



Marine Management Organisation



UK Sea Fisheries Statistics 2017



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UK SEA FISHERIES STATISTICS 2017

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Preface

UK Sea Fisheries Statistics 2017 provides a broad picture of the UK fishing industry and its operations. This publication includes data on the structure, activity and landings of the UK fleet alongside additional information on overseas trade, exploitation of stocks and the world fishing industry.

Several tables in this publication have been fully revised to reflect the latest data available. Please see Appendix 5 for details. Tables in this publication are produced in accordance with National Statistics guidelines; however, data sourced externally are official statistics and are not certified as National Statistics. Such data are marked clearly throughout the publication.

The tables shown in this publication along with more detailed tables can be found on the MMO website. Please see <https://www.gov.uk/government/collections/uk-sea-fisheries-annual-statistics> for details.

We recommend that you refer to the explanatory notes and glossary of terms which are important in interpreting some of the data.

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Explanatory notes

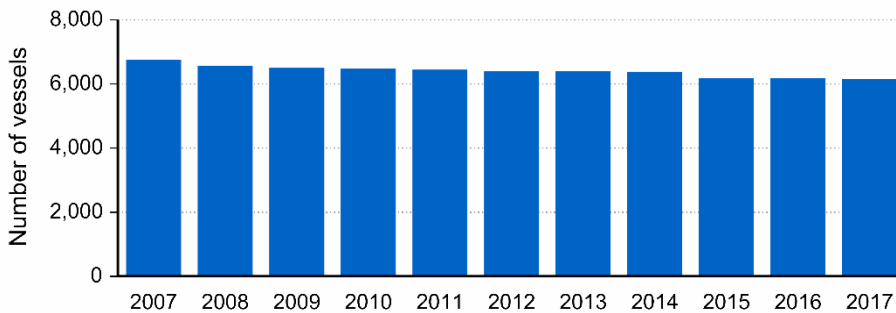
1. The tables refer, as far as possible, to the United Kingdom, including the Isle of Man and the Channel Islands, with separate figures for England, Wales, Scotland and Northern Ireland. In some cases figures for the various parts of the United Kingdom are not strictly comparable and differences are explained in the headings and footnotes of the tables.
2. The figures in the tables in Chapters 3 and 6 for landings are given in terms of live weight. Those in Chapter 4 are for landed weight.
3. Landings by foreign vessels into the UK include landings by fishing vessels and carriers (if first point of sale of fish).
4. Landings figures include a quantity caught by UK vessels but not actually landed at UK ports. These quantities are transhipped to foreign vessels in coastal waters and are later recorded as exports.
5. The following symbols apply throughout:
 - means "nil"
 - .. means "negligible" (less than half the last digit shown)
 - nd means "no data available"
 - na means "not applicable"
 - R means "revision"

1 Overview of the UK fishing industry

Fleet size and employment

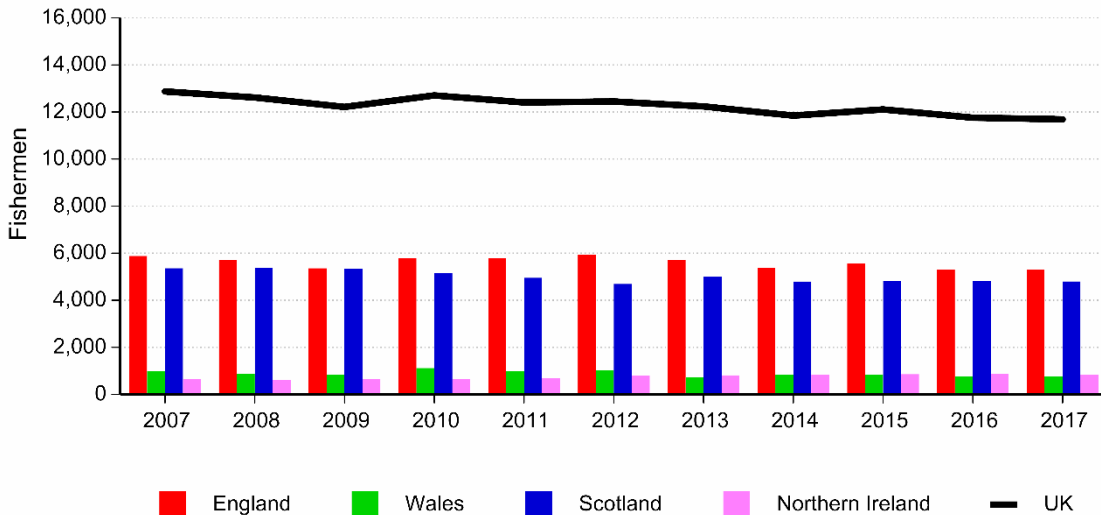
In 2017, the UK fishing industry had 6,148 fishing vessels, 43 vessels fewer than in the previous year. The fleet in 2017 comprised 4,834 10 metre and under vessels and 1,314 over 10 metre vessels.

Chart 1.1: UK fleet size: 2007 to 2017



There were an estimated 11,692 fishermen in 2017, down 9 per cent since 2007 and 65 fewer than in 2016. Of these, 5,299 were based in England, 756 in Wales, 4,799 in Scotland and 838 in Northern Ireland. Part-time fishermen accounted for 17 per cent of the total in 2017 compared with 20 per cent a decade ago. Further details can be found in Chapter 2.

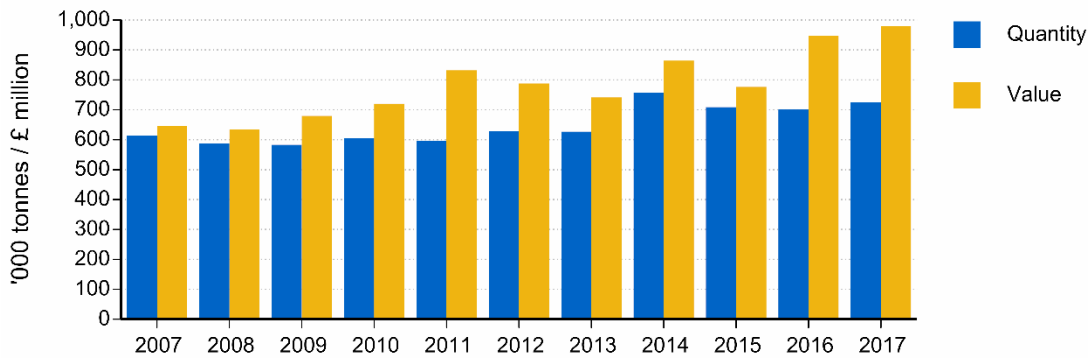
Chart 1.2: Number of fishermen in the UK: 2007 to 2017



Catch by UK vessels

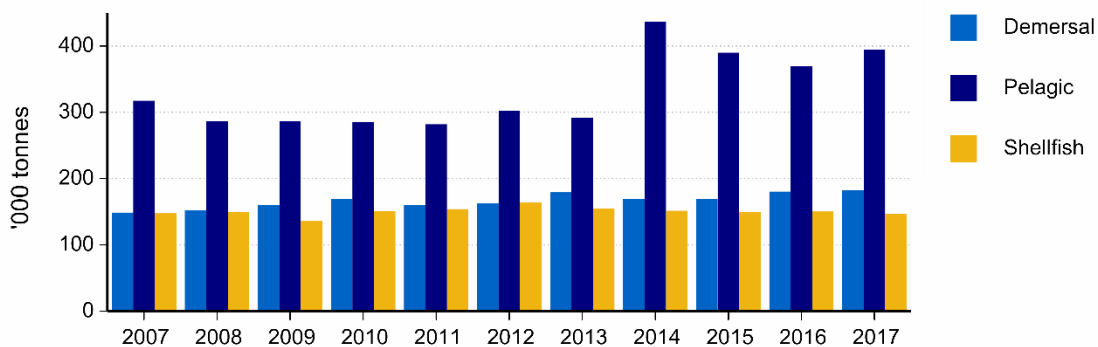
Chapter 3 presents information on quantity (live weight), value and area of capture for all UK vessels landing into the UK and abroad as well as for foreign vessels landing into the UK. Landings by member states against individual European Commission quotas for each fish stock targeted by the UK are also provided.

Chart 1.3: UK vessels landing into the UK and abroad: 2007 to 2017



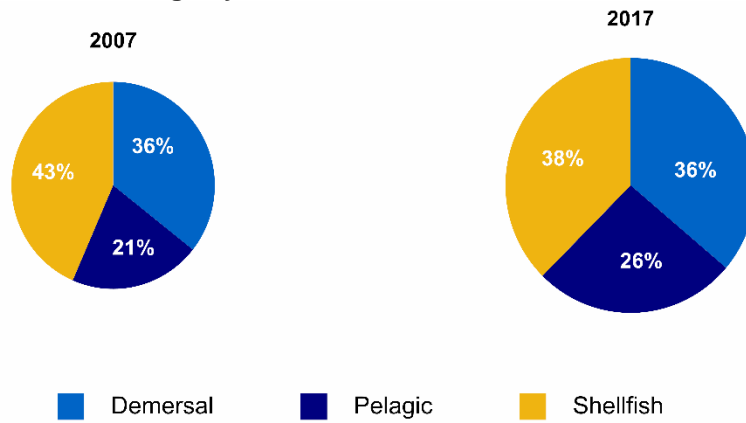
In 2017, UK vessels landed 724 thousand tonnes of sea fish (including shellfish) into the UK and abroad with a value of £980 million. This represents a 3 per cent increase in quantity and a 4 per cent increase in value compared with 2016. Landings abroad by the UK fleet rose by 13 per cent.

Chart 1.4: UK vessels landing into the UK and abroad by species group: 2007 to 2017



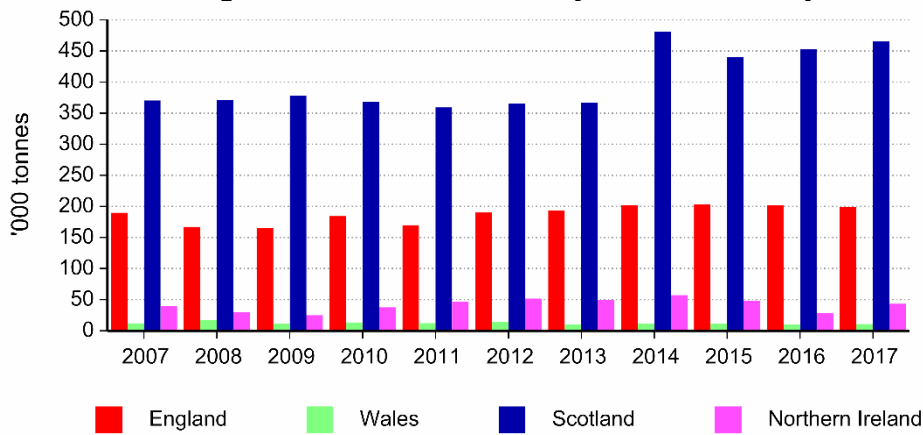
The quantity of pelagic fish landed rose by 7 per cent in 2017 but is still 10 per cent lower than in 2014 when mackerel quotas were at their peak. However, mackerel landings, and consequently pelagic landings, are still far higher than they were a few years ago. Demersal landings are 1 per cent higher than in 2016 while shellfish landings are 2 per cent lower.

Chart 1.5: Value of landings by UK vessels into the UK and abroad



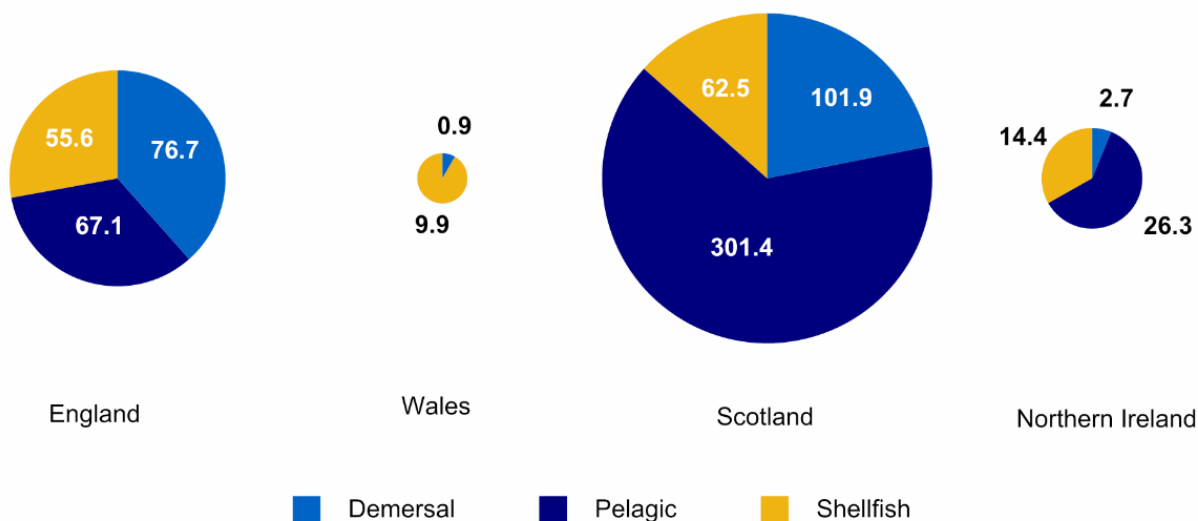
The share of the value of pelagic landings has increased by 5 percentage points over the last ten years to 26 per cent, largely at the expense of shellfish landings. Despite this, shellfish still account for the largest share - 38 per cent.

Chart 1.6: Landings into the UK and abroad by vessel nationality: 2007 to 2017



Landings by Scottish vessels were well over 400 thousand tonnes in each of the last four years, a result of increased mackerel landings. In 2017, the Scottish fleet's share of total landings was 64 per cent, compared with 28 per cent for the English fleet.

Chart 1.7: Landings into the UK and abroad by vessel nationality and species group: 2017 ('000 tonnes)

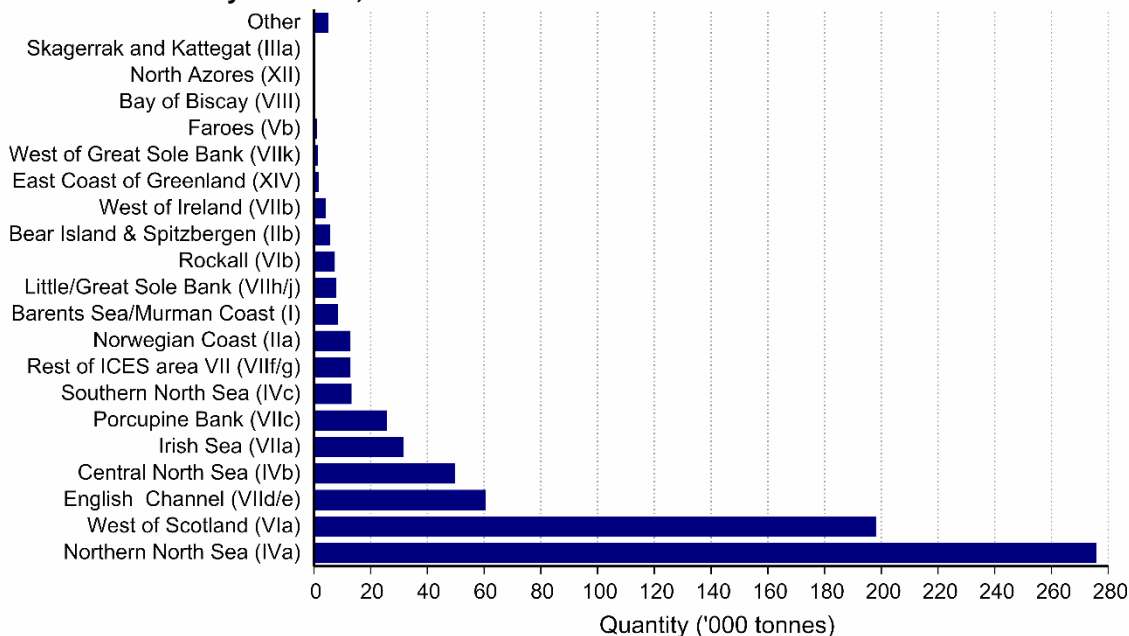


In terms of quantity, around two thirds of the Scottish fleet’s landings were pelagic fish. Pelagic species have replaced shellfish as the major species group for Northern Ireland. Demersal species accounted for the largest share of English fleet landings, although there were significant shares in pelagic and shellfish too. A large majority of the Welsh fleet’s landings were shellfish.

Catch by sea area

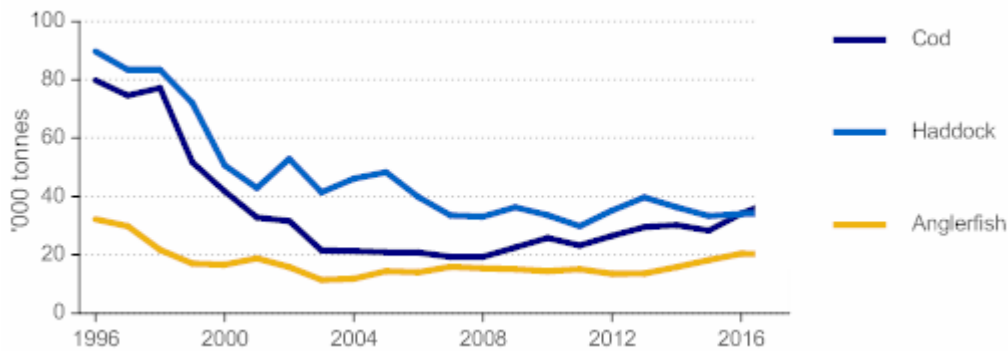
In 2017, almost two thirds of all landings by UK vessels were caught from Northern North Sea and West of Scotland (ICES divisions IVa and VIa – see Appendix 3 for a map of fishing areas).

Chart 1.8: Catch by sea area, UK vessels: 2017



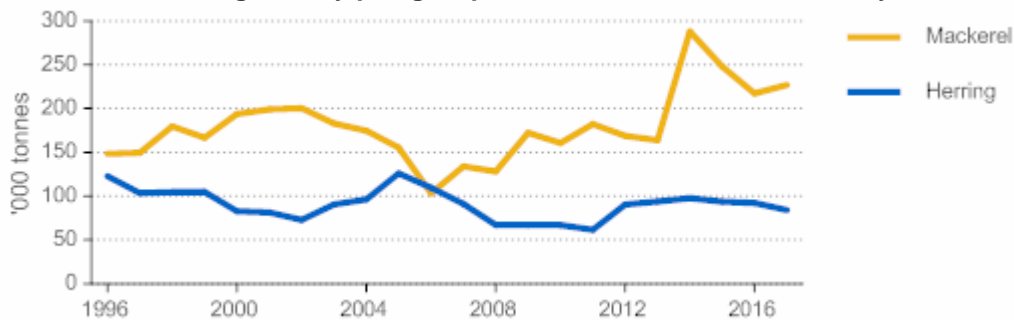
Catch by individual species

Chart 1.9: Landings of key demersal species into the UK and abroad by UK vessels: 1996 to 2017



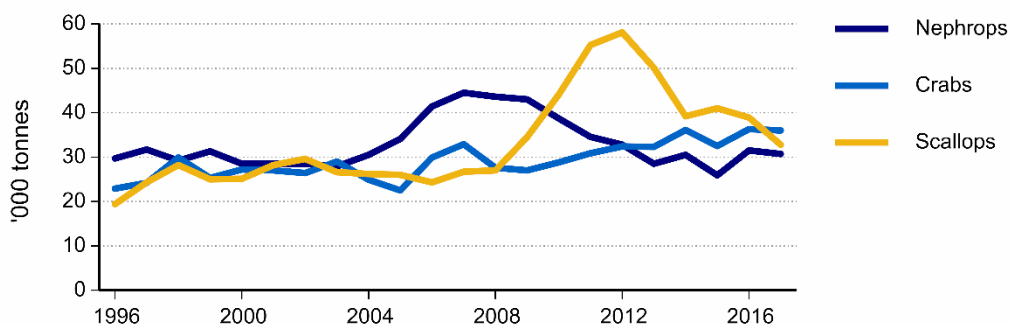
Falling catches of cod and haddock have contributed to the large reduction in demersal landings since 1996. In 2017, the UK fleet landed 38 thousand tonnes of cod (down 52 per cent since 1996) and 34 thousand tonnes of haddock (down 62 per cent since 1996). This represents a combined decrease of 97 thousand tonnes. Anglerfish is now the third highest demersal species in terms of live weight quantity landed.

Chart 1.10: Landings of key pelagic species into the UK and abroad by UK vessels: 1996 to 2017



In 2017, mackerel landings rose to 227 thousand tonnes but are still lower than the 288 thousand tonne peak of 2014. Landings of herring fell by 9 per cent in the year.

Chart 1.11: Landings of key shellfish species into the UK and abroad by UK vessels: 1996 to 2017



In 2017, 31 thousand tonnes of nephrops (langoustines) were landed, a 31 per cent decrease since the high point of 2007. Landings of crabs have increased by 57 per cent since 1996 to 36 thousand tonnes. The quantity of scallops landed was 33 thousand tonnes, 44 per cent lower than the peak in 2012.

Landings into UK ports

Table 1.1 shows landings figures for three key ports in each UK country. In 2017, Peterhead, Lerwick and Fraserburgh accounted for 50 per cent by quantity and 35 per cent by value of all landings by UK vessels into the UK.

TABLE 1.1 Landings by UK vessels into key ports: 2017

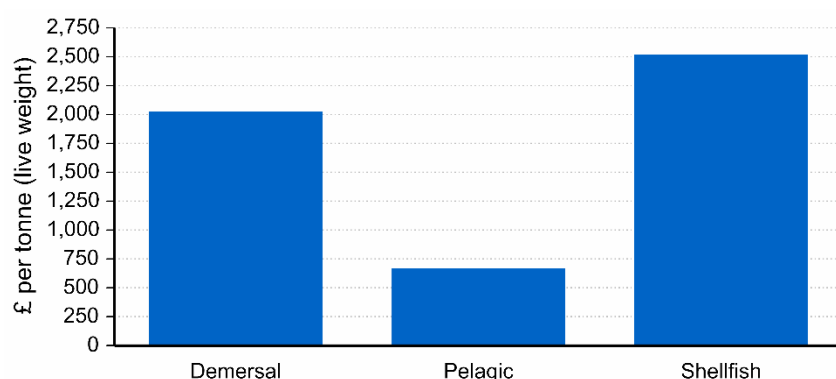
	Quantity ('000 tonnes)				Value (£ million)			
	Demersal	Pelagic	Shellfish	Total	Demersal	Pelagic	Shellfish	Total
England								
Brixham	4.7	1.6	8.7	15.1	15.6	0.5	24.6	40.6
Newlyn	6.5	3.9	3.2	13.6	19.4	1.6	8.9	29.9
Plymouth	1.3	6.5	2.9	10.7	4.5	3.3	8.1	15.9
Wales								
Fishguard	..	-	2.2	2.2	..	-	2.9	2.9
Milford Haven	0.5	..	1.0	1.5	1.5	..	2.0	3.5
Holyhead	..	..	1.3	1.3	..	..	2.0	2.0
Scotland								
Peterhead	48.2	98.6	4.1	150.9	86.9	66.2	13.6	166.7
Lerwick	9.7	29.7	0.3	39.8	18.6	21.6	1.0	41.3
Fraserburgh	8.7	11.5	6.3	26.5	15.0	9.6	21.4	46.0
Northern Ireland								
Belfast	-	6.2	..	6.2	-	3.8	..	3.8
Kilkeel	1.5	-	3.3	4.8	2.4	-	7.2	9.6
Portavogie	0.4	..	2.7	3.1	0.4	..	6.2	6.6

Source: Fisheries Administrations in the UK

Note: Additional data on the UK fishing industry are available for download from the MMO website as supplementary Table 1.2.

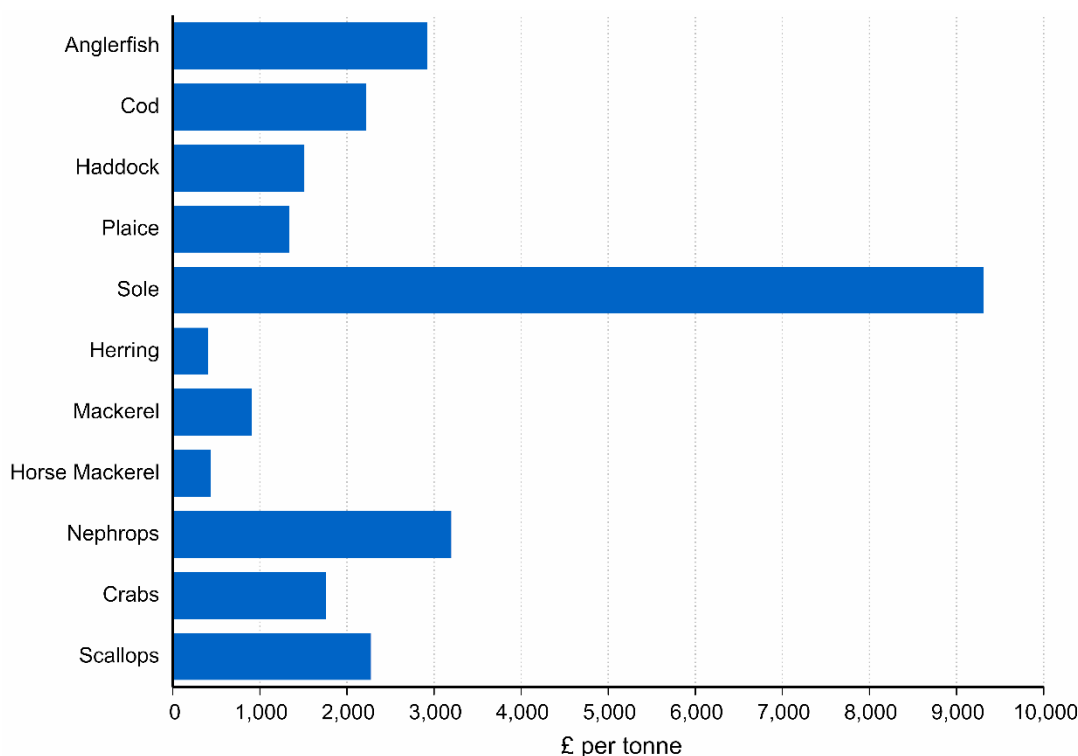
Average value

Chart 1.12: Average live weight value, UK vessels landing into the UK: 2017



In 2017, the average value of shellfish landed by UK vessels into the UK was around £2,500 per tonne (live weight) compared with £2,200 per tonne in 2016. For demersal species, the average price increased from £1,900 per tonne in 2016 to £2,000 per tonne in 2017. Pelagic prices fell from an average of £710 per tonne to £670 per tonne. Figures for key species are shown below.

Chart 1.13: Average live weight value of key species, UK vessels landing into the UK: 2017



Catch by sector

In 2017, 99 per cent of the pelagic fish and 97 per cent of the demersal fish landed by the UK fleet were caught by vessels in a producer organisation. In contrast, only 44 per cent of all shellfish were landed by vessels in a producer organisation.

Chapter 2 shows the membership of fish producer organisations for vessels over 10 metres in length. An overview of the landings by each producer organisation, as well as for the non-sector and the 10 metres and under pool, is given in Chapter 3.

Fishing effort

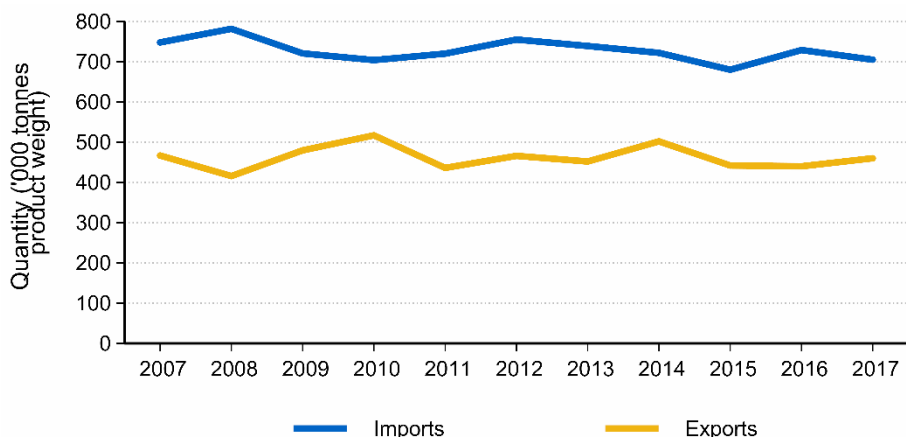
An overview of fishing effort (kW days) in recovery areas is given in Chapter 2. In 2017:

- UK fishing effort by the over 10 metre fleet is 39 per cent lower than in 2002.
- Fishing effort with regulated whitefish trawls (TR1) is 29 per cent lower than when the Cod Recovery Zone was implemented in 2003, despite a rise in each of the last five years.
- Activity in the Sole Recovery Zone with regulated beam trawls is 3 per cent lower than when it was created in 2004. Effort fell sharply between 2006 and 2010 but has risen in each of the last four years.
- Effort on fishing trips targeting scallops in ICES sub-area VII has increased by 27 per cent since 2002, while effort on similar trips in ICES sub-areas V and VI has more than halved.

Imports and exports

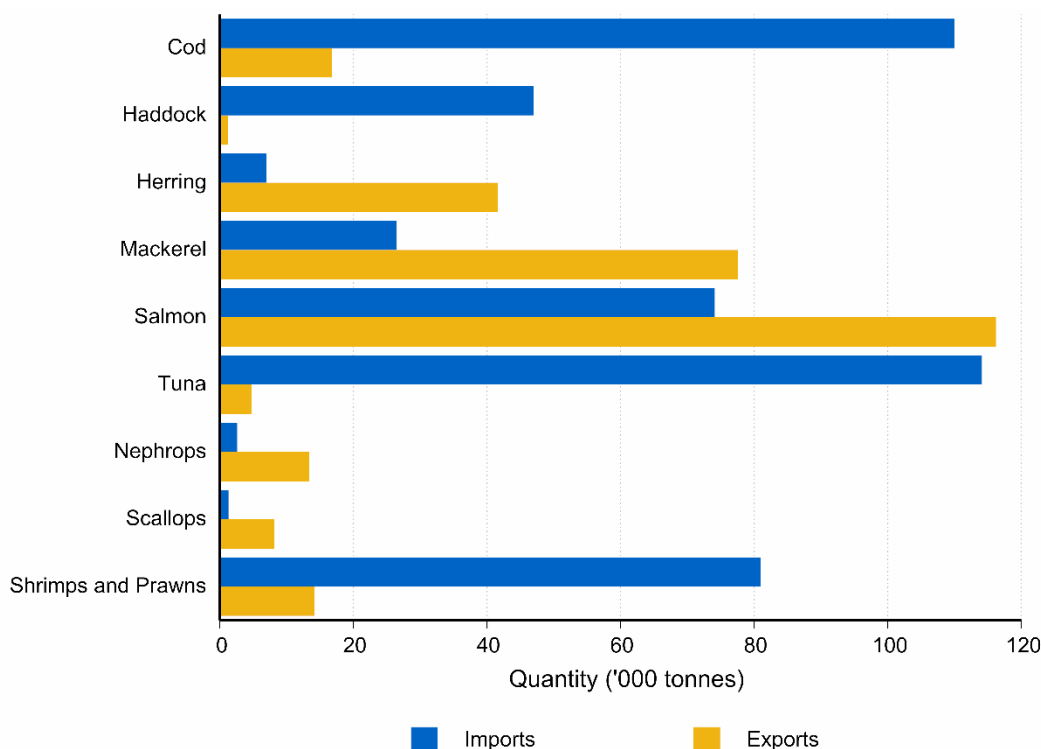
In 2017, imports of fish and fish preparations fell by 25 thousand tonnes to 705 thousand tonnes. Exports rose by 20 thousand tonnes to 460 thousand tonnes.

Chart 1.14: UK imports and exports: 2007 to 2017



In 2017, imports were highest for tuna, cod, shrimps and prawns and salmon. The UK's main exports were salmon, mackerel and herring.

Chart 1.15: UK imports and exports by key species: 2017



In 2017, imports into the UK were highest from China (67 thousand tonnes), Iceland (56 thousand tonnes), Germany (50 thousand tonnes) and Denmark (43 thousand tonnes). Of the UK exports, the largest amounts went to France (89 thousand tonnes), the Netherlands (68 thousand tonnes), Spain (45 thousand tonnes) and the USA (36 thousand tonnes). Full details on imports and exports are in Chapter 4.

Chapter 5 provides summary information on the scientific assessment of key fish stocks. Chapter 6 compares the UK fishing industry with other European countries and the rest of the world.

2 Structure and activity of the UK fishing industry

Introduction

In 2017 the UK had 6,148 registered fishing vessels, 43 fewer than in the previous year. There were 11,692 fishermen on UK registered vessels, a drop of 65 in the year. The number of kW days spent at sea by vessels over 10 metres in length has risen by 3 per cent since 2016.

This chapter brings together information on:

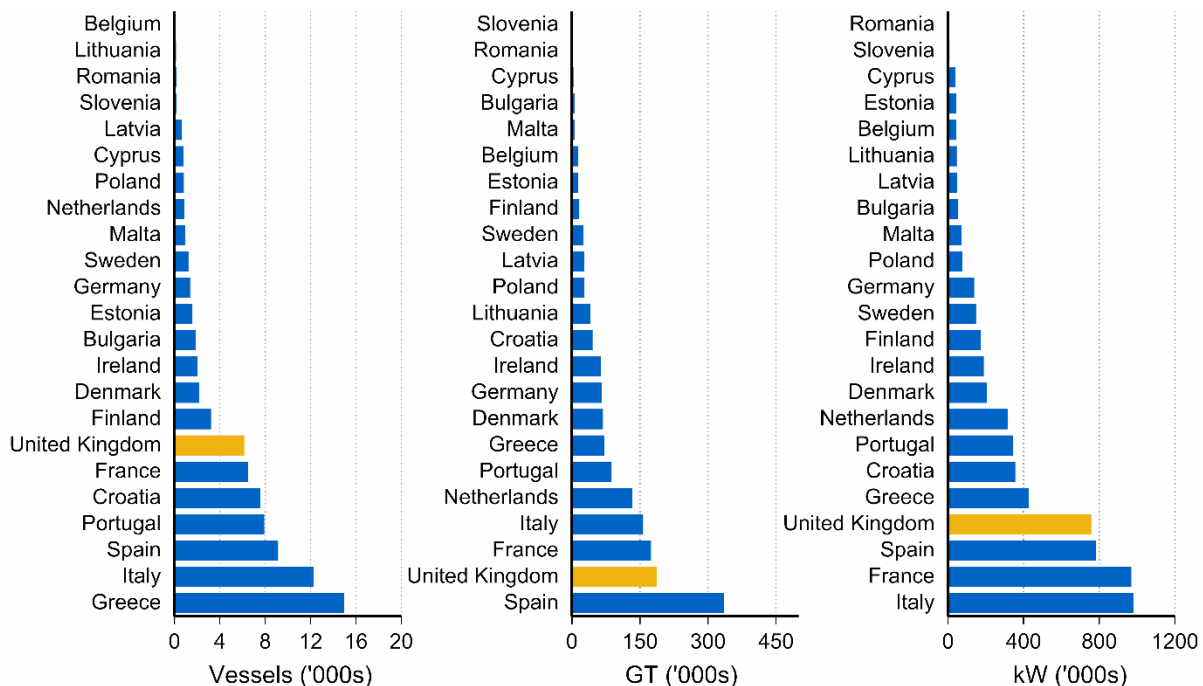
- Size and composition of the UK fishing fleet
- Number of fishermen on UK registered fishing vessels
- Accidents involving fishing vessels and fishermen
- Fishing effort by UK vessels, including coverage of effort in the Cod and Sole Recovery Zones and the Western Waters

All tables presented here are available to download as spreadsheets from the MMO website. Supplementary tables showing more detail can also be found on the website.

The EU fishing fleet

In 2017, the highest number of fishing vessels in the European Union was in Greece (14,977) while the UK was seventh with 6,148 (see Chart 2.1). Spain's capacity (335 thousand GT) is by far the largest, with the UK in second place with 187 thousand GT. The UK has the fourth most powerful fleet (0.76 million kW).

Chart 2.1: Size of the EU fishing fleet by member state: 2017



Note: Data for Chart 2.1 are available for download from the MMO website as supplementary Table 2.12.

The UK fishing fleet

The number of registered UK fishing vessels has fallen by 29 per cent since 1996. Capacity (GT) and power (kW) have decreased by 32 per cent and 28 per cent respectively over the same period (see Table 2.1). As well as an underlying downward trend in the size of the fleet associated with reduced fishing opportunities, UK fisheries administrations have operated decommissioning exercises in 2001-2002, 2003, 2007 and 2008-2009. The decommissioning exercises aimed to withdraw some capacity and effort from UK fisheries to help ensure a sustainable future, and to allow vessel owners to take a business decision on whether to remain in the fishery under the terms of fishery management plans.

TABLE 2.1 Size of the UK fishing fleet: 1996 to 2017^(a)

At year end:

	Number	GT ^(b)	Power
1996	8,667	274,532	1,054,927
1997	8,458	272,421	1,026,542
1998	8,271	270,644	1,006,071
1999	8,039	264,453	978,644
2000	7,818	262,406	980,636
2001	7,721	263,040	1,001,648
2002	7,578	240,898	947,964
2003	7,096	227,449	907,340
2004	7,022	222,529	897,398
2005	6,716	217,617	876,479
2006	6,752	214,181	863,496
2007	6,763	212,816	858,011
2008	6,573	207,423	836,485
2009	6,500	208,025	832,284
2010	6,477	207,424	826,668
2011	6,444	202,048	808,887
2012	6,406	200,697	804,208
2013	6,399	197,283	797,661
2014	6,383	195,121	789,714
2015	6,187	187,371	769,532
2016	6,191	185,734	765,810
2017	6,148	187,014	757,899

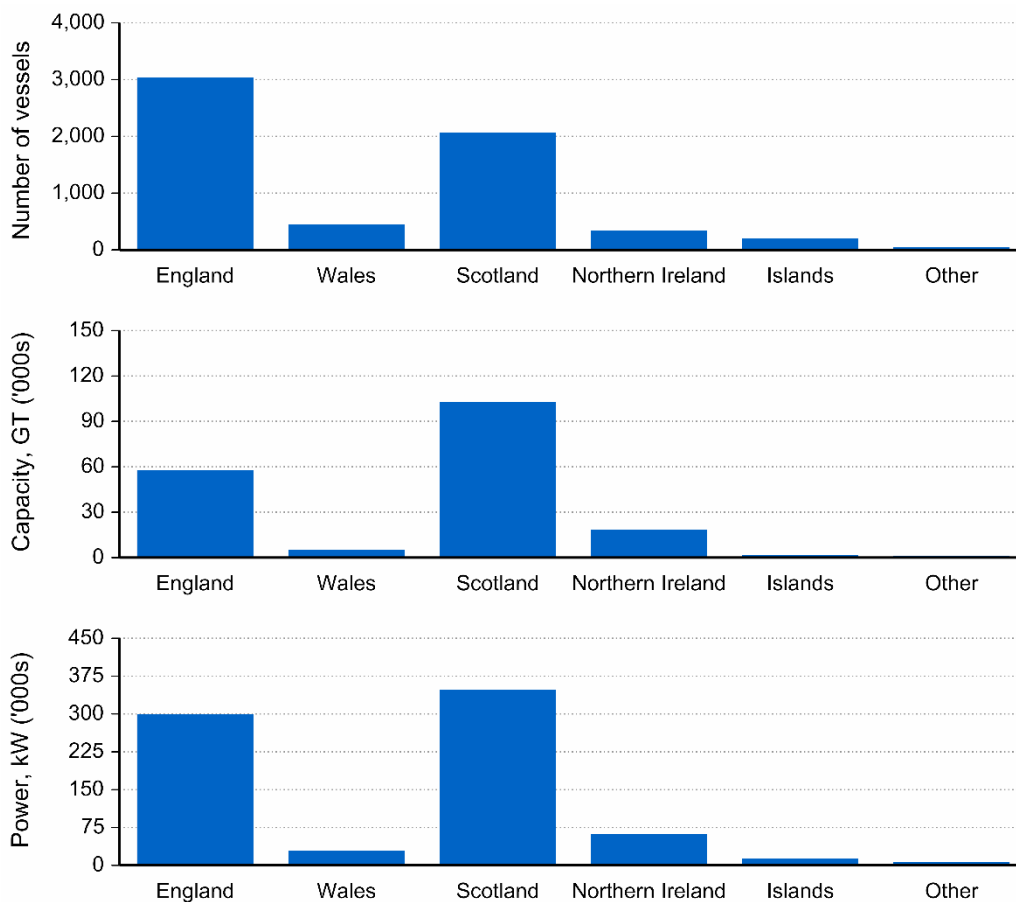
Source: Maritime and Coastguard Agency and Fisheries Administrations in the UK

(a) Includes Channel Islands, the Isle of Man and vessels without an administration port. Excludes mussel dredgers.

(b) The series for GT is on the basis of GT at the end of 2003.

