) assessment of best practices for the different types of fishing for litter; 2) Setting up fishing for litter projects, and 3) Develop a toolkit for the use of stakeholders, which provide step-by-step guidance to organisations that wish to establish their own marine litter removal project.

Publication year: 2015

Authors: Milieu Ltd

Project: MARELITT

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Fishing for litter



Impact of "Ghost Fishing" via Derelict Fishing Gear

Description: This report is a summary of the current scientific knowledge of ghost fishing, the derelict fishing gear (DFG) that contribute to it, the species mortalities, and the economic losses to certain fisheries due to ghost fishing mortalities. Gaps in knowledge are identified, and suggestions for the prevention and mitigation of DFG and possible future research foci are presented here within the framework of prevention, removal, and education as means of reducing ghost fishing.

Publication year: 2015

Authors / Organisations: NOAA Marine Debris Program

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Socioeconomic analysis & impact; Toxicity and impact of meso and macro marine litter

2014



Report of the IWC Workshop on Mitigation and Management of the Threats Posed by Marine Debris to Cetaceans

Description: The report includes the information collected during the International Whaling Commission (IWC) Workshop on Mitigation and Management of the Threats Posed by Marine Debris to Cetaceans held in Honolulu from 5-7 August 2014. The workshop reviewed initiatives from across the world to address marine debris in general and entanglement of cetaceans in particular, which was viewed as the greatest threat to these animals. Section 3.1 was focused on developing mitigation approaches in the particular case of abandoned, lost and discarded fishing gear (ALDFG).

Publication year: 2014

Authors / Organisations: IWC

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Microplastics; Toxicity and impact of meso and macro marine litter



MARELITT Brussels workshop

Description: The MARELITT Brussels workshop took place from 13 to 15 May 2014. The report includes information about the host organisations and their respective projects, lessons learned and good practices from past litter retention and fishing gear retrieval projects, practical aspects of planning a marine litter project and the MARELITT toolkit.

Publication year: 2014

Authors: Milieu Ltd

Project: MARELITT

Language: English

Areas of knowledge: Fishing for litter; Impacts, reduction & retrieval of ALDFG



Regional Workshop Report - Warsaw, Poland

Description: This MARELIT Workshop took place on the 5-7 November 2014. The main objective of this workshop was the set-up of the project, and also to raise awareness and understanding of the issue of derelict fishing gear. The report summarizes a series of DFG activities carried out by the project. A wide group of stakeholders, such as certain authorities, politicians, industries or environmental NGOs, were invited.

Publication year: 2014

Authors: Milieu Ltd

Project: MARELITT

Language: English

Areas of knowledge: Fishing for litter; Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports



Regional Workshop Report Nesebar, Bulgaria

Description: The Union of Bulgarian Black Sea Local Authorities (UBBSLA) organised a project workshop in Nesebar on 26 September 2014, to meet the local stakeholders (the municipal administrations, fishermen, public institutions and organizations, port authorities, business and NGO) and discuss the marine litter problem in Bulgaria. The workshop entitled 'Keeping the sea clean - everyone's responsibility' was launched by the mayor of Nesebar, Mr. Nicolay Dimitrov, and included presentations from the FLAG Pomorie-Nesebar, which presented its past activities, the Executive Agency for Fisheries and Aquaculture and the Marine Administration.

Publication year: 2014

Authors: Milieu Ltd

Project: MARELITT

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Fishing for litter; Waste prevention & management from fishing, aquaculture and ports; Awareness



Regional Workshop Report Croatia

Description: The Center for Marine Research (CMR) organised a workshop in Rovinj on 30 and 31 October 2014 gathering potential project participants and policy makers to discuss the implementation of a MARELITT project in Croatia. The first day was marked by interventions from fishermen, the city of Rovinj and the regional and national governments; the second day was focused on awareness-raising with the NGO Zelenalstra. The workshop resulted in an action plan for the preparatory phase of the project. OLPA presented the Italian MARELITT project and a representative of DEFISHGEAR presented their marine litter removal activities in the Adriatic Sea. Further cooperation between CMR, OLPA and DEFISHGEAR was also discussed.

Publication year: 2014

Authors: Milieu Ltd

Project: MARELITT

Language: English

Areas of knowledge: Fishing for litter; Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports; Awareness



Regional Workshop Report Clonakilty and Castletownbere, Cork County, Ireland

Description: MARELITT organised a regional workshop in Cork County, on 23-24 October 2014. The workshop gathered representatives of the national department of environment (MSFD coordinator) and the national fisheries department (BIM), the Cork County Council, the harbour masters of Castletownbere, Dingle and Union hall, the Marine Institute and a representative of fishermen and aquaculture farmers. The objective of the workshop was the setting up of a MARELITT project in Ireland, which aims to develop a framework of local solutions for marine litter removal, based on existing experiences in the UK and elsewhere.

