



DiadSea - Transnational Cooperation to Improve the Management and Conservation of Diadromous Fish at Sea (EAPA_0011/2022)

Deliverable D1

Short progress report on compilation of available historical
fisheries data and fisheries independent data

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<p>This document includes a progress report on the compilation of available historical fisheries data in the Atlantic Area regions. A large dataset from the Atlantic Area representing both fishery dependent and independent sources was collated and transferred to work package 3. The data represents 42 data sets and accounts for 468,085 fishing hauls. This report should be read in conjunction with output O2 the Data Gaps Report, this report interrogates the data collated for presence of diadromous fish.</p>	

Revision History			
Revision	Date	Description	Author (organization)
1.0	28/11/2024	Continuous updates prior to completion	Anthony Brett (IFI)
1.1	11/02/2025	Review	Ciara O'Leary (IFI)
1.2	04/06/2025	Review	Gaspard Dubost (INRAE)

Abbreviations	
AA	Atlantic Area
AD&C	<i>Agência para o Desenvolvimento e Coesão</i>
CCDR-N	<i>Comissão de Coordenação e Desenvolvimento Regional do Norte</i>
CPR	Common Provisions Regulation
EC	European Commission
ERDF	European Regional Development Fund
ETC	European Territorial Cooperation
EU	European Union
GBER	General Block Exemption Regulation
IGF	<i>Inspeção Geral de Finanças</i>
JS	Joint Secretariat
MA	Managing Authority
MC	Monitoring Committee
MS	Member State
SIGI	Integrated management information system
SME	Small and Medium Enterprises

Additional glossary for terms used in this report can be found in Appendix 2: Glossary

Acknowledgement

“Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the Norte Portugal Regional Coordination and Development Commission (Comissão de Coordenação e Desenvolvimento Regional do Norte - CCDR-N). Neither the European Union nor the granting authority / CCDR-N can be held responsible for them ».

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1 Background

This document is a short progress report depicting the entire data collection, types of data analysed and actions undertaken towards the database development. With the data compiled under this activity, the project will update this information on the DiadSea website and update the Interactive Web Atlas. The Web Atlas is a key output of the DiadES project, exploiting and benefiting a product already developed under the INTERREG AA program and guaranteeing that the information available is up to date.

The aim of this activity (1.1) was to compile available historical fisheries-dependent data (bycatch and catch) and fisheries independent data (scientific surveys) on the marine phase of Diadromous Fish (DF) across the Atlantic Area. The previous Interreg AA funded DiadES project highlighted the potential of existing Data Collection programmes at sea to provide information on diadromous fish distributions, but within that project there was no opportunity to compile the historical information and find the best visualization methods to share the information. While DiadES focused on case study areas, it highlighted the need to expand the focused area to the full Atlantic Area and specifically to the marine phase data acquisition.

2 Data Collation

2.1 Objective

The aim of this deliverable was to collate and interrogate existing fisheries dependent and independent data from across the Atlantic Area (AA). This task was coordinated by IFI who insured the information was gathered in conjunction with agreed timelines for the DiadSea project. This information was then provided to colleagues in WP3 for the creation of key outputs for the project including a database on the historical biological data for diadromous fish at sea, marine distribution models, maps of marine suitability and an overall update to the Interactive Web Atlas. The diadromous fish targeted by DiadSea include allis shad, twaite shad, European Eel, thin lipped grey mullet, river lamprey, Sea lamprey, smelt, flounder, salmon and sea trout.

This activity will be coordinated by IFI (P9), with collaboration from UÉvora, FCUL, USC, IPMA, MNHN, INRAE and MI.

2.2 Data availability and collection

The interrogation, gathering and collation of relevant available datasets by each Project Partner commenced in November 2024 (M1). Several discussions regarding the availability of datasets for each country were held throughout the first five months of the DiadSea project (M1 – M5), prior to the reporting period in M6. From these meeting a list of data sources was compiled. The first deadline for data submission was April 2024 (M6), 11 data files were submitted at this time by Project Partners to WP1. The second deadline for data submission was agreed at the KOM in Rennes in September 2024 (M12). Five additional

datasets were submitted at this time, supplementary length-based data was also provided for several of the previously submitted datasets. UK data was collated and supplied to WP1 from associated partner CEFAS at later dates in October (M12) and November (M13) respectively, 5 datasets in total were submitted at this time. In total, 42 datasets were collated for this task and are outlined below in Section 3. These datasets represent 468,085 hauls collated and assessed for the presence of diadromous fish.