The UK fishing fleet by country

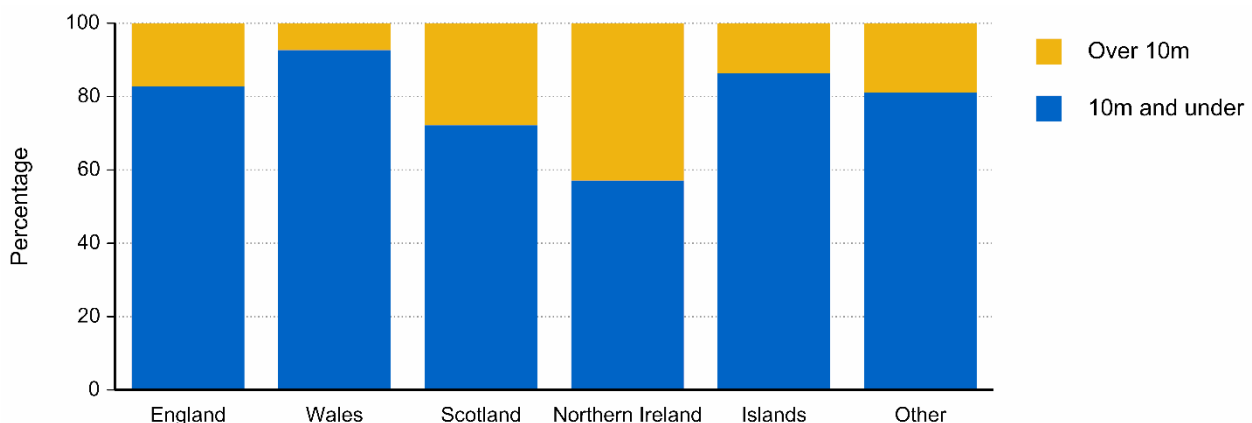
Chart 2.2: Size of the UK fishing fleet by country: 2017



Just under half of all vessels were English. Scottish vessels accounted for 34 per cent of the UK fleet. However, Scotland has the highest share of capacity (GT), 55 per cent, and power (kW), 46 per cent, compared with 31 per cent and 39 per cent respectively in England (see Chart 2.2).

To understand why England has a larger number of vessels than Scotland and yet has a smaller share of capacity and power requires a more detailed analysis of the fleet composition based on vessel length (see Table 2.3). This difference can partly be explained by the higher proportion of vessels of 10 metres and under in length in the English fleet (83 per cent) compared with 72 per cent in Scotland (see Chart 2.3).

Chart 2.3: Percentage of vessels in the 10m and under and over 10m sectors by country: 2017



The overlapping areas of interest of the fleets make it difficult to provide a simple explanation of the differences in fleet structure across the UK. One relevant factor is the different fishing opportunities the fleets are engaged in. Key elements of the Scottish fleet are engaged in several fisheries that are high volume but lower priced, such as herring and mackerel caught in the North Sea and West of Scotland waters. The Scottish fleet has moved towards having higher capacity vessels, which, for economic viability, cover large sea areas and can catch several hundred tonnes of fish per trip.

Compared with this, the English fleet is involved in several key fisheries that are typically lower volume but higher priced, such as the Channel fisheries for sole and plaice. In addition, a greater proportion of the fisheries pursued by the English fleet cover inshore areas. Together these factors have allowed the English fleet to develop with a greater proportion of smaller vessels that are able to be economically viable through catching smaller quantities of more valuable fish. Changes over time in the nature of fishing opportunities available to the different elements of the UK fleet have also been key drivers for the development of the fleet.

Table 2.2 shows the number, capacity (GT) and power (kW) of registered UK fishing vessels by vessel nationality and sector, i.e. over 10 metres and 10 metres and under in length.

TABLE 2.2 Size of the UK fishing fleet, by country of administration: 2014 to 2017^(a)

At year end:

			England	Wales	Scotland	Northern Ireland	Islands ^(b)	Other ^(c)	Total
2014	10m and under vessels	No.	2,573	426	1,458	225	299	45	5,026
		GT	8,869	1,110	6,409	901	744	85	18,119
		kW	144,045	21,644	78,256	12,215	16,896	2,439	275,496
	Over 10m vessels	No.	555	40	590	143	25	4	1,357
		GT	54,435	4,429	101,607	14,483	980	1,068	177,002
		kW	166,159	9,551	282,795	47,451	4,242	4,021	514,219
	Total	No.	3,128	466	2,048	368	324	49	6,383
		GT	63,304	5,539	108,017	15,385	1,724	1,153	195,121
		kW	310,204	31,195	361,052	59,666	21,138	6,459	789,714
2015	10m and under vessels	No.	2,598	412	1,434	201	182	36	4,863
		GT	8,772	1,044	5,198	833	525	100	16,472
		kW	147,874	20,950	78,405	11,285	10,070	2,104	270,688
	Over 10m vessels	No.	541	32	573	148	27	3	1,324
		GT	53,906	4,064	99,082	12,570	1,109	167	170,899
		kW	164,797	8,362	276,471	43,890	4,634	691	498,844
	Total	No.	3,139	444	2,007	349	209	39	6,187
		GT	62,679	5,108	104,280	13,403	1,634	267	187,371
		kW	312,671	29,312	354,876	55,175	14,704	2,794	769,532
2016	10m and under vessels	No.	2,569	419	1,456	202	181	49	4,876
		GT	8,672	1,028	5,284	851	516	129	16,479
		kW	147,745	20,892	80,606	11,513	9,513	2,427	272,696
	Over 10m vessels	No.	529	32	575	149	27	3	1,315
		GT	50,140	4,159	100,112	13,065	1,109	670	169,255
		kW	155,969	8,500	277,306	45,337	4,634	1,368	493,114
	Total	No.	3,098	451	2,031	351	208	52	6,191
		GT	58,813	5,186	105,395	13,916	1,625	799	185,734
		kW	303,714	29,392	357,912	56,850	14,147	3,795	765,810
2017	10m and under vessels	No.	2,512	417	1,493	193	176	43	4,834
		GT	8,594	1,003	5,374	767	501	123	16,362
		kW	146,145	19,998	82,818	10,441	9,011	2,424	270,837
	Over 10m vessels	No.	522	33	576	145	28	10	1,314
		GT	49,067	4,121	97,558	17,566	1,121	1,219	170,652
		kW	152,801	8,737	265,089	51,921	4,811	3,703	487,062
	Total	No.	3,034	450	2,069	338	204	53	6,148
		GT	57,661	5,124	102,933	18,333	1,622	1,342	187,014
		kW	298,946	28,735	347,908	62,362	13,822	6,127	757,899

Source: Maritime and Coastguard Agency and Fisheries Administrations in the UK

(a) Excludes Mussel Dredgers.

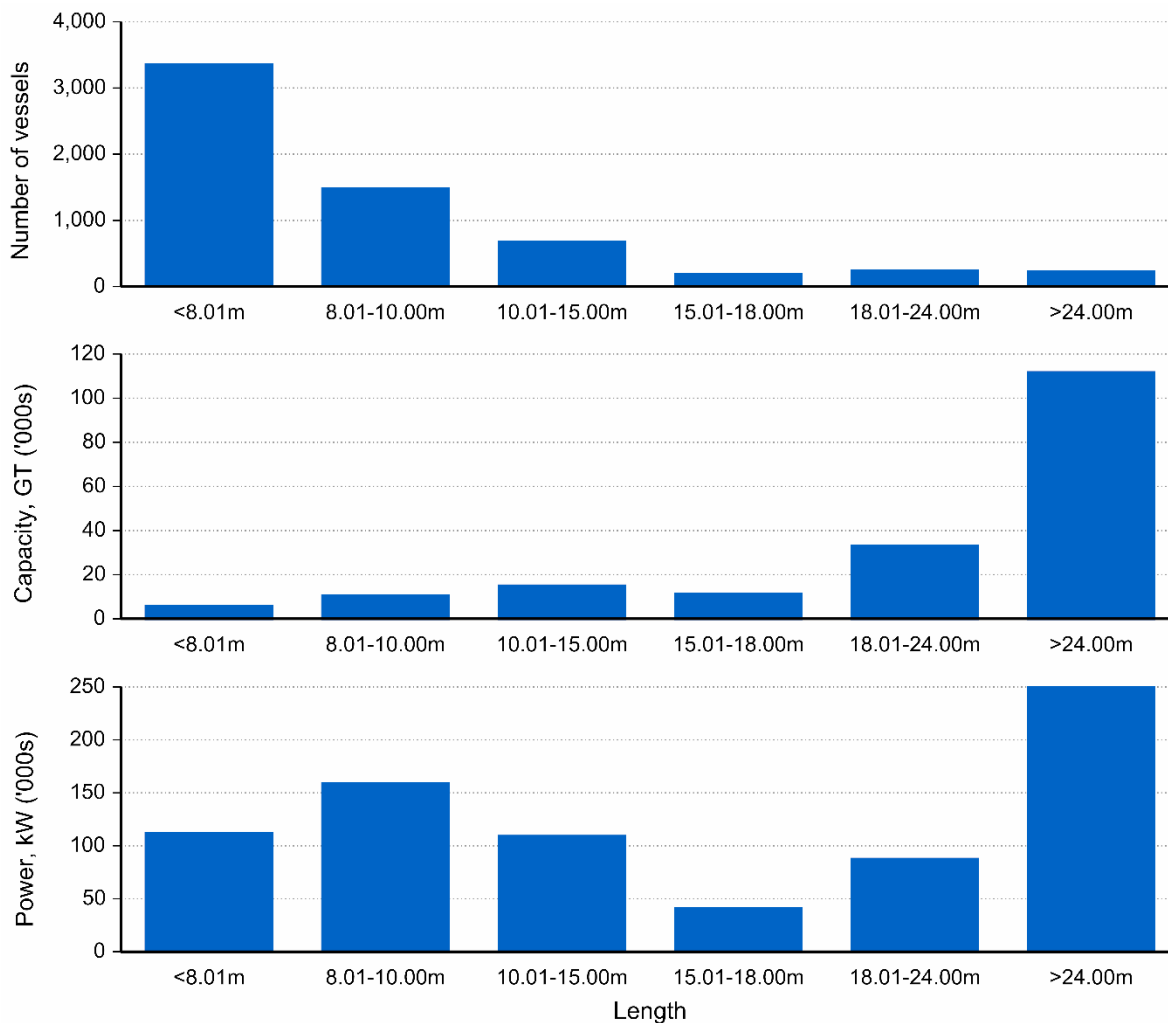
(b) Islands include Guernsey, Jersey and the Isle of Man.

(c) Vessels which are registered but not administered by a port; typically new vessels and vessels changing administrations.

Note: Additional data on the UK fishing fleet are available for download from the MMO website as supplementary Table 2.2a.

The UK fishing fleet by length

Chart 2.4: Size of the UK fishing fleet by length: 2017



Almost four fifths of the UK fleet is made up of vessels of 10 metres and under in length. These vessels account for 9 per cent of the fleet’s capacity and 36 per cent of the fleet’s power. However, vessels over 24 metres in length account for just 4 per cent of the total number but for three fifths of total capacity and a third of total power (see Chart 2.4).

Table 2.3 shows the number, capacity (GT) and power (kW) of registered UK fishing vessels by vessel nationality and vessel length.

Scotland and Northern Ireland have higher proportions of large vessels than England. For example, 17 per cent of the Scottish fleet and 30 per cent of the far smaller - in number - Northern Irish fleet exceed 15 metres in length compared with 5 per cent in England. The capacity of the 356 Scottish vessels over 15 metres in length (6 per cent of all UK vessels) equals the capacity of the rest of the UK fleet combined.

TABLE 2.3 UK fishing fleet by vessel length and country of administration: 2017

At year end:

	Overall length	8.00m and under	8.01 - 10.00m	10.01 - 15.00m	15.01 - 18.00m	18.01 - 24.00m	Over 24.00m	Total
England	Number	1,733	779	364	32	51	75	3,034
	Gross tonnage	2,886	5,708	8,093	1,795	6,234	32,945	57,661
	Engine power	58,949	87,196	61,742	6,719	14,503	69,837	298,946
Wales	Number	329	88	24	3	1	5	450
	Gross tonnage	440	563	1,076	135	97	2,813	5,124
	Engine power	11,516	8,482	3,412	553	221	4,551	28,735
Scotland	Number	995	498	220	108	125	123	2,069
	Gross tonnage	1,890	3,485	4,197	6,943	19,259	67,159	102,933
	Engine power	31,793	51,026	33,700	25,416	50,663	155,310	347,908
Northern Ireland	Number	119	74	44	27	56	18	338
	Gross tonnage	214	553	1,069	1,471	6,324	8,703	18,333
	Engine power	3,142	7,299	6,909	5,182	19,969	19,861	62,362
Islands ^(a)	Number	147	29	16	10	2	-	204
	Gross tonnage	279	222	477	503	140	-	1,622
	Engine power	5,235	3,776	2,459	1,988	365	-	13,822
Other ^(b)	Number	33	10	4	3	3	-	53
	Gross tonnage	50	74	53	316	850	-	1,342
	Engine power	1,181	1,243	771	1,267	1,665	-	6,127
Total	Number	3,356	1,478	672	183	238	221	6,148
	Gross tonnage	5,758	10,604	14,965	11,163	32,904	111,620	187,014
	Engine power	111,816	159,021	108,992	41,125	87,386	249,559	757,899

Source: Maritime and Coastguard Agency and Fisheries Administrations in the UK

(a) Islands include Guernsey, Jersey and the Isle of Man.

(b) Vessels which are registered but not administered by a port; typically new vessels and vessels changing administrations.

Note: Additional data on the UK fishing fleet are available for download from the MMO website as supplementary Table 2.3a.

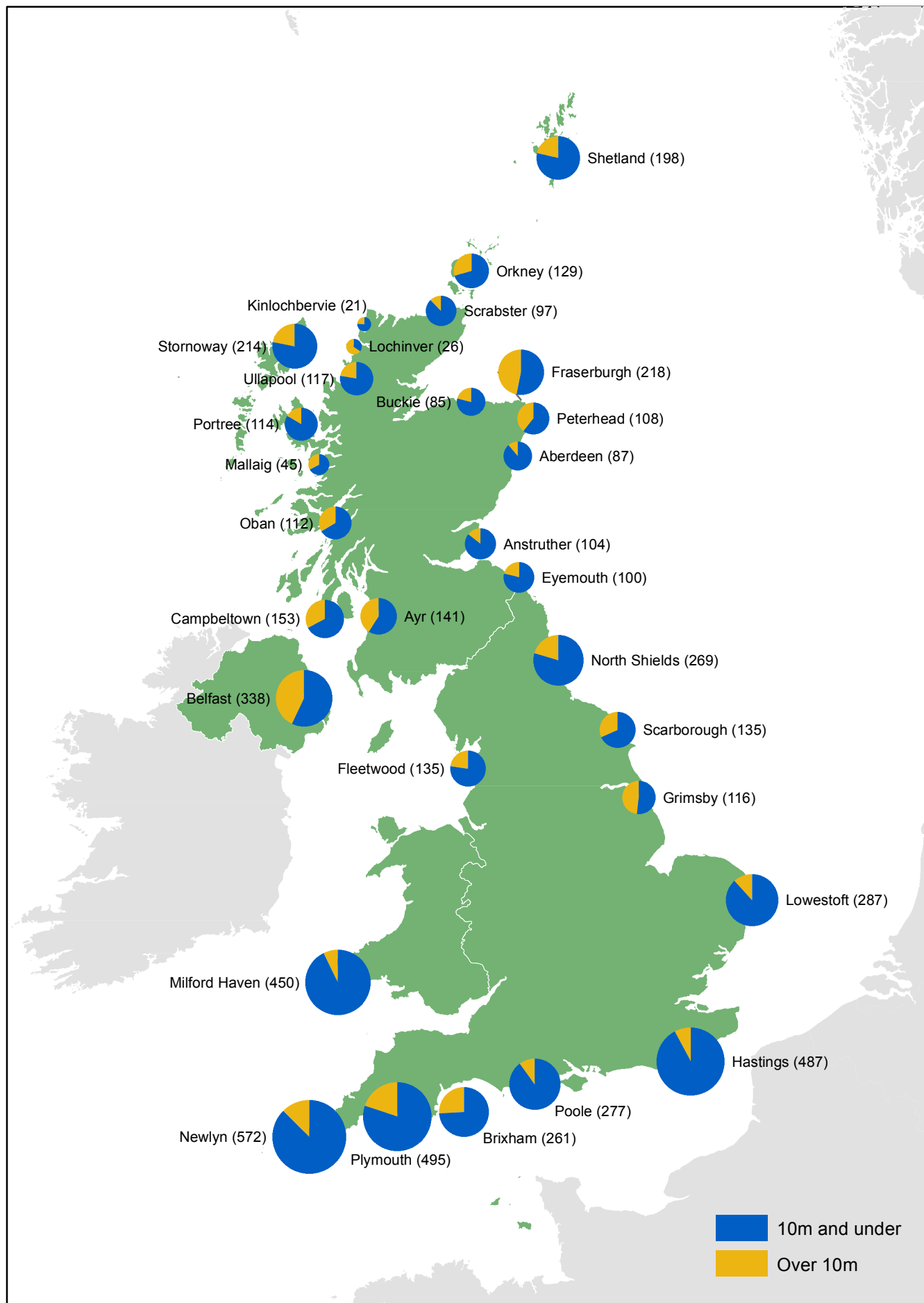
The UK fishing fleet by administration port

Charts 2.5 to 2.7 show the fleet size by number of vessels, capacity (GT) and power (kW) for each administration port in the UK. Each chart shows the relative size of the fleet broken down into the over 10 metres and 10 metres and under sectors.

In 2017:

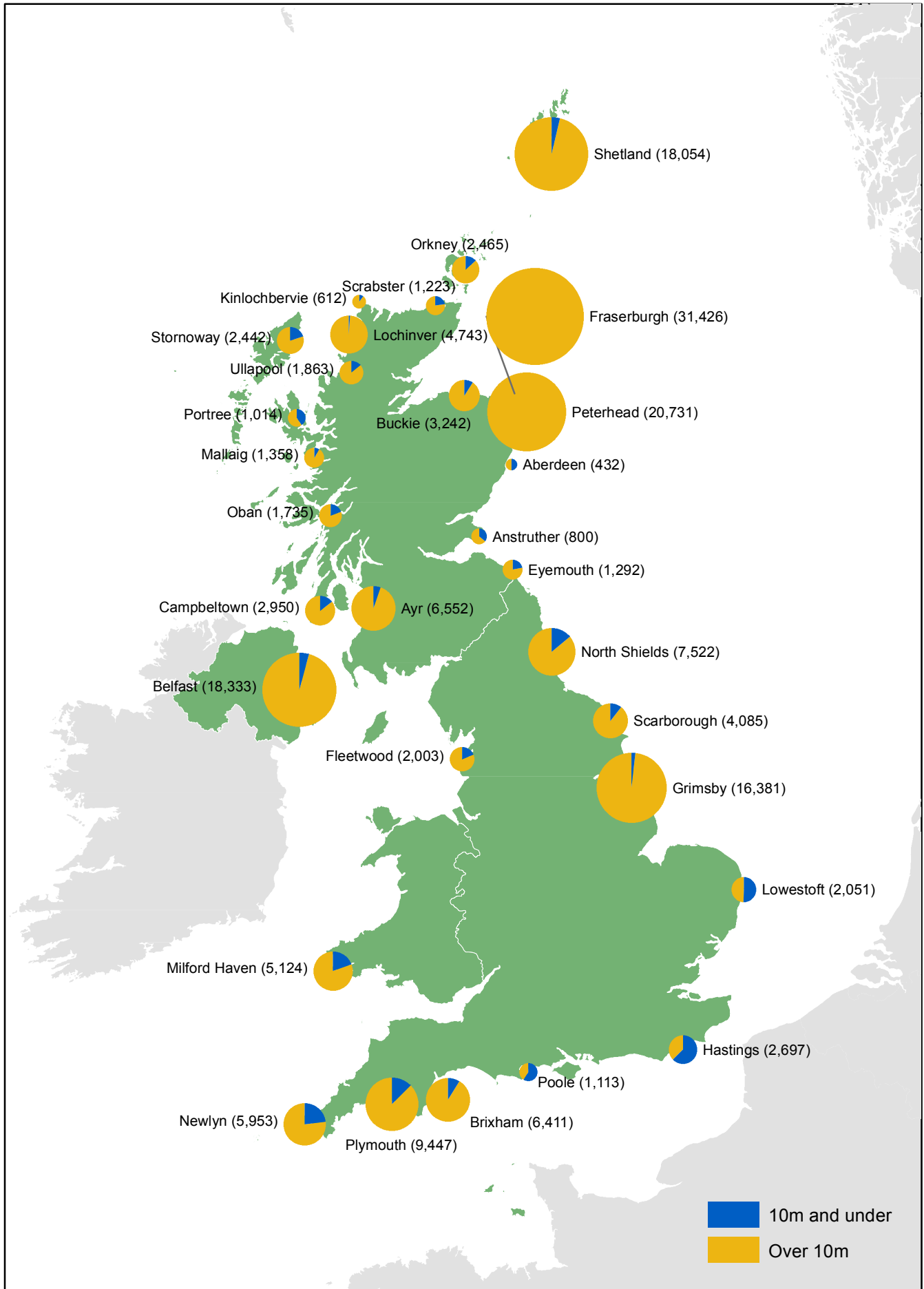
- Newlyn had the largest number (572) of vessels in its administration. 87 per cent of these were of 10 metres and under in length.
- The fleet administered by Fraserburgh had by far the largest capacity (31,426 GT) and power (83,976 kW).
- The largest proportions of 10 metre and under vessels were in Milford Haven (93 per cent) and Hastings (92 per cent). Lochinver had the highest proportion of over 10 metre vessels (65 per cent).

Chart 2.5: Number of vessels by administration port: 2017



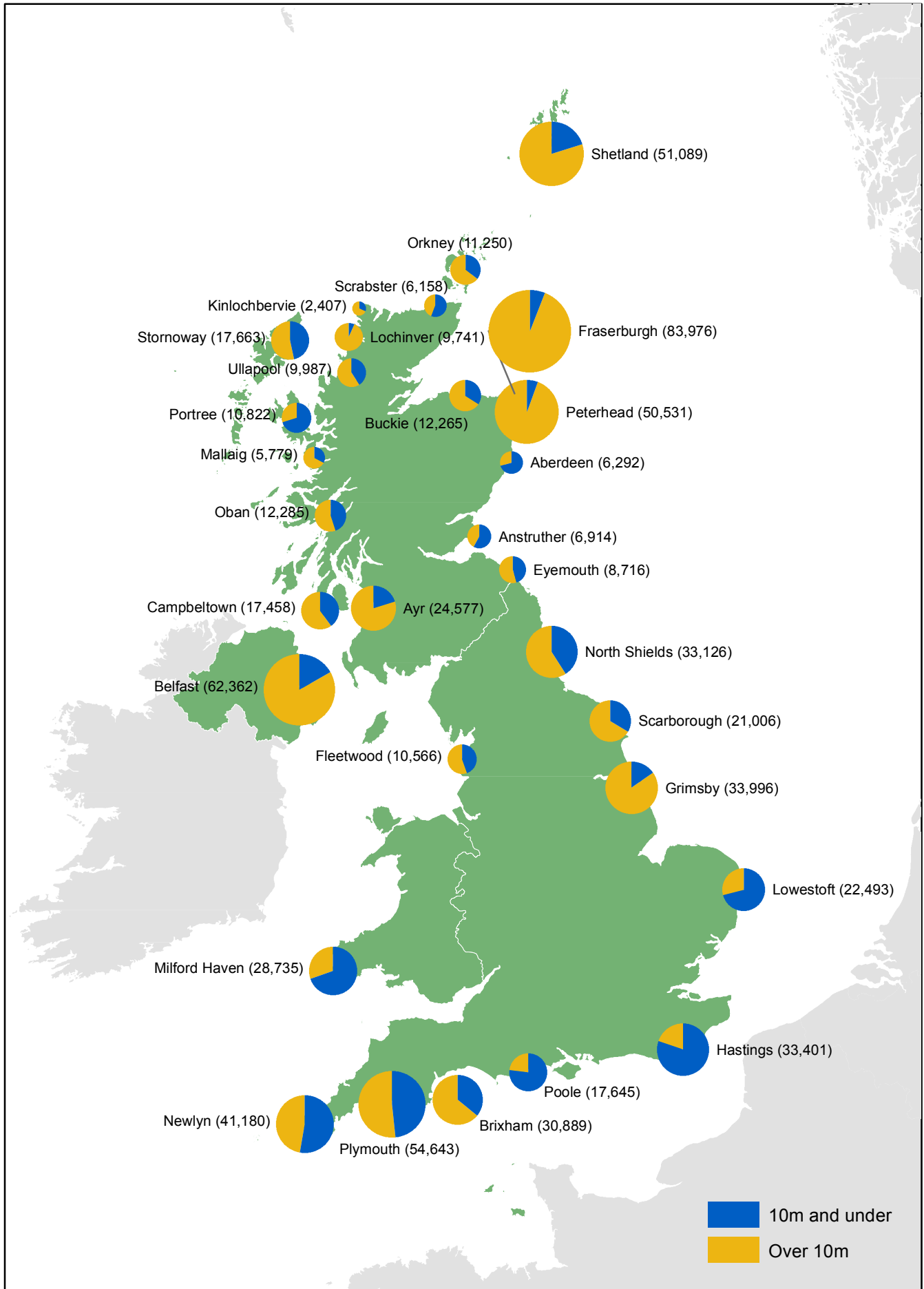
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Chart 2.6: Capacity (GT) of fleet by administration port: 2017



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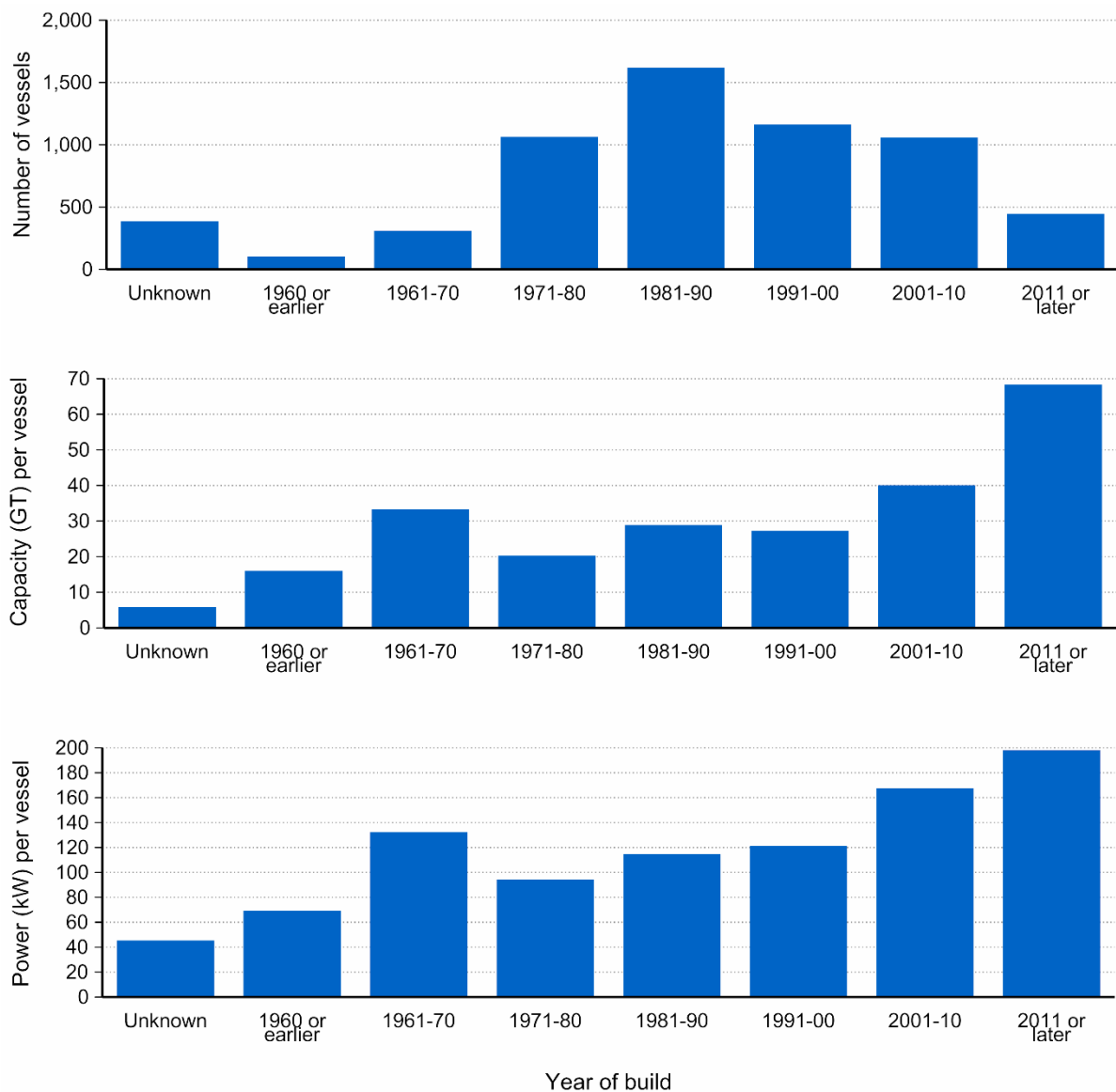
Chart 2.7: Power (kW) of fleet by administration port: 2017



Contains Collins Bartholomew data. © Collins Bartholomew copyright and database right 2017.

The UK fishing fleet by age

Chart 2.8: Size, average capacity and power of the UK fishing fleet by year of construction: 2017



More than half of all vessels in the UK fleet (whose age is known) were built before 1991. While the number of vessels being built since the 1980s has decreased, the average capacity and power of vessels built since 2000 has increased significantly (see Chart 2.8).

Table 2.4 shows a breakdown of the fleet by age in each country within the UK.

TABLE 2.4 Age of UK vessels by country of administration: 2017

		Year of construction								Total
		Unknown	1960 or earlier	1961-1970	1971-1980	1981-1990	1991-2000	2001-2010	2011 or later	
England	Number	165	51	143	519	783	601	557	215	3,034
	Gross tonnage	670	629	4,101	7,526	20,593	7,959	9,463	6,720	57,661
	Engine power (kW)	7,722	3,221	17,547	41,354	82,456	55,740	63,813	27,093	298,946
Wales	Number	50	7	9	56	127	77	82	42	450
	Gross tonnage	174	65	170	277	2,398	441	639	960	5,124
	Engine power (kW)	1,998	235	614	2,818	8,918	4,217	5,766	4,168	28,735
Scotland	Number	128	39	105	368	572	362	337	158	2,069
	Gross tonnage	981	740	3,821	9,697	20,015	20,640	29,418	17,622	102,933
	Engine power (kW)	5,335	2,763	14,240	40,639	77,639	67,562	94,579	45,151	347,908
Northern Ireland	Number	17	4	36	76	83	66	45	11	338
Ireland	Gross tonnage	367	231	1,814	3,635	2,987	2,367	2,141	4,791	18,333
	Engine power (kW)	1,636	960	6,898	12,511	12,626	9,717	8,962	9,054	62,362
	Islands ^(a)	Number	17	3	17	40	44	46	32	5	204
Other ^(b)	Gross tonnage	25	7	422	408	251	273	211	25	1,622
	Engine power (kW)	420	34	1,691	2,744	2,192	3,074	3,166	503	13,822
	Number	9	-	-	4	12	11	4	13	53
Total	Gross tonnage	29	-	-	11	558	19	520	204	1,342
	Engine power (kW)	350	-	-	87	2,162	611	916	2,001	6,127
	Number	386	104	310	1,063	1,621	1,163	1,057	444	6,148
	Gross tonnage	2,247	1,671	10,327	21,554	46,803	31,699	42,392	30,322	187,014
	Engine power (kW)	17,460	7,214	40,990	100,152	185,993	140,921	177,200	87,970	757,899

Source: Maritime and Coastguard Agency and Fisheries Administrations in the UK

(a) Islands include Guernsey, Jersey and the Isle of Man.

(b) Vessels which are registered but not administered by a port; typically new vessels and vessels changing administrations.

Note: Additional data on the UK fishing fleet are available for download from the MMO website as supplementary Tables 2.4a, 2.4b and 2.4c.

Membership of Fish Producer Organisations

On 1 January 2017, 36 per cent of vessels over 10 metres in length were not members of a Fish Producer Organisation (FPO), i.e. they were members of the over 10 metre or Isle of Man non-sectors. The Scottish FPO had the highest membership (174 vessels), followed by Northern Ireland FPO (132 vessels).

TABLE 2.5 Fish Producer Organisation (FPO) membership^(a): 2016 to 2017

Membership as at 1 January for each year

	2016 ^(b)		2017 ^(b)	
	Vessels in membership	Members as a % of total	Vessels in membership	Members as a % of total
Scottish FPO Ltd	169	13%	174	13%
Northern Ireland FPO Ltd	124	9%	132	10%
Cornish FPO Ltd	93	7%	92	7%
South Western FPO Ltd	87	7%	89	6%
Anglo Northern Irish FPO Ltd	36	3%	47	3%
Anglo Scottish FPO Ltd	34	3%	40	3%
West of Scotland FPO Ltd	31	2%	39	3%
Fife FPO Ltd	30	2%	36	3%
Shetland FPO Ltd	37	3%	35	3%
Eastern England FPO Ltd	29	2%	31	2%
North East of Scotland FO Ltd	24	2%	24	2%
Northern Producers Organisation Ltd	23	2%	24	2%
Aberdeen FPO	15	1%	23	2%
Isle of Man Non-Sector	20	2%	22	2%
Fleetwood FPO Ltd	20	2%	19	1%
North Sea FPO Ltd	14	1%	14	1%
Orkney FPO Ltd	13	1%	13	1%
Interfish	11	1%	11	1%
The FPO Ltd	9	1%	10	1%
Wales and West Coast FPO Ltd	6	0%	6	0%
Lunar Group	4	0%	5	0%
Lowestoft FPO Ltd	6	0%	4	0%
Klondyke	3	0%	3	0%
North Atlantic FPO Ltd	1	0%	2	0%
Non-sector vessels ^(c)	476	36%	479	35%
Total	1,315	100%	1,374	100%

Source: Fisheries Administrations in the UK

(a) Vessels over 10 metres only. Excludes vessels 10 metres and under in FPO membership.

(b) Includes some Channel Islands and Isle of Man vessels.

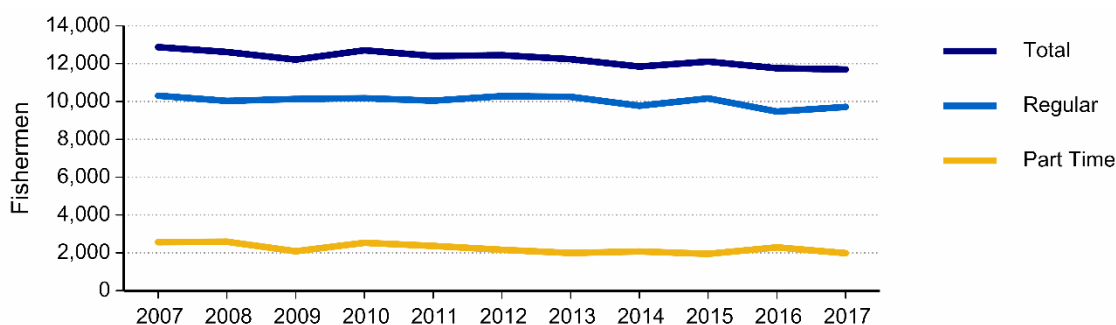
(c) Over 10m vessels not in FPO membership.

Number of fishermen

Statistics on the number of fishermen are drawn from surveys carried out by the Marine Management Organisation in England, the Welsh Assembly Government, the Department of Agriculture, Environment and Rural Affairs in Northern Ireland and Marine Scotland. Details of the survey methodology are provided in Appendix 4.

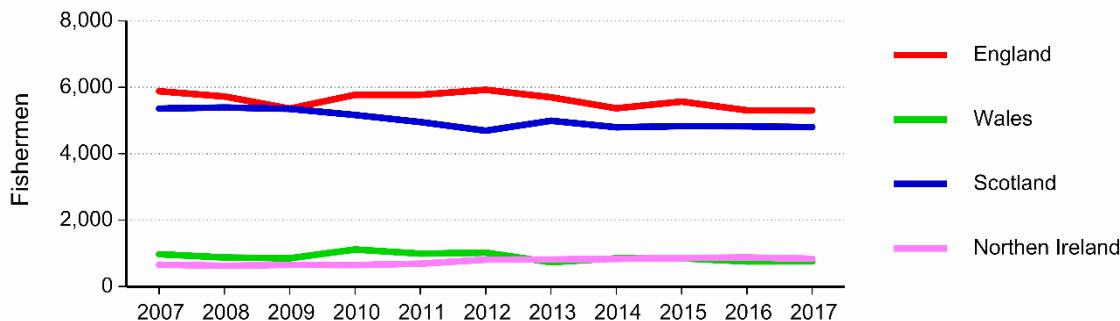
The number of fishermen on UK registered vessels has decreased by 9 per cent since 2007 from 12,871 to 11,692 in 2017. The number of regular fishermen has decreased by 6 per cent and the number of part-time fishermen has decreased by 23 per cent over this period (see Chart 2.9). The decrease in fishermen numbers may be associated with reductions in fleet size as well as decreased fishing opportunities.

Chart 2.9: Number of fishermen on UK registered vessels: 2007 to 2017



Since 2007, the numbers of fishermen on English and Scottish administered vessels have both decreased by 10 per cent. In Northern Ireland, fishermen numbers increased by 27 per cent but fell by 22 per cent in Wales (see Chart 2.10).

Chart 2.10: Number of fishermen by country of administration: 2007 to 2017



Over the last twenty years, the proportion of part-time fishermen has fluctuated between 16 and 22 per cent. In 2017, they accounted for 17 per cent of all fishermen. Forty two per cent of fishermen on vessels administered in Wales were part-time compared with 12 per cent for vessels administered in England, 18 per cent in each of Scotland and Northern Ireland (see Chart 2.11).

Chart 2.11: Number of regular and part-time fishermen by country of administration: 2017

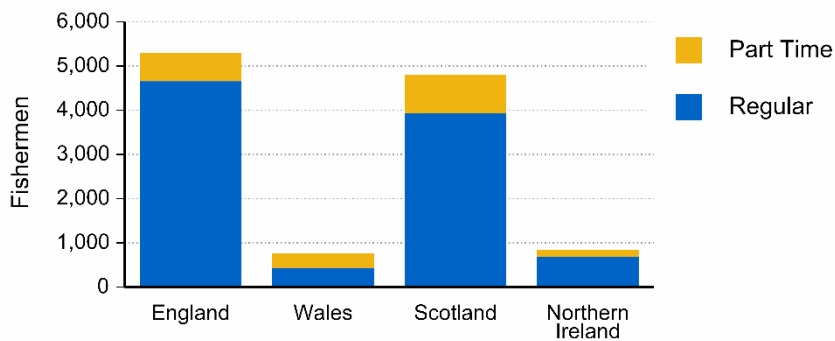


Table 2.6 shows a breakdown of the number of regular and part-time fishermen by country in the UK from 1938 to 2017. Since 1938:

- The number of fishermen on UK registered vessels has decreased by 76 per cent.
- The proportion of fishermen in each country of administration hasn't changed dramatically. In 1938 fishermen numbers in England and Wales represented 61 per cent of the UK total, while Scotland represented 37 per cent. In 2017, the proportions were 52 per cent and 41 per cent respectively.

