



Artisanal fishing vessels in the Gambia

Improved fisheries governance

Poseidon is pleased to contribute to efforts around the world to improve the sustainable exploitation of fisheries resources.

This year we have been working on an **Index of IUU fishing**, which will shortly be launched to benchmark countries against coastal, flag, port, and market state responsibilities. We are also in the middle of a global assessment of risks associated with **IUU fish passing through different ports** using AIS data, and recently finalised work for FAO on the development of a **global database of discards**.

In the Asia/Pacific region we have been providing support to the nine PNA countries in operationalizing the **longline vessel days scheme**, strengthening the application of the **Fisheries Information Management System**, rolling out **electronic-monitoring**, and developing a **PNA FAD registration scheme**. We also completed a study this year to identify improved fisheries **management arrangements in Thailand**.

In Europe we supported the European Commission in preparing an impact assessment of **improvements in the Control Regulation**, and participated in the **STECF balance meetings**. We completed **analysis of European fishery management performance** in relation to the CFP's objective of ending overfishing by 2020, and prepared a **fisheries management plan for the brown shrimp fishery** in the UK.

Other ongoing work includes developing **management**

improvements in the UK scallop industry, and a toolkit to assess the relative environmental and societal impact of alternative fishing patterns and management options in England as part of a consideration of **fisheries management arrangements post-Brexit**.

Elsewhere, we completed a **technical diagnostic of the fisheries sector in Pakistan** as the basis for recommendations for reform and future support to revitalize the sector, have been providing long-term assistance in **Liberia to build capacities for improved fisheries management**, and have recently started work to assist the government in the **Maldives to prepare a NPOA-IUU**.

Environmental certification and Fisheries Improvement Plans (FIPs)

Poseidon has been very active this year with fishery assessments to the **Marine Stewardship Council (MSC)** standard for a wide range of fisheries including:

- South Australian sardines
- Barents Sea cod and haddock
- Western Baltic herring
- Icelandic lemon sole
- Central & Northern Baltic Sea herring and sprat trawl and trap fisheries
- Celtic herring
- Icelandic cod
- Swedish pike-perch
- Norwegian spring spawning herring
- Shetland inshore fisheries
- Orkney crab and lobster
- Swedish and Danish nephrops
- Dutch hand-raked cockles
- Irish bottom mussels
- Greenland shrimp



Demersal trawler, Iceland

Our work on **Fisheries Improvement Plans (FIPs)**, often a pre-cursor to MSC-certification, has included:

- Tuna purse seine fisheries in the Eastern Atlantic Ocean and the West Indian Ocean
- Tuna FAD fisheries in PNA countries
- Tuna purse seine and longline fisheries in Indonesia
- Tuna pole and line fishing in Senegal and Ghana
- Clam and crayfish fisheries in China
- Deepwater snapper and grouper dropline and longline fisheries in Indonesia
- Monkfish, scallops, lemon sole, plaice, crab and lobster in England
- Nephrops and scallops in the UK.

We are also currently working on a review of **bycatch of endangered, threatened or protected (ETP) and elasmobranch species**, including shark finning, in MSC-certified tropical tuna fisheries.



Mackerel, *Scomber scombrus*

Economic studies

During the year, Poseidon has been involved in several economic studies in fisheries, aquaculture, and the blue economy, reflecting our strong expertise in this area.

In Cambodia we provided support to the formulation of an EU budget support programme for the fisheries sector, and we are currently assessing the **economic benefits of Marine Spatial Planning** for the EU and contributing to national **maritime economy plans** for 17 Commonwealth Small Island Developing States in the Pacific and the Caribbean.

In Scotland we modelled the economic impacts of a proposed policy that requires **more pelagic landings** to be made into Scotland, and we developed a **loch-scale economic model** identifying where economies of scale, shared capital investments, and infrastructure could improve group viability of shellfish growers.

We are working in Ireland to help deliver a strategy we developed to increase **raw material supplies to the seafood sector**, and have recently been commissioned by the IOTC to undertake a review for **Indian Ocean countries of socio-economic data** that could be used in management decision-making at the regional level.

Other ongoing work includes a **feasibility study of micro-canning enterprises in Pacific Island countries**, and a continued long-term commitment to support PNA countries in **economic modelling of tuna fleets** to inform the setting of access fees and to advise on cost and revenue streams.



Wind turbine

Renewable energy

This year we continued our involvement with three large-scale offshore renewable energy projects **to assess the environmental and economic impacts on the commercial fisheries sector**.

These include wind farm developments in the outer Firth of Forth in Scotland (Near na Gaoithe), and off the Yorkshire coast in England (Hornsea Projects Three and Four, both of which are Nationally Significant Infrastructure Projects).

We have subsequently provided fisheries advice to offshore wind farm projects approaching construction, advising on approaches to mitigating effects on commercial fisheries and supporting in discussions and negotiations with fishermen and fisheries organisations.



Tim



Graeme



Rod



Fiona



Vincent



Richard



Sarah



Jean



Net repairs in Indonesia

Evaluation

Through our evaluation expertise we aid clients in decision-making about policy and public expenditure, and generate lessons learned to inform future interventions. In Europe ongoing evaluations for the European Commission or those completed during the year, include:

- evaluation of **marketing standards**
- a study and analysis of the role of **women in fisheries** in the Mediterranean & the Black Sea
- evaluation of the **EU fleet entry exit scheme**
- evaluation of the **Eel Regulation**
- evaluation of the current regulations on the **provision of fisheries statistics** by Member States in the EU
- an interim evaluation of the implementation of the **direct management component of the EMFF Regulation**.

We also continue to provide long-term support as part of a European team to EU Member States on the Common Monitoring and Evaluation System for the **European Maritime and Fisheries Fund**.

In Asia we recently completed an evaluation of a project in Indonesia introducing the use of **satellite radar and optical data to combat IUU fishing and improve fisheries and coastal resource management**. We also remain involved in Indonesia with implementation of a monitoring and evaluation program for a UK Space Agency-funded fisheries management initiative involving the installation of **satellite communications and VMS equipment** on 300 small and medium-sized fishing vessels. Also in

Asia, we have continued our work to provide ongoing evaluation of a 4-year **Danida fisheries programme** in Myanmar.

In Africa, we completed evaluations during the year of **Sustainable Fisheries Partnership Agreements** between the EU and Cape Verde, The Gambia, and Madagascar, and are now working on an evaluation of a SFPA between the EU and Mauritania.



Salmon farm in Orkney

Aquaculture sector

Aquaculture is still one of the fastest growing food sectors in the world, and our work in the sector remains an important part of our portfolio.

Our assignments this year have included:

- Assessment of the open method of coordination for the sustainable development of **EU Aquaculture**
- **Due diligence** for expansion of a marine finfish hatchery in **Tunisia**
- Development of a 10-year **aquaculture master plan for French Polynesia**
- Feasibility/modelling of **single marine license development consent for Scottish aquaculture**.

A big thank you to all our clients and consultants who supported our work this year.