2.3 Data storage and management

A metadata file was created to provide detailed information regarding each dataset. Its aim was to provide vital context for understanding, organizing and verifying the datasets provided (Figure 1). This file was shared on the DiadSea project sharepoint site and all Project Partners were asked to enter the relevant background information for each of the datasets they submitted. This file was regularly updated throughout the collation period. Discussions were regularly held with project partners in WP3 regarding the availability and abundance of data per country. Data has been validated and quality assured by WP3 colleagues prior to the reporting period in April 2025 (M18).

	A	B	C	D	E	F	G	H	I
					Length based data Available (Yes/No/Maybe)				
1	ID	country	survey name	Survey type (Targeted/Bycatch)		contact organisation	contact person	years	description
2		Ireland	sampling at sea	Bycatch	No	Marine Institute	Sara-Jane Moore	2010-2023	sampling at sea on commercial vessels
3		Ireland	IE-IGFS	Bycatch	Yes	Marine Institute	Dave Currie/Dave Stok	2003-2022	Irish Groundfish Survey;
4		Multiple	senmoe dataset	Bycatch	No	ICES		1965-2019	Elliot dataset
5		Multiple	NS-IBTS	Bycatch	Yes	ICES		2020-2023	North sea international bottom trawl survey
6		Multiple	IBTS	Bycatch	Yes	ICES		1999-2024	Baltic international trawl survey
7		Scotland	SWC-IBTS	Bycatch	Yes	ICES		1985-2010	Scottish west coast bottom trawl survey (up to 2010)
8		France	EVHDE	Bycatch	Yes	ICES		2020-2023	French southern atlantic bottom trawl survey
9		Spain	SP-PORC	Bycatch	Yes	USC	Rufino	2001-2007	Spanish porcupine bottom trawl survey
10		Spain	SP-NORTH	Bycatch	Yes	USC	Rufino	1995-2017	Spanish north coast bottom trawl survey
11		Spain	SP-ARSA	Bycatch	Yes	USC	Rufino	2018-2019	Spanish gulf of cadiz bottom trawl survey
12		Portugal	PT-IBTS	Bycatch	Yes	ICES		2020-2023	Portuguese international bottom trawl survey
13		France	FR-CIGFS	Bycatch	Yes	ICES		2020-2023	French channel ground fish survey
14		Northern Ireland	NI-GFS	Bycatch	Yes	ICES		2005-2022	Northern Ireland ground fish survey
15		Scotland	ROCKALL	Bycatch	No	ICES		1999-2009	Scottish rockall survey - old (until 2010)
16		Multiple	BTS	Bycatch	Yes	ICES		2020-2023	Beam trawl survey
17		France	BTS-VIII	Bycatch	No	ICES		2020-2023	Beam trawl survey - bay of biscay (viii)
18		Ireland	DWS	Bycatch	No	ICES		2006-2009	Deepwater surveys
19		Multiple	DYFS	Bycatch	Yes	ICES		2020-2023	Inshore beam trawl survey
20		Germany & Iceland	IS-IDPS	Bycatch	No	ICES		2009	Irminger sea international deep pelagic survey
21		Norway	NS-IDPS	Bycatch	No	ICES		2009-2016	Norwegian sea international deep pelagic survey
22		Scotland	SCOWCFS	Bycatch	Yes	ICES		2011-2024	Scottish west coast groundfish survey (from 2011)
23		Scotland	SCOROC	Bycatch	Yes	ICES		2011-2023	Scottish rockall survey - new (from 2011)
24		Portugal	Acoustic Surveys	Bycatch	Yes	IPMA	Marta Gonçalves/Bárbari	1982-2023	Portuguese acoustic surveys
25		Portugal	Demersal Surveys	Bycatch	Yes	IPMA	Marta Gonçalves/Bárbari	1979-2023	Portuguese demersal surveys
26		Portugal	Onboard Sampling	Bycatch	Yes	IPMA	Marta Gonçalves/Bárbari	2004-2019	Sampling at sea on commercial vessels
27		Portugal	Market sampling	targeted	Yes	IPMA	Marta Gonçalves/Bárbari	2017-2023	Sampling at first sale fish markets
28		Portugal	Fishermen Questionnaires	targeted	No	UEVORA	Catarina Mateus	2015-2024	Anadromous fish species presence data
29		Portugal	DGRM	bycatch	No	UEVORA	Catarina Mateus	2010-2023	2010-2023 (ongoing for most species); Alosa alosa, Alosa fallax, Salmo salar, Salmo trutta, Oncorhynchus mykiss, Petromyzon marinus.
30		Portugal	bycatch	bycatch	No	UEVORA	Catarina Mateus	2018, 2019 + 2021	shad presence in bycatch data georeferenced points
31		Ireland	Iceco	Bycatch	Yes	Marine Institute	Claire Moore	2023	Irish coastal ecosystem survey
32		Spain	Bycatch data	Bycatch	Yes	USC	Rufino	2021	Sampling at first sale fish markets
33		Spain	Official statistics on landings	Bycatch and targeted fish	No	USC	Rufino	1997-2024	Official statistics on landings in the fish markets of Galicia, Asturias and Cantabria
34		Spain	Bycatch and targeted fisheries	Bycatch and targeted fish	No	AZTI	Esti Diaz	2002-2020	Data from 2002 to 2020; Alosa alosa, Alosa fallax, A. fallax, A. fallax spp, Petromyzon marinus, Lampetra fluviatilis, Anguilla anguilla, Salmo salar, Salmo gairdneri
35		France	French Ministry data			INRAE	Clarisse Boulenger	2003-2023	All FO data
36		France				INRAE	Clarisse Boulenger	2003-2023	Catch data
37		Belgium	eDNA and stow net sampling			IFI	Tony Brett	2021	eDNA and stow net data from Scheldt estuary
38		France	DIADSEA data			INRAE	Patrick Lambert	2003-2017	
39		UK	UK historical sturgeon records	Bycatch	Yes	CEFAS	Tea Basic	1995-2024	UK sturgeon records from the UK sturgeon Alliance
40		UK	Onshore market sampling	Bycatch	Yes	CEFAS	Tea Basic	2013-2023	CEFAS diadromous fish onshore market sampling
41		UK	Observer data	Bycatch	Yes	CEFAS	Tea Basic	2024	Observer bycatch data 2024
42		UK	UK landings	Bycatch	No	CEFAS	Tea Basic	2000-2024	UK landings bycatch data
43		UK	CEFAS survey list			CEFAS	Tea Basic	1901-2024	List of all surveys undertaken by CEFAS since 1901 (Historic and recent), outlines potentially useful surveys
44									