TABLE 2.6 Number of UK fishermen: 1938 to 2017

	ENGLAND & WALES ^{(a)(b)}			SCOTLAND			NORTHERN IRELAND			UNITED KINGDOM		
	Regular	Part-time	Total	Regular	Part-time	Total	Regular	Part-time	Total	Regular	Part-time	Total
1938	26,062	2,949	29,011	12,976	4,939	17,915	342	556	898	39,380	8,444	47,824
1948	25,946	3,373	29,319	12,080	5,148	17,228	800	300	1,100	38,826	8,821	47,647
1960	12,712	3,646	16,358	8,795	2,451	11,246	500	150	650	22,007	6,247	28,254
1965	11,064	4,045	15,109	8,057	2,088	10,145	480	140	620	19,601	6,273	25,874
1970	9,424	2,382	11,806	7,656	1,441	9,097	400	140	540	17,480	3,963	21,443
1975	9,016	3,447	12,463	7,507	1,341	8,848	538	285	823	17,061	5,073	22,134
1980	8,455	5,135	13,590	7,561	1,138	8,699	780	240	1,020	16,796	6,513	23,309
1981	8,450	5,992	14,442	7,376	1,085	8,461	775	312	1,087	16,601	7,389	23,990
1982	8,258	5,465	13,723	7,247	937	8,184	841	263	1,104	16,346	6,665	23,011
1983	8,022	5,355	13,377	7,173	902	8,075	811	324	1,135	16,006	6,581	22,587
1984	8,142	4,571	12,713	7,198	899	8,097	764	295	1,059	16,104	5,765	21,869
1985	7,984	5,036	13,020	7,170	932	8,102	808	294	1,102	15,962	6,262	22,224
1986	8,801	4,461	13,262	7,244	992	8,236	861	275	1,136	16,906	5,728	22,634
1987 ^(c)	8,737	4,027	12,764	7,522	970	8,492	894	274	1,168	17,153	5,271	22,424
1988	8,467	4,039	12,506	7,672	891	8,563	956	295	1,251	17,095	5,225	22,320
1989	nd	nd	nd	7,862	803	8,665	950	283	1,233	nd	nd	nd
1990	nd	nd	nd	7,550	766	8,316	1,050	316	1,366	nd	nd	nd
1991	nd	nd	nd	7,303	792	8,095	1,081	288	1,369	nd	nd	nd
1992	nd	nd	nd	7,181	865	8,046	1,036	296	1,332	nd	nd	nd
1993 ^(d)	nd	nd	nd	7,675	1,347	9,022	957	272	1,229	nd	nd	nd
1994	7,542	3,425	10,967	7,160	1,410	8,570	938	228	1,166	15,640	5,063	20,703
1995	8,240	2,192	10,432	6,889	1,506	8,395	933	226	1,159	16,062	3,924	19,986
1996	7,867	2,130	9,997	6,689	1,395	8,084	815	148	963	15,371	3,673	19,044
1997	7,253	2,176	9,429	6,729	1,465	8,194	850	131	981	14,832	3,772	18,604
1998	7,149	1,962	9,111	6,395	1,376	7,771	892	115	1,007	14,436	3,453	17,889
1999	6,977	1,654	8,631	6,042	1,288	7,330	845	90	935	13,864	3,032	16,896
2000	6,193	1,868	8,061	5,594	1,308	6,902	612	74	686	12,399	3,250	15,649
2001	6,279	1,483	7,762	5,353	1,284	6,637	513	46	559	12,145	2,813	14,958
2002	6,505	1,382	7,887	4,369	1,338	5,707	568	43	611	11,442	2,763	14,205
2003	5,778	1,570	7,348	3,968	1,308	5,276	458	40	498	10,204	2,918	13,122
2004	6,364	1,195	7,559	4,124	1,151	5,275	535	84	619	11,023	2,430	13,453
2005	6,026	1,081	7,107	3,952	1,203	5,155	514	55	569	10,492	2,339	12,831
2006	5,702	1,414	7,116	4,109	1,096	5,205	547	66	613	10,358	2,576	12,934
2007	5,340	1,514	6,854	4,408	951	5,359	557	101	658	10,305	2,566	12,871
2008	4,911	1,686	6,597	4,585	807	5,392	532	93	625	10,028	2,586	12,614
2009	5,185	1,024	6,209	4,403	946	5,349	541	113	654	10,129	2,083	12,212
2010 ^(e)	5,380	1,509	6,889	4,257	909	5,166	535	113	648	10,172	2,531	12,703
2011	5,386	1,378	6,764	4,076	877	4,953	578	110	688	10,040	2,365	12,405
2012 ^(f)	5,877	1,067	6,944	3,752	941	4,693	654	154	808	10,283	2,162	12,445
2013 ^(g)	5,478	951	6,429	4,092	900	4,992	675	139	814	10,245	1,990	12,235
2014	5,109	1,108	6,217	3,980	816	4,796	683	149	832	9,772	2,073	11,845
2015	5,469	951	6,420	3,985	843	4,828	708	151	859	10,162	1,945	12,107
2016	4,934	1,125	6,059	3,834	989	4,823	700	175	875	9,468	2,289	11,757
2017	5,092	963	6,055	3,932	867	4,799	686	152	838	9,710	1,982	11,692

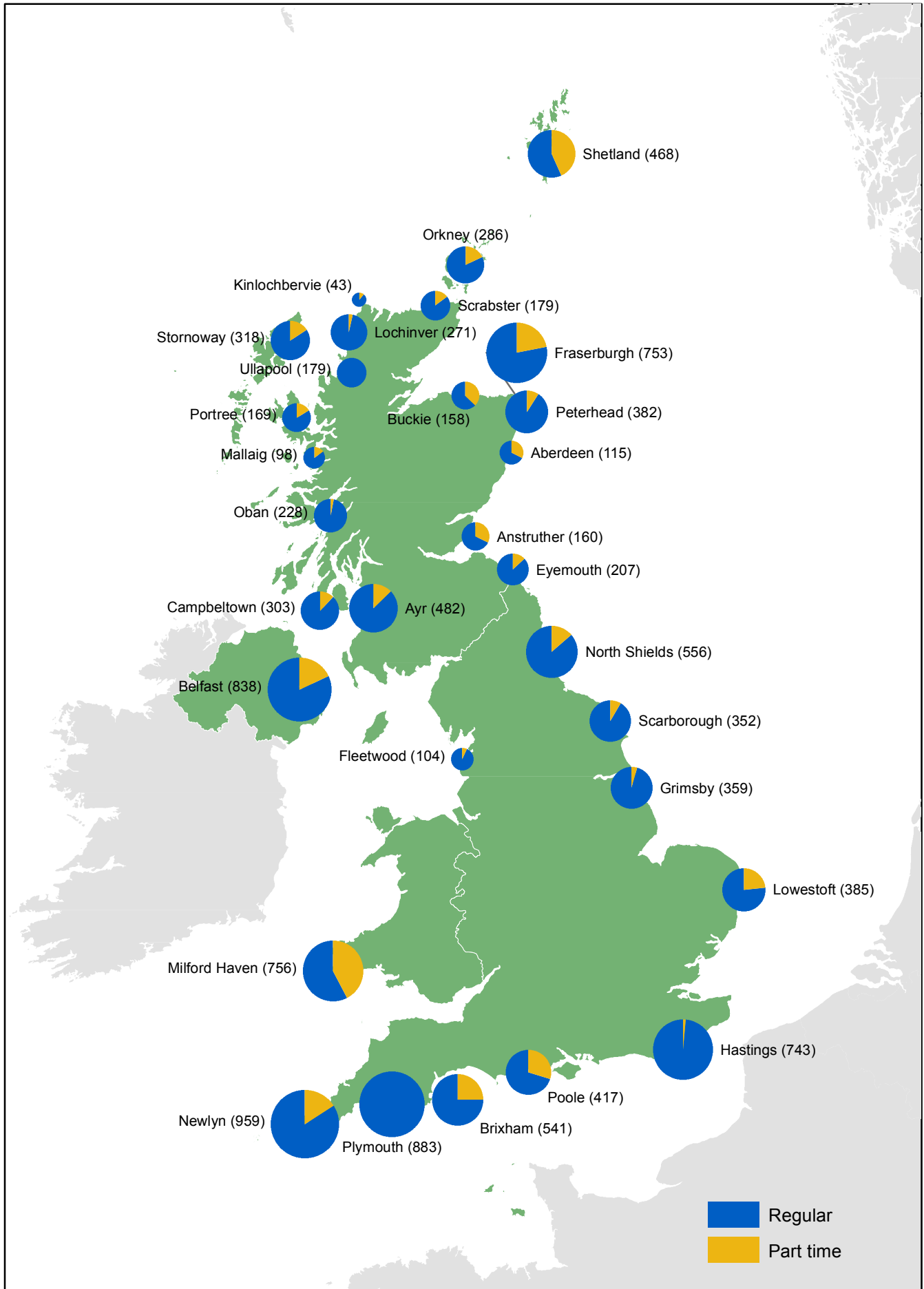
- (a) Prior to 1952 figures were based on information supplied by the Registrar General of Shipping and Seamen. Since 1952 figures have been supplied by the District Fishery Officers of Defra and now the MMO.
- (b) From 1966 these figures exclude 'hobby' fishermen, that is, fishermen who do not fish commercially. The corresponding figures for Scotland and Northern Ireland have never included 'hobby' fishermen.
- (c) Includes 1986 figures for Newlyn and Plymouth.
- (d) The apparent increase in fishermen in Scotland reflected the licensing of 10m and under vessels when more information became available on the numbers of such active vessels.
- (e) From 2010, revised guidance was issued to ports in England and Wales on the classification of regular and part-time fishermen leading to improved recording of fishermen numbers.
- (f) Between 2011 and 2012 there was an increase in the number of fishermen in Northern Ireland due to the figures for two areas now including local coastal activity (mainly pot fishing).
- (g) Amendments to fishermen numbers for England, which are reflected in England & Wales and UK figures.

Note: Additional data on UK fishermen are available for download from the MMO website as supplementary Tables 2.6a and 2.6b.

Chart 2.12 shows the total number of fishermen for each administration port in the UK. In 2017:

- Newlyn is the administration port with the largest number of fishermen in the UK (959).
- The largest number of part-time fishermen is found on vessels administered by Milford Haven (321).
- Fraserburgh has the largest number of fishermen in Scotland (753).
- Ports with higher numbers of vessels tend to have higher numbers of fishermen (see Chart 2.5).
- Ports with greater total vessel power tend to have a higher number of fishermen (Chart 2.7).

Chart 2.12: Fishermen numbers by administration port: 2017



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Accidents, lost vessels and fatalities

Figures on accidents involving fishing vessels and fishermen are provided by the Marine Accident Investigation Branch, part of the Department for Transport (see Table 2.7).

TABLE 2.7 Number of accidents, lost vessels and fatalities involving UK fishing vessels: 2007 to 2017

Accident type	2007	2008	2009 ^(a)	2010	2011	2012	2013	2014	2015	2016	2017
Capsize/Listing	2	2	2	6	7	5	3	3	2	-	2
Collision	18	17	10	15	11	16	12	14	14	10	14
Contact	4	2	6	4	4	4	3	3	1	4	2
Fire/Explosion	9	11	7	10	15	11	5	1	2	2	3
Flooding/Foundering	33	34	31	25	26	23	22	15	6	18	10
Grounding	24	28	26	16	25	21	23	13	19	15	10
Heavy Weather Damage	5	-	3	1	1	1	-	-	-	-	-
Machinery Failure ^(b)	213	156	140	184	195	174	180	104	69	114	105
Missing Vessel	-	-	-	-	-	-	-	-	1	-	-
Person Overboard	8	7	13	9	15	5	8	4	3	7	5
Other	1	-	-	2	-	-	-	-	1	-	-
Total accidents	317	257	238	272	299	260	256	157	118	170	151
Vessel losses	21	21	15	14	24	9	18	12	13	8	6
Injuries	64	60	75	45	58	50	33	46	35	40	32
Fatalities^(c)	8	8	13	5	8	6	4	8	7	9	5

Source: Marine Accident Investigation Branch

Note: The data in this table are official statistics but are not subject to National Statistics accreditation.

(a) From 2009 these figures include workers on board vessels who are not crew members.

(b) For the Marine Accident Investigation Branch Annual Report 2013 accidents by machinery failure are now separated into two categories, Damage to ship and equipment or Loss of control. Further details can be found on their website (www.maib.gov.uk).

(c) Number of crew deaths on UK registered fishing vessels.

UK over 10m fishing fleet effort

The effort data table relating to activity in the Western Waters (WW) Regime contained within this publication was updated in 2013 to incorporate more information on effort limits and percentage uptake. Table 2.10 now includes information on other Member States for comparative purposes. This approach reflects that of the quota table (Table 3.12) in Chapter 3. The data shown in the tables, unless indicated otherwise, reflect the data held on the Commission's database (FIDES). Table 2.8 relating to activity in the Sole Recovery Zone (SRZ) has retained the same format as these data are not submitted to the European Commission on an annual basis like other effort schemes, and instead are requested by the Commission on an ad hoc basis in line with their requirements. This means that comparable data for other Member States related to the sole recovery regime are not available.

Since 2002, fishing effort (in kW days) by the over 10 metre fleet has decreased by 39 per cent. (Chart 2.13). This reduction is primarily due to a decline in effort in the demersal trawl and seine segment of 46 per cent (Chart 2.14). The beam trawl segment, which has relatively lower levels of effort, fell by 59 per cent. Falls in effort over this period were recorded for all other gear types except those using dredges, hooks, pots and traps and the rarely used purse seine.

This reduction in effort in the demersal trawl and seine segment was largely due to decommissioning exercises carried out by UK fisheries administrations in 2001-2002 and 2003. The latter focussed on removing fleet capacity targeting cod in the Cod Recovery Zone (a combination of North Sea, West of Scotland and Irish Sea fishing areas), and was particularly focussed on vessels that used demersal trawls fishing for whitefish. A further exercise was carried out to remove excess beam trawl fishing capacity in the Western Channel fishing area (ICES division VIIe), as part of the recovery regime for sole. This removed 8 active vessels in this area.

More information on the control of fishing effort under the cod and sole recovery regimes, and in the Western Waters, is given below.

Chart 2.13: UK fishing fleet effort in kW days at sea: 2002 to 2017

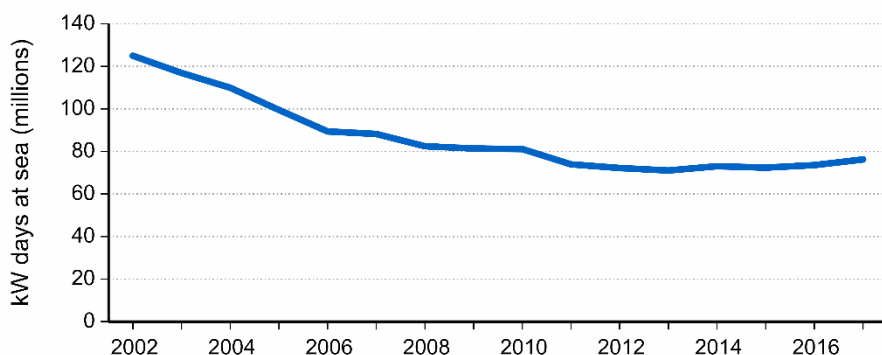
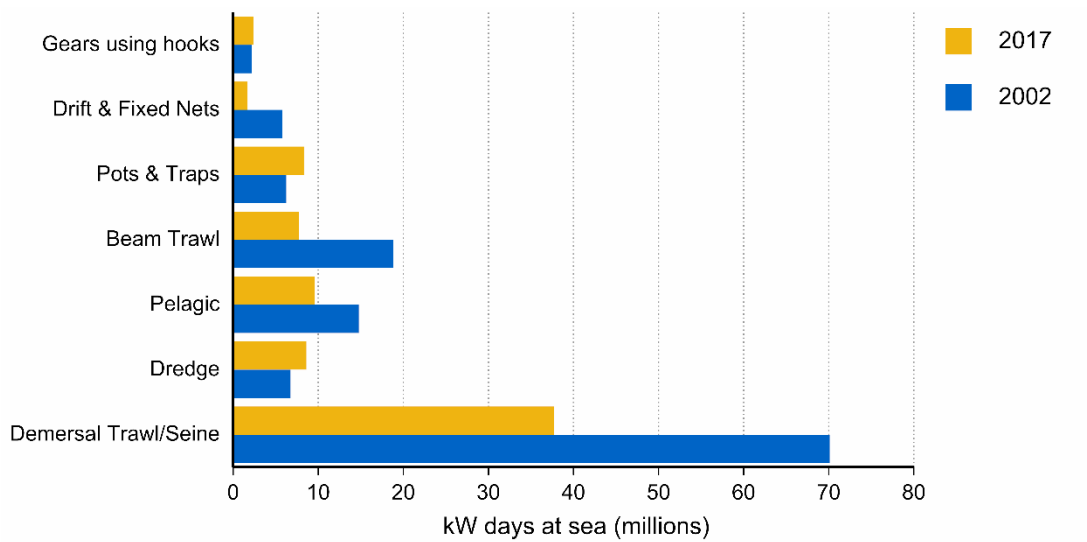


Chart 2.14: UK fishing fleet effort in kW days at sea by gear type: 2002 and 2017



Note: Data for Charts 2.13 and 2.14 are available for download from the MMO website as supplementary Table 2.11.

Effort of vessels fishing in the Sole Recovery Zone (SRZ)

As part of the measures for recovery of sole stocks, a Sole Recovery Zone was established from February 2004 to apply effort controls to vessels of 10 metres or over using certain gears in the Western Channel (ICES division VIIe). The regimes which applied in 2010 are described in Annex IIC of Council Regulations (EC) Nos 43/2009 and 53/2010.

Limits apply on the number of days spent at sea by vessels fishing with beam trawls of mesh size greater than or equal to 80mm and by vessels using static nets (including gill nets, trammel nets and tangle nets) with mesh size less than 220mm. The Marine Management Organisation controls effort in the Western Channel by allocating days for fishing with these gears to eligible vessels.

Table 2.8 shows the number of vessels fishing with regulated beam trawls in the Western Channel and the effort exerted.

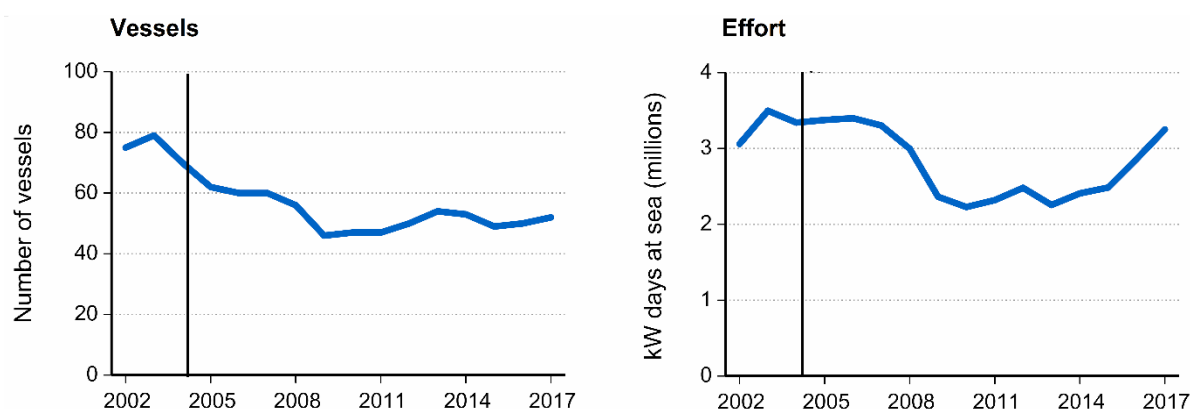
Table 2.8 Beam Trawl activity in the Sole Recovery Zone: 2002 to 2017

Year	Vessels	Days at sea	kW days
2002	75	6,474	3,059,302
2003	79	7,205	3,497,479
2004	70	6,285	3,341,233
2005	62	6,309	3,375,415
2006	60	6,224	3,398,988
2007	60	6,665	3,302,943
2008	56	6,319	2,997,036
2009	46	4,963	2,363,694
2010	47	5,071	2,227,990
2011	47	5,685	2,318,843
2012	50	6,652	2,480,724
2013	54	6,121	2,255,310
2014	52 ^R	6,116	2,407,901
2015	49	6,246	2,485,062
2016	50	6,786	2,859,242
2017	52	7,545	3,250,485

Source: Fisheries Administrations in the UK

From 2002 to 2004 the number of vessels beam trawling in the Western Channel decreased by 7 per cent; however, fishing effort (kW days) increased by 9 per cent. Since the implementation of the SRZ, the number of vessels beam trawling in the Western Channel fell dramatically, as did effort. Reasons for this may include the effect of decommissioning schemes as well as reduced fishing opportunities owing to effort and quota controls. However, the number of vessels and effort has increased in recent years (Chart 2.15).

Chart 2.15: Fleet size and effort (kW days) of vessels using beam trawls in the Sole Recovery Zone: 2002 to 2017



Note: The Sole Recovery Regime was established in 2004.

Effort of vessels fishing in the Cod Recovery Zone (CRZ)

As part of the measures for recovery of cod stocks, a Cod Recovery Zone was established from February 2003 to apply effort controls to vessels of 10 metres or over using specified gears in the North Sea and West of Scotland. The regime was extended in 2004 to include the Irish Sea (ICES division VIIa) and the Eastern Channel (ICES division VIId). The effort controls of the CRZ were repealed in November 2016 by EU Parliament and Council regulation No 2016/2094. Under this amended regulation an individual vessel's effort with regulated gears is unlimited but the combined engine power capacity of the fleet is capped at 2006 or 2007 levels in each of the four management areas.

The regime in operation during 2016 (before repeal) was established by Council Regulation (EC) No 1342/2008. The CRZ included four sea areas: Kattegat, Irish Sea (ICES division VIIa), North Sea (ICES division IIIa excluding Kattegat; ICES sub-area IV; EU waters of ICES division IIa; ICES division VIId) and West of Scotland (ICES division VIa and EU waters of ICES division Vb). Nine regulated gears were defined in the CRZ regulations, identified as causing significant cod mortality. Up to repeal UK Fisheries Administrations operated schemes to limit the number of days spent fishing with these gears in each sea area. Effort was allocated to each gear type in each area based on the member state's historic track record in that gear/area combination.

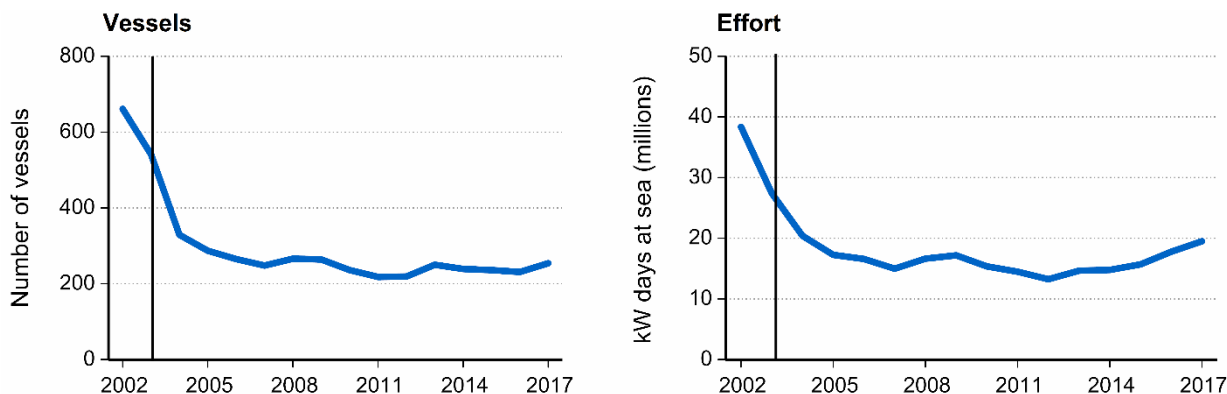
Surplus effort for one gear type was transferable to other gear groups in the same CRZ area. Transfers of effort between CRZ areas were prohibited. Any inter-gear transfers of effort required an adjustment to account for the differences in the levels of cod mortality between the gears in question. The TR1 and TR2 gear groups were merged into a single group in the North Sea under Implementing Regulation No 2324/2015 in 2015. This merger removed the cod mortality adjustments previously required to transfer surplus TR2 effort to TR1. This merger increased available TR1 effort, as TR2 effort was consistently underutilised when compared with TR1 effort. The overall trends for these important gear groups are discussed below.

Gear type TR1

Gear type TR1 includes bottom trawls, Danish seines and similar towed gear, excluding beam trawls, of mesh size greater than or equal to 100 mm. Gears of this type are typically used to target whitefish, including cod.

From 2002 to the end of 2003 the number of vessels fishing in the CRZ using gear type TR1 fell by 18 per cent (Chart 2.16). Over the same period, effort (kW days) decreased by 29 per cent, in part due to decommissioning schemes targeting the demersal fleet. Since the implementation of the CRZ, the number of vessels using gear type TR1 has decreased by 53 per cent and effort (kW days) by 29 per cent.

Chart 2.16: Fleet size and effort (kW days) of vessels using gear type TR1 in the Cod Recovery Zone: 2002 to 2017



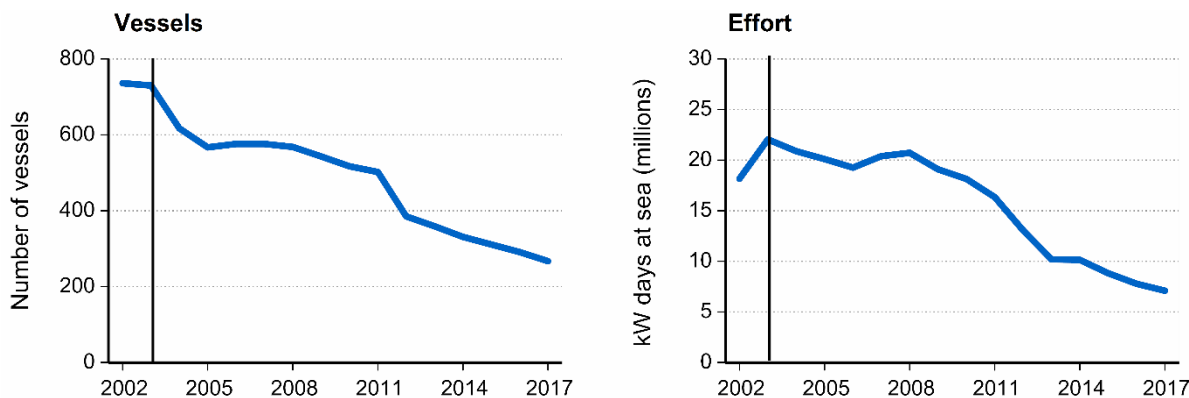
Note: The Cod Recovery Regime was established in 2003, initially limited to the North Sea and West of Scotland, but was expanded in 2004 to include the Irish Sea (ICES division VIIa) and the Eastern Channel (ICES division VIId).

Gear type TR2

Gear type TR2 includes bottom trawls, Danish seines and similar towed gear, excluding beam trawls, of mesh size greater than or equal to 70 mm and less than 100 mm. Gears of this type are typically used to target langoustines (*nephrops*), but may also catch significant amounts of cod.

From 2002 to the end of 2003 the number of vessels fishing in the CRZ using gear type TR2 decreased by 1 per cent while effort (kW days) increased by 21 per cent. Since the implementation of the CRZ, the number of vessels using gear type TR2 has decreased by 63 per cent and effort (kW days) decreased by 68 per cent (Chart 2.17).

Chart 2.17: Fleet size and effort (kW days) of vessels using gear type TR2 in the Cod Recovery Zone: 2002 to 2017



Note: The Cod Recovery Regime was established in 2003, initially limited to the North Sea and West of Scotland, but was expanded in 2004 to include the Irish Sea (ICES division VIIa) and the Eastern Channel (ICES division VIId).

Table 2.9 Effort of UK 10m and over vessels fishing in the Cod Recovery Zone: 2017

Gear	kW days			
	Irish Sea <i>VIIa</i>	North Sea <i>IIa, IV, VIId</i>	West of Scotland <i>VIa, Vb</i>	All CRZ Areas
BT1	-	344,626	-	344,626
BT2	910	2,348,517	-	2,349,426
GN1	843	227,980	22,997	251,821
GT1	-	6,509	-	6,509
LL1	2,461	799,269	579,310	1,381,040
TR1	421,296	16,760,654	2,319,053	19,501,003
TR2	2,157,175	2,663,333	2,273,802	7,094,310
Total Regulated Gears	2,582,685	23,150,888	5,195,162	30,928,735

Source: Fisheries administrations in the UK

Effort of vessels fishing in the Western Waters

To prevent growth in fishing activity in the sea areas to the west of the UK, Ireland, Spain, Portugal and Morocco an area (the 'Western Waters') was established from November 2003 in which fishing effort is limited. The regime was established by Council Regulation (EC) No 1954/2003 and remains in force.

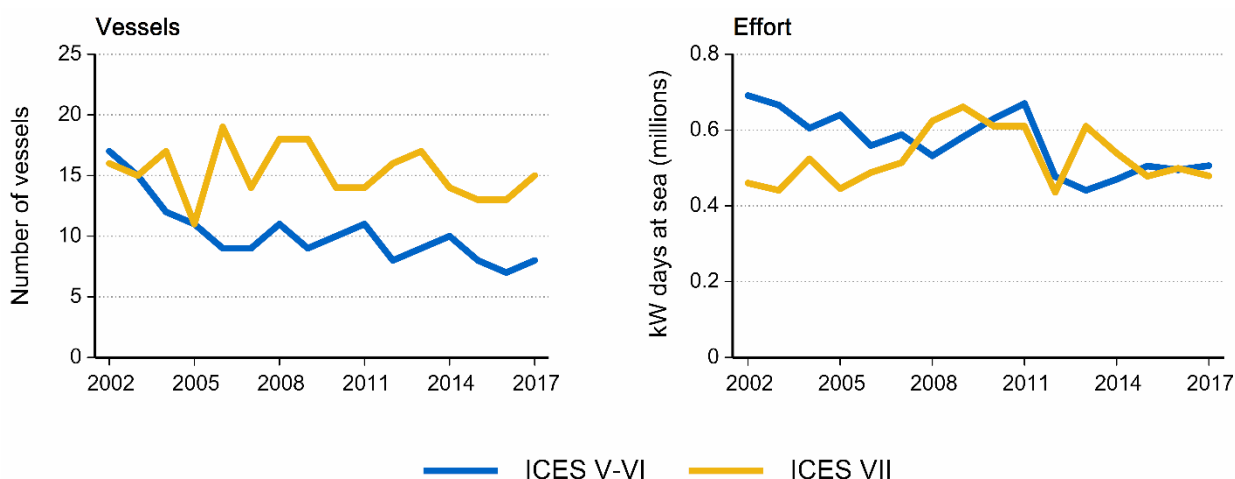
The Western Waters regime covers nine sea areas. Regulated activity is permitted for UK registered vessels in four of these. Ceilings exist on the maximum fishing effort to be exerted by 15 metres and over vessels targeting certain species in ICES sub-areas V and VI; ICES sub-area VII; and ICES sub-area VIII. The fourth area is a region to the south and west of Ireland with high concentrations of juvenile hake known as the Biologically Sensitive Area (BSA). Ceilings in this region apply to fishing effort exerted by 10 metres and over vessels.

The information included in this section represents that which is submitted to the Commission under the Western Waters regime. Within this reporting regime, the UK and other Member States are required to submit monthly reports on fishing effort.

Trips targeting crabs

Trips targeting edible crabs and spider crabs are covered by the Western Waters regime. From 2002 to 2017 the number of vessels targeting crabs in ICES sub-areas V and VI has fallen from 17 to 8 while the number in ICES sub-area VII has fluctuated between 6 vessels in 2002 and 15 vessels in 2017. Effort levels have also fluctuated over this period and were 27 per cent lower for ICES sub-areas V and VI and were 4 per cent higher for ICES sub-area VII (Chart 2.18).

Chart 2.18: Fleet size and effort (kW days) of vessels targeting crabs in the Western Waters: 2002 to 2017

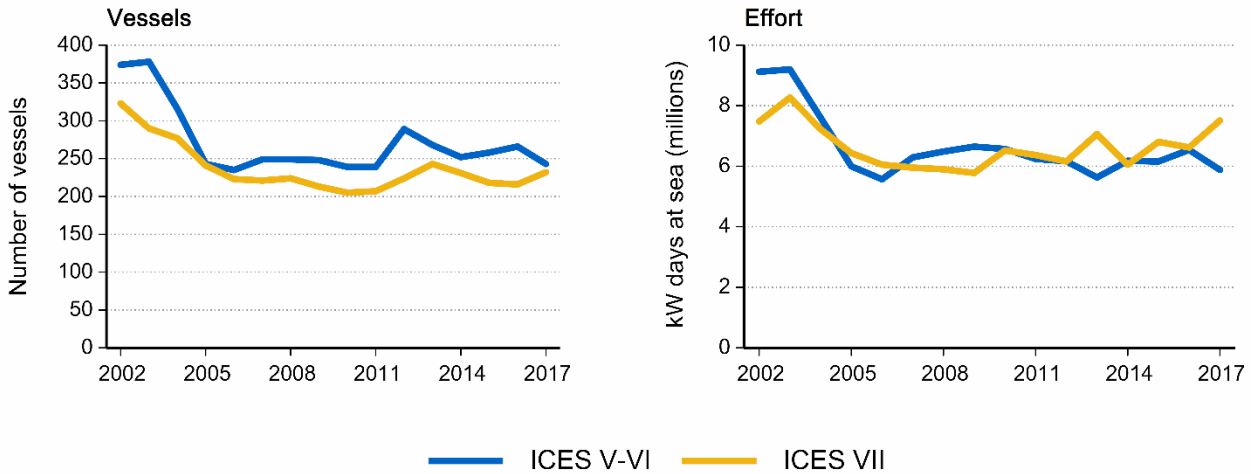


Trips targeting demersal species

The Western Waters regime places limits on the effort exerted on trips targeting demersal species excluding certain deep sea species.

From 2002 to 2017 the number of vessels targeting demersal species in ICES sub-areas V and VI decreased by 35 per cent and the effort fell by 36 per cent. The reductions may be partly attributed to decommissioning schemes and limited fishing opportunities due to effort and quota controls. For ICES sub-area VII, the number of vessels fell by 28 per cent although effort is now back to 2002 levels.

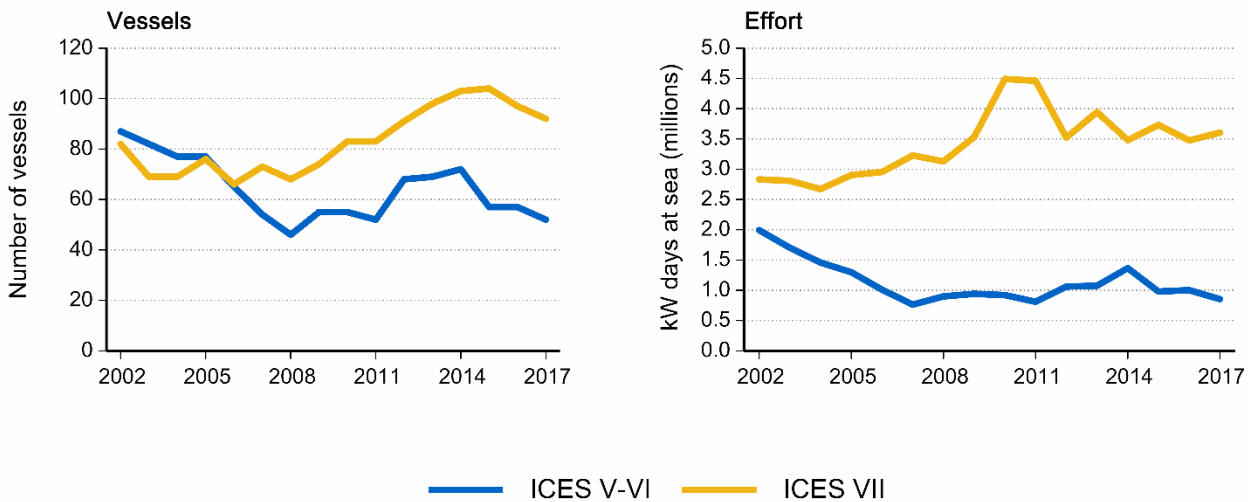
Chart 2.19: Fleet size and effort (kW days) of vessels targeting demersal species in the Western Waters: 2002 to 2017



Trips targeting scallops

From 2002 to 2017, the number of vessels targeting scallops in ICES sub-areas V and VI decreased by 40 per cent while the number in ICES sub-area VII increased by 12 per cent. Over the same period, effort in ICES sub-areas V and VI fell by 57 per cent, but effort in ICES sub-area VII increased by 27 per cent. This increase is partly due to diversion of activity from other sea areas as well as increased activity by vessels already fishing in ICES sub-area VII.

Chart 2.20: Fleet size and effort (kW days) of vessels targeting scallops in the Western Waters: 2002 to 2017



A summary of effort uptake by relevant member states is shown in Table 2.10 below.

Table 2.10 Effort of UK 15m and over vessels fishing in the Western Waters: 2017

		kW days									
Species	ICES Area		UK	Belgium	Denmark	France	Germany	Ireland	Netherlands	Portugal	Spain
			GBR	BEL	DNK	FRA	DEU	IRL	NLD	PRT	ESP
Crabs	V, VI	Limit	702,292	-	-	-	-	465,000	-	-	-
		Effort	506,175	-	-	-	-	134,187	-	-	-
		Uptake %	72%	-	-	-	-	29%	-	-	-
	VII	Limit	543,366	-	-	1,946,719	-	-	-	-	-
		Effort	479,429	-	-	325,246	-	-	-	-	-
		Uptake %	88%	-	-	17%	-	-	-	-	-
Demersal	V, VI	Limit	24,017,229	58,452	215,234	11,649,154	186,370	2,324,932	-	-	2,460,000
		Effort	5,879,666	-	-	2,623,864	nd	790,203	-	-	871,224
		Uptake %	24%	0%	0%	23%	-	34%	-	-	35%
	VII	Limit	25,786,266	7,346,910	-	40,657,844	233,560	7,544,120	760,279	-	17,957,785
		Effort	7,510,466	4,988,445	-	12,393,424	nd	4,627,574	725,597	-	4,201,517
		Uptake %	29%	68%	-	30%	-	61%	95%	-	23%
	VIII	Limit	218,406	742,465	-	24,963,097	4,952	-	403,327	2,552,222	33,100,000
		Effort	48,621	514,945	-	9,739,141	nd	-	-	260,357	14,048,605
		Uptake %	22%	69%	-	39%	-	-	0%	10%	42%
	BSA (Biologically Sensitive Area)	Limit	3,061,485	235,432	-	9,559,653	8,326	7,054,490	-	-	5,642,215
		Effort	747,516	167,848	-	-	nd	3,210,863	-	-	1,754,759
		Uptake %	24%	71%	-	0%	-	46%	-	-	31%
Scallops	V, VI	Limit	1,974,425	-	-	-	-	-	-	-	-
		Effort	854,215	-	-	-	-	-	-	-	-
		Uptake %	43%	-	-	-	-	-	-	-	-
	VII	Limit	4,035,619	354,066	-	6,727,932	-	525,012	155,157	-	-
		Effort	3,604,208	85,173	-	2,548,352	-	315,758	-	-	-
		Uptake %	89%	24%	-	38%	-	60%	0%	-	-

Source: European Commission

3 Landings

Introduction

In 2017, UK vessels landed 724 thousand tonnes of sea fish (including shellfish) into the UK and abroad with a value of £980 million. This is a 3 per cent increase in quantity and a 4 per cent increase in value compared with the previous year.

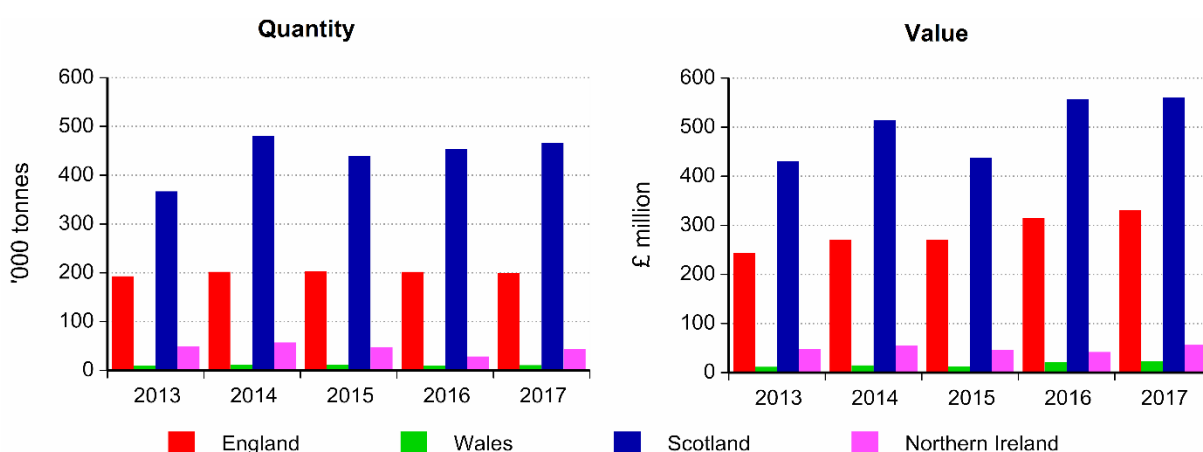
This chapter provides a comprehensive overview of the weight and value of landings by UK vessels into the UK and abroad and by foreign vessels into the UK. The publication includes breakdowns of landings data according to:

- Vessel nationality
- Port and country of landing
- Area of capture and fishing gear used
- Vessel size and sectoral membership

Data are also provided on landings and quota uptake for all EU member states. All **landings data are given in terms of live weight**. The calculation of average prices excludes landings with zero value to better reflect the price of fish.

All tables presented here are available to download as spreadsheets from the MMO website. Supplementary tables showing more detail can also be found on the website. Also available for download is a summary report showing estimates of UK and non-UK landings by Exclusive Economic Zone of capture.