Publication year: 2014

Authors: Milieu Ltd

Project: MARELITT

Language: English

Areas of knowledge: Fishing for litter, Impacts, reduction & retrieval of ALDFG



Regional Workshop Report San Remo

Description: The Ligurian Observatory on Fishery and Environment (OLPA) is setting up a Marine Litter Retention project in San Remo (Italy). OLPA organised a workshop in San Remo on 20 and 21 October 2014 to bring local stakeholders together and discuss the implementation of the project. A variety of presentations of Italian/Ligurian research institutes and NGO's gave insight into the problem of marine litter in the Adriatic Sea. The main source of marine litter stems from rivers, entering the sea – especially during floods. According to several stakeholders and given evidence of this major pathway, focus should be directed to waste prevention and the optimisation of inland waste. In the Ligurian region, several projects were launched that study and monitor marine litter, e.g. 'Smile', Mare Pulito and Gionha. The main focus of these projects was on research and awareness raising. A new initiative via MARELITT was, therefore, welcomed – provided that funding can be obtained.

Publication year: 2014

Authors: Milieu Ltd

Project: MARELITT

Language: English

Areas of knowledge: Fishing for litter, Impacts, reduction & retrieval of ALDFG

2013



Collecting ghost nets in the Baltic Sea, Final report on the activities conducted in 2012

Description: This report is an overview of the most important aspects of the phenomenon of ghost nets and legal regulations related to polluting the sea with fishing gear, based on the literature and observations made

in the course of the project Collecting Ghost Nets in the Baltic Sea. It describes the retrieval activities carried out in Poland and Lithuania, the disposal of the retrieved material and the financing opportunities for further operations.

Publication year: 2013

Authors: Marek Szulc

Project: Collecting Ghost Nets in the Baltic Sea

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Analysis of the processes and solutions involved in the best practices

Description: This report provides an analysis of the main characteristics of the best practice examples recorded within MARLISCO and introduces the reader to them. The analysis offers a useful snapshot into what is happening around Europe to address the issue of marine litter, and can serve as the starting point and a learning platform for anyone wishing to take action against this important environmental, economic and social problem. It also describes activities addressing lost or otherwise discarded fishing nets and the separation and recycling of materials found on the seabed.

Publication year: 2013

Authors: Demetra L. Orthodoxou, Xenia I. Loizidou *et al.*

Project: MARLISCO

Language: English

Areas of knowledge: Awareness; Cleaning the marine environment; Fishing for litter; Impacts, reduction & retrieval of ALDFG; Monitoring of marine litter; Waste prevention & management from fishing, aquaculture and ports; Waste prevention & management from land-based sources

2011



Ecological effects of ghost net retrieval in the Baltic Sea

Description: This report addresses the ghost net problem in the Baltic Sea through a review of their presence (causes, amount, legal provisions, etc.) and the assessment of their impact. In addition a description of the methodology carried out in the ghost net retrieval actions implemented in the Baltic was included as well as main conclusions and recommendations.

Publication year: 2011

Authors: Stanisław Kasperek and Piotr Prędko

Project: Collecting Ghost Nets in the Baltic Sea

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Submerged Derelict Trap Detection Methods Workshop

Description: These proceedings of the NOAA Submerged Derelict Trap Methodology Detection Workshop, held in June 2009, include a Detection System Selection Guide that was developed based on the discussion at the workshop and the presenter abstracts and presentations.

Publication year: 2009

Authors: Morison, S. and P. Murphy (Eds.)

Organisations: NOAA Marine Debris Program

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Assessing Opinions on Abandoned, Lost, or Discarded Fishing Gear in the Caribbean

Description: This report presents the results of a survey of fishermen, fishery managers, and fishery researchers to develop a basic description of the types and source of ALDFG in the Caribbean. This information is intended to provide information that allows for the examination of the efficacy of current instruments, programs, and initiatives that address this global threat (UNEP 2005) and to test the consensus of participants at a recent United States National Oceanographic and Atmospheric Administration and United States Department of State, Caribbean-wide Derelict Fishing Gear Workshop that the issue remains largely unrecognized in the Caribbean marine community and that the source of ALDFG is largely from outside sources.