Figure 1 Screenshot of the metadata file created for WP1 data displaying all collated datasets (see Appendix 1 for full details)

3 Data collated for WP3 tasks

3.1 France

3.1.1 Data Collected

In total, 4 datasets were collated and added by INRAE for France with contributions from MNHN. These include diadromous fish at sea database (<https://www.seanoe.org/data/00805/91719/>). This database contains hauls collated from 1965 to 2019, from fisheries dependent and independent data, from across eastern Atlantic waters and French Mediterranean waters. From this data diadromous fish spatio-temporal data was cleaned and standardised. An update of the French Ministry's data from observation of catches at sea (ObsMer) programme has been collected to complement this database, which ends in 2019. The presence of species of interest from the DiadES project database at the scale of ICES rectangles and at the annual time scale were provided. These datasets are outlined in the Table 1 below.

Table 1 Data provided for France

Organisation	Data type	Years	Survey name	Date of collation	Source
INRAE	French ministry data	2003 - 2023	All FO data	30/04/24	ObsMer
INRAE	French ministry data	2003 - 2023	Catch data	30/04/24	ObsMer
INRAE	DiadES data	2003 - 2017	DiadES data	Gathered during DiadES project	DiadES
INRAE – Institut Agro	French ministry data	1965- 2019	MigrenMer Database	Gathered during MigrenMer Project	MigrenMer

3.2 Ireland

3.2.1 Data collected

In total, 22 datasets were collated and added by Ireland (IFI and MI respectively). The MI provided survey data from the ICEco survey along with bycatch and discard data for diadromous fish. Inland Fisheries Ireland collated the European DATRAS trawl data from 2019 – 2023, this work was aimed at building on the work undertaken by Elliot *et al.*, (2023) by collating the most recent data from '2019 – 2023' and including surveys not included in the original analysis. Belgian stow net data and eDNA data was obtained by IFI however this data did not prove to be useful for DiadSea analysis as they were located in estuarine waters. These datasets are outlined in Table 2 below.