Chart 3.1: Quantity and value of landings into the UK and abroad by UK vessels by vessel nationality: 2013 to 2017



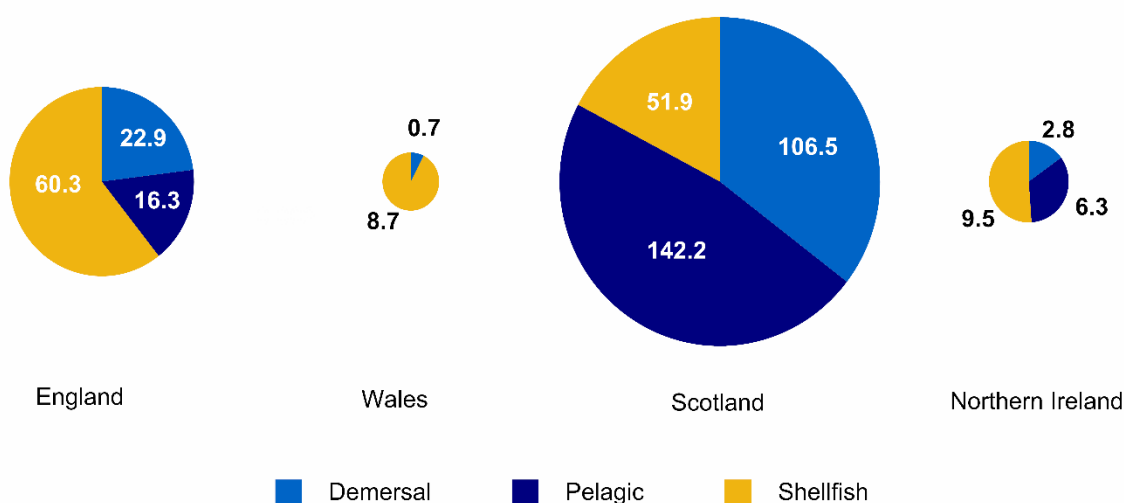
Landings by all UK vessels and by foreign vessels into the UK

Sixty per cent of fish caught by the UK fleet were landed in the UK (74 per cent in terms of value). Chart 3.1 shows the landings into the UK and abroad by vessel nationality. Table 3.1 shows that Scottish vessels accounted for 64 per cent of the weight of landings by UK vessels (57 per cent by value). English vessels accounted for 28 per cent of the weight (34 per cent by value). The Northern Irish fleet caught 6 per cent of landings by weight and value. Welsh vessels caught 1 per cent of the landings and 2 per cent of the value. Island fleets caught the remaining 1 per cent of landings and value.

Landings by UK vessels into the UK fell by 2 per cent to 434 thousand tonnes in 2017. Shellfish used to account for the largest share of UK fleet landings. But since 2014, with the increase in mackerel quota and resultant catch, pelagic landings now have the highest share (38 per cent) but only 15 per cent of the value. Relatively high value shellfish and demersal species each account for 31 per cent of landings and 47 and 37 per cent in terms of value respectively. This shows that average prices of shellfish are the highest overall while average prices of pelagic species are the lowest.

Chart 3.2 shows a breakdown of landings by species group into England, Wales, Scotland and Northern Ireland by UK vessels. The largest amount, 301 thousand tonnes, was landed into Scotland with a value of £453 million. Landings into England were 100 thousand tonnes (£212 million).

Chart 3.2: Landings into UK countries by UK vessels: 2017 ('000 tonnes)



Breakdowns by species of landings into the UK by UK vessels, landings into the UK by foreign vessels and landings abroad by UK vessels are given in Tables 3.2 to 3.6. In 2017:

- 40 per cent of all landings by the UK fleet were made abroad, up from 37 per cent in 2016 (see Tables 3.5 and 3.6). Forty five per cent of all our landings abroad were mackerel. Overall, 58 per cent of pelagic fish were landed abroad compared with 27 per cent of demersal fish and 7 per cent of shellfish.
- The UK fleet accounted for 90 per cent of all fish landed into the UK (see Tables 3.2 and 3.4). Foreign landings into the UK fell from 53 thousand tonnes in 2016 to 48 thousand tonnes in 2017. Key species were mackerel, hake and saithe.
- Shellfish, which are largely exempt from quotas, formed the majority of landings by the UK fleet into England, Wales and Northern Ireland. Pelagic fish had the highest share of landings into Scotland (see Tables 3.2a to 3.2d and Chart 3.2).

TABLE 3.1 Landings into the UK and abroad by UK vessels: 2013 to 2017

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
(i) Vessels administered in the UK										
Demersal	179.4	169.8	169.1	180.4	182.3	281.2	299.5	293.7	346.4 ^R	354.7
Pelagic	292.1	436.6	389.8	369.8 ^R	394.8	191.4	271.5	206.6	261.2 ^R	257.2
Shellfish	155.3	151.6	149.8 ^R	150.4 ^R	147.2	268.7	293.1	276.1 ^R	339.0 ^R	368.1
Total Fish	626.8	757.9	708.7^R	700.6^R	724.3	741.3	864.1	776.4^R	946.7^R	980.1
(ii) Vessels administered in England										
Demersal	73.8	77.9	74.4	81.4	76.7	136.8	151.2	144.9	171.4 ^R	164.0
Pelagic	59.7	66.2	68.5	65.2 ^R	67.1	18.6	25.3	30.3	31.7 ^R	38.5
Shellfish	59.5	58.1	60.4	55.5	55.6	88.3	94.6	96.0	111.7	128.0
Total Fish	193.1	202.1	203.3	202.0^R	199.4	243.8	271.2^R	271.2	314.8^R	330.5
(iii) Vessels administered in Wales										
Demersal	1.0	1.2	1.3	1.1	0.9	2.1	2.8	2.9	3.1 ^R	2.9
Pelagic	..	..	..	..	..	..	..	..	..	..
Shellfish	8.8	10.6	9.7	8.8	9.9	9.7	12.1	10.2	18.6	20.6
Total Fish	9.8	11.8	11.1	9.9	10.8	11.8	14.9	13.1	21.7	23.5
(iv) Vessels administered in Scotland										
Demersal	102.1	88.7	90.8	95.4	101.9	139.4	143.2	142.8	168.7	183.9
Pelagic	202.6	330.4	291.5	294.4	301.4	153.2	220.2	160.1	222.3	197.1
Shellfish	62.3	61.6	57.8	63.6	62.5	137.4	150.8	134.4	165.9 ^R	179.5
Total Fish	367.0	480.7	440.1	453.3	465.8	430.0	514.1	437.4	556.9	560.5
(v) Vessels administered in Northern Ireland										
Demersal	2.3	1.8	2.3	2.4	2.7	2.5	2.1	2.5	2.7	3.8
Pelagic	29.8	40.0	29.8	10.2	26.3	19.6	26.0	16.1	7.3	21.6
Shellfish	17.3	15.5	15.8 ^R	15.9 ^R	14.4	25.9	27.7	27.6 ^R	32.0 ^R	30.9
Total Fish	49.4	57.3	47.9^R	28.5^R	43.4	48.0	55.8	46.2^R	42.0^R	56.3
(vi) Vessels administered in the Islands^(a)										
Demersal	0.1	0.1	0.2	0.2	0.1	0.4	0.3	0.6	0.5	0.2
Pelagic	..	..	..	..	..	..	..	..	..	..
Shellfish	7.4	5.7	6.1	6.6	4.8	7.3	7.9	8.0	10.8	9.1
Total Fish	7.5	5.9	6.3	6.8	4.9	7.7	8.2	8.6	11.3	9.3

Source: Fisheries Administrations in the UK

(a) Jersey, Guernsey and the Isle of Man

Note: Additional data on UK vessel landings are available for download from the MMO website as supplementary Table 3.1a.

TABLE 3.2 Landings into the UK by UK vessels: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	0.8	1.0	0.6	0.5	0.4	5.6	7.3	5.4	4.8	4.2
Brill	0.3	0.3	0.3	0.4	0.3	1.6	1.6	1.6	2.0	2.0
Cod	13.0	14.0	15.4	20.7	21.6	25.8	27.8	29.5	41.7 ^R	48.0
Dogfish	0.7	0.7	1.6	1.7	1.5	0.2	0.1	0.3	0.4	0.4
Gurnard	1.8	1.3	1.6	1.8	1.5	1.2	0.9	1.0	1.2	1.2
Haddock	38.7	35.4	32.4	33.1	33.6	43.5	49.3	44.2	44.0 ^R	50.7
Hake	6.5	8.5	8.8	11.4	12.6	16.1	19.7	20.9	26.9	27.4
Halibut	..	..	0.1	0.1	0.2	0.5	0.4	0.4	0.9	1.4
Lemon Sole	2.5	2.3	1.8	2.0	1.6	7.6	7.9	7.3	8.3	7.3
Ling	4.0	4.4	4.1	4.9	5.3	5.5	5.4	5.3	7.0	8.7
Megrim	4.0	3.3	3.1	3.2	3.0	9.1	8.6	7.6	9.0	8.4
Monks or Anglers	10.1	11.4	14.3	16.4	16.3	30.3	31.4	34.8	46.8	46.9
Plaice	4.1	3.6	3.5	4.7	4.8	4.0	3.6	3.6	5.3	6.5
Pollack (Lythe)	1.6	1.9	1.6	1.9	1.5	3.4	3.4	3.1	4.3	3.9
Saithe	12.9	11.1	9.9	10.0	10.0	11.0	10.2	8.5	10.3	9.8
Sand Eels	..	..	..	..	..	..	..	..	..	..
Skates and Rays	2.6	2.4	2.4	2.4	2.4	3.3	2.7	2.8	3.0	3.0
Sole	1.8	1.8	1.4	1.5	1.5	12.8	12.4	10.4	13.3	14.0
Turbot	0.4	0.5	0.5	0.5	0.6	3.7	4.2	4.2	4.7	5.3
Whiting	12.0	11.1	10.7	10.3	9.8	11.5	11.8	11.0	10.8	12.3
Witch	0.8	0.8	0.6	0.8	1.0	0.8	0.7	0.7	1.0	1.1
Other Demersal ^(b)	3.9	4.2	3.4	3.6	3.5	5.5	5.7	6.2	9.0 ^R	6.1
Total Demersal	122.6	120.0	118.4	132.2^R	132.9	203.0	215.3	208.9	254.9^R	268.7
Blue Whiting	8.2	9.7	12.1	11.9	13.1	1.8	1.3	2.0	2.4	1.6
Herring	37.5	38.3	38.6	40.5	44.9	13.6	10.5	13.4	25.3	18.2
Horse Mackerel	2.5	3.1	2.9	0.9	0.1	0.9	1.1	1.3	0.3	0.1
Mackerel	78.2	126.2	94.8	103.9	95.5	70.1	104.1	60.6	88.8	86.4
Sardines	3.7	3.4	4.2	8.0	7.1	1.0	0.8	1.6	2.6	2.4
Other Pelagic	4.8	5.7	3.8	5.3	4.1	1.0	2.1	0.8	1.3	1.1
Total Pelagic	134.9	186.3	156.4	170.4	164.9	88.4	119.9	79.6	120.7	109.7
Cockles	10.1	10.2	11.2	5.0	6.0	5.3	7.9	5.7	3.5	4.3
Crabs	29.2	32.6	29.1	32.4 ^R	30.7	39.0	44.4	39.2	47.0 ^R	53.8
Cuttlefish	3.7	3.1	6.0	5.0	7.0	6.5	6.5	10.6	14.0	25.4
Lobsters	3.0	3.4	3.1	3.3	3.4	29.9	33.5	32.2	39.6 ^R	44.3
Mussels	0.5	0.2	1.0	0.3 ^R	0.7	0.2	0.1	0.8	0.2	0.6
Nephrops	28.3	30.3	25.7	30.7	29.9	86.0	98.5	81.9	100.5	95.6
Scallops	48.7	38.6	40.8	38.5 ^R	32.6	62.6	58.3	64.3	74.1	74.0
Shrimps and Prawns	0.9	0.6	0.3	0.8	0.6	2.4	1.4	0.8	3.0	2.6
Squid	1.8	2.9	1.8	2.0	3.4	7.0	9.2	6.4	8.2	13.0
Whelks	20.0	19.8	20.9	22.7	20.8	13.7	16.2	18.6	22.9	22.7
Other Shellfish	1.8	1.1	1.3	1.2	1.3	5.4	3.7	4.0	4.7	6.0
Total Shellfish	148.0	142.8	141.2	141.8^R	136.2	257.9	279.6	264.6	317.8^R	342.3
Total All Species	405.5	449.2^R	416.0^R	444.4^R	434.1	549.3	614.8	553.0	693.4^R	720.7

Source: Fisheries Administrations in the UK

(a) Landings data include transshipments and Islands figures.

(b) Includes fish roes and livers.

TABLE 3.2a Landings into England by UK vessels: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	0.7	0.9	0.6	0.5	0.4	5.1	6.7	4.9	4.3	3.7
Brill	0.3	0.3	0.3	0.3	0.3	1.5	1.5	1.6	1.9	1.9
Cod	1.0	1.0	1.3	4.2	3.5	2.0	1.8	2.2	7.3 ^R	6.0
Dogfish	0.3	0.3	1.0	1.2	0.9	0.1	0.1	0.2	0.3	0.3
Gurnard	1.4	0.9	1.0	1.2	1.1	0.9	0.7	0.7	0.9	1.0
Haddock	1.6	0.9	0.9	0.7	0.7	2.2	1.5	1.4	1.2 ^R	1.3
Hake	0.8	0.9	1.2	1.3	1.5	1.7	1.8	2.2	2.7	3.6
Halibut	..	..	..	..	..	..	..	0.1	0.1	0.2
Lemon Sole	1.8	1.7	1.1	1.2	0.9	5.7	5.8	4.9	5.3	4.2
Ling	0.3	0.4	0.2	0.3	0.2	0.4	0.4	0.3	0.3	0.2
Megrim	1.2	1.0	1.0	0.9	0.9	2.0	2.4	2.3	2.3	2.2
Monks or Anglers	3.0	3.4	3.4	3.3	2.6	9.1	8.5	7.9	9.3	8.0
Plaice	2.4	2.2	1.8	2.5	2.7	2.7	2.5	2.3	3.1	3.9
Pollack (Lythe)	1.2	1.5	1.0	1.4	1.0	2.5	2.7	2.1	3.3	2.5
Saithe	0.2	0.1	0.2	0.1	..	0.2	0.1	0.1	0.1	..
Sand Eels	..	..	..	..	..	..	..	..	..	..
Skates and Rays	1.8	1.6	1.5	1.6	1.6	2.5	1.9	1.9	2.0	2.1
Sole	1.8	1.8	1.4	1.5	1.5	12.7	12.3	10.2	13.2	14.0
Turbot	0.4	0.5	0.5	0.5	0.5	3.2	3.7	3.6	4.2	4.7
Whiting	1.9	1.7	1.6	1.5	1.1	1.3	1.3	1.1	1.1	0.9
Witch	..	..	..	..	..	..	..	..	..	..
Other Demersal ^(b)	2.0	2.3	1.6	1.8	1.7	2.6	3.0	2.3	2.8	2.8
Total Demersal	24.0	23.4	21.6	26.0	22.9	58.5	58.7	52.5	65.7^R	63.6
Blue Whiting	-	-	..	-	-	-	-	..	-	-
Herring	3.9	2.9	3.1	2.5	3.8	1.1	1.0	1.0	1.1	1.6
Horse Mackerel	1.9	2.3	2.2	0.9	0.1	0.5	0.7	0.8	0.3	0.1
Mackerel	1.2	1.8	2.6	2.3	2.6	1.4	1.6	2.0	1.9	2.4
Sardines	3.7	3.4	4.2	8.0	7.1	1.0	0.8	1.6	2.6	2.4
Other Pelagic	3.8	4.1	2.7	3.1	2.6	0.8	1.7	0.5	0.8	0.7
Total Pelagic	14.5	14.5	14.8	16.8	16.3	4.8	5.9	5.9	6.7	7.2
Cockles	10.1	10.2	11.2	5.0	6.0	5.3	7.9	5.7	3.5	4.3
Crabs	13.6	15.8	14.1	16.1	14.6	18.2	21.1	18.9	22.7	25.0
Cuttlefish	3.6	3.1	6.0	5.0	7.0	6.5	6.5	10.6	14.0	25.4
Lobsters	1.7	1.8	1.7	1.8	1.9	16.4	17.8	17.8	22.2	23.7
Mussels	0.2	0.1	0.1	..	..	..	..	..	..	..
Nephrops	3.5	3.2	2.1	3.4	2.9	10.7	10.3	7.0	11.3	9.3
Scallops	14.3	13.4	14.3	11.6	15.2	22.3	22.0	25.9	24.1	35.4
Shrimps and Prawns	0.9	0.6	0.3	0.8	0.6	2.3	1.3	0.8	3.0	2.5
Squid	0.6	0.7	0.5	0.3	0.5	2.7	3.0	2.2	1.7	2.4
Whelks	13.7	13.8	13.8	13.3	11.1	9.1	11.4	12.2	13.3	11.9
Other Shellfish	0.7	0.5	0.8	0.6	0.6	1.3	1.2	1.8	1.6	1.7
Total Shellfish	62.9	63.3	64.9	58.0	60.3	94.8	102.5	103.0	117.5	141.6
Total All Species	101.4	101.2	101.3	100.8	99.5	158.0	167.1	161.4	189.9^R	212.4

Source: Fisheries Administrations in the UK

(a) Landings data include transhipments

(b) Includes fish roes and livers.

TABLE 3.2b Landings into Wales by UK vessels: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	0.1	0.1	0.1	0.1	0.1	0.5	0.6	0.5	0.5	0.5
Brill	..	..	..	..	..	..	..	..	..	..
Cod	..	..	..	..	..	0.1	0.1	..	..	..
Dogfish	..	..	..	0.1	..	..	..	..	..	..
Gurnard	..	..	..	..	..	..	..	..	..	..
Haddock	..	..	..	..	..	..	..	..	..	..
Hake	0.1	0.1	0.1	0.1	..	0.1	0.1	0.2	0.2	0.1
Halibut	-	-	-	-	-	-	-	-	-	-
Lemon Sole	..	..	..	..	..	..	..	..	..	..
Ling	..	..	..	..	..	..	..	..	..	..
Megrim	0.6	0.3	0.3	0.3	0.2	1.8	1.0	1.0	1.1	0.6
Monks or Anglers	0.5	0.2	0.3	0.3	0.1	1.6	0.8	1.2	1.2	0.5
Plaice	..	..	..	..	..	..	..	..	..	..
Pollack (Lythe)	..	..	..	..	..	..	..	..	..	..
Saithe	..	..	..	..	..	..	..	..	..	..
Sand Eels	-	-	-	-	-	-	-	-	-	-
Skates and Rays	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Sole	..	..	..	..	..	0.1	0.1	0.1	0.1	0.1
Turbot	..	..	..	..	..	0.1	..	..	..	..
Whiting	..	..	..	..	..	..	..	..	..	..
Witch	0.1	..	..	..	..	0.2	..	0.1	0.1	..
Other Demersal ^(b)	0.1	0.1	0.1	0.1	..	0.1	0.1	0.1	0.1	0.1
Total Demersal	1.8	1.0	1.2	1.2	0.7	4.9	3.1	3.6	3.8^R	2.1
Blue Whiting	-	-	-	..	-	-	-	-	..	-
Herring	..	..	..	..	..	..	..	..	..	..
Horse Mackerel	-	-	-	..	-	-	-	-	..	-
Mackerel	..	..	..	..	..	..	..	..	..	..
Sardines	-	-	-	-	-	-	-	-	-	-
Other Pelagic	-	..	..	-	-	-	..	..	-	-
Total Pelagic	..	..	..	..	..	..	..	..	..	..
Cockles	-	-	-	..	..	-	-	-	..	..
Crabs	0.8	0.6	0.5	0.5	0.8	1.0	0.7	0.6	0.7	1.2
Cuttlefish	..	..	..	..	..	..	..	..	..	..
Lobsters	0.2	0.2	0.2	0.2	0.2	1.6	1.8	1.9	2.0	2.1
Mussels	-	-	-	- ^R	..	-	-	-	-	..
Nephrops	..	0.1	..	..	..	..	0.3	..	0.1	..
Scallops	5.5	3.6	2.4	2.4	0.8	5.0	3.6	2.4	2.7	1.4
Shrimps and Prawns	-	-	-	..	..	-	-	-	..	..
Squid	..	..	..	..	..	..	..	..	..	..
Whelks	5.1	4.5	5.1	6.5	6.9	3.7	3.6	4.6	7.0	7.9
Other Shellfish	0.1	0.1	..	..	..	0.5	0.5	0.3	0.5	0.4
Total Shellfish	11.6	9.0	8.2	9.6^R	8.7	11.8	10.5	9.9	12.9	13.1
Total All Species	13.4	10.0	9.4	10.9^R	9.4	16.7	13.6	13.5	16.7	15.3

Source: Fisheries Administrations in the UK

(a) Landings data include transshipments.

(b) Includes fish roes and livers.

TABLE 3.2c Landings into Scotland by UK vessels: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	..	..	..	..	..	..	..	..	..	..
Brill	..	..	..	..	..	..	..	..	..	..
Cod	11.9	12.9	14.0	16.5	18.1	23.5	25.9	27.2	34.3	41.9
Dogfish	..	0.1	0.2	0.2	0.2	..	..	..	..	..
Gurnard	0.4	0.4	0.6	0.6	0.4	0.2	0.2	0.3	0.3	0.2
Haddock	36.7	34.1	30.9	31.6	31.6	41.0	47.4	42.1	41.8	47.5
Hake	5.5	7.5	7.4	9.9	10.9	14.3	17.8	18.4	23.8	23.2
Halibut	..	..	..	0.1	0.2	0.4	0.3	0.4	0.7	1.2
Lemon Sole	0.7	0.7	0.7	0.8	0.7	1.9	2.1	2.4	3.0	3.0
Ling	3.7	4.0	3.8	4.6	5.1	5.0	4.9	5.0	6.7	8.4
Megrim	2.2	2.0	1.8	2.1	1.9	5.3	5.2	4.2	5.6	5.6
Monks or Anglers	6.5	7.6	10.3	12.5	12.9	19.3	21.9	25.1	35.8	36.8
Plaice	1.7	1.4	1.7	2.2	2.1	1.3	1.1	1.2	2.2	2.6
Pollack (Lythe)	0.4	0.4	0.5	0.4	0.5	0.8	0.7	1.0	1.0	1.3
Saithe	12.7	11.0	9.8	9.8	9.9	10.8	10.0	8.4	10.2	9.8
Sand Eels	-	-	-	-	-	-	-	-	-	-
Skates and Rays	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6
Sole	..	..	..	..	..	..	..	..	..	..
Turbot	..	..	0.1	0.1	0.1	0.4	0.4	0.5	0.4	0.5
Whiting	10.1	9.3	9.1	8.8	8.7	10.2	10.5	9.8	9.7	11.4
Witch	0.6	0.7	0.5	0.7	0.9	0.6	0.6	0.6	0.8	1.0
Other Demersal ^(b)	1.8	1.7	1.7	1.7	1.7	2.7	2.6	3.7	6.0	3.2
Total Demersal	95.5	94.4	93.8	103.1	106.5	138.2	152.2	150.7	183.0	198.3
Blue Whiting	8.2	9.7	12.1	11.9	13.1	1.8	1.3	2.0	2.4	1.6
Herring	29.0	31.3	32.1	33.1	37.4	10.9	8.5	11.3	21.7	15.2
Horse Mackerel	0.6	0.8	0.7	..	..	0.3	0.4	0.5	..	..
Mackerel	75.1	122.1	90.6	99.2	90.3	67.0	99.9	57.5	85.3	81.5
Sardines	-	-	-	-	-	-	-	-	-	-
Other Pelagic	1.0	1.5	1.1	2.2	1.4	0.2	0.4	0.2	0.5	0.3
Total Pelagic	113.9	165.4	136.6	146.4	142.2	80.4	110.5	71.5	109.8	98.7
Cockles	..	..	..	..	..	..	..	..	..	..
Crabs	12.8	14.3	12.8	13.9	13.5	18.0	20.5	18.1	21.7	25.4
Cuttlefish	..	-	..	..	..	..	-	..	..	0.1
Lobsters	1.0	1.2	1.0	1.1	1.2	10.6	12.6	11.1	13.7	17.1
Mussels	0.3	0.1	-	-	..	0.1	..	-	-	..
Nephrops	17.9	20.2	16.1	20.0	20.8	61.7	73.1	59.2	72.6 ^R	71.4
Scallops	17.8	13.8	14.1	16.2	11.0	26.5	23.6	24.7	33.2	25.9
Shrimps and Prawns	..	..	..	..	..	..	..	..	..	0.1
Squid	1.2	2.2	1.3	1.7	2.9	4.1	6.2	4.2	6.5	10.6
Whelks	0.7	0.9	1.1	1.9	1.8	0.5	0.7	0.9	1.7	1.9
Other Shellfish	1.1	0.5	0.4	0.6	0.7	3.6	1.9	1.9	2.6	3.8
Total Shellfish	52.7	53.1	46.8	55.3	51.9	125.1	138.6	120.1	152.0 ^R	156.3
Total All Species	262.1	312.9	277.2	304.9	300.6	343.7	401.3	342.3	444.8	453.3

Source: Fisheries Administrations in the UK

(a) Landings data include transshipments.

(b) Includes fish roes and livers.

TABLE 3.2d Landings into Northern Ireland by UK vessels: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	..	..	..	..	..	..	..	..	..	..
Brill	..	..	..	..	..	..	..	..	..	0.1
Cod	0.1	0.1	0.1	..	..	0.2	0.1	0.1	0.1	0.1
Dogfish	0.2	0.2	0.4	0.2	0.5	..	..	0.1	..	0.1
Gurnard	..	..	..	..	..	..	..	..	..	..
Haddock	0.3	0.4	0.6	0.8	1.3	0.3	0.4	0.7	1.0	1.9
Hake	0.1	..	0.1	0.1	0.2	0.1	..	0.2	0.2	0.4
Halibut	-	..	..	..	..	-	..	..	..	..
Lemon Sole	..	..	..	..	..	..	..	..	..	..
Ling	..	..	..	..	..	..	..	..	..	..
Megrim	..	..	..	..	..	..	..	..	..	..
Monks or Anglers	0.1	0.1	0.2	0.3	0.6	0.3	0.2	0.5	0.6	1.5
Plaice	..	..	..	..	..	..	..	..	..	..
Pollack (Lythe)	..	..	..	0.1	..	..	..	0.1	0.1	0.1
Saithe	..	..	..	..	..	..	..	..	..	..
Sand Eels	-	-	-	-	-	-	-	-	-	-
Skates and Rays	0.1	..	..	..	0.1	0.1	..	..	..	0.1
Sole	..	..	..	..	..	..	..	..	..	..
Turbot	..	..	..	..	..	0.1	0.1	0.1	0.1	0.1
Whiting	0.1	0.1	..	..	..	0.1	0.1	..	..	..
Witch	0.1	..	..	..	..	..	..	..	..	..
Other Demersal ^(b)	..	..	..	..	..	..	..	..	..	..
Total Demersal	1.2	1.1	1.7	1.8	2.8	1.3	1.2	1.8	2.2	4.5
Blue Whiting	-	-	-	-	-	-	-	-	-	-
Herring	4.6	4.1	3.4	4.8	3.8	1.6	1.0	1.0	2.5	1.3
Horse Mackerel	-	..	-	-	-	-	..	-	-	-
Mackerel	1.9	2.3	1.6	2.3	2.6	1.6	2.5	1.1	1.6	2.5
Sardines	-	-	-	-	-	-	-	-	-	-
Other Pelagic	-	-	-	..	-	-	-	-	..	-
Total Pelagic	6.5	6.4	5.0	7.1	6.3	3.2	3.5	2.1	4.1	3.8
Cockles	-	-	-	-	-	-	-	-	-	-
Crabs	1.5	1.4	1.2	1.3 ^R	1.4	1.4	1.4	1.1	1.2	1.6
Cuttlefish	-	-	-	..	..	-	-	-	..	..
Lobsters	0.1	0.1	0.1	0.1	0.1	0.8	1.0	0.9	0.9 ^R	0.8
Mussels	..	-	0.9	0.3	0.7	..	-	0.7	0.2	0.5
Nephrops	6.8	6.9	7.5	7.3	6.2	13.5	14.8	15.6	16.5	14.7
Scallops	3.0	2.1	2.3	1.6	1.1	2.8	2.8	3.3	3.5	3.1
Shrimps and Prawns	..	..	..	..	..	..	..	..	..	..
Squid	..	..	..	..	..	0.1	..	..	..	..
Whelks	0.1	..	..	0.1	0.1	0.1	..	..	0.1	0.1
Other Shellfish	..	..	..	..	..	..	..	..	..	..
Total Shellfish	11.7	10.5	12.1	10.6	9.5	18.7	20.1	21.8	22.5 ^R	20.8
Total All Species	19.4	18.0	18.8	19.5	18.7	23.3	24.8	25.8	28.8 ^R	29.2

Source: Fisheries Administrations in the UK

(a) Landings data include transshipments.

(b) Includes fish roes and livers.

TABLE 3.3 Landings into the UK by foreign vessels: 2013 to 2017 ^(a)

	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	..	..	..	..	..	0.1	0.1	0.1	0.1	..
Brill	0.1	0.1	0.1	0.1	..	0.3	0.2	0.3	0.3	0.2
Cod	0.5	0.7	1.4	0.9	0.7	0.8	1.4	2.4	1.9	1.5
Dogfish	0.2	0.2	0.2	0.2	0.2	0.1	..	0.1	0.1	0.1
Gurnard	0.2	0.1	0.2	0.1	0.1	0.1	..	0.1	0.1	0.1
Haddock	0.5	1.8	1.1	0.7	0.8	0.6	2.4	1.4	1.0	1.0
Hake	4.5	7.1	7.1	8.5	8.5	11.1	17.7	17.5	20.7	18.5
Halibut	..	..	..	..	..	..	0.1	..	0.1	..
Lemon Sole	0.3	0.3	0.2	0.2	0.2	0.6	0.7	0.9	0.7	0.5
Ling	1.3	1.6	1.7	2.1	2.3	1.7	2.2	2.4	3.3	3.7
Megrim	0.7	0.3	0.4	0.5	0.7	0.9	0.7	1.0	1.2	1.6
Monks or Anglers	1.9	1.3	1.5	2.3	3.0	4.5	3.7	4.1	6.0	5.4
Plaice	0.7	0.8	0.9	0.5	0.3	0.7	0.6	0.9	0.5	0.4
Pollack (Lythe)	..	0.1	..	0.1	0.1	..	0.2	0.1	0.1	0.1
Saithe	6.8	6.4	8.9	7.5	5.9	6.1	6.9	8.5	8.5	5.9
Sand Eels	-	-	-	-	3.4	-	-	-	-	0.6
Skates and Rays	0.9	0.7	0.8	0.7	0.6	1.2	0.8	1.2	1.1	0.9
Sole	0.8	0.8	0.7	0.6	0.5	5.3	4.1	5.4	5.2	4.8
Turbot	0.1	0.1	0.1	0.1	0.1	0.6	0.4	0.5	0.6	0.5
Whiting	0.3	0.5	0.6	0.7	0.5	0.2	0.5	0.6	0.6	0.5
Witch	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Other Demersal ^(b)	7.0	7.6	5.7	6.4	3.8	10.7	11.8	7.7	9.2	5.1
Total Demersal	27.0	30.7	31.7	32.3	31.9	45.8	54.6	55.3	61.3	51.5
Blue Whiting	1.2	..	-	-	-	0.3	..	-	-	-
Herring	8.5	10.4	3.5	7.5	2.4	3.3	3.0	1.2	4.2	0.9
Horse Mackerel	0.4	0.6	0.4	0.8	0.1	0.3	0.5	0.2	0.5	..
Mackerel	21.4	29.4	9.1	10.6	12.8	19.3	21.7	5.9	8.7	12.6
Sardines	..	-	..	..	-	..	-	-	..	-
Other Pelagic	0.4	..	..	0.8	..	0.1	..	..	0.3	-
Total Pelagic	31.8	40.5	12.9	19.6	15.2	23.3	25.1	7.3	13.6	13.6
Cockles	-	-	-	-	-	-	-	-	-	-
Crabs	0.1	0.1	0.2	0.2	0.1	0.1	0.4	0.5	0.6	0.5
Cuttlefish	0.1	..	0.2	0.1	0.2	0.1	..	0.3	0.4	0.6
Lobsters	..	..	..	..	..	..	..	..	..	..
Mussels	..	-	-	-	-	..	-	-	-	-
Nephrops	0.2	0.1	0.2	0.1	0.1	0.4	0.3	0.3	0.3	0.1
Scallops	0.7	1.1	0.7	1.0	0.9	1.1	1.9	1.4	1.9	2.2
Shrimps and Prawns	-	-	-	-	-	-	-	-	-	-
Squid	0.1	..	0.1	..	0.1	0.3	0.1	0.1	0.1	0.2
Whelks	..	..	..	..	..	..	..	..	..	..
Other Shellfish	0.1	..	..	..	..	..	..	..	..	..
Total Shellfish	1.2	1.5	1.4	1.5	1.4	1.9	2.8	2.7	3.4	3.6
Total All Species	60.0	72.7	46.0	53.4	48.4	71.0	82.5	65.3	78.3	68.6

Source: Fisheries Administrations in the UK

(a) Landings data include transhipments and exclude landings abroad by foreign vessels.

(b) Includes fish roes and livers.

TABLE 3.4 Landings into the UK by UK and foreign vessels: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	0.8	1.0	0.7	0.5	0.4	5.7	7.4	5.4	4.9	4.2
Brill	0.3	0.3	0.4	0.4	0.4	1.9	1.8	1.9	2.3	2.3
Cod	13.5	14.7	16.7	21.7	22.4	26.7	29.3	31.9	43.6 ^R	49.6
Dogfish	0.8	0.8	1.8	1.9	1.7	0.2	0.2	0.5	0.5	0.5
Gurnard	2.0	1.4	1.9	1.9	1.6	1.3	0.9	1.1	1.2	1.3
Haddock	39.2	37.2	33.5	33.9	34.4	44.1	51.7	45.6	45.0	51.7
Hake	11.0	15.6	15.9	19.9	21.1	27.2	37.4	38.4	47.6	45.8
Halibut	0.1	..	0.1	0.1	0.2	0.5	0.4	0.4	0.9	1.5
Lemon Sole	2.8	2.7	2.1	2.2	1.7	8.3	8.6	8.2	9.0	7.8
Ling	5.3	6.1	5.8	7.0	7.6	7.2	7.6	7.7	10.3	12.4
Megrim	4.6	3.7	3.5	3.7	3.6	10.0	9.4	8.7	10.2	10.0
Monks or Anglers	12.0	12.7	15.8	18.7	19.2	34.8	35.1	38.8	52.9	52.3
Plaice	4.9	4.3	4.4	5.2	5.1	4.8	4.1	4.5	5.9	6.9
Pollack (Lythe)	1.6	2.0	1.7	2.0	1.6	3.5	3.6	3.2	4.5	4.0
Saithe	19.7	17.5	18.8	17.4	15.9	17.1	17.0	17.0	18.8	15.7
Sand Eels	..	..	..	..	3.4	..	..	..	..	0.7
Skates and Rays	3.5	3.1	3.2	3.1	3.0	4.4	3.5	4.0	4.1	3.9
Sole	2.6	2.6	2.1	2.1	2.0	18.1	16.5	15.7	18.6	18.8
Turbot	0.5	0.6	0.6	0.6	0.7	4.3	4.6	4.7	5.3	5.7
Whiting	12.4	11.7	11.3	11.0	10.3	11.7	12.3	11.6	11.4	12.8
Witch	0.9	0.8	0.7	0.9	1.1	0.9	0.8	0.8	1.1	1.2
Other Demersal ^(b)	10.9	11.8	9.0	10.1	7.3	16.1	17.5	13.9	18.2	11.1
Total Demersal	149.5	150.7	150.1	164.4	164.8	248.8	269.8	264.1	316.2^R	320.2
Blue Whiting	9.4	9.7	12.1	11.9	13.1	2.1	1.3	2.0	2.4	1.6
Herring	46.0	48.8	42.0	47.9	47.3	16.9	13.5	14.6	29.5	19.1
Horse Mackerel	2.9	3.7	3.2	1.7	0.2	1.1	1.6	1.5	0.8	0.1
Mackerel	99.6	155.6	103.9	114.5	108.2	89.4	125.7	66.5	97.5	99.0
Sardines	3.7	3.4	4.2	8.0	7.1	1.0	0.8	1.6	2.6	2.4
Other Pelagic	5.2	5.7	3.8	6.1	4.1	1.1	2.1	0.8	1.6	1.1
Total Pelagic	166.7	226.9	169.3	190.0	180.1	111.6	145.1	86.9	134.3	123.2
Cockles	10.1	10.2	11.2	5.0	6.0	5.3	7.9	5.7	3.5	4.3
Crabs	29.3	32.8	29.4	32.5	30.8	39.1	44.8	39.8	47.6	54.3
Cuttlefish	3.7	3.1	6.2	5.2	7.2	6.6	6.5	10.9	14.4	26.0
Lobsters	3.0	3.4	3.1	3.3	3.4	29.9	33.5	32.2	39.6 ^R	44.3
Mussels	0.5	0.2	1.0	0.3 ^R	0.7	0.2	0.1	0.8	0.2	0.6
Nephrops	28.5	30.5	25.9	30.9	30.0	86.3	98.8	82.3	100.8	95.8
Scallops	49.4	39.7	41.5	39.4	33.5	63.7	60.3	65.7	76.0	76.2
Shrimps and Prawns	0.9	0.6	0.3	0.8	0.6	2.4	1.4	0.8	3.0	2.6
Squid	1.9	2.9	1.9	2.0	3.5	7.3	9.3	6.6	8.3	13.2
Whelks	20.1	19.8	20.9	22.7	20.8	13.8	16.2	18.6	22.9	22.7
Other Shellfish	1.9	1.1	1.3	1.2	1.3	5.4	3.7	4.0	4.7	6.0
Total Shellfish	149.2	144.3	142.6	143.3^R	137.6	259.9	282.4	267.3	321.2^R	345.9
Total All Species	465.4	521.8	462.0	497.8^R	482.5	620.3	697.3	618.3	771.7^R	789.3

Source: Fisheries Administrations in the UK

(a) Landings data include transshipments and exclude landings abroad.

(b) Includes fish roes and livers.

TABLE 3.5 Landings abroad by UK vessels: 2013 to 2017^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	..	..	..	..	..	0.2	0.3	0.3	0.2	0.1
Brill	0.1	0.1	0.1	0.1	0.1	0.6	0.7	0.5	0.7	0.6
Cod	16.4	16.3	12.9	13.4	16.8	20.0	22.1	19.6	21.0 ^R	29.9
Dogfish	..	..	..	0.1	..	..	..	..	..	..
Gurnard	0.4	0.5	0.5	0.7	0.6	0.5	0.5	0.6	0.8	0.6
Haddock	1.1	0.9	0.9	0.9	0.7	1.1	1.1	1.0	1.0 ^R	0.8
Hake	2.5	2.8	3.8	2.9	2.2	6.7	6.3	8.4	6.9	4.5
Halibut	..	..	..	..	..	..	..	..	..	0.1
Lemon Sole	0.5	0.5	0.4	0.5	0.4	1.3	1.5	1.5	1.5	1.2
Ling	0.6	0.4	0.5	0.5	0.4	0.8	0.5	0.6	0.7	0.6
Megrim	1.3	1.6	1.7	1.7	1.7	3.8	5.8	5.5	5.8	5.4
Monks or Anglers	3.5	4.5	3.9	4.1	3.9	10.8	14.4	11.9	13.2	11.8
Plaice	17.1	15.6	15.3	16.5	13.0	18.1	17.1	19.0	22.9	18.0
Pollack (Lythe)	0.6	0.6	0.5	0.4	0.4	1.4	0.6	0.6	1.0	0.7
Saithe	1.8	1.6	3.1	2.4	1.9	1.9	2.0	3.2	2.5 ^R	1.9
Sand Eels	2.4	..	2.0	-	3.3	0.5	..	0.4	-	0.4
Skates and Rays	0.3	0.4	0.4	0.4	0.3	0.7	0.6	0.7	0.7	0.3
Sole	0.5	0.6	0.6	0.5	0.3	3.8	4.4	4.7	4.7	2.9
Turbot	0.3	0.3	0.2	0.3	0.3	2.3	2.6	1.9	2.4	2.2
Whiting	0.7	0.7	0.7	0.4	0.5	0.6	0.6	0.6	0.4	0.4
Witch	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.6	0.7	0.6
Other Demersal ^(b)	6.4	2.2	2.7	2.2	2.3	3.0	2.6	3.3	4.3	3.1
Total Demersal	56.8	49.7	50.7	48.3	49.4	78.2	84.3	84.9	91.5^R	86.0
Blue Whiting	5.3	18.1	19.6	26.4	53.3	1.2	3.9	4.6	6.3	9.9
Herring	56.3	59.3	55.2	51.8	39.1	19.7	18.2	19.6	31.1	17.6
Horse Mackerel	8.9	9.7	4.7	5.6	5.3	3.9	4.4	2.3	2.4	2.8
Mackerel	85.6	161.8	153.2	113.8 ^R	131.4	76.2	123.1	99.2	99.7 ^R	117.0
Sardines	0.3	0.5	0.1	1.4	0.5	0.1	0.2	..	0.5	0.2
Other Pelagic	0.8	0.8	0.6	0.4	0.4	1.9	1.7	1.3	0.6	0.2
Total Pelagic	157.2	250.2	233.4	199.4^R	230.0	103.0	151.5	127.0	140.6^R	147.6
Cockles	..	..	-	..	..	..	..	-	0.1	..
Crabs	3.1	3.5	3.5 ^R	4.4 ^R	5.3	4.5	5.5	4.9 ^R	6.0 ^R	8.2
Cuttlefish	..	..	..	..	..	0.1	0.1	0.1	0.1	0.1
Lobsters	..	..	..	..	..	0.3	0.3	0.3	0.2	0.5
Mussels	-	-	-	-	-	-	-	-	-	-
Nephrops	0.2	0.2	0.2	0.8	0.7	1.1	1.0	1.1	3.2	3.6
Scallops	1.3	0.7	0.3	0.4	0.2	1.0	0.9	0.3	0.7 ^R	0.3
Shrimps and Prawns	..	..	-	-	..	..	..	-	-	0.1
Squid	2.2	4.0	4.4	2.7	4.1	3.4	5.3	4.5	10.5	12.6
Whelks	0.1	0.3	0.1	0.1	0.4	0.1	0.2	0.1	0.1	0.4
Other Shellfish	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.3	0.1
Total Shellfish	7.3	8.8	8.7^R	8.6^R	10.9	10.7	13.5	11.5^R	21.2^R	25.8
Total All Species	221.3	308.8	292.7^R	256.2^R	290.3	192.0	249.3	223.4^R	253.3^R	259.4

Source: Fisheries Administrations in the UK

(a) Landings data include transshipments and exclude landings abroad by foreign vessels.