Publication year: 2009

Authors: Thomas R. Matthews

Organisations: GCFI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Abandoned, lost or otherwise discarded fishing gear

Description: This report reviews the magnitude and composition of ALDFG, and while noting that information is not comprehensive and does not allow for any global estimates, suggests that gillnets and fishing traps/pots may be the most common type of ALDFG, although netting fragments may also be common in some locations. Besides, the impacts of ALDFG are considered and also the factors which cause fishing gear to be abandoned, lost or otherwise discarded. The report review preventive, mitigative and curative measures in place to for ALDFG and concludes with a series of recommendations for future action to reduce ALDFG debris, be it on a mandatory or voluntary basis. It also considers at what scale and which stakeholders (e.g. international organizations, national government, the private sector, and research institutions) might be best placed to address the wide range of possible measures to reduce the amount of ALDFG debris.

Publication year: 2009

Authors: Graeme Macfadyen, Tim Huntington and Rod Cappel

Organisations: FAO

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

2005



Ghost fishing by lost fishing gear

Description: This report is the output of a six-month research project funded by the Environment Unit of DG Fisheries and Maritime Affairs of the European Commission. It attempted to answer the following three questions: 1. What are the main gaps in our knowledge about the extent of ghost fishing? 2. Based on what we do know, to what extent is ghost fishing a serious issue in European Union waters? 3. If it is a problem, how effective are gear retrieval programmes and other management options in dealing with it? The project involved a detailed literature review, brief surveys with selected fisheries in the EU, a workshop of industry participants and specialist fisheries researchers, and desk-based analysis and report writing.

Publication year: 2005

Authors: Brown, J, G. Macfadyen, *et al.*

Organisations: IEEP

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

EQUIPMENT / TECHNOLOGY



Pre-study on Sonar Transponder

Description: This document addresses one of the critical challenges of the MARELITT Baltic project, to identify more cost-efficient techniques – enabling more environmentally friendly, smoother and more accurate ways to detect and locate lost fishing gears. The use of hydro-acoustic surveying, like side-scan sonars is among the potential ways to do it. The MARELITT Baltic project has delivered this literature study on different kinds of technologies to strengthen the respond/echo from sonars to assess the possibility to “better see DFG in future”.

Publication year: 2018

Authors: Dag Lindahl & Leigh Boyd, Avalon Innovation

Project: MARELITT Baltic

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Monitoring of marine litter



SERVICES/TOOLS/MODELS



GGGI Ghost Gear Reporter App - Android & Apple

Description: This app is freely available on both the Apple App and Google Play stores around the world, and is currently available in 5 languages (English, French, Spanish, Portuguese and Chinese) with others in development. The app is designed for researchers, NGOs, private sector or members of the public to quickly, accurately and easily submit data to the GGGI Data Portal to build the growing evidence base on lost and abandoned fishing gear.

Publication year: 2018

Authors / Organisations: GGGI

Language: Chinese; English; French; Portuguese; Spanish

Areas of knowledge: Awareness; Impacts, reduction & retrieval of ALDFG; Mapping of marine litter; Waste prevention & management from fishing, aquaculture and ports;



GGGI Data Portal

Description: The Data Portal is designed to offer a single global access point to both submit and review data relating to lost fishing gear. It provides access to submit and review data to a global database of records relating to lost or abandoned fishing gear, as well as other marine debris. Additionally it contains information and tools relating to the capture of data. Submission of data with specification of varying data constraints is supported.

Authors / Organisations: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Monitoring of marine litter



ACT4LITTER Decision making tool

Description: This innovative system, developed in the framework of ACT4LITTER project, provides essential support to Marine Protected Areas (MPA) managers in order to address marine litter including ALDFG. The decision making tool was elaborated in close collaboration with MPA managers and marine litter experts, building upon the ACT4LITTER list of some 100 showcases of best practice marine litter measures. The novelty of this tool is that it helps to identify the most effective and feasible marine litter measures for their specific context.