Table 2 Data provided for Ireland

Organisation	Data type	Years	Survey name	Date of collation	Source
Marine Institute (MI)	DATRAS Trawl data	2003-2022	IE_IGFS	31/03/2024	ICES Datras website
Multiple	DATRAS Trawl data	1965-2019	Sennoe dataset	16/01/2024	ICES Datras website
Multiple	DATRAS Trawl data	2020-2023	NS-IBTS	31/03/2024	ICES Datras website
Multiple	DATRAS Trawl data	1999-2024	BITS	31/03/2024	ICES Datras website
Scotland	DATRAS Trawl data	1985-2010	SWC-IBTS	31/03/2024	ICES Datras website
France	DATRAS Trawl data	2020-2023	EVHOE	31/03/2024	ICES Datras website
Portugal	DATRAS Trawl data	2020-2023	PT-IBTS	31/03/2024	ICES Datras website
France	DATRAS Trawl data	2020-2023	FR-CGFS	31/03/2024	ICES Datras website
Northern Ireland	DATRAS Trawl data	2005-2022	NIGFS	31/03/2024	ICES Datras website
Scotland	DATRAS Trawl data	1999-2009	ROCKALL	31/03/2024	ICES Datras website
Multiple	DATRAS Trawl data	2020-2023	BTS	31/03/2024	ICES Datras website
France	DATRAS Trawl data	2020-2023	BTS-VIII	31/03/2024	ICES Datras website
Ireland	DATRAS Trawl data	2006-2009	DWS	31/03/2024	ICES Datras website
Multiple	DATRAS Trawl data	2020-2023	DYFS	31/03/2024	ICES Datras website
Germany & Iceland	DATRAS Trawl data	2009	IS-IDPS	31/03/2024	ICES Datras website
Norway	DATRAS Trawl data	2009-2016	NS-IDPS	31/03/2024	ICES Datras website
Scotland	DATRAS Trawl data	2011-2024	SCOWCGFS	31/03/2024	ICES Datras website
Scotland	DATRAS Trawl data	2011-2023	SCOROC	31/03/2024	ICES Datras website
Marine Institute (MI)	ICEco bycatch	2023	Irish coastal ecosystem survey	01/05/2024	Marine Institute (MI)
Marine Institute (MI)	Sampling at sea bycatch	2010-2023	Sampling at sea on commercial vessels	04/04/2024	Marine Institute (MI)
Belgium	eDNA and stow net data	2021	eDNA and stow net data from the Scheldt Estuary	27/5/2024	Research Institute for Nature and Forest (INBO), Ghent University

3.3 Portugal

3.3.1 Data collected

In total, 7 datasets were provided by Portugal (IPMA and UEVORA respectively). These were a mixture of acoustic, demersal, onboard sampling, market sampling, angler survey and trawl bycatch data. These datasets are outlined in the Table 3 below:

Table 3 Data provided for Portugal

Organisation	Data type	Years	Survey name	Date of collation	Source
IPMA	Acoustic Surveys bycatch	1982-2023	Portuguese acoustic surveys	02/04/2024	IPMA Database
IPMA	Demersal Surveys bycatch	1979-2023	Portuguese demersal surveys	11/04/2024	IPMA Database
IPMA	Onboard Sampling bycatch	2004-2019	Sampling at sea on commercial vessels	11/04/2024	IPMA Database
IPMA	Market sampling	2017-2023	Sampling at first sale fish markets	11/04/2024	IPMA Database
UEVORA	Fishermen Questionnaires targeted	2015 - 2024	Anadromous fish species presence data	12/04/2024	UE-MARE
UEVORA	DGRM bycatch	2010 - 2023	2010 - 2023 (ongoing for most species); <i>Alosa alosa</i> , <i>Alosa fallax</i> , <i>Salmo salar</i> , <i>Salmo trutta</i> , <i>Oncorhynchus mykiss</i> , <i>Petromyzon marinus</i> .	13/04/2024	DGRM
UEVORA	Bycatch data	2018, 2019 + 2021	Shad presence in bycatch data georeferenced points	14/04/2024	UE-MARE

3.4 Spain

3.4.1 Data collected

In total, 6 datasets were provided by Spain (USC and AZTI respectively) and are outlined in the Table 4 below:

Table 4 Data provided for Spain

Organisation	Data type	Years	Survey name	Date of collation	Source
USC	DATRAS Trawl data	2001 - 2007	SP-PORC	30/09/24	ICES Datras website
USC	DATRAS Trawl data	1995 - 2017	SP-NORTH	30/09/24	ICES Datras website
USC	DATRAS Trawl data	2018 - 2019	SP-ARSA	30/09/24	ICES Datras website
USC	Bycatch data	2021	Sampling at first sale fish markets	18/04/2024	USC Database
USC	Official statistics on landings	1997 - 2024	Official statistics on landings in the fish markets of Galicia, Asturias and Cantabria	08/05/24	USC Database
AZTI	Bycatch and targeted fisheries data	2002 - 2020	Data from 2002 to 2020; <i>Alosa alosa</i> , <i>Alosa fallax</i> , <i>A. alosa</i> , <i>A. fallax</i> , <i>Alosa spp</i> , <i>Petromyzon marinus</i> , <i>Lampetra fluviatilis</i> , <i>Anguilla anguilla</i> , <i>Salmo salar</i> , <i>Salmo trutta</i> , <i>Acipenser sturio</i> , <i>Chelon ramada</i> , <i>Osmerus eperlanus</i> , <i>Platichthys flesus</i>	Gathered during DIADES project	AZTI (Diades data)

3.5 UK

3.5.1 Data collected

In total, 5 datasets were provided by CEFAS for the UK. These contained historical sturgeon bycatch, onshore market sampling, observer data, UK landings and CEFAS long-term survey data. These are outlined in the Table 5 below:

Table 5 Data provided for the UK

Organisation	Data type	Years	Survey name	Date of collation	Organisation
CEFAS	UK historical sturgeon bycatch records	1995 - 2024	UK historical sturgeon records	10/10/2024	CEFAS
CEFAS	Onshore market sampling	2013 - 2023	2013 – 2023 Data	29/11/2024	CEFAS
CEFAS	Observer data	2024	2024 Data	29/11/2024	CEFAS
CEFAS	UK landings	2000 - 2024	2000 – 2024 Data	29/11/2024	CEFAS
CEFAS	CEFAS survey list	1901 - 2024	1901 – 2024 surveys list	29/11/2024	CEFAS

4 Database creation

WP3 leaders 'INRAE' created a secure website via 'Quarto' in order to visualize the collated data (Figure 2). This website 'DiadSea exploration and visualization atlas' was finalized in February 2025 (M16) and Project Partners were given access with the intention of data validation. This atlas brings together the information collected from the datasets acquired as part of WP1 and used by WP3, the extent of these datasets covered the European coastal area from Portugal to the Baltic (Figure 3). The website itself is divided into several sections:

1. **Raw Datasets:** Atlas for viewing and exploring the raw data, organised by data holder.
2. **Compiled database:** containing a Metadata tab describing all the data used to create the compiled database (at the chosen spatial/temporal range), and maps/tables to visualise the presence of species.
3. **Marine variables:** containing the range of marine variables that will be used.

The main objectives of WP3 Assessment of priority areas for conservation are:

- Diadromous species marine distribution models for baseline and future climate change scenarios.
- Identification of areas with high turnover for diadromous species in marine areas under climate change scenarios, filling data gaps on the DF marine and estuarine phase.
- Vulnerability and opportunities assessment for the species of interest, particularly the ones considered as data poor under climate change scenarios.
- Identification of important areas to ensure longitudinal (sea-river interface) and latitudinal connectivity through time.
- Improving the Interactive Web Atlas with current and future distributions of diadromous species at sea.

The database created as part of WP1 will be used to meet these objectives. Depending on the modelling framework, certain data sources may be favoured and others not used, based on the quality of the information available (spatial and temporal accuracy, availability of size and gear information, etc.)