(b) Includes fish roes and livers.

TABLE 3.6 Landings into the UK and abroad by UK vessels: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ millions)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Bass	0.8	1.0	0.7	0.6	0.4	5.8	7.6	5.7	5.1 ^R	4.3
Brill	0.4	0.4	0.4	0.5	0.5	2.2	2.3	2.2	2.7	2.6
Cod	29.5	30.2	28.3	34.1	38.4	45.8	49.9	49.1	62.6 ^R	77.9
Dogfish	0.7	0.7	1.6	1.8	1.5	0.2	0.1	0.4	0.4	0.5
Gurnard	2.2	1.8	2.2	2.5	2.1	1.6	1.4	1.6	2.0	1.8
Haddock	39.7	36.3	33.3	34.0	34.3	44.6	50.5	45.1	45.0 ^R	51.5
Hake	9.0	11.3	12.7	14.3	14.8	22.8	26.0	29.4	33.9	31.9
Halibut	0.1	..	0.1	0.1	0.2	0.5	0.4	0.4	0.9	1.5
Lemon Sole	3.0	2.8	2.3	2.5	2.0	9.0	9.4	8.8	9.8	8.5
Ling	4.6	4.9	4.6	5.4	5.7	6.3	5.9	5.9	7.8	9.3
Megrim	5.3	5.0	4.8	4.9	4.6	12.9	14.5	13.1	14.8	13.8
Monks or Anglers	13.6	15.8	18.2	20.4	20.1	41.1	45.9	46.7	60.0	58.7
Plaice	21.2	19.1	18.9	21.2	17.8	22.1	20.6	22.5	28.3	24.4
Pollack (Lythe)	2.3	2.5	2.1	2.3	1.9	4.9	4.0	3.7	5.3	4.6
Saithe	14.7	12.8	13.0	12.4	11.8	12.9	12.2	11.8	12.8 ^R	11.7
Sand Eels	2.5	..	2.0	..	3.3	0.5	..	0.4	..	0.4
Skates and Rays	3.0	2.8	2.8	2.8	2.7	3.9	3.3	3.6	3.7	3.3
Sole	2.3	2.3	2.0	2.0	1.8	16.6	16.8	15.1	18.0	17.0
Turbot	0.7	0.8	0.8	0.9	0.9	6.0	6.8	6.1	7.1	7.5
Whiting	12.7	11.8	11.4	10.7	10.3	12.1	12.5	11.6	11.2	12.7
Witch	1.0	1.0	0.9	1.1	1.3	1.1	1.2	1.3	1.6	1.7
Other Demersal ^(b)	10.3	6.4	6.0	5.8	5.8	8.5	8.3	9.4	13.3	9.2
Total Demersal	179.4	169.8	169.1	180.4	182.3	281.2	299.5	293.7	346.4^R	354.7
Blue Whiting	13.5	27.8	31.8	38.3	66.4	3.0	5.1	6.6	8.7	11.4
Herring	93.8	97.7	93.7	92.2	84.1	33.3	28.8	32.9	56.3	35.8
Horse Mackerel	11.4	12.7	7.6	6.5 ^R	5.4	4.8	5.5	3.6	2.8 ^R	2.9
Mackerel	163.8	288.0	248.0	217.6 ^R	226.9	146.3	227.2	159.8	188.5 ^R	203.4
Sardines	4.0	3.9	4.3	9.4	7.6	1.1	1.0	1.6	3.1	2.5
Other Pelagic	5.6	6.5	4.4	5.7	4.5	2.9	3.9	2.0	1.8	1.2
Total Pelagic	292.1	436.6	389.8	369.8^R	394.8	191.4	271.5	206.6	261.2^R	257.2
Cockles	10.1	10.2	11.2	5.1 ^R	6.0	5.3	7.9	5.7	3.6	4.3
Crabs	32.3	36.1	32.6 ^R	36.8 ^R	36.0	43.5	49.8	44.2 ^R	53.0 ^R	62.1
Cuttlefish	3.7	3.1	6.1	5.1	7.1	6.6	6.6	10.7	14.2	25.5
Lobsters	3.0	3.4	3.1	3.3	3.4	30.2	33.8	32.5	39.9 ^R	44.8
Mussels	0.5	0.2	1.0	0.3 ^R	0.7	0.2	0.1	0.8	0.2	0.6
Nephrops	28.5	30.5	25.9	31.5	30.7	87.1	99.5	83.0	103.7	99.2
Scallops	50.1	39.2	41.0	38.9	32.8	63.6	59.3	64.6	74.8	74.3
Shrimps and Prawns	0.9	0.6	0.3	0.8	0.6	2.4	1.4	0.8	3.0	2.6
Squid	4.0	6.9	6.2	4.7	7.5	10.4	14.5	10.9	18.8	25.6
Whelks	20.2	20.1	20.9	22.8	21.1	13.8	16.4	18.7	23.0	23.2
Other Shellfish	2.1	1.2	1.4	1.3	1.4	5.7	4.0	4.3	5.0	6.1
Total Shellfish	155.3	151.6	149.8^R	150.4^R	147.2	268.7	293.1	276.1^R	339.0^R	368.1
Total All Species	626.8	757.9	708.7^R	700.6^R	724.3	741.3	864.1	776.4^R	946.7^R	980.1

Source: Fisheries Administrations in the UK

(a) Landings data include transshipments and exclude landings abroad by foreign vessels.

(b) Includes fish roes and livers.

Information on all landings into the UK, by UK and foreign vessels, going back as far as 1938 is shown in Table 3.7. In 2017, landings of demersal fish were just over a fifth of the quantity landed in 1970. The decline in landings of demersal fish has a number of causes, including reductions in fleet size, declining fish stocks and restricted fishing opportunities. EU and UK regulations have limited demersal fishing activity in recent decades, through decommissioning of fishing vessels, reductions in quotas and fishing effort limits and other provisions of stock management plans.

Landings of pelagic species have fluctuated over the same period but in 2017 were 12 per cent lower than in 1970. Many pelagic species are under stock management plans with quotas set by the European Commission, but pelagic landings have not seen the same reduction as demersal species.

However, since 1970, reported landings of shellfish into the UK have increased by a factor of 2.4. When compared with 1960, the factor rises to 5. The increase in shellfish landings into the UK may partly be explained by diversion of fishing activity into this sector, in which there are often fewer restrictions. For shellfish, quotas currently only apply to nephrops. Another factor in the perceived increase is improved reporting. A large proportion of shellfish landings are made by vessels 10 metres or under in length, for which there is no statutory obligation to complete a fishing logbook or landing declaration. Successive improvements in data collection for this sector in recent years, including the introduction of mandatory reporting of first sales of fish, may account for some of the increase in reported landings.

TABLE 3.7 Landings into the UK by UK and foreign vessels: 1938 to 2017 ^(a)

	1938	1948	1960	1970	1980	1990	2000	2010	2017
Demersal									
Quantity ('000 tonnes)	807.8	923.5	758.8	778.6	484.2	336.7	246.4	149.0	164.8
Value (£ million)	14.6	46.4	52.0	67.5	194.4	327.7	304.3	262.1	320.2
Pelagic									
Quantity ('000 tonnes)	295.0	287.6	127.8	204.0	319.2	267.8	152.1	229.5	180.1
Value (£ million)	2.0	6.0	3.0	5.8	30.1	32.1	23.7	139.3	123.2
Shellfish									
Quantity ('000 tonnes)	32.1	28.7	28.1	56.4	70.2	97.5	127.7	141.0	137.6
Value (£ million)	0.5	1.4	2.1	6.7	34.5	105.1	154.5	250.9	345.9
Total									
Quantity ('000 tonnes)	1,134.9	1,239.8	914.7	1,039.1	873.6	702.0	526.3	519.5	482.5
Value (£ million)	17.2	53.8	57.0	80.0	259.0	464.8	482.5	652.3	789.3

Source: Fisheries Administrations in the UK

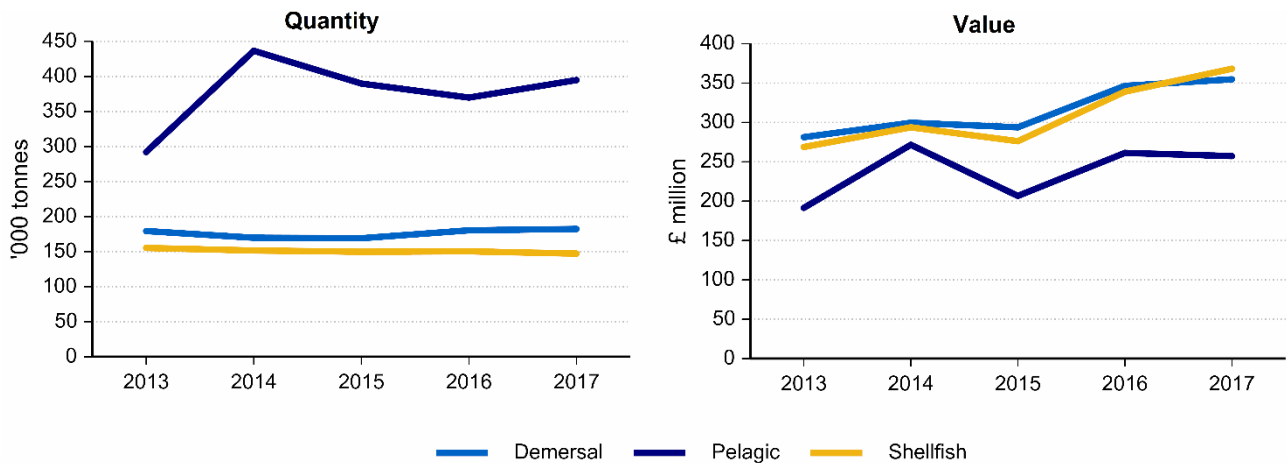
(a) Landing data include transshipments. Blue whiting treated as demersal prior to 1994 and as pelagic from 1994 onwards.

Demersal, pelagic and shellfish landings

In 2017, the UK fleet landed 182 thousand tonnes of demersal species, 1 per cent more than in 2016. Over the same period, the value of demersal landings rose by 2 per cent to £355 million. Although pelagic landings rose by 7 per cent to 395 thousand tonnes, the market value fell by 2 per cent to £257 million. Herring prices in particular were down.

Shellfish landings fell slightly to 147 thousand tonnes but their overall value increased by 9 per cent to £368 million, helped by the rise in the price of crabs, cuttlefish and scallops.

Chart 3.3: Landings into the UK and abroad by UK vessels: 2013 to 2017

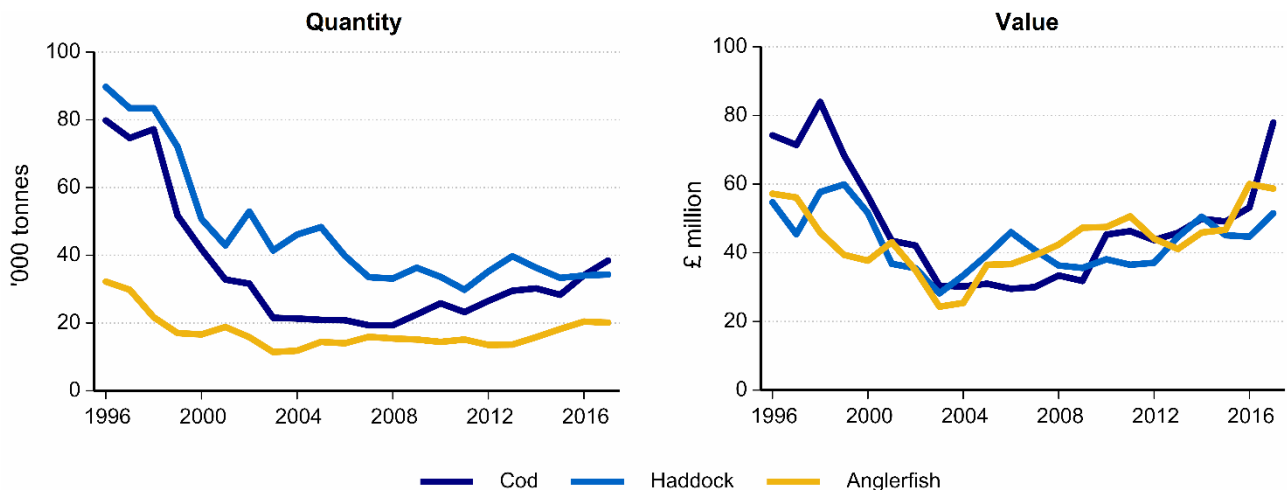


Demersal fish

Cod, haddock and plaice have traditionally been the three main demersal species landed by the UK fleet in terms of weight, accounting for half the quantity of all demersal species landed in 2017 (see Table 3.6). Anglerfish has now overtaken plaice in terms of landings and achieves much higher prices at market.

Cod landings have fallen considerably since 1996 although the 38 thousand tonnes landed in 2017 is the highest since 2000 and the highest of any demersal species. This is a result of increases in some of the quotas for cod stocks. Forty four per cent of landings were made abroad. In 2017, cod was sold for a total value of £78 million.

Chart 3.4: Landings of key demersal species into the UK and abroad by UK vessels: 1996 to 2017

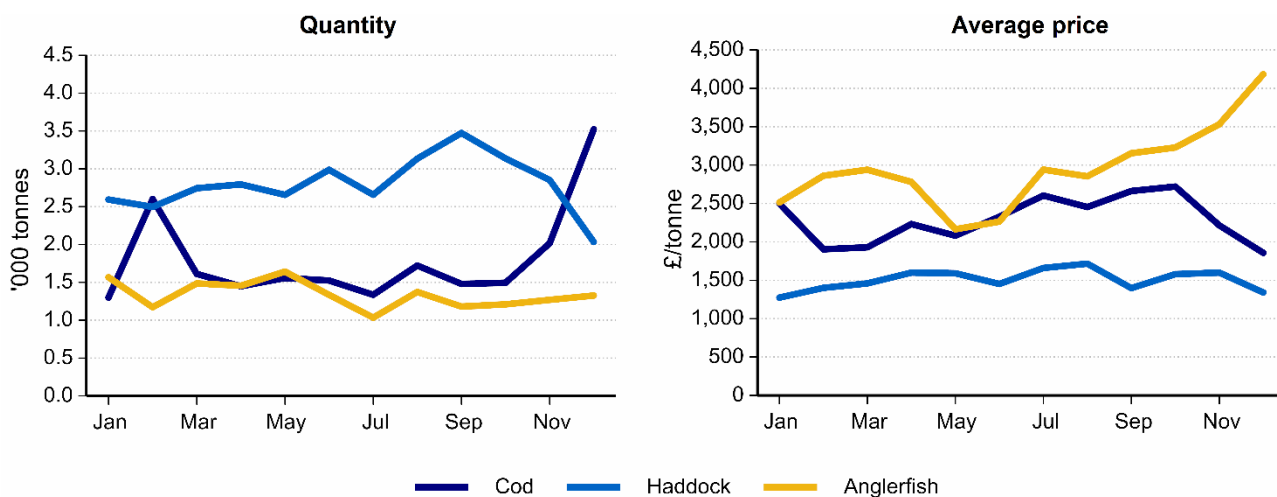


Haddock landings rose ever so slightly while the value increased by 15 per cent to £52 million. Just 2 per cent of haddock landings were made abroad.

Anglerfish replaces plaice in Chart 3.4 as their landings have risen by 40 per cent since 2010 and the value to the UK fleet is the second highest for demersal species. One fifth of all Anglerfish landings were made abroad.

Bass commands the highest price of demersal species landed by the UK fleet – almost £10 per kilo – possibly down to reduced supply following restrictions placed on vessels since 2015.

Chart 3.5: Landings of key demersal species into the UK by UK vessels by month: 2017



Landings of cod by UK vessels into the UK fluctuated between around 1,300 and 3,500 tonnes per month during 2017 (Chart 3.5). The majority of these landings are captured in the North Sea (area IV). Average prices for cod landed into the UK by the UK fleet peaked in October at £2.72 per kilo. The lowest prices (£1.86 per kilo) were achieved in December when supply was at its highest.

Haddock landings by UK vessels into the UK ranged from a peak of 3,500 tonnes in September to a low of 2,000 tonnes in December. The best average price of £1.72 per kilo was achieved in August.

Landings of Anglerfish by UK vessels into the UK peaked in May, when average prices were at their lowest. Prices rose in the second half of the year and were highest in December - £4.18 per kilo.

Chart 3.6 shows that the largest amounts of demersal fish landed abroad by the UK fleet were into Norway and the Netherlands (17 and 14 thousand tonnes respectively). France tops the list of foreign vessels landing into the UK, with 15 thousand tonnes of demersal fish.

Chart 3.6: Landings of demersal species abroad by UK vessels and landings into the UK by foreign vessels: 2017

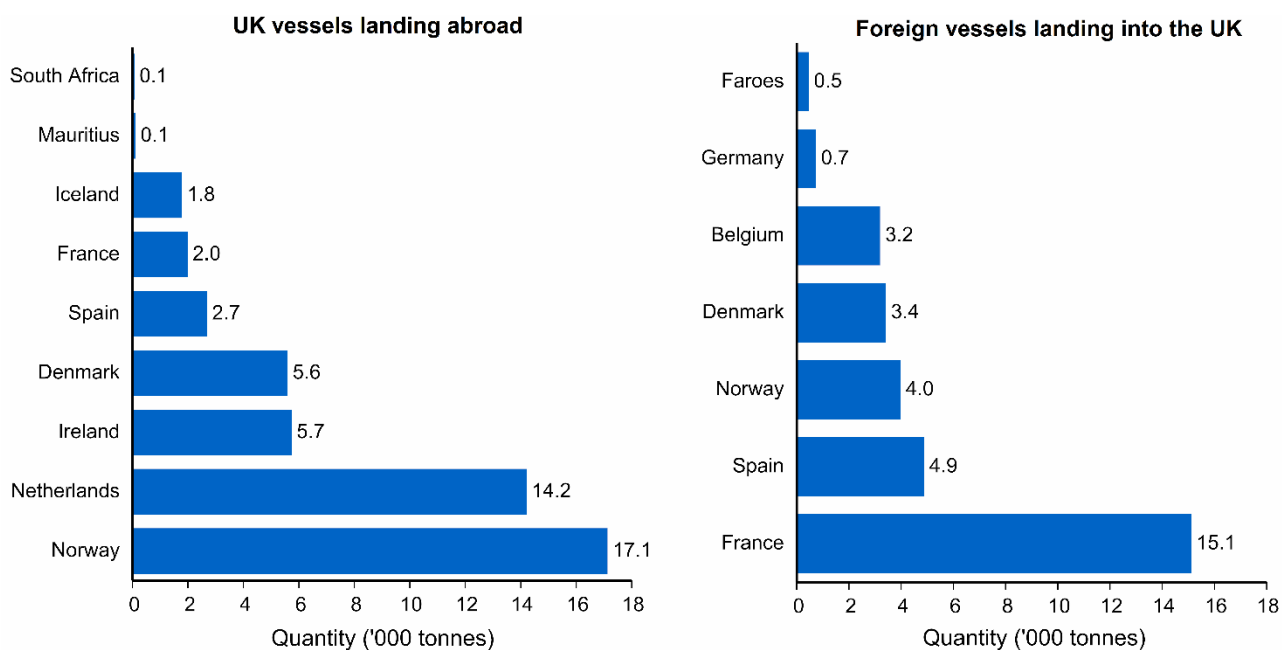


Chart 3.7 shows landings of demersal species by the UK fleet in 2017 by ICES rectangle of capture. Large quantities of demersal species were captured to the north-east of Scotland, in the central North Sea and in the English Channel. These fishing grounds also yielded the highest total value of demersal species per rectangle. However, demersal species with the highest average prices were captured from waters to the south and west of the UK and Ireland, as well as in the southern North Sea.

Chart 3.7: Demersal landings by UK vessels by ICES rectangle: 2017

Chart 3.7a: Quantity of landings by ICES rectangle

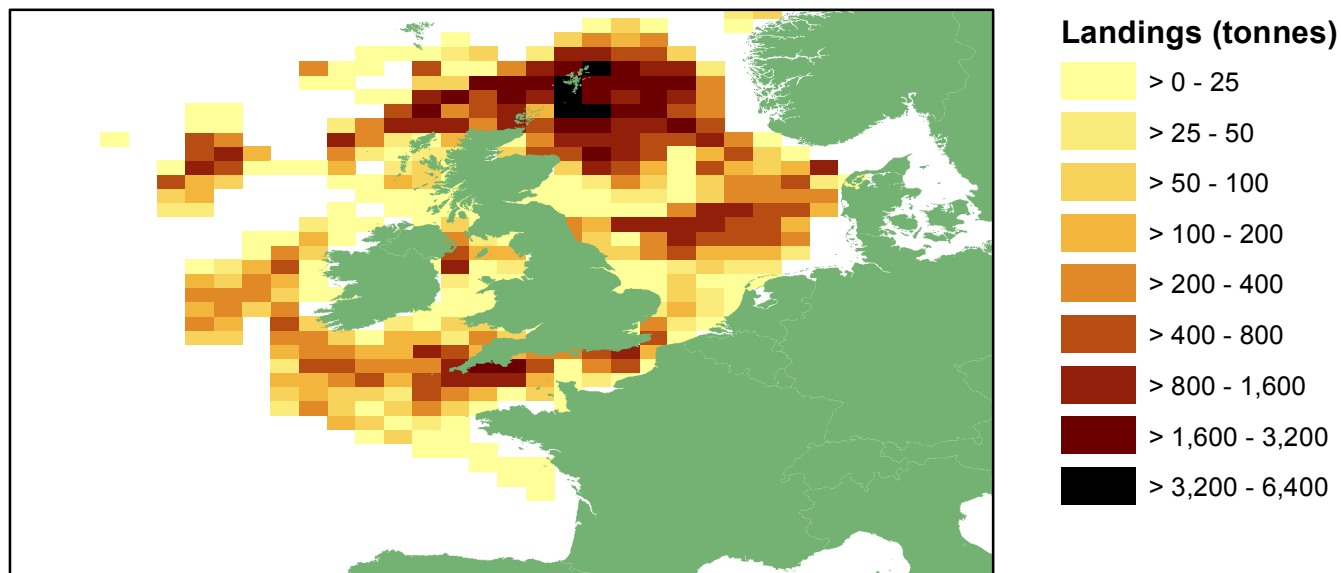


Chart 3.7b: Value of landings by ICES rectangle

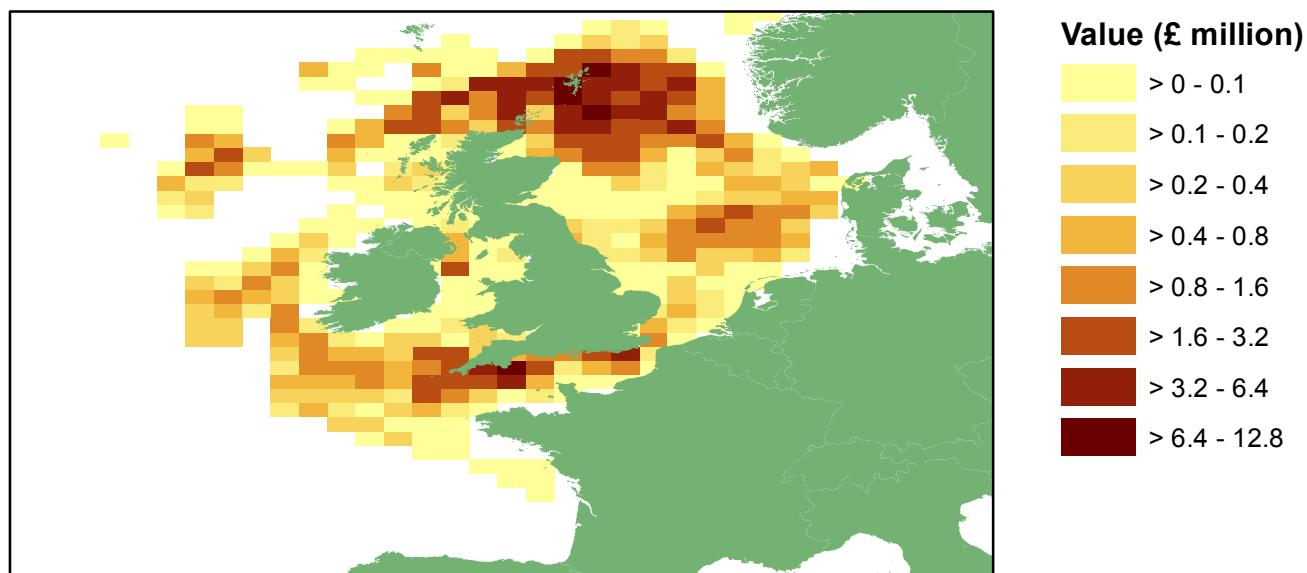
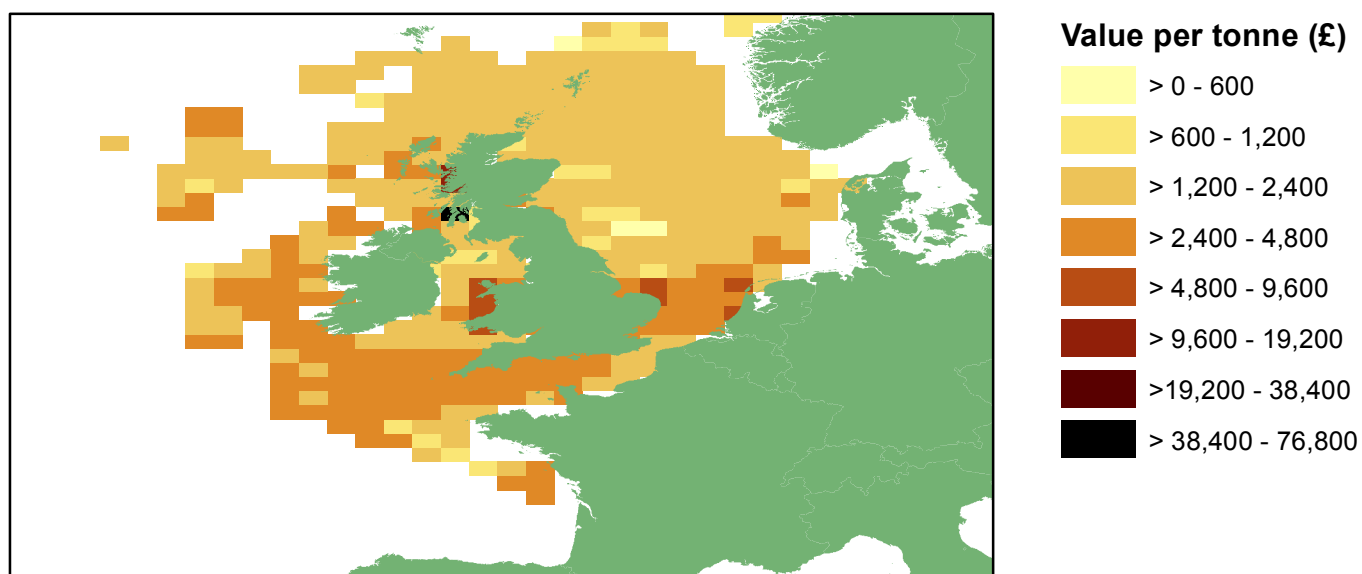


Chart 3.7c: Value of landings per tonne by ICES rectangle



*Note: Legend has been adapted to account for high values and so is not directly comparable with value per tonne charts for years prior to 2016.

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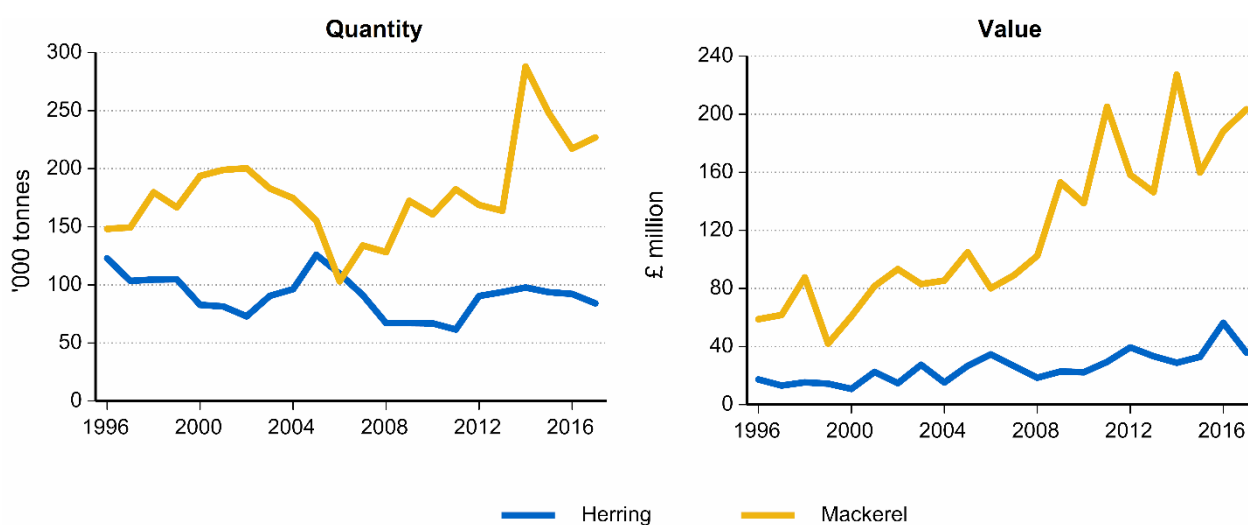
Pelagic fish

Mackerel and herring are the two main pelagic species landed by the UK fleet. These species accounted for 79 per cent by weight and 93 per cent by value of total pelagic landings in 2017. Their share of all UK fleet landings was 43 per cent in 2017, down from 51 per cent in 2014 when mackerel quotas were at their highest.

The UK fleet catches more mackerel than any other species. In 2014, landings of mackerel by UK vessels rose by 76 per cent to 288 thousand tonnes but with reduced quotas fell to 227 thousand tonnes in 2017. Almost three in every five tonnes were landed abroad.

The amount of herring landed by UK vessels has been fairly constant in recent years but fell by 9 per cent in 2017 to 84 thousand tonnes. The greater fall in the value of the herring - by 36 per cent to £36 million in 2017 – indicates a sharp drop in the average price of herring.

Chart 3.8: Landings of key pelagic species into the UK and abroad by UK vessels: 1996 to 2017

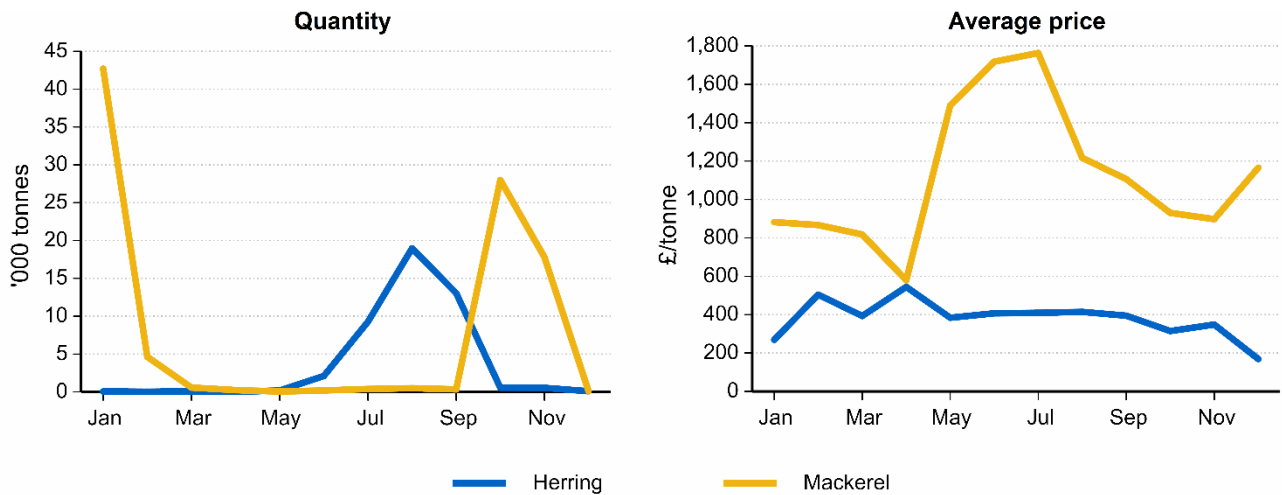


Longer-term trends in mackerel and herring landings by the UK fleet show much fluctuation (see Chart 3.8).

UK fleet landings of sardines fell from 24 thousand tonnes in 2010 (see Sea Fisheries Statistics 2014) to 4 thousand tonnes in 2015 but now stand at 8 thousand tonnes. Landings of blue whiting have increased by a factor of five over the last four years. This species is generally used for fish meal but it is also exported to provide a relatively low priced source of food. Blue whiting provides the pelagic industry with a useful source of income between the mackerel and herring fisheries.

Mackerel has a winter fishery so large landings were seen in January and then later in the year in October and November. Quotas had more or less been exhausted by then and so catches were low in December. Ninety three per cent of all mackerel landings into the UK by the UK fleet in 2017 were in those three peak months. The sources of these two peaks are different: the January peak is derived almost entirely from landings captured off the West of Scotland (area VIa), while the mackerel landings later in the year come from a fishery in the Northern North Sea (area IVa). This fishery tends to attract higher prices.

Chart 3.9: Landings of key pelagic species into the UK by UK vessels by month: 2017



A four month period (June to September) accounts for 97 per cent of herring landed into the UK by the UK fleet. Landings over the summer came primarily from the Northern North Sea (area IVa) and were supplemented in August and September by fisheries in the West of Scotland and the Irish Sea (areas VIa and VIIa).

The largest quantities of pelagic species landed by the UK fleet abroad were into Norway and the Netherlands at 109 and 47 thousand tonnes respectively (Chart 3.10). Irish vessels landed 6 thousand tonnes into the UK in 2017 and Norwegian vessels landed 5 thousand tonnes.

Chart 3.10: Landings of pelagic species abroad by UK vessels and landings into the UK by foreign vessels: 2017

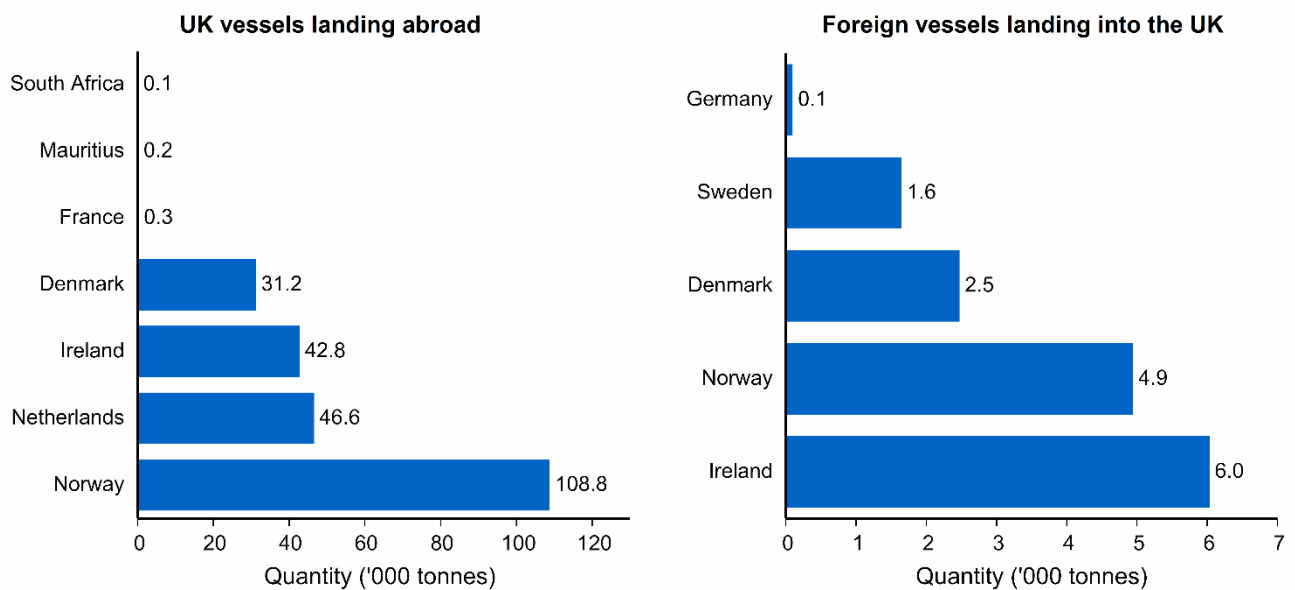


Chart 3.11 shows that large quantities and values of pelagic species were captured from rectangles near Shetland and from the north coast of Scotland down to the north-west coast of Ireland.