Publication year: 2018

Authors / Project: ACT4LITTER

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Modelling marine litter; Waste prevention & management from fishing, aquaculture and ports; Waste prevention & management from land-based sources

BOOK / REVIEW



A fishery manager's guidebook

Description: This guidebook was first published as an FAO Fisheries Technical Paper in 2002 (Cochrane, 2002) to meet the need for information and guidance on the broad and often complex task of fisheries management. This new volume, co-published by FAO and Blackwell, has been expanded to provide broader coverage of the key elements of the task and updated in order to keep track of the rapid developments in theory and practice as academics and practitioners struggle to confront the many challenges facing modern fisheries management. Chapter 7 deals with Regulation of Fishing Gears and Methods, tackles "ghost fishing" and estimates the ecosystem effect

Publication year: 2009

Authors: Kevern L. Cochrane & Serge M. Garcia (Eds)

Organisations: FAO

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG

SCIENTIFIC PUBLICATIONS



Building evidence around ghost gear: Global trends and analysis for sustainable solutions at scale

Description: To identify and communicate the current global state of knowledge around ALDFG data and research, the Global Ghost Gear Initiative (GGGI)'s Build Evidence Working Group invited speakers from around the world to share their work around ALDFG data collection at a technical session during the 6th International Marine Debris Conference. Seven speakers presented on a range of ALDFG-related topics, including: ocean retrieval, data collection, impacts from both active gear and ALDFG, the importance of clearly differentiating between active gear and ALDFG in the marine debris context, and how data collection efforts are informing the development of solutions to and awareness-raising of the ALDFG issue. This paper summarizes the technical session to frame a global snapshot of unpublished ALDFG data.

Publication year: 2019

Authors: Kelsey Richardson, Regina Asmutis-Silvia, *et al.*

Organisation: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



Is derelict fishing gear impacting the biodiversity of the Northern Adriatic Sea? An answer from unique biogenic reefs

Description: This paper is aimed at quantifying the impacts of ALDFG on rocky habitats and monitoring the biodiversity recovery after ALDFG removal. Acoustic and diving surveys were performed to map 15 selected rocky outcrops and one artificial reef (for a total surface area of 21 km²). The recovery capability of benthic and fish communities was evaluated by non-destructive techniques in 5 outcrops periodically sampled throughout 18 months.

Publication year: 2019

Authors: Moschino V., Riccato F., *et al.*

Project: GHOST

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



MULTIMEDIA



Film: Ghost Gear Retrieval in the Bay of Fundy

Description: This is a documentary film by the Fundy North Fishermen's Association about their "ghost gear retrieval project in the Bay of Fundy. It was created in conjunction with the manual "Lost at Sea: A ghost gear retrieval manual", and both resources inform the work developed by this Association to identify, retrieve and prevent lost fishing gear in the Bay of Fundy.

Publication year: 2016

Authors / Organisations: Fundy North

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG



DISSEMINATION MATERIALS



Lost fishing gear - a trap for our ocean

Description: Infography containing data about sources, impacts and EU existing actions against abandoned, lost or discarded fishing gears in the ocean. It contains information on marine litter facts, impacts, and existing EU actions.

Authors / Organisations: DG MARE

Language: English

Areas of knowledge: Awareness; Impacts, reduction & retrieval of ALDFG



Best practice framework for the management of fishing gear - Overview

Description: The Best Practice Framework were developed by the Global Ghost Gear Initiative (GGGI) to enable and encourage stakeholders throughout the seafood supply chain, from gear manufacturers to fishermen, to reduce the cause and impact of ALDFG through better management practices and processes.

Publication year: 2017

Authors / Organisations: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports



Best practice framework for the management of fishing gear - Fishing gear Gillnets and traps/pots

Description: This document produced by the Global Ghost Gear Initiative (GGGI) summarizes the best practice interventions for gillnets and traps/pots. Both fishing gears are used in temperate and tropical mainly deployed in shallower coastal areas, where they are susceptible to becoming ALDFG which often results from gear and vessel conflicts, environmental and weather conditions.

Publication year: 2017

Authors / Organisations: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports



Best practice framework for the management of fishing gear - Factsheet Best practices for Fishing Aggregating Devices (FADs)

Description: This document produced by the Global Ghost Gear Initiative (GGGI) addresses the Fish aggregating devices (FADs) problem. Most FADs include satellite tracking beacons and high tech equipment that can estimate the amount of tuna. Each year, more than 120 thousand FADs are deployed in the tropics, worldwide, and they are highly likely to become a component of ALDFG, since they are lost or deliberately abandoned. FADs are somewhat unique in that they are the only form of fishing gear that can be legally abandoned at sea. These best practices are meant to prevent, mitigate, and cure the risks to marine life and ecosystems associated with lost or abandoned FADs.

Publication year: 2017

Authors / Organisations: GGGI

Language: English

Areas of knowledge: Impacts, reduction & retrieval of ALDFG; Waste prevention & management from fishing, aquaculture and ports