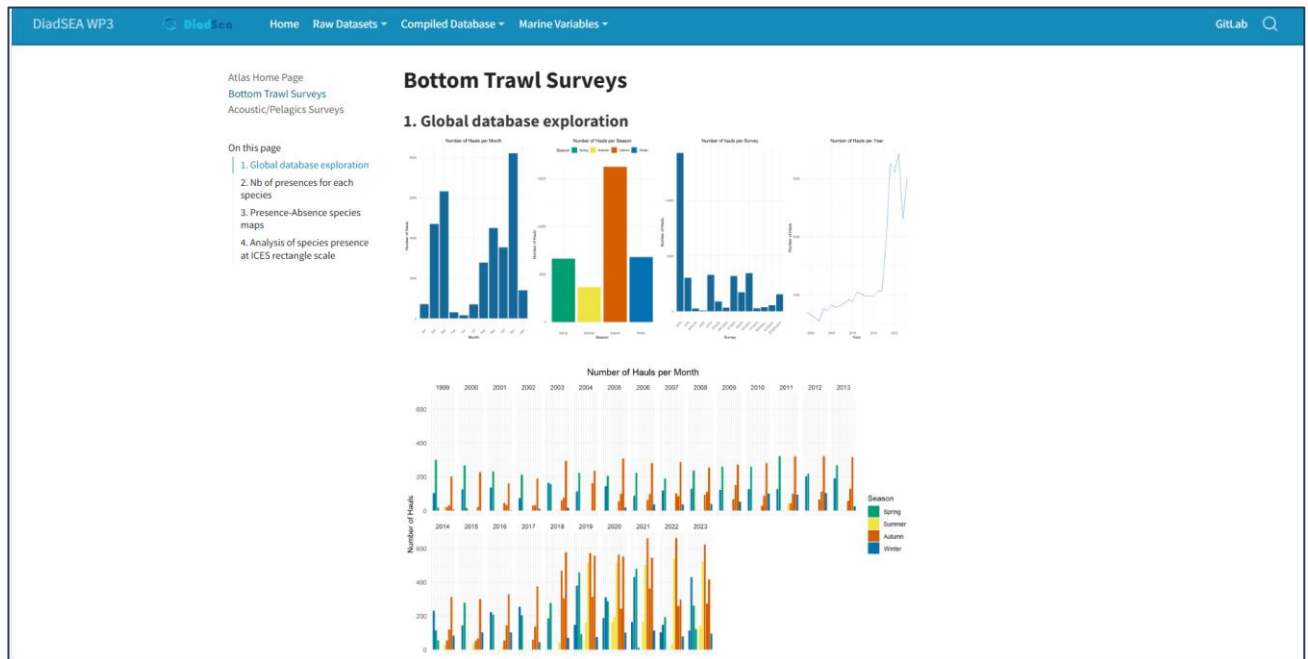


Figure 2 Screenshot of the Data Exploration and Visualization atlas' created by WP3 for all collated datasets.

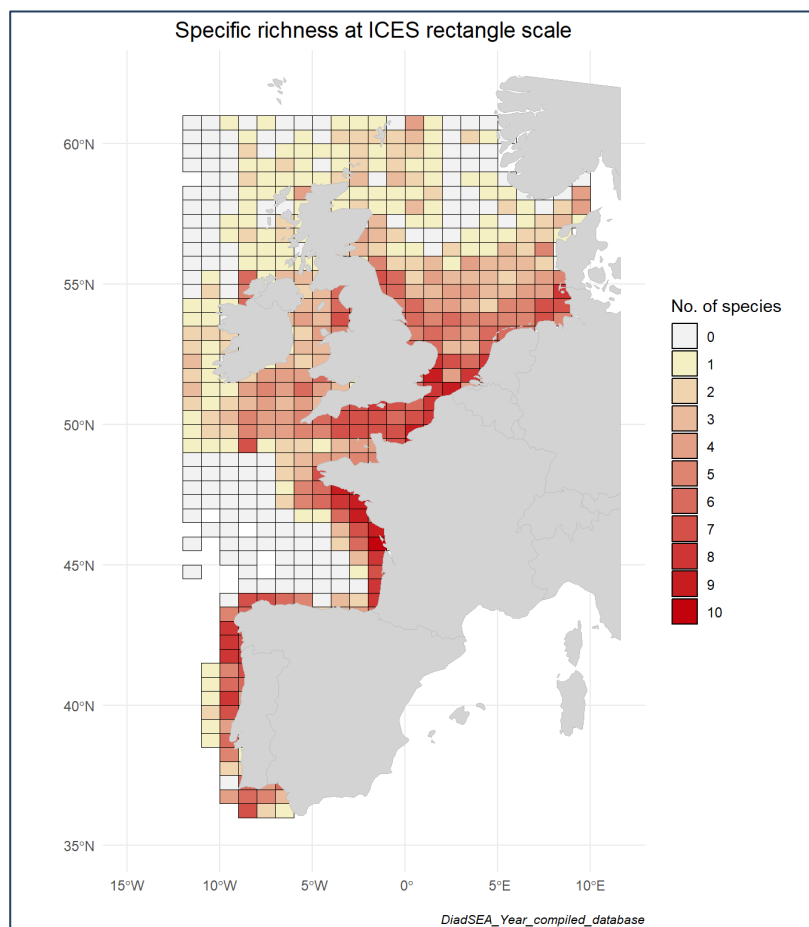


Figure 3 Map of species richness at ICES rectangle scale

5 Conclusion

A large dataset from the Atlantic Area representing both fishery dependent and independent sources was collated and transferred to work package 3. The data represents 42 data sets and accounts for 468,085 fishing hauls. This report should be read in conjunction with output O2 the Data Gaps Report, this report interrogates the data collated for presence of diadromous fish.