Chart 3.11: Pelagic landings by UK vessels by ICES rectangle: 2017

Chart 3.11a: Quantity of landings by ICES rectangle

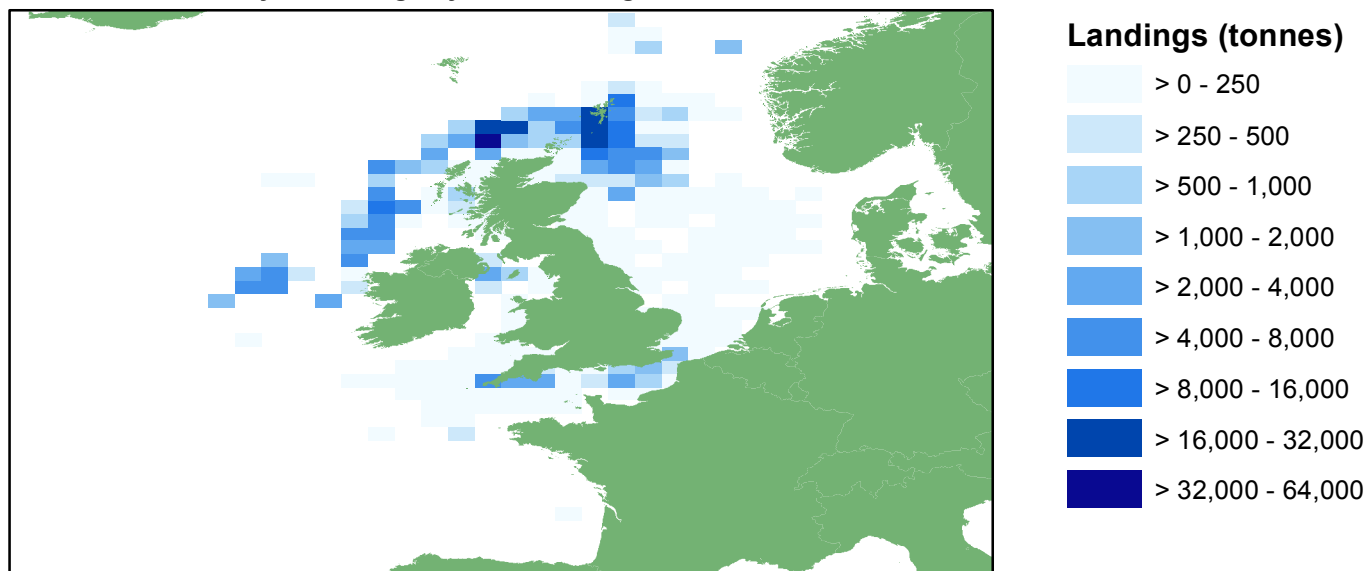


Chart 3.11b: Value of landings by ICES rectangle

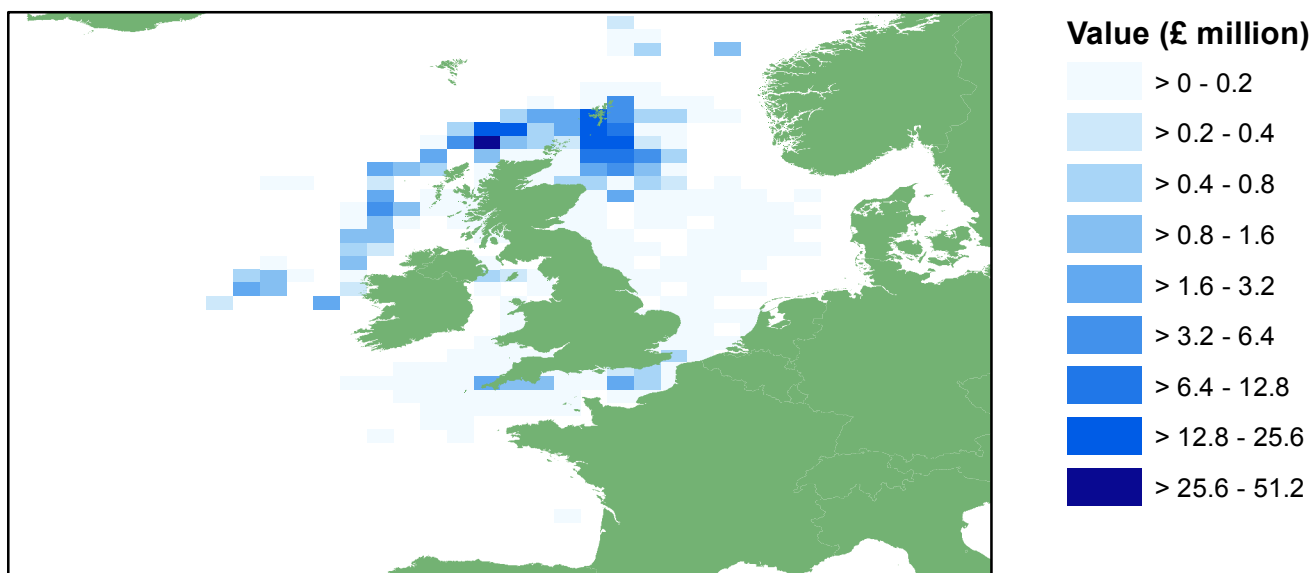
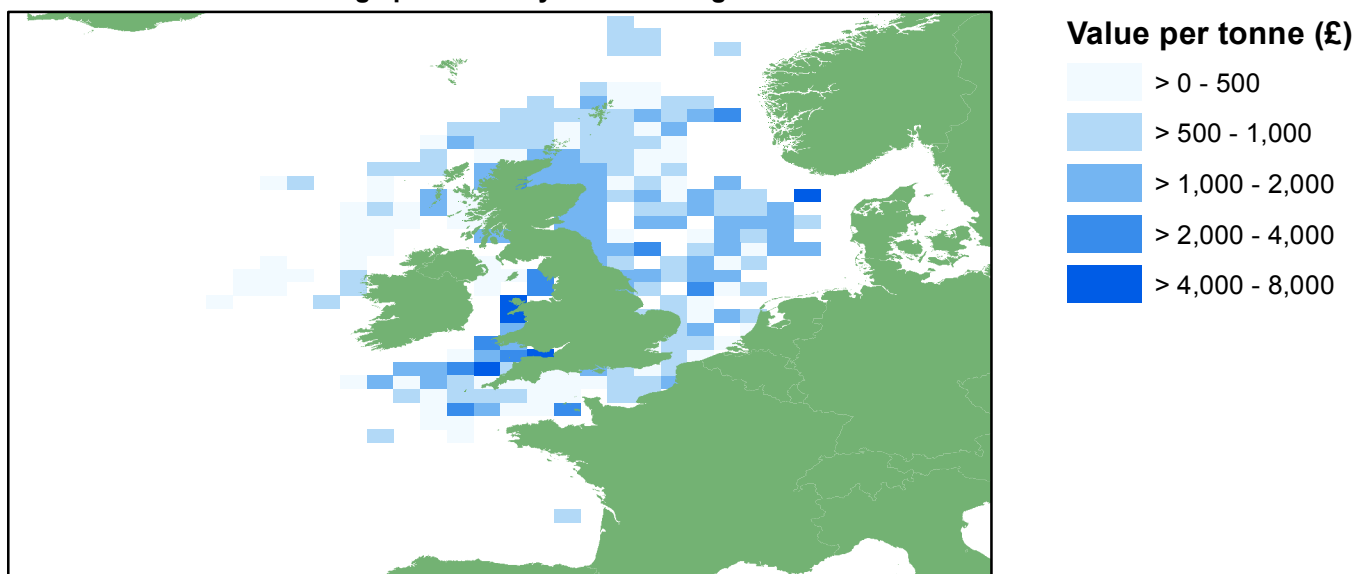


Chart 3.11c: Value of landings per tonne by ICES rectangle



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Shellfish

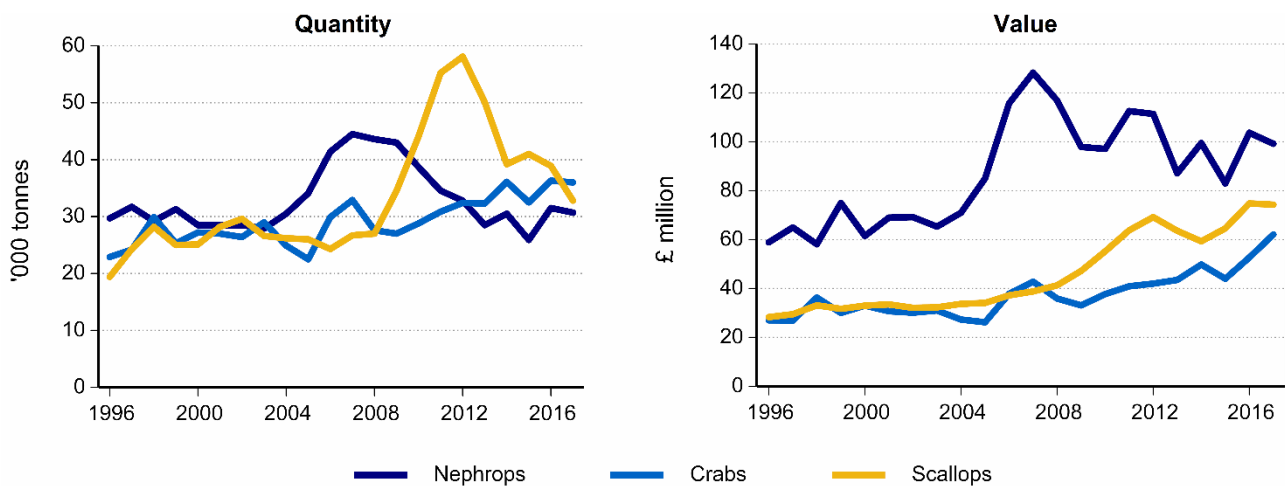
Crabs, scallops and nephrops (langoustines) are the three main species of shellfish landed by UK vessels into the UK and abroad, accounting for around two thirds of the quantity and value landed in 2017.

Landings of crabs by the UK fleet totalled 36 thousand tonnes with a value of £62 million. Around 15 per cent of these landings were outside the UK. Overall, landings of crabs by the UK fleet have increased since 1996 although this could be down to better recording of shellfish catches.

Scallop landings more than doubled between 2008 and 2012, rising to a peak of 58 thousand tonnes. But landings have fallen in recent years to 33 thousand tonnes as some vessels have diversified into other fisheries. Very little was landed abroad.

Nephrops landings stood at 31 thousand tonnes and £99 million. Almost all of this was landed into the UK. Nephrops are not as abundant as they have been and landings by the UK fleet have fallen back in recent years.

Chart 3.12: Landings of key shellfish species into the UK and abroad by UK vessels: 1996 to 2017



For other shellfish species:

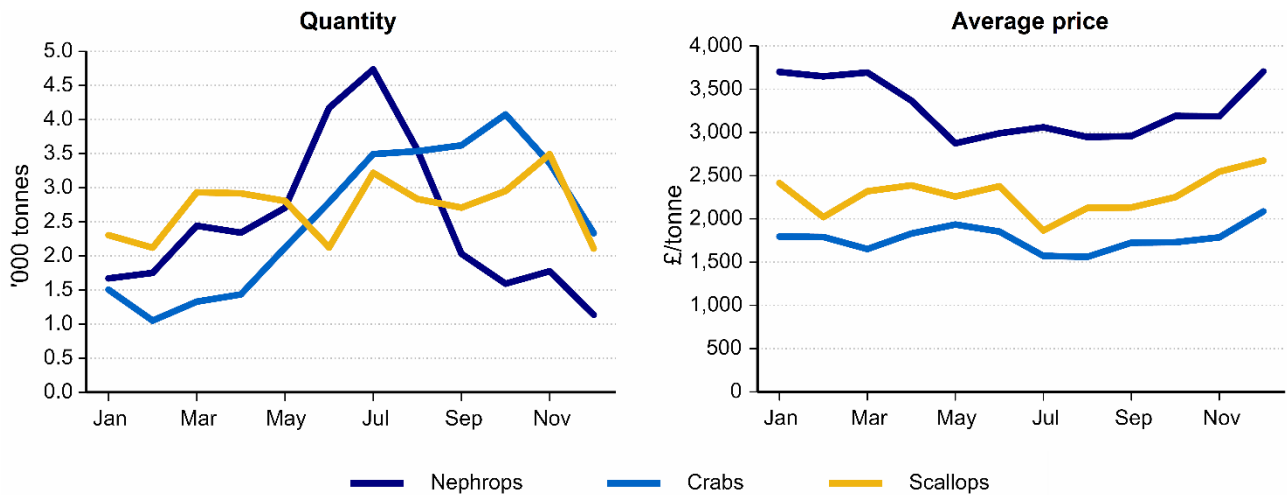
- Lobsters commanded the highest average price of all species landed by the UK fleet at over £13 a kilo in 2017. While lobsters accounted for only 2 per cent of the weight of shellfish landings by the UK fleet, they formed 12 per cent of the value.
- Landings of cuttlefish have almost doubled in the last four years to 7 thousand tonnes. Over this period, the average price has doubled as well.

Landings of crab by the UK fleet into the UK went from a low of 1,100 tonnes in February and rose steadily to a peak of 4,100 tonnes in October. Typical prices were around £1.80 per kilo.

Landings of scallops were highest in November (3,500 tonnes) and were lowest in the following month (2,100 tonnes). Typical prices were around £2.30 per kilo.

The largest landings of nephrops occurred during summer months with average prices over the period of around £3.00 per kilo.

Chart 3.13: Landings of key shellfish species into the UK by UK vessels by month: 2017



Only 8 thousand tonnes of shellfish were landed abroad by the UK fleet, with an even smaller amount - 1,400 tonnes - landed by foreign vessels into the UK in 2017. Chart 3.14 shows the largest amounts of shellfish landed abroad by the UK fleet were into Ireland (4 thousand tonnes). They, in return, landed the largest amount of any country into the UK (700 tonnes, of mostly scallops).

Chart 3.14: Landings of shellfish species abroad by UK vessels and landings into the UK by foreign vessels: 2017

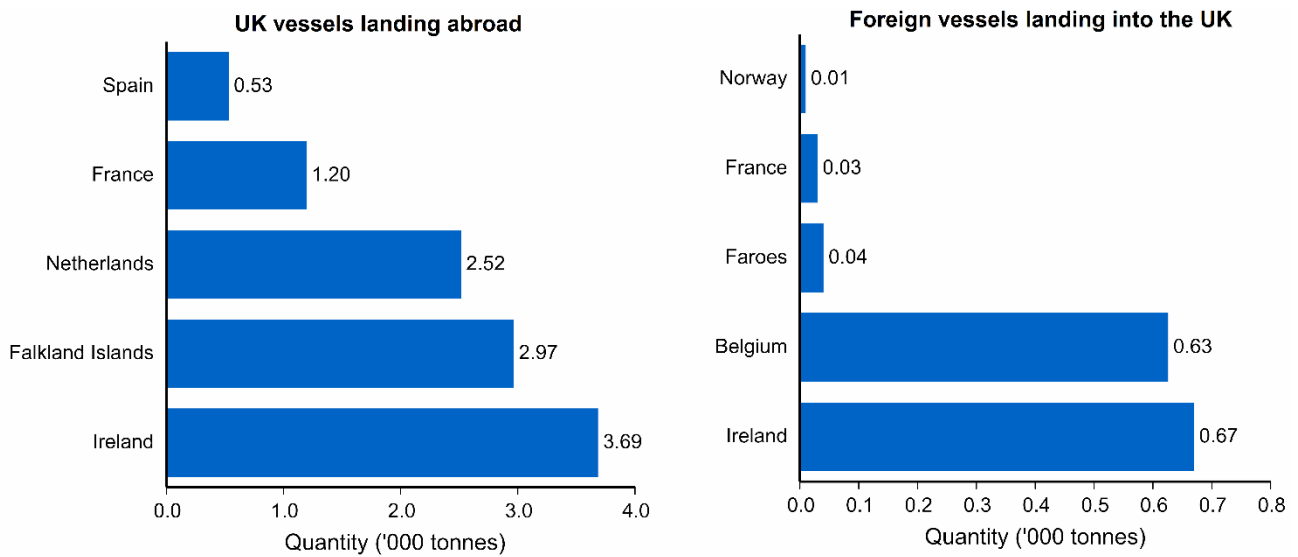
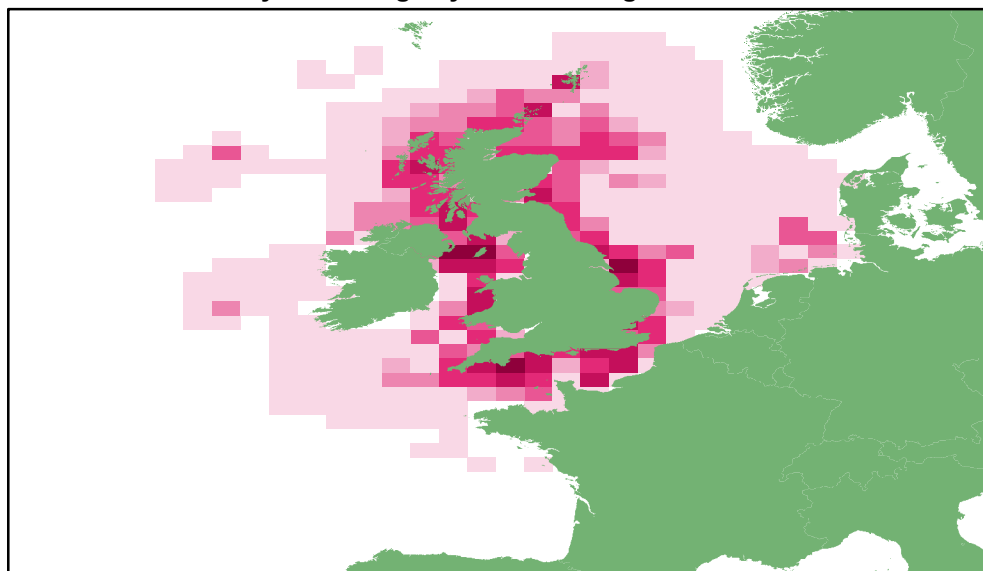


Chart 3.15 shows landings of shellfish by the UK fleet in 2017 by ICES rectangle of capture. In 2017, both the largest quantity and value of shellfish were captured in rectangles relatively close to the coast of the UK. However, shellfish species with high prices were typically captured in rectangles away from coastal areas.

Chart 3.15: Shellfish landings by UK vessels by ICES rectangle: 2017

Chart 3.15a: Quantity of landings by ICES rectangle



Landings (tonnes)

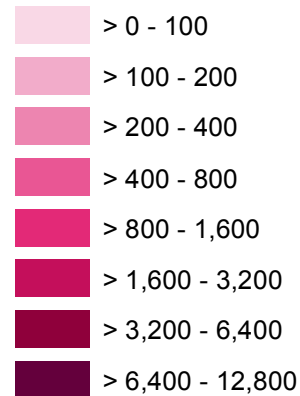
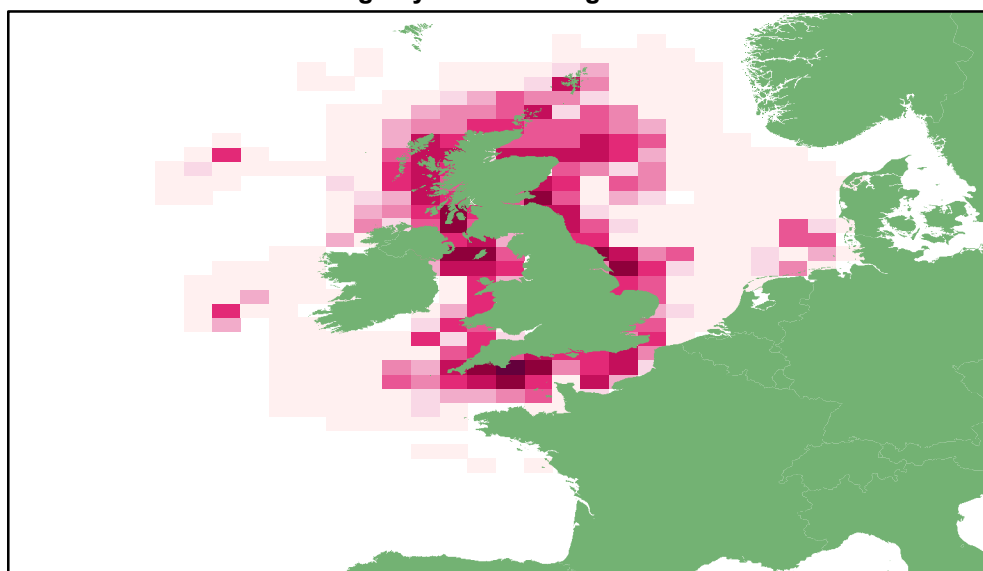


Chart 3.15b: Value of landings by ICES rectangle



Value (£ million)

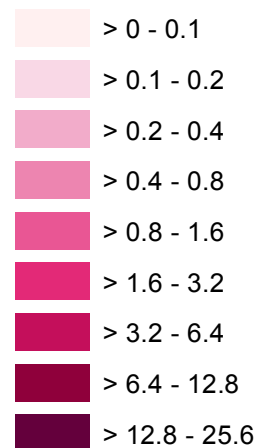
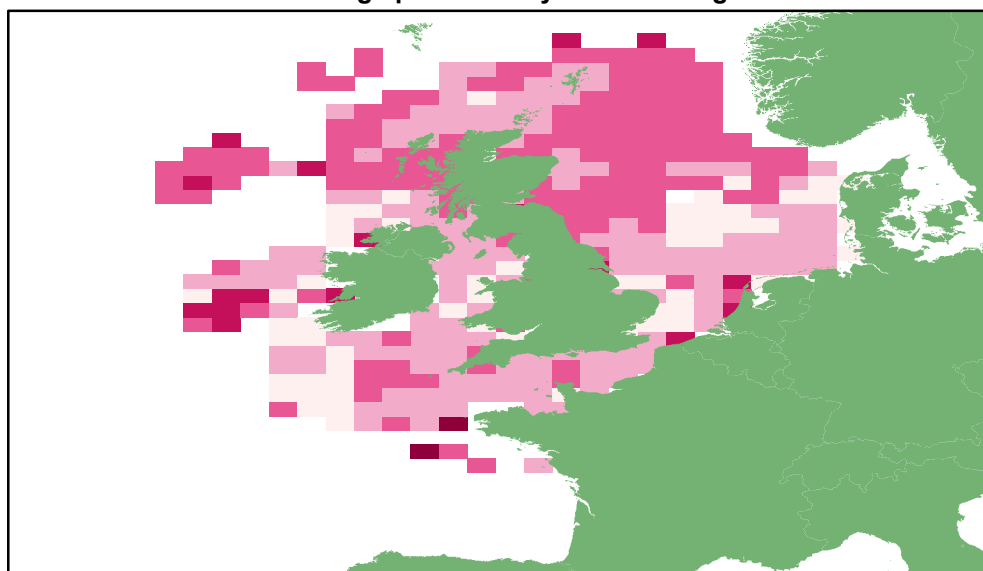
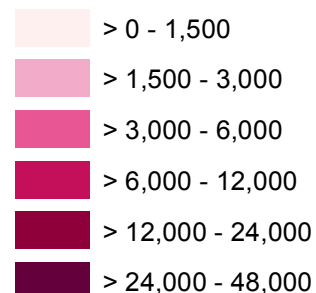


Chart 3.15c: Value of landings per tonne by ICES rectangle



Value per tonne (£)



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Landings into major ports by the UK fleet

Chart 3.16 shows the top twenty UK ports based on the quantity and value landed by UK vessels in 2017. Peterhead remains the port with by far the highest landings - 151 thousand tonnes, with a value of £167 million. Lerwick is still in second place with 40 thousand tonnes, although this is down by 11 thousand tonnes on 2016 landings. Fraserburgh remains third highest with landings of 26 thousand tonnes.

In 2017, Brixham was the port with the largest quantity and value of landings in England (15 thousand tonnes, £41 million), followed by Newlyn (14 thousand tonnes, £30 million). Both ports' landings comprise mainly high value shellfish and demersal species. Next came Plymouth (11 thousand tonnes, £16 million) where the majority of landings are relatively low value pelagic fish.

Chart 3.16: Landings into the top 20 UK ports by UK vessels: 2017

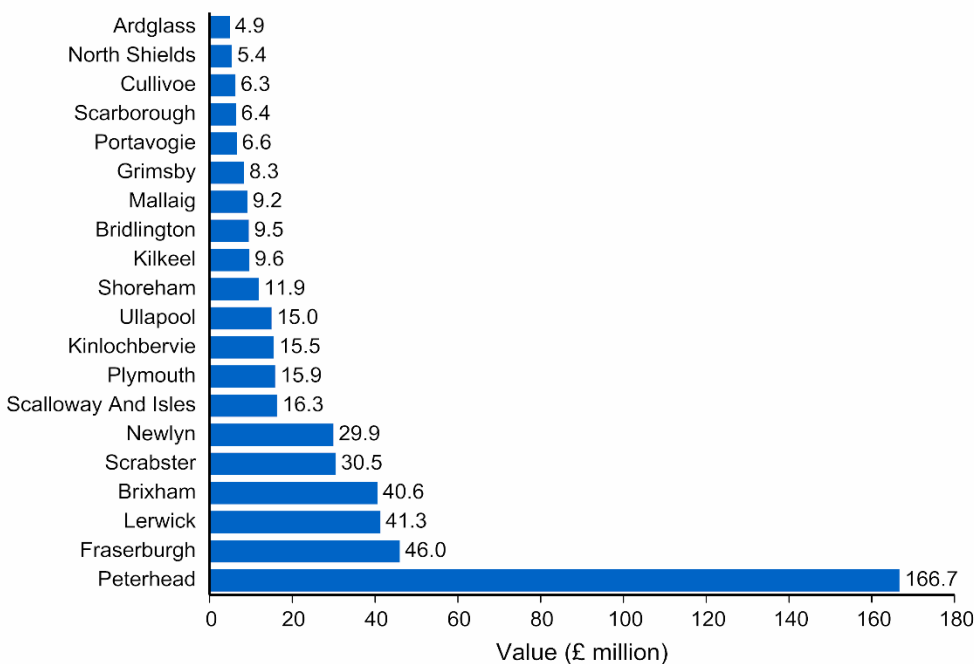
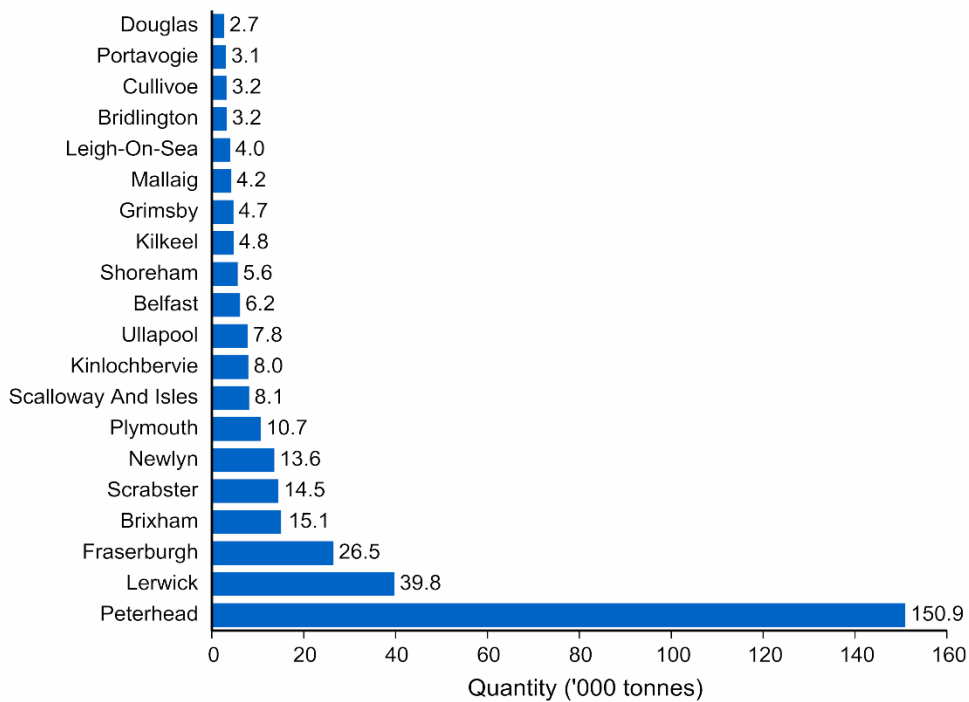
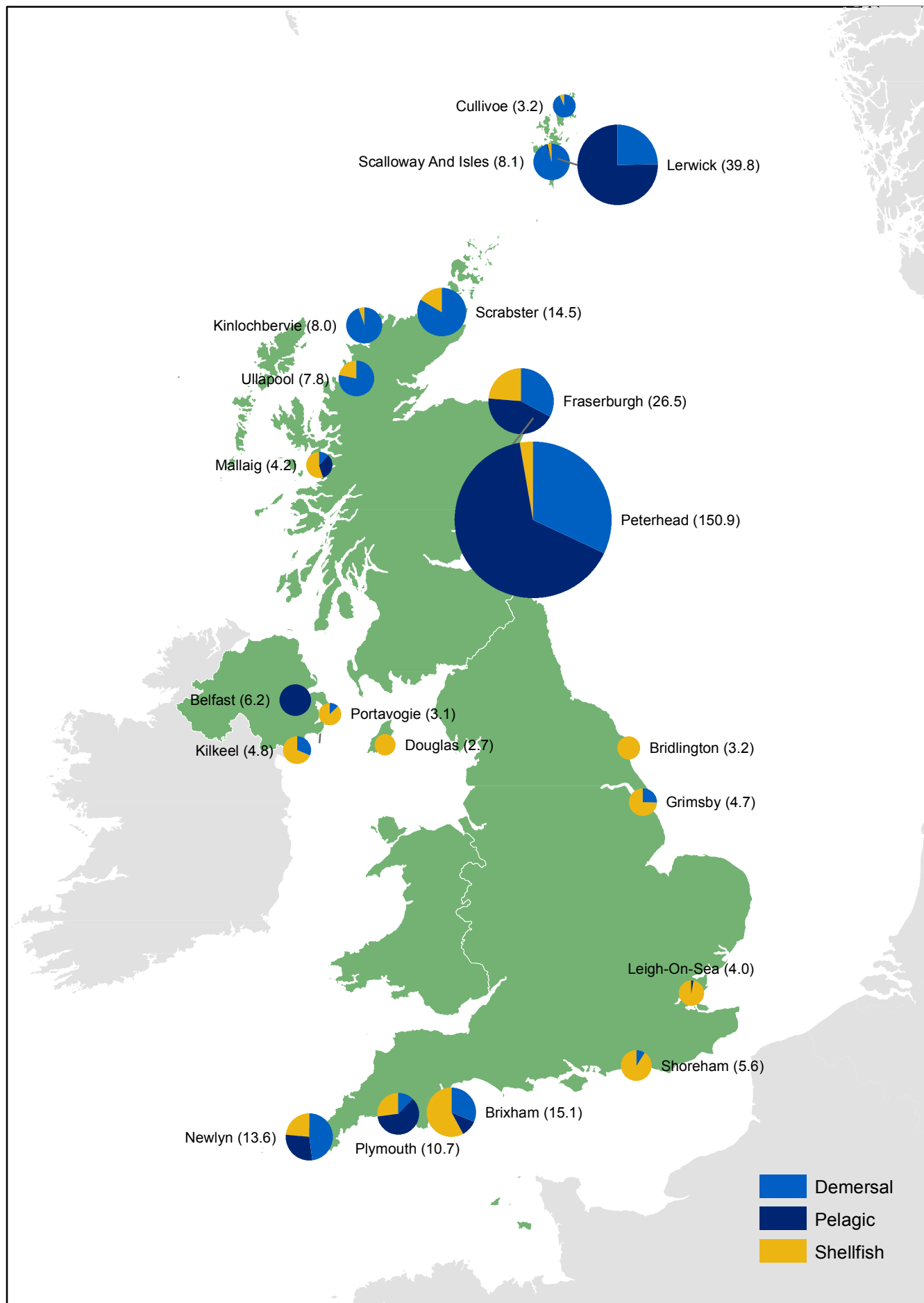


Chart 3.17: Landings into the top 20 UK ports^(a) by UK vessels by species type: 2017 ('000 tonnes)



^(a) Shows the top 20 major ports based on the quantity of fish landed by UK vessels at each port in 2017. Contains Collins Bartholomew data. © Collins Bartholomew copyright and database right 2017.

The difference in species composition of landings is illustrated in Chart 3.17. The relatively low value per tonne of landings into Peterhead, Lerwick, Fraserburgh and Plymouth is because these are ports which specialise in relatively lower value pelagic species. These four ports alone account for 89 per cent of all UK landings of pelagic species into the UK.

Landings into the top three ports in Scotland account for 72 per cent of all landings by UK vessels into Scotland by quantity. In contrast, landings into Plymouth, Brixham and Newlyn form only 40 per cent of landings into England, with remaining landings more evenly spread around the English coast. The low number of English ports in Charts 3.16 and 3.17 is explained by the broad distribution of landings across English ports.

Landings abroad by the UK fleet

In 2017, UK vessels landed 290 thousand tonnes of fish abroad. Of this, 126 thousand tonnes of mostly mackerel and herring were landed into Norway. Sixty three thousand tonnes were landed by UK vessels into the Netherlands and 52 thousand tonnes into Ireland. A small sector of the UK registered fishing fleet is in Dutch economic ownership; landings by these vessels contribute to the large quantities of fish landed into the Netherlands. Chart 3.18 shows the quantity of fish landed into each country, where this exceeds one thousand tonnes.

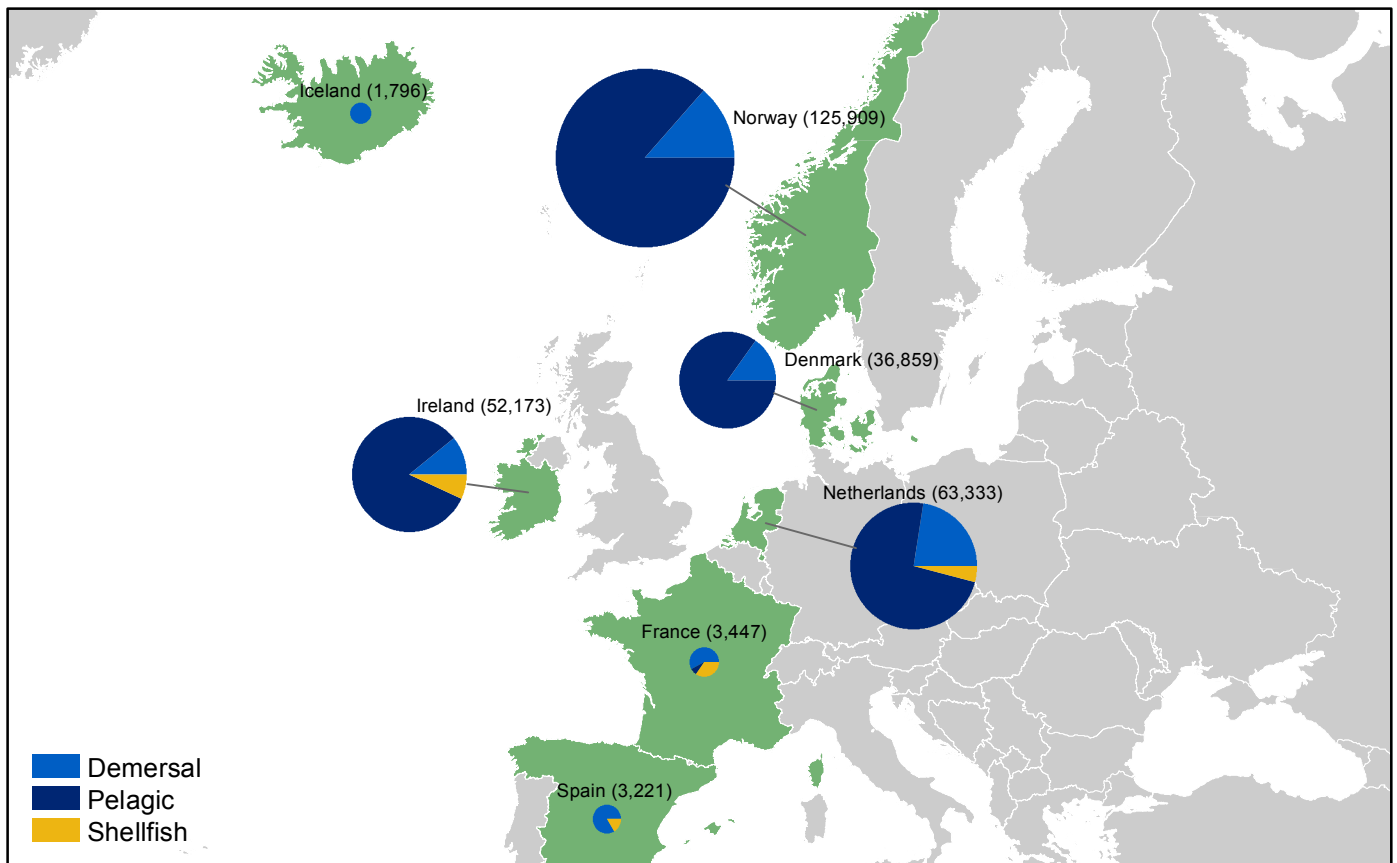
Seventy nine per cent of fish landed abroad by UK vessels were pelagic and 17 per cent were demersal. Different countries receive different species: the majority of fish landed into the Netherlands, Ireland and Denmark were pelagic while most fish landed into France and Spain were demersal. Almost all landings into the Falkland Islands were squid. The species landed into each country is typically determined by market conditions and consumer tastes.

Landings into the UK by foreign vessels

In 2017, 48 thousand tonnes of fish were landed into the UK by foreign vessels, down 5 thousand tonnes on 2016, largely a result of a decrease in herring landings. Chart 3.19 shows the quantities landed by vessel nationality, where these exceed one thousand tonnes.

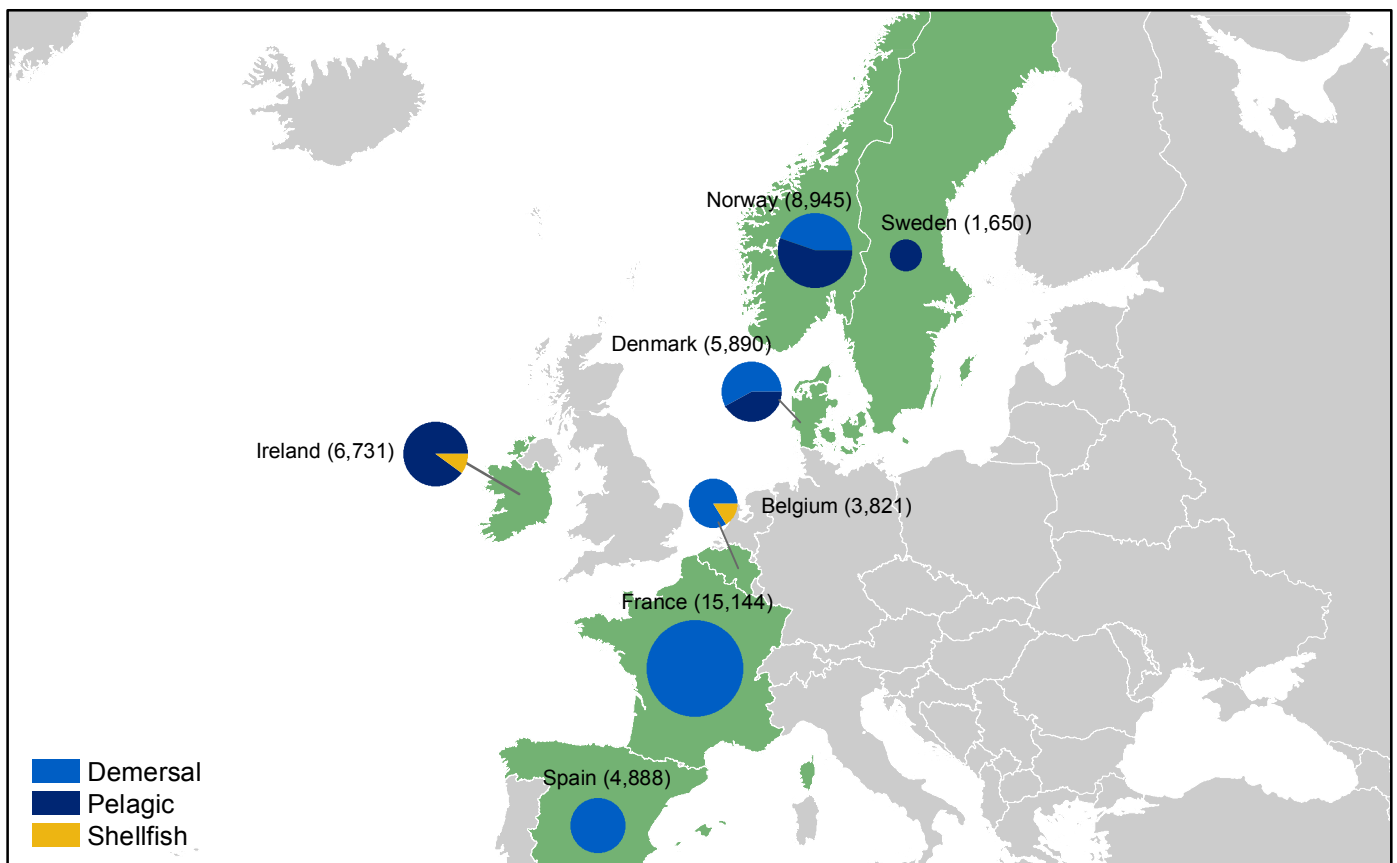
French and Norwegian registered vessels landed the largest quantity of fish into the UK in 2017 (15 and 9 thousand tonnes respectively). Two thirds of all fish landed into the UK are demersal with the large majority of the remainder being pelagic.

Chart 3.18: Landings abroad by UK vessels by country of landing: 2017 (tonnes)



Note: Only landings over 1,000 tonnes are shown. Excludes Falklands Islands (3,007 tonnes).

Chart 3.19: Landings into the UK by foreign vessels by vessel nationality: 2017 (tonnes)



Note: Only landings over 1,000 tonnes are shown.

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Landings by the UK fleet by area of capture

Table 3.8 and Chart 3.20 show that 38 per cent (276 thousand tonnes) of the quantity of fish landed by UK vessels in 2017 was caught in the Northern North Sea (area IVa). There has been a large shift to the West of Scotland (area VIa) where landings have increased from 153 thousand tonnes in 2015 to 198 thousand tonnes in 2017. Landings from the English Channel (area VIId/e) were 61 thousand tonnes.

Different sea areas yield different proportions of species. The North Sea (areas IVa, IVb and IVc) provided 60 per cent of the demersal fish landed by the UK fleet, while the Northern North Sea and the West of Scotland were the source of 83 per cent of pelagic fish landed by UK vessels in 2017. The Irish Sea (area VIIa), the West of Scotland and the English Channel provided 56 per cent of the shellfish landed by the UK fleet. Typically, shellfish landings form a high proportion of landings from enclosed sea areas with large coastal stretches (Irish Sea, Bristol Channel, English Channel and the Southern North Sea), while pelagic species form the majority of landings from open waters such as the West of Scotland, Northern North Sea, West of Ireland (area VIIb) and Porcupine Bank (area VIIc).