Appendix 1: Metadata file WP1.1

ID	Country	Survey name	Survey type (Targeted/Bycatch)	Length based data Available (Yes/No/Maybe)	Contact Organisation	Contact person	Years	Description
1	Ireland	sampling at sea	Bycatch	No	Marine Institute	Sara-Jane Moore	2010-2023	sampling at sea on commercial vessels
2	Ireland	IE_IGFS	Bycatch	Yes	Marine Institute	Dave Currie/Dave Stokes	2003-2022	Irish Groundfish Survey;
3	Multiple	sennoe dataset	Bycatch	No	ICES		1965-2019	Elliot dataset
4	Multiple	NS-IBTS	Bycatch	Yes	ICES		2020-2023	North sea international bottom trawl survey
5	Multiple	BITS	Bycatch	Yes	ICES		1999-2024	Baltic international trawl survey
6	Scotland	SWC-IBTS	Bycatch	Yes	ICES		1985-2010	Scottish west coast bottom trawl survey (up to 2010)
7	France	EVHOE	Bycatch	Yes	ICES		2020-2023	French southern atlantic bottom trawl survey
8	Spain	SP-PORC	Bycatch	Yes	USC	Rufino	2001 - 2007	Spanish porcupine bottom trawl survey
9	Spain	SP-NORTH	Bycatch	Yes	USC	Rufino	1995 - 2017	Spanish north coast bottom trawl survey
10	Spain	SP-ARSA	Bycatch	Yes	USC	Rufino	2018 - 2019	Spanish gulf of cadiz bottom trawl survey
11	Portugal	PT-IBTS	Bycatch	Yes	ICES		2020-2023	Portuguese international bottom trawl survey
12	France	FR-CGFS	Bycatch	Yes	ICES		2020-2023	French channel ground fish survey
13	Northern Ireland	NIGFS	Bycatch	Yes	ICES		2005-2022	Northern ireland ground fish survey
14	Scotland	ROCKALL	Bycatch	No	ICES		1999-2009	Scottish rockall survey - old (until 2010))
15	Multiple	BTS	Bycatch	Yes	ICES		2020-2023	Beam trawl survey
16	France	BTS-VIII	Bycatch	No	ICES		2020-2023	Beam trawl survey - bay of biscay (viii)
17	Ireland	DWS	Bycatch	No	ICES		2006-2009	Deepwater surveys
18	Multiple	DYFS	Bycatch	Yes	ICES		2020-2023	Inshore beam trawl survey
19	Germany & Iceland	IS-IDPS	Bycatch	No	ICES		2009	Irminger sea international deep pelagic survey
20	Norway	NS-IDPS	Bycatch	No	ICES		2009-2016	Norwegian sea international deep pelagic survey
21	Scotland	SCOWCGFS	Bycatch	Yes	ICES		2011-2024	Scottish west coast groundfish survey (from 2011)
22	Scotland	SCOROC	Bycatch	Yes	ICES		2011-2023	Scottish rockall survey - new (from 2011)

23	Portugal	Acoustic Surveys	Bycatch	Yes	IPMA	Marta Gonçalves/Bárbara Serra Pereira	1982-2023	Portuguese acoustic surveys
24	Portugal	Demersal Surveys	Bycatch	Yes	IPMA	Marta Gonçalves/Bárbara Serra Pereira	1979-2023	Portuguese demersal surveys
25	Portugal	Onboard Sampling	Bycatch	Yes	IPMA	Marta Gonçalves/Bárbara Serra Pereira	2004-2019	Sampling at sea on commercial vessels
26	Portugal	Market sampling		Yes	IPMA	Marta Gonçalves/Bárbara Serra Pereira	2017-2023	Sampling at first sale fish markets
27	Portugal	Fishermen Questionnaires	targeted	No	UEVORA	Catarina Mateus	2015 - 2024	Anadromous fish species presence data
28	Portugal	DGRM	bycatch	No	UEVORA	Catarina Mateus	2010 - 2023	2010 - 2023 (ongoing for most species); Alosa alosa, Alosa fallax, Salmo salar, Salmo trutta, Oncorhynchus mykiss, Petromyzon marinus.
29	Portugal	bycatch	bycatch	No	UEVORA	Catarina Mateus	2018, 2019 + 2021	shad presence in bycatch data georeferenced points
30	Ireland	ICEco	Bycatch	Yes	Marine Institute	Claire Moore	2023	Irish coastal ecosystem survey
31	Spain	Bycatch data	Bycatch	Yes	USC	Rufino	2021	Sampling at first sale fish markets
32	Spain	Official statistics on landings	Bycatch and targeted fisheries data (depending on the species). Targeted for Petromyzon marinus, Anguilla anguilla, Platichthys flesus and Chelon ramada. Bycatch for Alosa alosa, Alosa fallax, Salmo salar and Salmo trutta.	No	USC	Rufino	1997 - 2024	Official statistics on landings in the fish markets of Galicia, Asturias and Cantabria
33	Spain	Bycatch and targeted fisheries data	Bycatch and targeted fisheries data (depending on the species). Targeted for Petromyzon marinus, Anguilla anguilla, Platichthys flesus and Chelon ramada. Bycatch for Alosa alosa, Alosa fallax, Salmo salar and Salmo trutta.	No	AZTI	Esti Diaz	2002 - 2020	Data from 2002 to 2020; Alosa alosa, Alosa fallax, A. alosa/A fallax, Alosa spp, Petromyzon marinus, Lampetra fluviatilis, Anguilla anguilla, Salmo salar, Salmo trutta, Acipenser sturio, Chelon ramada, Osmerus eperlanus, Platichthys flesus

34	France	French Ministry data			INRAE	Clarisse Boulenger	2003 -2023	All FO data
35	France	French Ministry data			INRAE	Clarisse Boulenger	2003 - 2023	Catch data
36	Belgium	eDNA and stow net sampling			IFI	Tony Brett	2021	eDNA and stow net data from Scheldt estuary
37	France	DIADES data			INRAE	Patrick Lambert	2003 - 2017	
38	UK	UK historical sturgeon records	Bycatch	Yes	CEFAS	Tea Basic	1995 - 2024	UK sturgeon records from the UK sturgeon Alliance
39	UK	Onshore market sampling	Bycatch	Yes	CEFAS	Tea Basic	2013 - 2023	CEFAs diadromous fish onshore market sampling
40	UK	Observer data	Bycatch	Yes	CEFAS	Tea Basic	2024	Observer bycatch data 2024
41	UK	UK landings	Bycatch	No	CEFAS	Tea Basic	2000 - 2024	UK landings bycatch data
42	UK	CEFAS survey list			CEFAS	Tea Basic	1901 - 2024	List of all surveys undertaken by CEFAS since 1901 (Historic and recent), outlines potentially useful surveys

Appendix 2: Glossary

Abbreviations	
BITS	Baltic International Trawl Survey
CFP	Common Fisheries Policy
DATRAS	Database of trawl surveys
DF	Diadromous Fish
DYFS	Demersal Young Fish Survey
eDNA	Environmental DNA
FCUL	<i>Faculdade de Ciências da Universidade de Lisboa/ Faculty of Sciences of the University of Lisbon</i>
Fleksi	Fishers' Local Ecological Knowledge Surveillance Indicators
IBTS	International Bottom Trawl Survey
ICECO	Irish Coastal Ecosystem Survey
ICES	International Council of the Exploration of the Sea
ICES	International Council of the Exploration of the Sea
IFI	Inland Fisheries Ireland
Ifremer	French Institute for Ocean Science
INRAE	<i>Institut National de Recherche en Agriculture, Alimentation et Environnement/ France's National Research Institute for Agriculture, Food and Environment</i>
IPMA	<i>Instituto Português do Mar e da Atmosfera/Portuguese Institute for Sea and Atmosphere</i>
MI	Marine Institute
MNHN	<i>Museum national histoire naturelle Station Dinard/National Natural History Museum</i>
MS	Member State
ObsMer	A system in France for the observation of catches at sea, whether landed or discarded by professional fishing vessels
PETS	Protected, endangered and threatened species
RCG	Regional Coordination Groups (RCGS)
Spanish BIOMAN	AZTI led survey in the Bay of Biscay
Spanish IEO	Spanish Institute of Oceanography

Abbreviations	
UÉvora	<i>Universidade de Évora</i>
USC	<i>Universidade de Santiago de Compostela/University of Santiago de Compostela</i>