TABLE 3.8 Landings into the UK and abroad by UK vessels by area of capture: 2017

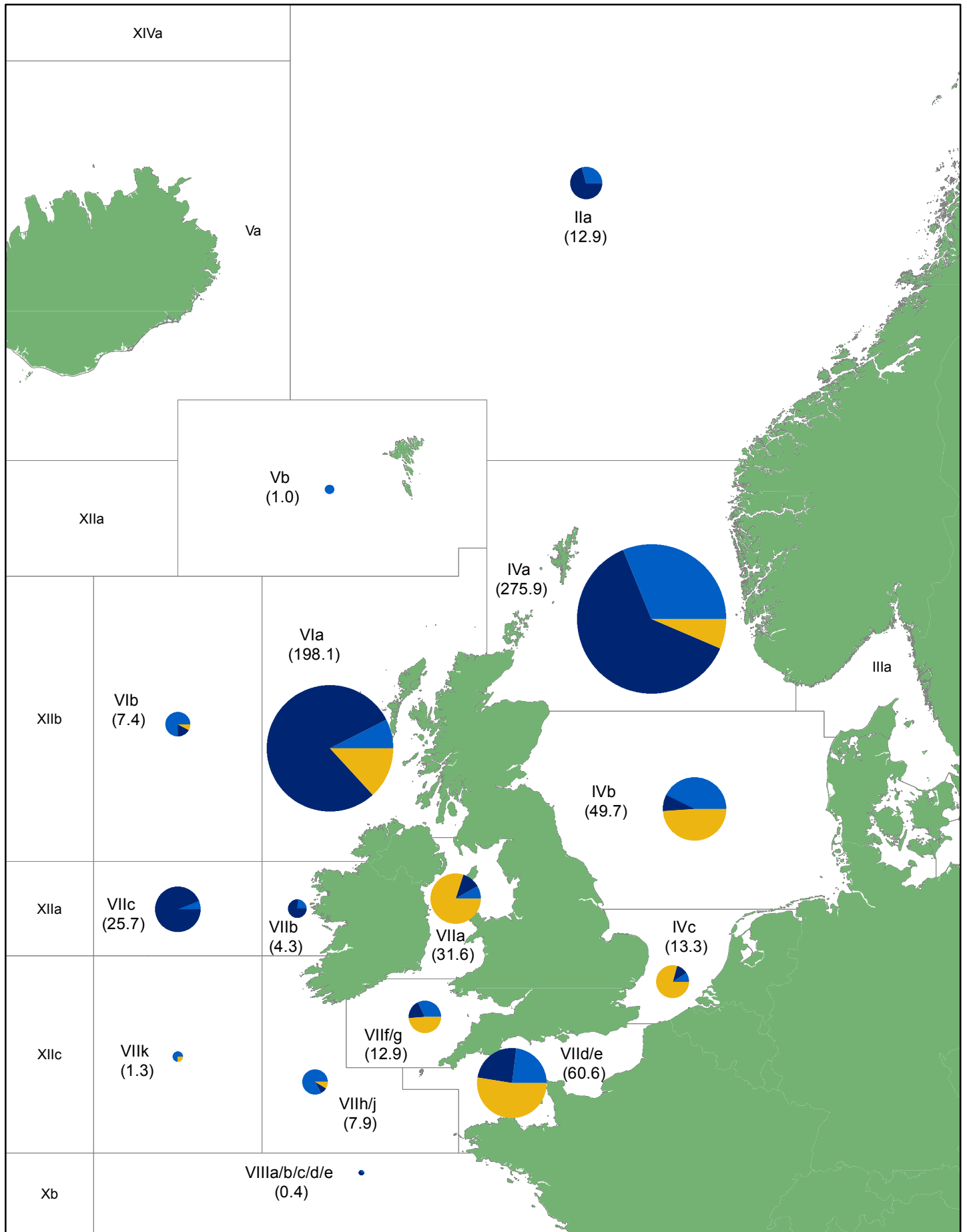
	Demersal		Pelagic		Shellfish		Total	
	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)
Barents Sea/Murman Coast (I)	8.6	14.8	-	-	-	-	8.6	14.8
Norwegian Coast (IIa)	3.8	6.2	9.1	6.0	-	-	12.9	12.2
Bear Island & Spitzbergen (IIb)	5.8	10.1	-	-	-	-	5.8	10.1
Skagerrak and Kattegat (IIIa)	-	-	-	-	-	-	-	-
Northern North Sea (IVa)	86.2	161.0	171.9	124.6	17.8	52.0	275.9	337.5
Central North Sea (IVb)	21.3	29.1	4.1	2.5	24.3	73.8	49.7	105.3
Southern North Sea (IVc)	1.2	3.6	1.5	0.9	10.5	12.4	13.3	16.9
Faroes (Vb)	1.0	2.0	..	..	..	..	1.0	2.0
West of Scotland (VIa)	14.8	27.8	157.2	105.8	26.1	73.1	198.1	206.7
Rockall (VIb)	5.5	10.2	1.3	0.2	0.6	2.1	7.4	12.5
Irish Sea (VIIa)	2.6	3.6	3.7	1.3	25.3	46.6	31.6	51.5
West of Ireland (VIIb)	1.0	3.0	3.2	2.6	..	..	4.3	5.6
Porcupine Bank (VIIc)	1.6	3.8	24.1	4.8	0.1	0.4	25.7	8.9
English Channel (VIId/e)	14.0	41.7	14.9	6.8	31.8	79.1	60.6	127.7
Little/Great Sole Bank (VIIh/j)	6.6	18.7	0.7	0.4	0.7	1.6	7.9	20.7
West of Great Sole Bank (VIIk)	1.0	2.2	..	-	0.3	2.2	1.3	4.4
Rest of ICES area VII (VIIl/g)	4.1	11.8	2.5	1.1	6.3	14.9	12.9	27.8
Bay of Biscay (VIII)	0.1	0.3	0.2	0.2	..	..	0.4	0.5
East Coast of Greenland (XIV)	1.8	2.9	-	-	..	0.1	1.8	3.0
North Azores (XII)	..	..	-	-	..	..	..	..
Other Areas ^(a)	1.4	1.9	0.3	0.1	3.4	9.9	5.1	12.0
Total UK	182.3	354.7	394.8	257.2	147.2	368.1	724.3	980.1

Source: Fisheries Administrations in the UK

(a) Includes areas outside ICES areas such as the Indian Ocean and the North West and South West Atlantic.

Note: Additional data on UK vessel landings are available for download from the MMO website as supplementary Table 3.8a.

Chart 3.20: Landings into the UK and abroad by UK vessels by area of capture: 2017 ('000 tonnes)



Key to fishing areas follows on the next page. Landings from ICES areas I, IIb, XII and XIV are excluded from chart but can be found in Table 3.8. Contains Collins Bartholomew and ICES data. © Collins Bartholomew copyright and database right 2017. ICES Statistical Areas dataset 2010. ICES, Copenhagen

Key to fishing areas

I. Barents Sea and Murman Coast

II. Northward of the Norwegian Coast

IIa. Norwegian Coast

IIb. Bear Island and Spitzbergen

III. Skagerrak, Kattegat, The Sound, Belts and Baltic

IIIa. Skagerrak and Kattegat

IV. North Sea

IVa. Northern North Sea

IVb. Central North Sea

IVc. Southern North Sea

V. Iceland and Faroes

VI. West of Scotland and Rockall

VIa. West of Scotland

VIb. Rockall

VII. West of Ireland and Channels

VIIa. Irish Sea

VIIb. West of Ireland

VIIc. Porcupine Bank

VIIId, VIIe. English Channel (East, West)

VIIIf, VIIg. Bristol Channel, South East of Ireland

VIIh, VIIj. Little Sole Bank, Great Sole Bank

VIIk. West of Great Sole Bank

VIII. Biscay

Landings by the UK fleet by sector

Eighty seven per cent of the quantity of all landings by the UK fleet in 2017 was landed by vessels in a producer organisation. Table 3.9 shows the quantity and value of landings by the different sectors of the UK fleet.

Vessels in the Scottish FPO accounted for 19 per cent of the quantity and 17 per cent of the value of fish landed by the UK fleet (138 thousand tonnes, £171 million).

There is clear specialisation among producer organisations with regard to species targeted. For example, vessels in North Atlantic FPO, Lunar Group, Interfish and Klondyke primarily target pelagic species.

Over a third of UK vessels over 10 metres in length were in the non-sector (vessels without producer organisation membership). These vessels typically have limited access to fishing quota and primarily target shellfish species, which are mostly non-quota stocks. In 2017 they caught a third of all shellfish landed by the UK fleet. Vessels in the non-sector landed only small quantities of demersal and pelagic species.

TABLE 3.9 Landings into the UK and abroad by UK vessels by sector: 2017 ^(a)

	Demersal		Pelagic		Shellfish		Total	
	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)
Scottish FPO Ltd	39.1	67.7	85.0	57.6	14.3	45.8	138.4	171.1
Shetland FPO Ltd	16.6	32.2	76.4	51.4	0.8	2.6	93.8	86.2
Lunar Group	2.8	5.1	66.7	35.4	..	..	69.6	40.5
Klondyke	-	-	45.8	29.5	-	-	45.8	29.5
Interfish	0.6	2.3	42.8	30.7	..	1.0	43.7	34.0
North Atlantic FPO Ltd	..	0.8	39.6	25.3	..	..	40.0	26.1
Anglo Northern Irish FPO Ltd	0.8	1.1	21.8	18.6	3.1	7.5	25.7	27.3
South Western FPO Ltd	4.5	15.2	4.3	1.3	14.8	33.9	23.6	50.4
The FPO Ltd	23.1	38.2	..	..	..	..	23.3	38.6
Northern Ireland FPO Ltd	5.4	8.9	4.5	3.0	8.5	21.6	18.4	33.5
Cornish FPO Ltd	11.1	27.4	2.5	0.8	4.7	15.2	18.3	43.4
North East of Scotland FO Ltd	13.0	23.8	..	..	1.6	5.9	14.7	29.7
Eastern England FPO Ltd	10.1	19.0	..	..	1.2	3.6	11.3	22.6
Fife FPO Ltd	5.4	8.6	..	..	4.9	12.5	10.5	21.3
Fleetwood FPO Ltd	8.7	20.3	..	..	..	..	9.1	20.6
North Sea FPO Ltd	7.0	11.6	..	..	1.4	4.0	8.5	15.5
Aberdeen FPO	7.0	12.7	..	..	..	1.3	7.4	14.1
Anglo Scottish FPO Ltd	4.6	7.4	..	..	2.3	6.8	6.9	14.2
Northern Producers Organisation Ltd	4.5	7.7	..	..	1.2	3.1	5.9	10.9
Lowestoft FPO Ltd	4.4	8.0	..	..	..	0.6	4.7	8.7
Orkney FPO Ltd	3.0	5.9	-	-	1.6	3.7	4.6	9.6
West of Scotland FPO Ltd	..	..	1.5	..	2.4	7.9	4.2	8.7
Wales and West Coast FPO Ltd	4.0	11.8	-	-	..	..	4.1	12.0
Isle of Man Non-Sector	..	..	-	-	2.4	4.7	2.4	4.7
Non-sector vessels	0.5	1.3	..	..	46.6	97.4	47.2	98.7
10m and under pool	5.3	17.1	2.9	2.9	33.9	88.2	42.2	108.3
Commercial non-vessel landings	-	-	-	-	-	-	-	-
Total All Sectors	182.3	354.7	394.8	257.2	147.2	368.1	724.3	980.1

Source: Fisheries Administrations in the UK

(a) Landings by vessels 10 metres and under with membership of a producer organisation are attributed to that organisation and not the 10m and under pool

Vessels 10 metres and under in length without producer organisation membership (the '10m and under pool') also landed relatively small quantities of demersal and pelagic species. Four fifths of their catch is shellfish. The fishing methods used by this sector and the different species targeted mean that they typically gain higher than average prices for their catch.

Landings by the UK fleet by vessel length

Seventy four per cent of the quantity of landings by the UK fleet in 2017 was caught by vessels over 24 metres in length (see Table 3.10). At the end of 2017, these vessels constituted just 4 per cent of the UK fleet by number, yet their landings of pelagic species formed 97 per cent of the annual total for the UK fleet.

Ninety three per cent of all landings of demersal species by the UK fleet were by vessels over 18 metres in length. In contrast, landings of shellfish are much more evenly distributed across the fleet, with vessels 10 metres and under in length (including those in producer organisations) accounting for 24 per cent of the quantity of landings.

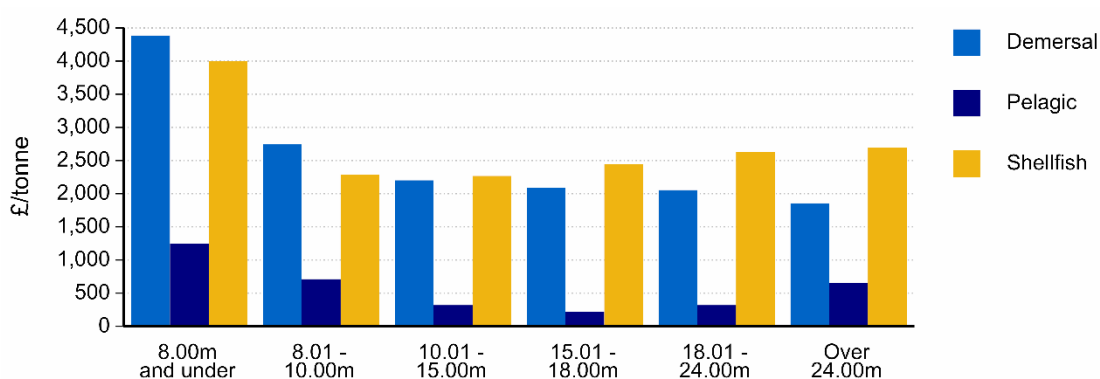
TABLE 3.10 Landings into the UK and abroad by UK vessels by vessel length: 2017

Overall Length	Demersal		Pelagic		Shellfish		Total	
	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)
8.00m and under	1.4	6.2	1.6	2.0	6.5	25.9	9.5	34.1
8.01 - 10.00m	4.1	11.1	1.4	1.0	29.4	67.4	34.9	79.5
10.01 - 15.00m	4.7	10.2	9.2	2.9	41.6	94.2	55.5	107.4
15.01 - 18.00m	3.3	7.0	1.2	..	17.9	43.7	22.4	50.9
18.01 - 24.00m	34.9	71.7	..	..	30.8	80.8	66.1	152.7
Over 24.00m	133.9	248.5	381.1	250.9	20.9	56.1	536.0	555.5
Total	182.3	354.7	394.8	257.2	147.2	368.1	724.3	980.1

Source: Fisheries Administrations in the UK

Although on average longer vessels land much greater quantities of fish than their smaller counterparts, they typically achieve a lower average price for the fish landed (Chart 3.21). For example, the average price of demersal fish landed by vessels over 24 metres is £1.86 per kilo, while for the 8 metre and under fleet it is £4.38 per kilo. Differences, albeit less marked, apply for shellfish, with an average price of £3.99 per kilo for landings by the 8 metre and under fleet, compared with £2.68 per kilo for the over 24 metre fleet. The difference in prices is partly due to differences in species targeted, fishing methods used and choice of markets.

Chart 3.21: Average price of landings into the UK and abroad by UK vessels by vessel length: 2017



Landings by the UK fleet by gear used

Eighty eight per cent of fish landed by UK vessels in 2017 was captured using mobile gears, such as beam trawls, demersal trawls and seines, pelagic seines and dredges (see Table 3.11). Almost all landings of pelagic fish and 90 per cent of all demersal fish were caught using mobile gears. Passive gears such as pots and traps were used to catch 43 per cent of the shellfish landed by the UK fleet.

A large majority of demersal and pelagic fish landed by UK vessels in 2017 were caught using demersal trawls and seines. This broad category includes otter, nephrops, shrimp and pair trawls, and all demersal seines. Pots and traps accounted for 42 per cent of shellfish landings, with demersal trawl/seine and dredges catching 28 per cent and 24 per cent respectively.

The type of gear used can make a difference to the average price of fish. For demersal species, the average price of fish captured using passive gears is £2.46 per kilo compared with £1.89 per kilo for mobile gears. Price differentials are also observed between different gears of the same class. For example, shellfish caught using dredges were sold at an average price of £2.12 per kilo, while shellfish caught using demersal trawls and seines were sold at an average price of £3.10 per kilo.

This variation in prices partly reflects the different species caught by different gears. For example, demersal trawls and seines capture the majority of the nephrops landed by the UK fleet, while the bulk of the landings from dredges are scallops, which sell at a lower average price. However, there can also be a premium attached to the method by which the fish are captured.

TABLE 3.11 Landings into the UK and abroad by UK vessels by gear used: 2017

	Demersal		Pelagic		Shellfish		Total	
	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)	Quantity ('000t)	Value (£ million)
Beam trawl	14.4	38.8	..	..	5.1	17.8	19.5	56.6
Demersal trawl/seine ^(a)	150.0	271.5	375.1	242.0	40.9	126.7	566.0	640.1
Dredge	..	0.7	..	..	35.6	75.6	35.8	76.3
Pelagic seine	-	-	14.8	11.7	..	..	14.8	11.7
Other mobile gears	..	..	-	-	2.0	0.9	2.1	0.9
Total Mobile Gears	164.5	311.0	389.9	253.7	83.7	221.0	638.2	785.7
Drift and fixed nets	8.7	21.5	2.5	0.9	..	1.2	11.6	23.6
Gears using hooks	9.0	21.2	2.3	2.6	..	..	11.3	23.9
Pots and traps	..	1.0	..	..	61.7	140.5	61.9	141.6
Other passive gears	..	..	..	..	1.3	5.3	1.3	5.3
Total Passive Gears	17.8	43.7	4.9	3.6	63.5	147.1	86.1	194.4
Total All Sectors	182.3	354.7	394.8	257.2	147.2	368.1	724.3	980.1

Source: Fisheries Administrations in the UK

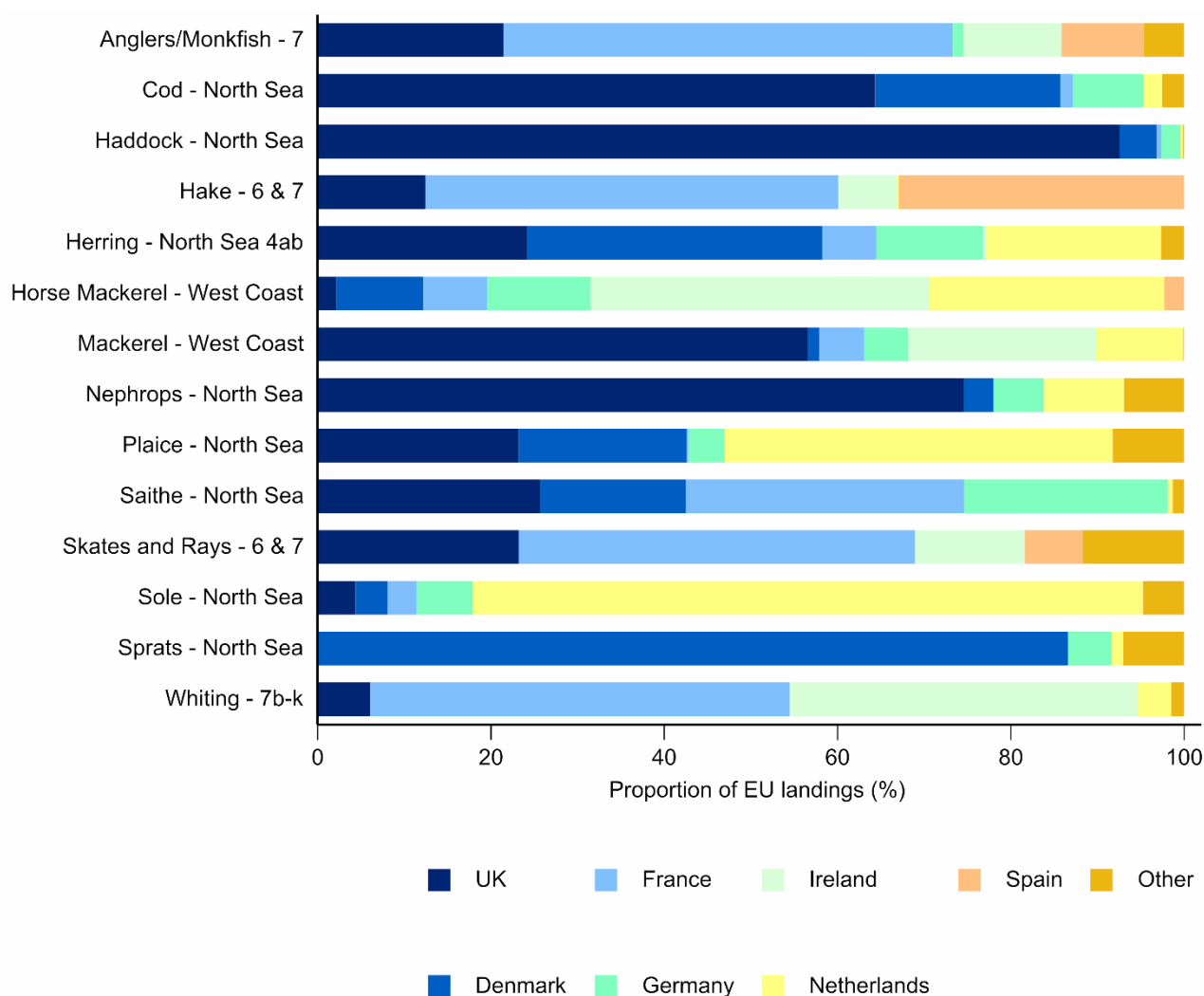
(a) includes midwater trawl gears (for example otter and pair trawls) which, depending on the mesh size, are used to target both demersal and pelagic species.

Uptake of quotas by EU member states

Table 3.12 shows the quota held by EU member states at the end of 2017 (after international quota transfers) for each stock, together with landings by each member state during 2017. The shares of the quota held by each member state vary considerably across stocks, with different countries landing different quantities of each stock as a consequence.

Chart 3.22 illustrates the difference in landings by member states for stocks of major importance to the UK and other EU countries. In 2017, the UK landed 93 per cent of all North Sea haddock (25 thousand tonnes) and 75 per cent of all North Sea nephrops (12 thousand tonnes). This dominance is not seen across all stocks. For example, Danish vessels landed 87 per cent of all North Sea sprats, Dutch vessels landed 77 per cent of all North Sea sole and French vessels landed 52 per cent of all Anglers in area 7.

Chart 3.22: Share of landings of key stocks by EU member states: 2017



Note: The data in this chart are official statistics and not subject to National Statistics accreditation.

The figures here are derived from reports to the European Commission by each member state. These had to be submitted to the Commission by 15 February 2018. The landings data for the UK may therefore differ from those reported earlier in this chapter, which are based on more recent figures.

TABLE 3.12 Quota, catch and uptake by EU Member States: 2017

Tonnes

Species	Area		UK	Denmark	France	Germany	Ireland	Netherlands	Spain	Other	Total
Albacore	Northern Atlantic ocean, north of latitude 05° N	Quota	240	-	6,771	-	2,499	-	13,961	2,333	25,804
		Catch	..	-	4,172	-	2,491	-	13,940	2,564	23,167
		Uptake %	..	-	62	-	100	-	100	110	90
Alfonsinos	3-10, 12 & 14 III, IV, V, VI, VII, VIII, IX, X, XII, XIV (EC & Int)	Quota	9	-	19	-	-	-	79	183	290
		Catch	..	-	10	-	-	-	75	186	272
		Uptake %	5	-	55	-	-	-	95	102	94
Anglers / Monkfish	North Sea IIa (EC), IV (EC)	Quota	11,173	1,450	106	549	-	127	-	385	13,790
		Catch	10,504	1,381	95	512	-	110	-	170	12,771
		Uptake %	94	95	89	93	-	87	-	44	93
	4 (Norwegian waters) IV (Norway)	Quota	125	1,266	1	31	-	78	-	-	1,500
		Catch	109	1,186	..	26	-	78	-	-	1,399
		Uptake %	87	94	46	83	-	100	-	-	93
	West of Scotland Vb (EC), VI, XII, XIV	Quota	3,057	-	3,020	297	855	92	331	-	7,650
		Catch	2,758	-	1,898	246	798	-	290	-	5,991
		Uptake %	90	-	63	83	93	-	88	-	78
	7 VII	Quota	7,643	-	19,651	371	3,485	141	2,980	2,423	36,695
		Catch	6,473	-	15,656	365	3,422	1	2,862	1,409	30,188
		Uptake %	85	-	80	98	98	..	96	58	82
Black Scabbard Fish	5-7 & 12 V, VI, VII and XII (EC and International)	Quota	197	-	2,759	24	..	..	334	-	3,315
		Catch	101	-	1,775	-	-	..	238	-	2,114
		Uptake %	51	-	64	-	-	134	71	-	64
Blue Ling	2 & 4 II and IV (EC and International)	Quota	14	4	27	4	-	-	-	-	49
		Catch	8	..	9	-	-	-	-	-	17
		Uptake %	58	1	33	-	-	-	-	-	35
	6 & 7 VI and VII (EC and International)	Quota	2,230	-	8,690	101	33	-	400	19	11,473
		Catch	645	-	1,020	-	-	-	117	-	1,781
		Uptake %	29	-	12	-	-	-	29	-	16
Blue Whiting	Northern I, II, III, IV, V, VII, VIII, IX, XII, XIV (EC and Int)	Quota	73,711	67,768	13,724	50,598	49,510	86,978	25,620	23,746	391,657
		Catch	66,386	60,928	13,102	45,448	44,560	80,930	17	21,328	332,699
		Uptake %	90	90	95	90	90	93	..	90	85
Boarfish	6-8 VI, VII and VIII (EC and International)	Quota	2,045	7,904	-	6	22,039	199	-	-	32,193
		Catch	..	548	-	1	15,485	199	-	-	16,233
		Uptake %	..	7	-	18	70	100	-	-	50
Cod	1 & 2 (Norwegian waters) I, II (Norway)	Quota	6,951	-	3,288	2,202	3	-	5,728	4,830	23,002
		Catch	6,903	..	3,026	2,149	3	-	5,696	4,579	22,358
		Uptake %	99	n/a	92	98	100	-	99	95	97
	1 & 2b I, IIb	Quota	9,638	-	5,178	3,820	-	-	9,419	4,478	32,533
		Catch	9,609	-	5,037	3,820	-	-	8,629	5,057	32,153
		Uptake %	100	-	97	100	-	-	92	113	99
	North Sea IIa (EC), IV	Quota	20,274	7,363	1,074	2,880	-	800	-	943	33,334
		Catch	18,411	6,119	412	2,330	-	618	-	729	28,618
		Uptake %	91	83	38	81	-	77	-	77	86
	West of Scotland Vlb, XII, XIV	Quota	50	-	13	..	18	-	-	-	81
		Catch	38	-	-	-	17	-	-	-	54
		Uptake %	76	-	-	-	91	-	-	-	67
	7a VIIa	Quota	56	-	7	-	81	-	-	5	149
		Catch	41	-	..	-	54	-	-	5	101
		Uptake %	74	-	3	-	67	-	-	96	68
	7d VIIId	Quota	259	-	1,860	-	-	56	-	96	2,272
		Catch	48	-	92	-	-	20	-	17	177
		Uptake %	18	-	5	-	-	36	-	18	8
	7b-c, e-k VII (ex VIIa, VIIId), VIII, IX, X; CECAF 34.1.1 (EC)	Quota	252	-	2,181	-	801	..	-	110	3,344
		Catch	185	-	1,386	-	642	..	-	82	2,295
		Uptake %	73	-	64	-	80	61	n/a	75	69
Greenland waters NAFO 1F and XIV (Greenland)	Quota	1,759	-	-	441	-	-	-	-	2,200	
	Catch	1,733	-	-	441	-	-	-	-	2,174	
	Uptake %	99	-	-	100	-	-	-	-	99	
NAFO 3M (NAFO)	Quota	1,148	-	-	-	-	-	902	6,522	8,571	
	Catch	1,148	-	-	-	-	-	899	6,518	8,565	
	Uptake %	100	-	-	-	-	-	100	100	100	
Cod and Haddock	5b (Faroese waters) Vb (Faroes)	Quota	817	-	114	19	-	-	-	-	950
		Catch	491	-	-	-	-	-	-	-	491
		Uptake %	60	-	-	-	-	-	-	-	52
Flatfish	5b (Faroese waters) Vb (Faroes)	Quota	68	-	14	18	-	-	-	-	100
		Catch	9	-	..	-	-	-	-	-	9
		Uptake %	14	-	1	-	-	-	-	-	9
Greater Forkbeard	1-4 I, II, III, IV (EC and International)	Quota	15	-	10	9	-	-	-	-	34
		Catch	9	..	2	..	-	-	-	-	11
		Uptake %	63	n/a	16	1	-	-	-	-	33

Source: European Commission

TABLE 3.12 Quota, catch and uptake by EU Member States: 2017 (cont.)

Tonnes

Species	Area		UK	Denmark	France	Germany	Ireland	Netherlands	Spain	Other	Total
Greater Forkbeard (cont.)	5-7	Quota	897	-	729	11	85	..	712	-	2,434
	<i>V, VI, VII (EC and International)</i>	Catch	100	-	435	-	6	-	404	-	946
		Uptake %	11	-	60	-	7	-	57	-	39
Greenland Halibut	1 & 2 (Norwegian waters)	Quota	24	-	-	2	-	-	19	5	50
	<i>I, II (Norway)</i>	Catch	21	-	7	1	-	-	36	5	71
		Uptake %	91	-	n/a	52	-	-	188	98	141
	2a, 4 & 6	Quota	964	18	474	24	1	2	70	2	1,556
	<i>IIa (EC), IV, VI (EC and International)</i>	Catch	148	-	232	..	-	..	39	-	419
		Uptake %	15	-	49	..	-	23	56	-	27
Haddock	1 & 2 (Norwegian waters)	Quota	377	-	146	160	-	-	180	338	1,200
	<i>I, II (Norway)</i>	Catch	316	..	100	137	-	-	103	314	970
		Uptake %	84	n/a	69	85	-	-	57	93	81
	North Sea	Quota	27,924	1,395	831	809	-	135	1	397	31,493
	<i>IIa (EC), IV</i>	Catch	25,476	1,185	143	611	-	73	-	43	27,531
		Uptake %	91	85	17	75	-	54	-	11	87
	West of Scotland 5b & 6a	Quota	3,349	3	245	6	712	31	40	1	4,388
	<i>Vb (EC), VIa</i>	Catch	2,464	2	68	-	641	31	28	-	3,234
		Uptake %	74	60	28	-	90	100	71	-	74
	West of Scotland 6b	Quota	3,995	-	404	38	555	-	-	1	4,994
	<i>VIIb, XII, XIV</i>	Catch	3,886	-	-	-	500	-	-	-	4,386
		Uptake %	97	-	-	-	90	-	-	-	88
	7a	Quota	1,315	-	198	-	1,220	-	-	37	2,770
	<i>VIIa</i>	Catch	1,222	-	5	-	1,120	-	-	5	2,352
		Uptake %	93	-	3	-	92	-	-	12	85
	7b-k	Quota	771	-	5,345	-	1,732	12	-	116	7,976
	<i>VII (ex VIIa), VIII, IX, X; CECAF 34.1.1 (EC)</i>	Catch	690	..	5,029	-	1,684	12	..	111	7,526
		Uptake %	89	n/a	94	-	97	93	n/a	96	94
Hake	North Sea	Quota	6,797	2,511	2,736	418	-	55	-	55	12,572
	<i>IIa (EC), IV</i>	Catch	6,129	2,023	2,458	239	..	51	-	35	10,935
		Uptake %	90	81	90	57	n/a	93	-	64	87
	6 & 7	Quota	8,649	1	31,276	20	3,861	303	23,181	266	67,556
	<i>Vb (EC), VI, VII, XII, XIV</i>	Catch	6,417	1	24,569	7	3,485	124	16,939	46	51,588
		Uptake %	74	63	79	37	90	41	73	17	76
Herring	Atlanto Scandian	Quota	4,561	20,929	-	5,194	3,797	6,262	34	1,322	42,101
	<i>I, II</i>	Catch	4,422	19,037	-	5,166	3,495	6,046	-	1,205	39,371
		Uptake %	97	91	-	99	92	97	-	91	94
	North Sea 4ab	Quota	68,719	100,839	18,569	34,950	999	56,886	-	7,498	288,461
	<i>IV (EC and Norway)</i>	Catch	67,818	95,849	17,674	34,667	868	56,751	-	7,497	281,123
	<i>North of 53° 30'N</i>	Uptake %	99	95	95	99	87	100	-	100	97
	4c & 7d	Quota	4,303	1,205	12,364	9,016	-	26,595	-	118	53,600
	<i>IVc (exB/W), VIIId</i>	Catch	4,278	-	11,127	9,016	-	25,628	-	13	50,062
		Uptake %	99	-	90	100	-	96	-	11	93
	West Coast	Quota	3,607	1	6	17	198	898	-	-	4,726
	<i>Vb (EC), VIa (North of 56° 30' N), VIIb</i>	Catch	3,356	..	-	-	9	815	-	-	4,180
		Uptake %	93	26	-	-	4	91	-	-	88
	7a (Manx and Mourne)	Quota	4,091	-	-	-	243	-	-	-	4,334
	<i>VIIa (Manx & Mourne)</i>	Catch	3,696	-	-	-	184	-	-	-	3,880
		Uptake %	90	-	-	-	76	-	-	-	90
	7ef	Quota	522	-	511	-	-	-	-	-	1,032
	<i>VIIe, f</i>	Catch	50	-	..	-	-	-	-	-	50
		Uptake %	10	-	..	-	-	-	-	-	5
7ghjk	Quota	381	..	553	307	14,287	911	-	-	16,439	
<i>VIIg, h, j, k</i>	Catch	67	-	..	307	10,017	634	-	-	11,025	
	Uptake %	18	-	..	100	70	70	-	-	67	
Horse Mackerel	North Sea	Quota	5,139	2,102	1,955	1,263	-	5,307	-	181	15,947
	<i>IVb, IVc, VIIId</i>	Catch	4,133	283	1,741	963	-	4,083	-	67	11,270
		Uptake %	80	13	89	76	-	77	-	37	71
	West Coast	Quota	3,792	9,560	6,666	13,567	26,543	26,027	7,956	511	94,621
	<i>IIa (EC), IVa, Vb (EC), VI, VII (ex VIIId), VIIIabde, XII, XIV</i>	Catch	1,321	6,124	4,544	7,315	23,920	16,618	1,408	..	61,251
		Uptake %	35	64	68	54	90	64	18	..	65
Lemon Sole and Witches	North Sea	Quota	3,780	898	261	122	-	723	-	607	6,391
	<i>IIa (EC), IV (EC)</i>	Catch	1,858	417	4	42	-	291	-	355	2,967
		Uptake %	49	46	2	35	-	40	-	58	46
Ling	Deep Sea 1 & 2	Quota	9	9	14	4	-	-	-	-	36
	<i>I, II</i>	Catch	..	-	13	-	-	-	-	-	13
		Uptake %	2	-	95	-	-	-	-	-	38
	4 (EC waters)	Quota	2,823	321	315	64	-	..	20	12	3,555
	<i>IV (EC)</i>	Catch	2,728	320	298	57	-	-	-	9	3,412
		Uptake %	97	100	94	89	-	-	-	80	96

Source: European Commission

TABLE 3.12 Quota, catch and uptake by EU Member States: 2017 (cont.)

Tonnes

Species	Area		UK	Denmark	France	Germany	Ireland	Netherlands	Spain	Other	Total	
Ling (continued)	4 (Norwegian waters) <i>IV (Norway S of 62°N)</i>	Quota	136	1,116	13	83	-	2	-	-	1,350	
		Catch	120	753	2	72	-	..	-	-	947	
		Uptake %	88	67	17	87	-	6	-	-	70	
	5 (EC and International waters) <i>V (EC and International)</i>	Quota	6	6	6	6	-	-	-	-	9	33
		Catch	6	-	4	-	-	-	-	-	-	10
		Uptake %	106	-	60	-	-	-	-	-	-	30
	6-10, 12 & 14 <i>VI, VII, VIII, IX, X, XII, XIV (EC)</i>	Quota	5,084	10	4,570	177	1,071	-	3,819	69	14,800	
		Catch	2,756	-	1,529	2	657	..	1,762	21	6,728	
		Uptake %	54	-	33	1	61	n/a	46	31	45	
Ling and Blue Ling	5b (Faroese waters) <i>Vb (Faroes)</i>	Quota	114	-	1,300	586	-	-	-	-	2,000	
		Catch	58	-	-	-	-	-	-	-	58	
		Uptake %	51	-	-	-	-	-	-	-	3	
Mackerel	North Sea <i>Ila (EC), IV</i>	Quota	3,991	17,526	2,379	3,601	-	2,740	-	4,039	34,277	
		Catch	3,923	17,993	2,142	3,601	-	2,447	-	4,002	34,106	
		Uptake %	98	103	90	100	-	89	-	99	100	
	West Coast <i>II (ex EC), Vb (EC), VI, VII, VIII, XII, XIV</i>	Quota	222,116	5,342	22,983	20,021	86,320	41,027	528	23	398,361	
		Catch	224,289	5,343	20,588	19,964	86,521	39,479	475	21	396,679	
		Uptake %	101	100	90	100	100	96	90	92	100	
	Megrims	North Sea <i>Ila (EC), IV (EC)</i>	Quota	2,744	98	40	8	-	25	-	12	2,926
			Catch	1,174	48	39	..	-	4	-	..	1,265
			Uptake %	43	49	98	4	-	14	-	..	43
West of Scotland <i>Vb (EC), VI, XII, XIV</i>		Quota	1,959	-	2,769	-	794	-	710	-	6,234	
		Catch	755	-	133	-	694	-	336	-	1,917	
		Uptake %	39	-	5	-	87	-	47	-	31	
7 <i>VII</i>		Quota	3,060	-	5,723	-	2,789	-	3,746	391	15,709	
		Catch	2,664	-	4,341	-	2,512	-	2,920	361	12,799	
		Uptake %	87	-	76	-	90	-	78	92	81	
Nephrops	North Sea <i>Ila (EC), IV (EC)</i>	Quota	16,153	1,128	48	1,217	-	1,650	-	1,401	21,598	
		Catch	11,950	539	15	925	-	1,475	-	1,114	16,019	
		Uptake %	74	48	31	76	-	89	-	80	74	
	West of Scotland <i>Vb (EC), VI</i>	Quota	17,475	-	148	-	246	-	350	-	18,218	
		Catch	11,581	-	-	-	122	-	-	-	11,703	
		Uptake %	66	-	-	-	50	-	-	-	64	
	7 <i>VII</i>	Quota	9,483	-	6,689	-	10,119	-	1,406	18	27,714	
		Catch	6,631	-	417	-	8,055	-	74	1	15,177	
		Uptake %	70	-	6	-	80	-	5	6	55	
Northern Prawn	North Sea <i>Ila (EC), IV (EC)</i>	Quota	514	2,020	-	-	-	102	-	81	2,718	
		Catch	7	19	-	-	-	-	-	-	26	
		Uptake %	1	1	-	-	-	-	-	-	1	
	Greenland waters <i>V and XIV (Greenland)</i>	Quota	75	387	575	-	-	-	-	125	1,162	
		Catch	11	153	-	-	-	-	-	10	174	
		Uptake %	14	40	-	-	-	-	-	8	15	
Plaice	North Sea <i>Ila (EC), IV</i>	Quota	32,214	26,764	1,551	7,831	-	57,585	-	8,410	134,354	
		Catch	14,962	12,518	151	2,655	-	28,919	-	5,319	64,524	
		Uptake %	46	47	10	34	-	50	-	63	48	
	West of Scotland <i>Vb (EC), VI, XII, XIV</i>	Quota	427	-	10	-	287	-	-	-	724	
		Catch	112	-	..	-	18	-	-	-	130	
		Uptake %	26	-	..	-	6	-	-	-	18	
	7a <i>VIIa</i>	Quota	311	-	13	-	796	10	-	90	1,220	
		Catch	62	-	..	-	446	-	-	77	584	
		Uptake %	20	-	..	-	56	-	-	85	48	
	7de <i>VIIId, e</i>	Quota	2,741	-	5,846	-	1	89	-	2,573	11,250	
		Catch	2,407	-	1,640	-	1	82	-	2,342	6,472	
		Uptake %	88	-	28	-	98	92	-	91	58	
	7fg <i>VIIIf, g</i>	Quota	44	-	122	-	65	-	-	190	421	
		Catch	38	-	108	-	63	-	-	180	388	
		Uptake %	85	-	89	-	97	-	-	95	92	
	7hjk <i>VIIIh, j, k</i>	Quota	13	-	64	-	48	6	-	11	141	
		Catch	9	-	54	-	43	-	-	11	116	
		Uptake %	74	-	84	-	90	-	-	97	83	
Pollack	West of Scotland <i>Vb (EC), VI, XII, XIV</i>	Quota	145	-	190	-	56	-	6	-	397	
		Catch	14	-	..	-	32	-	-	-	46	
		Uptake %	10	-	..	-	57	-	-	-	12	
	7 <i>VII</i>	Quota	2,067	-	8,700	-	927	-	75	378	12,146	
		Catch	1,392	-	942	-	897	-	12	19	3,261	
		Uptake %	67	-	11	-	97	-	16	5	27	
Redfishes	1 & 2 (Norwegian waters) <i>I, II (Norway)</i>	Quota	592	-	69	26	-	-	267	500	1,454	
		Catch	591	-	18	19	-	-	257	472	1,357	
		Uptake %	100	-	26	74	-	-	96	94	93	

Source: European Commission

TABLE 3.12 Quota, catch and uptake by EU Member States: 2017 (cont.)

Tonnes

Species	Area		UK	Denmark	France	Germany	Ireland	Netherlands	Spain	Other	Total	
Redfishes (continued)	5b (Faroese waters) <i>Vb (Faroes)</i>	Quota	7	-	25	368	-	-	-	-	400	
		Catch	3	-	-	-	-	-	-	-	3	
		Uptake %	41	-	-	-	-	-	-	-	1	
	NAFO 3M <i>3M (NAFO)</i>	Quota	7	-	-	-	-	-	2,237	7,457	9,700	
		Catch	6	-	-	-	-	-	2,017	4,356	6,380	
		Uptake %	100	-	-	-	-	-	90	58	66	
Red Seabream	6-8 <i>VI, VII and VIII (EC and International)</i>	Quota	2	-	19	-	..	-	126	-	148	
		Catch	1	-	16	-	..	-	112	-	129	
		Uptake %	65	-	84	-	100	n/a	88	-	87	
Roundnose and Roughhead Grenadier	5b, 6 & 7 <i>Vb, VI, VII</i>	Quota	171	-	2,907	6	173	-	257	1	3,515	
		Catch	11	-	123	-	..	-	231	-	365	
		Uptake %	6	-	4	-	..	-	90	-	10	
Saithe	1 & 2 (Norwegian waters) <i>I, II (Norway)</i>	Quota	353	-	311	1,195	14	-	87	590	2,550	
		Catch	353	10	143	1,154	14	-	88	590	2,351	
		Uptake %	100	n/a	46	97	100	-	102	100	92	
	North Sea <i>Ila (EC), IV</i>	Quota	11,005	6,526	20,535	10,203	-	210	-	620	49,099	
		Catch	8,674	5,689	10,872	7,953	-	189	-	452	33,829	
		Uptake %	79	87	53	78	-	90	-	73	69	
	West of Scotland <i>Vb (EC), VI, XII, XIV</i>	Quota	3,259	6	6,042	18	377	4	163	-	9,867	
		Catch	2,641	5	4,008	..	171	3	4	-	6,833	
		Uptake %	81	86	66	..	45	96	2	-	69	
	5b (Faroese waters) <i>Vb (Faroes)</i>	Quota	670	-	1,691	347	-	56	-	36	2,800	
		Catch	291	-	..	-	-	-	-	-	292	
		Uptake %	44	-	..	-	-	-	-	-	10	
7 <i>VII, VIII, IX, X; COPACE 34.1.1(EC)</i>	Quota	477	-	1,360	-	1,640	-	10	7	3,494		
	Catch	62	-	94	-	601	-	..	1	758		
	Uptake %	13	-	7	-	37	-	2	9	22		
Sandeels	North Sea <i>Ila (EC), IIIa (EC), IV (EC)</i>	Quota	5,087	440,250	-	8,202	-	-	-	41,970	495,508	
		Catch	3,324	353,933	-	6,550	-	-	-	41,641	405,448	
		Uptake %	65	80	-	80	-	-	-	99	82	
Skates and Rays	North Sea <i>Ila (EC), IV (EC)</i>	Quota	770	9	46	44	-	255	-	254	1,378	
		Catch	695	6	37	42	-	256	-	194	1,230	
		Uptake %	90	71	80	96	-	100	-	76	89	
	7d <i>VIIId</i>	Quota	160	-	698	-	-	5	-	91	955	
		Catch	160	-	625	-	-	5	-	96	886	
		Uptake %	100	-	90	-	-	98	-	105	93	
	6 & 7 <i>VI (EC), VII (EC) (ex VIIId)</i>	Quota	2,019	-	3,890	1	1,000	3	528	911	8,351	
		Catch	1,824	-	3,594	-	996	1	525	919	7,859	
		Uptake %	90	-	92	-	100	26	100	101	94	
	Sole	North Sea <i>II, IV</i>	Quota	940	671	734	1,097	-	12,591	-	1,494	17,527
			Catch	511	432	393	761	-	9,064	-	557	11,718
			Uptake %	54	64	54	69	-	72	-	37	67
West of Scotland <i>Vb (EC), VI, XII, XIV</i>		Quota	12	-	-	-	51	-	-	-	63	
		Catch	2	-	-	-	12	-	-	-	14	
		Uptake %	17	-	-	-	24	-	-	-	22	
7a <i>VIIa</i>		Quota	10	-	1	-	17	-	-	14	42	
		Catch	4	-	..	-	14	-	-	14	32	
		Uptake %	40	-	9	-	81	-	-	100	75	
7d <i>VIIId</i>		Quota	394	-	1,806	-	-	-	-	890	3,090	
		Catch	343	-	1,178	-	-	-	-	697	2,218	
		Uptake %	87	-	65	-	-	-	-	78	72	
7e <i>VIIe</i>		Quota	805	-	375	-	..	-	-	57	1,238	
		Catch	738	-	198	-	..	-	-	56	992	
		Uptake %	92	-	53	-	108	-	-	98	80	
7fg <i>VIIIf, g</i>		Quota	172	-	59	-	30	-	-	578	840	
		Catch	149	-	49	-	28	-	-	554	780	
		Uptake %	87	-	82	-	93	-	-	96	93	
7hjk <i>VIIIf, j, k</i>		Quota	50	-	105	-	153	22	-	94	424	
		Catch	39	-	81	-	86	-	-	74	280	
		Uptake %	77	-	77	-	56	-	-	79	66	
Sprats		North Sea <i>Ila (EC), IV (EC)</i>	Quota	5,417	162,526	2,181	6,826	-	2,251	-	11,495	190,695
			Catch	48	102,767	..	5,971	-	1,580	-	8,351	118,718
			Uptake %	1	63	..	87	-	70	-	73	62
	7de <i>VIIId, e</i>	Quota	3,474	291	328	34	-	314	-	4	4,444	
		Catch	2,498	-	..	34	-	232	-	..	2,764	
		Uptake %	72	-	..	100	-	74	-	1	62	
Spurdog	West Coast <i>I, V, VI, VII, VIII, XII and XIV (EC and Int)</i>	Quota	100	-	83	4	53	-	10	20	270	
		Catch	35	-	-	-	-	-	..	-	36	
		Uptake %	35	-	-	-	-	-	3	-	13	

Source: European Commission

TABLE 3.12 Quota, catch and uptake by EU Member States: 2017 (cont.)

Tonnes

Species	Area		UK	Denmark	France	Germany	Ireland	Netherlands	Spain	Other	Total	
Turbot and Brill	North Sea <i>Ila (EC), IV (EC)</i>	Quota	752	732	109	348	-	3,176	-	566	5,682	
		Catch	495	411	47	328	-	2,827	-	474	4,582	
		Uptake %	66	56	43	94	-	89	-	84	81	
Tusk	1, 2 & 14 <i>I, II, XIV (EC and International)</i>	Quota	7	-	7	7	-	-	-	-	20	
		Catch	1	-	4	-	-	-	-	-	5	
		Uptake %	16	-	55	-	-	-	-	-	24	
	4 (EC waters) <i>IV (EC and International)</i>	Quota	107	71	49	21	-	-	-	-	7	
		Catch	39	3	5	2	-	-	-	-	49	
		Uptake %	36	4	10	9	-	-	-	-	19	
	4 (Norwegian waters) <i>IV (Norway S of 62°N)</i>	Quota	4	165	-	1	-	-	-	-	170	
		Catch	3	35	..	..	-	-	-	-	38
		Uptake %	64	21	n/a	45	-	-	-	-	22	
	5-7 <i>V, VI, VII (EC and International)</i>	Quota	288	-	609	13	59	-	-	58	-	1,027
		Catch	68	-	154	-	2	-	-	38	-	262
		Uptake %	24	-	25	-	4	-	-	65	-	25
Whiting	North Sea <i>Ila (EC), IV</i>	Quota	10,578	1,013	2,207	216	-	841	1	144	15,000	
		Catch	9,216	254	953	89	..	662	-	76	11,250	
		Uptake %	87	25	43	41	n/a	79	-	53	75	
	West of Scotland <i>Vb (EC), VI, XII, XIV</i>	Quota	125	-	29	1	67	-	..	-	222	
		Catch	125	-	3	-	60	-	19	-	207	
		Uptake %	100	-	12	-	89	-	n/a	-	93	
	7a <i>VIIa</i>	Quota	37	-	3	-	46	-	-	-	88	
		Catch	16	-	..	-	33	-	-	-	51	
		Uptake %	44	-	1	-	72	-	-	-	58	
	7b-k <i>VII (ex VIIa)</i>	Quota	2,116	-	18,265	-	8,013	-	682	-	418	29,494
		Catch	960	-	7,633	-	6,335	-	613	-	231	15,773
		Uptake %	45	-	42	-	79	-	90	-	55	53
	Other Species	1 & 2 (Norwegian waters) <i>I, II (Norway)</i>	Quota	170	-	55	42	-	-	50	33	350
			Catch	98	10	47	34	-	-	47	-	236
			Uptake %	58	n/a	85	81	-	-	95	-	67
4 (Norwegian waters) <i>IV (Norway S of 62°N)</i>		Quota	3,102	5,069	220	980	-	130	-	-	9,500	
		Catch	2,685	4,232	8	789	-	-	-	-	101	7,815
		Uptake %	87	83	4	81	-	-	-	-	n/a	82
5b (Faroesse waters) <i>Vb (Faroes)</i>		Quota	204	-	289	307	-	-	-	-	-	800
		Catch	145	-	4	-	-	-	-	-	-	150
		Uptake %	71	-	2	-	-	-	-	-	-	19

Source: European Commission

4 Supplies, overseas trade and marketing

Introduction

In 2017, the UK imported 705 thousand tonnes of fish (excluding fish products), with a value of £3,199 million. It exported 460 thousand tonnes, leaving a trade gap of 245 thousand tonnes. Landed prices of fish rose by an average of 6 per cent on 2016 and the fish component of the retail price index rose by 8 per cent. Fishing accounted for 6.5 per cent of gross value added for agriculture, hunting, forestry and fishing, compared with 6.3 per cent in 2016.

This chapter brings together information on:

- Imports and exports of fish and fish products
- Household expenditure on fish and inflation of fish prices
- The contribution of fishing to GDP

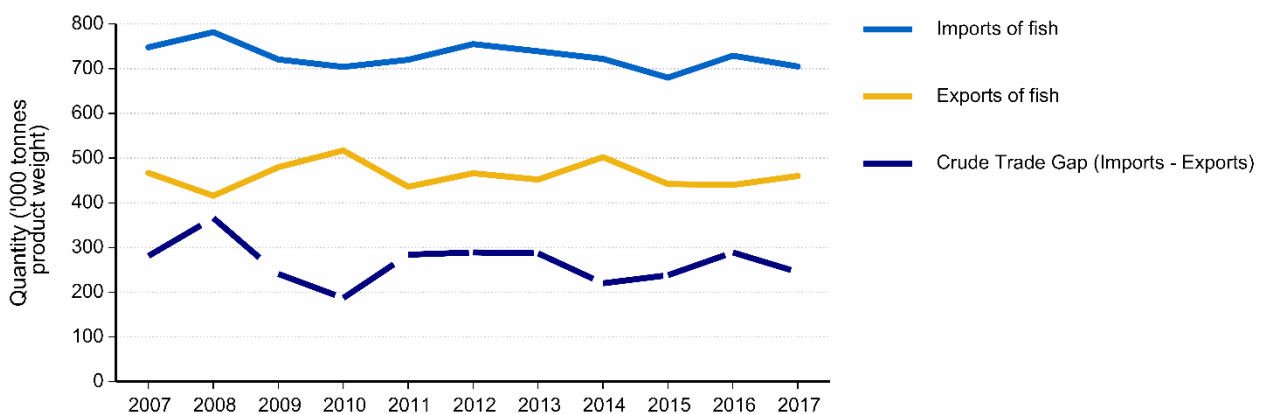
The data on imports, exports, household consumption and GDP include information on fish from freshwater fisheries and aquaculture, as well as from sea fisheries. This differs from the rest of the publication, which focuses exclusively on sea fisheries. Note that in this chapter, landings data are given in terms of landed weight for comparison with the trade data, which are shown in terms of actual product weight.

All tables presented here are available to download as spreadsheets from the MMO website. Supplementary tables showing more detail can also be found on the website.

Imports and Exports

The UK is a net importer of fish, with imports exceeding exports. In 2017, imports fell by 25 thousand tonnes while exports increased by 20 thousand tonnes. This resulted in the crude trade gap (imports minus exports) narrowing by 45 thousand tonnes to 245 thousand tonnes.

Chart 4.1: International trade of fish: 2007 to 2017



In addition to imports from abroad, supplies of fish to the UK include aquaculture, catches from inland fisheries, and landings by UK vessels from sea fisheries. Data on aquaculture and catches from freshwater fisheries are not included in this publication and hence total UK supplies of fish are not estimated.

Landings by UK vessels into the UK (based on landed weight) fell by 11 thousand tonnes in 2017 (see Table 4.1). Combining this with the 45 thousand tonne fall in the crude trade gap results in a reduction of 56 thousand tonnes of fish available for use in 2017 (646 thousand tonnes in 2017 compared with 702 thousand tonnes in 2016).

TABLE 4.1 Fish trade flows for the UK: 2007 to 2017

		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Imports ^(a)	('000 tonnes)	748	782	721	704	720	755	739	722	680	729 ^R	705
	(£ million)	1,994	2,210	2,177	2,255	2,559	2,570	2,757	2,738	2,672	3,069 ^R	3,199
Exports ^(a)	('000 tonnes)	467	416	480	517	436	466	452	502	442	440 ^R	460
	(£ million)	982	1,009	1,166	1,346	1,464	1,344	1,460	1,566	1,337	1,638 ^R	1,906
Crude trade gap	('000 tonnes)	281	366	241	187	284	289	287	220	238	289 ^R	245
Landings by UK vessels into the UK ^{(b) (c)}	('000 tonnes)	407	375	360	379	372	366	379	422	390	413 ^R	402
	(£ million)	532	517	520	548	621	568	549	615	553	693 ^R	721

(a) Excludes fish products

(b) Landings are given in terms of landed weight equivalent (i.e. head on, gutted for most species).

(c) Landings include transshipments of mackerel.

More detailed landings data (based on live weight) are in Chapter 3.

Tables 4.2 and 4.3 present information on imports and exports by species. Note that while imports typically include landings into the UK by foreign-registered vessels, there may be cases where imports are less than the landings shown in Table 3.3; see Appendix 4 (UK fisheries statistics methodology) for further details.

There were 705 thousand tonnes of fish (excluding fish products) imported into the UK in 2017. This is down 3 per cent on 2016. Imports of key species (tuna, cod, salmon and shrimps and prawns) all fell. Imports total 809 thousand tonnes when fish products, such as fish meal and oils, are included.

2017 exports of fish rose by 5 per cent to 460 thousand tonnes. There was large increases in exports for salmon (11 thousand tonnes) and the 'other fish' category (23 thousand tonnes). Mackerel exports fell by 7 per cent (6 thousand tonnes). Including fish products gives total exports of 504 thousand tonnes.

TABLE 4.2 Imports of fish, fish preparations, meals, flours and oils into the UK: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Fish (excluding Shellfish)										
Bass	9.5	6.8	8.5	8.5	8.9	34.9	28.5	35.5	38.4 ^R	37.4
Blue Whiting	5.1	..	..	..	0.3	1.1	..	0.1	0.1	0.1
Cod	116.3	116.4	115.4	120.5 ^R	110.0	400.4	410.0	440.1	491.1 ^R	493.6
Haddock	44.9	35.9	41.0	44.9	47.0	124.5	111.1	119.9	113.7 ^R	130.0
Hake	3.2	4.7	3.2	3.5	2.5	8.8	11.1	9.4	10.4	8.2
Halibut	1.5	1.3	1.0	1.0	1.2	8.3	7.2	6.1	6.8	7.5
Herring	12.0	11.9	9.4	10.2	7.0	17.2	15.2	15.1	15.4	13.3
Ling	1.1	1.2	0.9	1.5	1.0	1.6	1.2	1.3	2.1	1.6
Mackerel	29.9	33.2	19.0	19.0	26.5	57.5	53.2	38.9	42.9	52.4
Megrim	..	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4
Monks or Anglerfish	1.7	1.7	1.1	1.7 ^R	1.7	6.6	6.3	3.5	5.6 ^R	6.0
Plaice	4.6	4.2	4.4	4.2 ^R	4.5	13.6	12.9	12.4	12.4 ^R	15.2
Pollack	39.0	38.3	29.3	31.1	29.8	74.4	71.8	57.8	66.1	63.4
Saithe	2.7	3.2	2.0	2.9	2.6	8.1	9.5	6.6	9.2	7.2
Salmon ^(b)	74.5	78.3	71.8	85.8 ^R	74.1	379.0	393.1	345.8	488.7 ^R	489.8
Sardines	12.9	12.9	12.9	13.5	13.8	36.3	33.8	30.6	34.4	34.7
Sole	0.3	0.2	0.4	0.5	0.3	1.2	0.8	2.8	3.8	2.2
Trout ^(b)	8.6	11.4	10.4	12.2 ^R	12.0	45.5	60.8	55.4	66.2	81.4
Tuna	97.0	91.8	119.0	122.7	114.1	350.9	287.8	357.4	390.8 ^R	428.7
Whiting	1.7	3.3	2.6	3.9	4.4	1.3	2.6	2.2	3.3	4.3
Other Fish ^(c)	155.4	146.3	117.7	123.0 ^R	128.8	509.6	460.3	368.3	421.7 ^R	453.2
Total	621.9	603.1	570.2	610.9^R	591.0	2,080.7	1,977.2	1,909.5	2,223.3^R	2,330.5
Shellfish (Crustaceans and Molluscs)										
Crabs	2.5	3.9	2.2	2.8	2.9	17.3	23.3	18.4	19.9	21.0
Lobsters	2.6	2.3	3.0	2.7	2.1	23.4	23.4	35.9	37.6	30.8
Mussels	5.7	6.0	5.1	5.5	4.3	13.6	15.1	13.9	15.3 ^R	14.6
Nephrops	1.9	3.7	3.0	3.0 ^R	2.6	6.3	15.7	10.6	10.3 ^R	10.1
Scallops	1.9	2.1	2.4	3.7	1.3	20.8	24.4	27.6	41.4	20.3
Shrimps and Prawns	85.1	82.3	77.4	81.8	81.0	537.2	593.8	593.6	644.5 ^R	684.0
Squid	8.2	7.0	6.3	6.0	9.3	17.5	13.9	14.0	19.8	39.7
Other Crustaceans	2.6	3.6	3.0	2.3	1.5	17.7	27.8	23.0	20.9	14.7
Other Molluscs	7.0	7.9	8.0	10.5	8.6	22.4	23.2	25.1	36.3	32.8
Total	117.5	118.8	110.3	118.3^R	113.7	676.3	760.6	762.1	845.9^R	868.0
Total Imports of Fish	739.4	721.9	680.4	729.2^R	704.6	2,757.0	2,737.8	2,671.6	3,069.3^R	3,198.6
Fish Products										
Meals and Flours	66.1	71.1	63.4	77.5 ^R	83.2	77.5	77.7	70.5	97.8 ^R	95.9
Oils	16.0	13.3	29.0	22.4 ^R	21.3	30.1	28.5	41.1	47.8 ^R	38.7
Total	82.1	84.4	92.4	99.9^R	104.5	107.6	106.2	111.7	145.6^R	134.6
Total Imports (inc. fish products)	821.5	806.3	772.8	829.1^R	809.1	2,864.6	2,844.0	2,783.3	3,214.8^R	3,333.2

Source: H.M. Revenue and Customs

(a) 2017 data are provisional.

(b) Freshwater species.

(c) Includes other freshwater species.

Note: Additional data on UK imports by exporting country are available from the MMO website as supplementary Table 4.2a.

TABLE 4.3 Exports of fish, fish preparations, meals, flours and oils from the UK: 2013 to 2017 ^(a)

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Fish (excluding Shellfish)										
Bass	0.4	0.4	0.4	0.3	0.3	2.8	3.0	2.6	3.1	2.6
Blue Whiting	18.7	4.4	1.8	2.7	0.4	6.1	1.2	0.6	1.0	0.2
Cod	16.7	15.5	16.0	17.2	16.8	55.6	52.7	53.1	58.9 ^R	63.3
Haddock	1.0	1.0	0.9	1.2	1.2	3.0	2.6	2.5	3.7	3.5
Hake	2.4	3.9	5.0	7.6	8.1	7.1	13.1	17.4	25.1	33.2
Halibut	0.5	0.5	0.4	0.4	0.3	2.1	2.0	1.5	1.3	1.3
Herring	52.9	63.5	64.8	44.1	41.6	36.9	40.7	35.6	38.4	37.3
Ling	2.7	2.3	2.0	2.1	2.3	6.0	4.7	4.2	4.8 ^R	5.9
Mackerel	80.8	120.3	80.3	83.7 ^R	77.6	99.7	128.5	67.7	81.0 ^R	87.4
Megrim	3.7	3.5	3.3	3.6 ^R	3.8	13.3	13.7	12.6	15.2	16.6
Monks or Anglerfish	1.8	2.8	3.1	4.2	4.5	9.7	14.2	15.9	24.4	31.0
Plaice	0.5	0.3	0.4	1.1	1.6	0.6	0.5	0.6	1.6	3.0
Pollack	3.9	3.9	3.6	2.0	2.1	11.8	10.4	7.6	6.0	6.9
Saithe	5.0	4.7	4.8	5.4	5.5	8.6	8.6	9.2	12.8	13.6
Salmon ^(b)	112.1	124.8	113.7	105.3 ^R	116.2	578.7	625.9	493.6	580.7 ^R	726.2
Sardines	4.5	3.9	4.5	7.6	7.3	8.8	7.1	7.6	9.4	9.8
Sole	1.0	0.9	0.6	0.9	0.9	7.3	7.2	4.8	7.8	8.9
Trout ^(b)	2.2	2.8	4.0	7.8	8.4	9.7	11.2	18.3	48.4	52.2
Tuna	5.4	5.1	5.3	5.9	4.8	17.9	18.7	19.2	22.6 ^R	20.1
Whiting	0.8	1.6	0.3	0.5	0.4	1.6	1.2	0.6	0.8	0.8
Other Fish ^(c)	46.9	51.5	45.7	46.9 ^R	70.0	122.4	134.7	120.5	134.6 ^R	179.7
Total	363.8	417.6	361.2	350.5^R	374.1	1,009.8	1,101.8	895.8	1,081.3^R	1,303.3
Shellfish (Crustaceans and Molluscs)										
Crabs	14.2	15.5	14.5	16.7	15.3	50.7	56.7	48.5	65.9 ^R	71.9
Lobsters	7.4	3.8	3.2	3.9	4.9	74.8	40.5	35.2	47.3	62.2
Mussels	8.8	4.8	5.2	3.6	3.6	9.4	5.3	4.2	3.3	5.0
Nephrops	9.2	14.8	13.0	13.9	13.4	58.4	107.3	93.2	113.4 ^R	120.1
Scallops	11.7	11.1	11.7	12.9	8.2	93.4	91.7	100.2	127.7 ^R	101.6
Shrimps and Prawns	16.1	13.5	11.7	12.6	14.2	85.3	75.5	71.4	86.5 ^R	106.6
Squid	3.0	2.9	3.3	3.1	10.6	9.0	10.2	14.5	13.8	48.9
Other Crustaceans	3.7	2.9	1.9	2.3	2.0	15.2	16.5	13.3	17.9	14.8
Other Molluscs	14.2	14.9	16.4	20.4	13.7	54.4	60.7	60.4	81.4 ^R	71.3
Total	88.3	84.2	80.8	89.4^R	85.9	450.5	464.5	440.9	557.2^R	602.4
Total Exports of Fish	452.1	501.8	442.0	439.9^R	460.0	1,460.3	1,566.3	1,336.7	1,638.4^R	1,905.8
Fish Products										
Meals and Flours	24.1	37.9	45.4	47.2	31.4	30.7	45.2	55.3	60.7	40.9
Oils	8.1	6.4	10.8	10.8 ^R	12.4	20.0	17.0	19.3	26.4	33.5
Total	32.2	44.3	56.2	58.0	43.8	50.8	62.1	74.6	87.2	74.4
Total Exports (inc. fish products)	484.4	546.1	498.3	497.9^R	503.8	1,511.1	1,628.4	1,411.3	1,725.6^R	1,980.1

Source: H.M. Revenue and Customs

(a) 2017 data are provisional.

(b) Freshwater species.

(c) Includes other freshwater species.

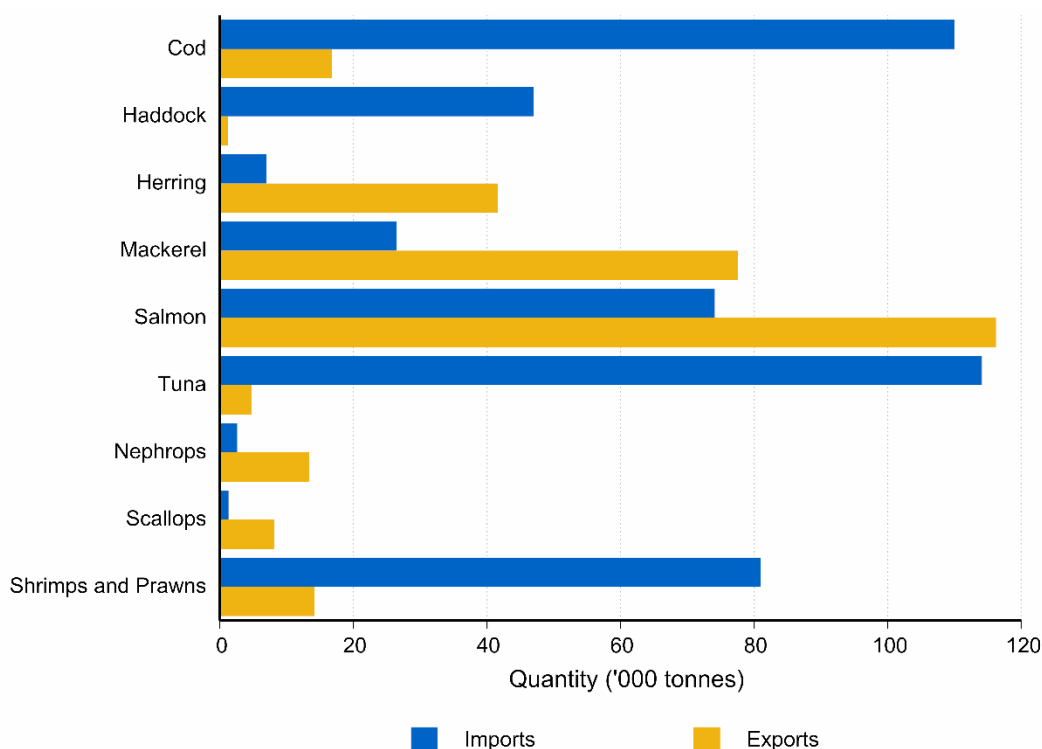
Note: Additional data on UK exports by importing country are available from the MMO website as supplementary Table 4.3a.

Imports and exports by species

Fish (excluding shellfish) accounted for 73 per cent of fish imports (including fish products) by weight in 2017, a total of 591 thousand tonnes. Shellfish (molluscs and crustaceans) accounted for 14 per cent of imports by weight and 26 per cent by value. The share of fish products is 13 per cent. These are relatively low priced and so account for just 4 per cent of the value of all imports.

The UK exported 374 thousand tonnes of fish (excluding shellfish) in 2017, up 7 per cent on 2016. In addition, 86 thousand tonnes of shellfish were exported from the UK. Fish (excluding shellfish) account for 74 per cent of all exports, a similar share to imports. Shellfish account for 17 per cent of all exports. Exports of fish products, which fell significantly compared with last year, account for 9 per cent.

Chart 4.2: UK imports and exports by key species: 2017



In 2017, tuna remained the highest imported fish by weight - 114 thousand tonnes, albeit 7 per cent down on 2016 – closely followed by cod at 110 thousand tonnes. Shrimps and prawns moved into third place (81 thousand tonnes), overtaking salmon (74 thousand tonnes).

Exports were highest for salmon at 116 thousand tonnes, a rise of 10 per cent. This was followed by mackerel, with 78 thousand tonnes exported in 2017. This is a drop of more than a third in three years and is likely to be down to lower mackerel catches following reductions in mackerel quota from the 2014 peak. 42 thousand tonnes of herring were also exported.

Cod

The UK is a net importer of cod. Imports of cod in 2017 stood at 110 thousand tonnes, down 11 thousand tonnes in the year, while 17 thousand tonnes were exported, little change on last year. Landings of cod by UK vessels into the UK rose by 1 thousand tonnes to 17 thousand tonnes in 2017. As a result, the amount of cod available for domestic use fell by 9 thousand tonnes. Excluded from these figures is a small but growing amount of cod sourced from UK aquaculture.

TABLE 4.4a Balance sheet for cod for the UK: 2013 to 2017

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Landings by UK vessels into the UK ^(a)	11.2	12.0	13.2	16.0	17.0	25.8	27.8	29.5	41.7 ^R	48.0
Imports ^(b)	116.3	116.4	115.4	120.5 ^R	110.0	400.4	410.0	440.1	491.1 ^R	493.6
Total supplies ^(c)	127.5	128.4	128.5	136.6	127.0	426.2	437.8	469.7	532.7 ^R	541.6
Exports ^(b)	16.7	15.5	16.0	17.2	16.8	55.6	52.7	53.1	58.9 ^R	63.3
Total available for domestic use ^(c)	110.9	112.9	112.5	119.4	110.2	370.5	385.2	416.6	473.9 ^R	478.3

Source: H.M. Revenue and Customs and Fisheries Administrations in the UK

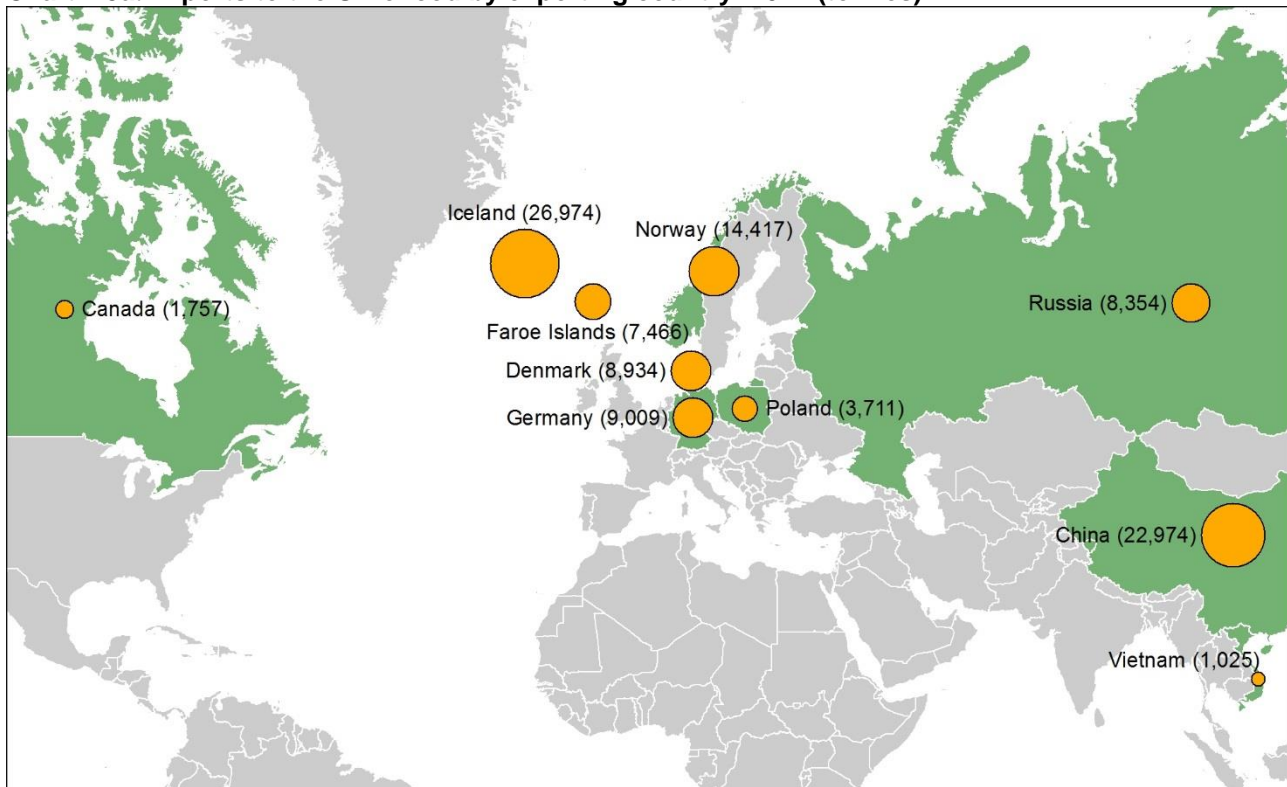
(a) Landings are given in terms of landed weight.

(b) Excludes fish products.

(c) Excludes sources of fish other than imports and landings into the UK by UK vessels from sea fisheries.

The largest exporter of cod to the UK is Iceland (27 thousand tonnes), followed by China (23 thousand tonnes) and Norway (14 thousand tonnes). EU member states accounted for 23 per cent of all cod imported to the UK in 2017.

Chart 4.3a: Imports to the UK of cod by exporting country: 2017 (tonnes)



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Note: Only countries from which the UK imported more than 1,000 tonnes of cod are shown.

Haddock

As with cod, the UK is heavily reliant on imports of haddock to meet consumer demand. Imports accounted for 61 per cent of the supply, although this is lower than the 87 per cent share for cod. Very little is exported. In 2017, the amount available for domestic use was 76 thousand tonnes.

TABLE 4.4b Balance sheet for haddock for the UK: 2013 to 2017

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Landings by UK vessels into the UK ^(a)	34.5	31.5	28.6	29.1	29.7	43.5	49.3	44.2	44.0 ^R	50.7
Imports ^(b)	44.9	35.9	41.0	44.9	47.0	124.5	111.1	119.9	113.7 ^R	130.0
Total supplies ^(c)	79.4	67.4	69.6	74.0	76.7	168.0	160.4	164.1	157.7	180.7
Exports ^(b)	1.0	1.0	0.9	1.2	1.2	3.0	2.6	2.5	3.7	3.5
Total available for domestic use ^(c)	78.4	66.4	68.7	72.8	75.5	165.0	157.9	161.6	154.1 ^R	177.2

Source: H.M. Revenue and Customs and Fisheries Administrations in the UK

- (a) Landings are given in terms of landed weight.
- (b) Excludes fish products.
- (c) Excludes sources of fish other than imports and landings into the UK by UK vessels from sea fisheries.

In 2017, half of all haddock imported into the UK came from Norway and Iceland (16 and 7 thousand tonnes respectively). China also exported 7,000 tonnes of haddock to the UK.

Chart 4.3b: Imports to the UK of haddock by exporting country: 2017 (tonnes)



Contains Collins Bartholomew data. © Collins Bartholomew copyright and database right 2017.
 Note: Only countries from which the UK imported more than 1,000 tonnes of haddock are shown.

Shrimps and prawns

UK vessels land only small amounts of shrimps and prawns into the UK: 600 tonnes in 2017. The vast majority of shrimps and prawns available for domestic use are imported. In 2017, 81 thousand tonnes of shrimps and prawns were imported into the UK, although 14 thousand tonnes are then exported.

TABLE 4.4c Balance sheet for shrimps and prawns for the UK: 2013 to 2017

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Landings by UK vessels into the UK ^(a)	0.9	0.6	0.3	0.8	0.6	2.4	1.4	0.8	3.0	2.6
Imports ^(b)	85.1	82.3	77.4	81.8	81.0	537.2	593.8	593.6	644.5 ^R	684.0
Total supplies ^(c)	86.0	82.9	77.7	82.6	81.6	539.6	595.2	594.4	647.5 ^R	686.5
Exports ^(b)	16.1	13.5	11.7	12.6	14.2	85.3	75.5	71.4	86.5 ^R	106.6
Total available for domestic use ^(c)	69.9	69.5	66.0	70.0	67.4	454.3	519.7	523.0	561.0 ^R	579.9

Source: H.M. Revenue and Customs and Fisheries Administrations in the UK

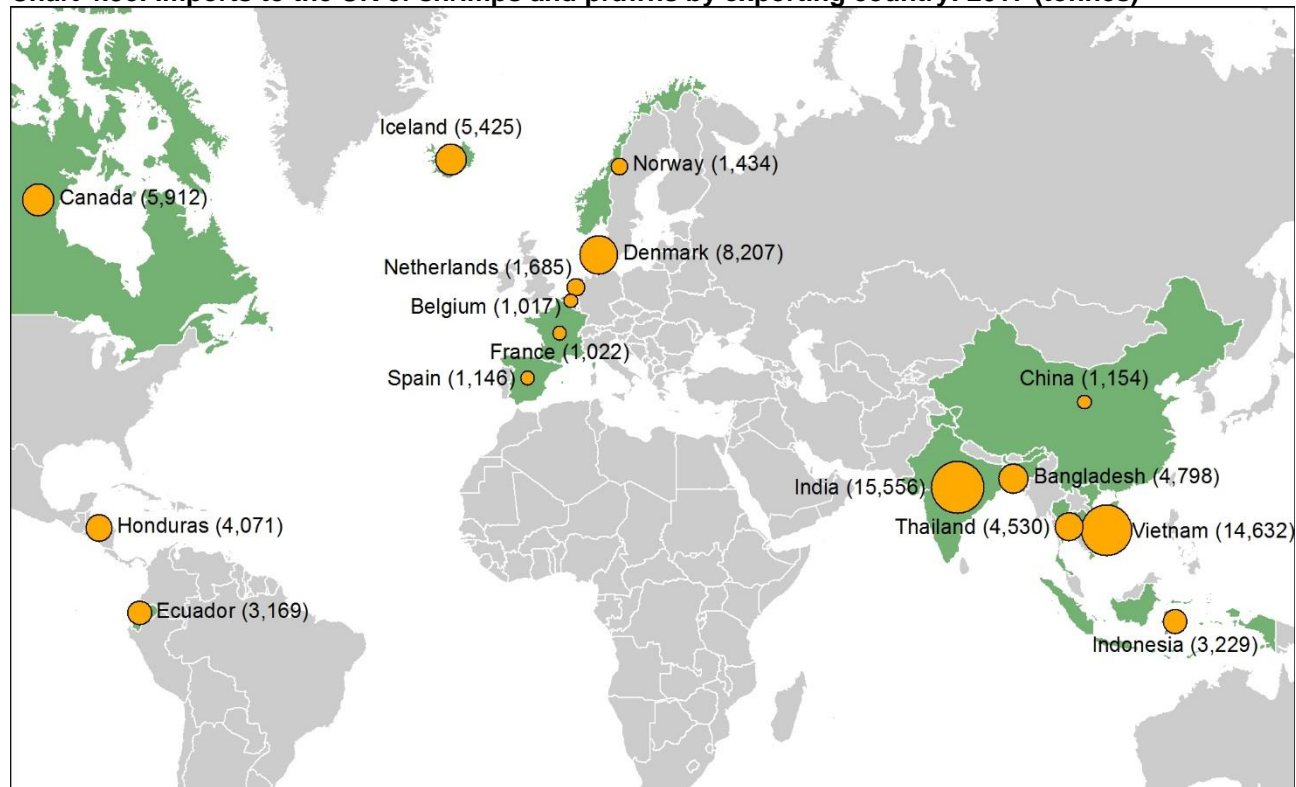
(a) Landings are given in terms of landed weight.

(b) Excludes fish products.

(c) Excludes sources of fish other than imports and landings into the UK by UK vessels from sea fisheries.

Over half the shrimps and prawns imported into the UK were from Asia. In 2017, the largest exporters of shrimps and prawns to the UK were India (16 thousand tonnes) and Vietnam (15 thousand tonnes). Denmark was next largest, with exports of 8 thousand tonnes.

Chart 4.3c: Imports to the UK of shrimps and prawns by exporting country: 2017 (tonnes)



Contains Collins Bartholomew data. © Collins Bartholomew copyright and database right 2017.

Note: Only countries from which the UK imported more than 1,000 tonnes of shrimps and prawns are shown.

Tuna

Virtually all tuna available for use in the UK is from abroad. In 2017, the UK imported 114 thousand tonnes of tuna of which 5 thousand tonnes were re-exported. This left 109 thousand tonnes available for domestic use, which is more or less the same as the amount for cod.

TABLE 4.4d Balance sheet for tuna for the UK: 2013 to 2017

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Landings by UK vessels into the UK ^(a)	..	..	..	..	..	..	..	..	..	..
Imports ^(b)	97.0	91.8	119.0	122.7	114.1	350.9	287.8	357.4	390.8	428.7
Total supplies ^(c)	97.0	91.8	119.0	122.7	114.1	350.9	287.8	357.4	390.8	428.7
Exports ^(b)	5.4	5.1	5.3	5.9	4.8	17.9	18.7	19.2	22.6	20.1
Total available for domestic use ^(c)	91.6	86.7	113.6	116.8	109.3	332.9	269.1	338.2	368.2	408.7

Source: H.M. Revenue and Customs and Fisheries Administrations in the UK

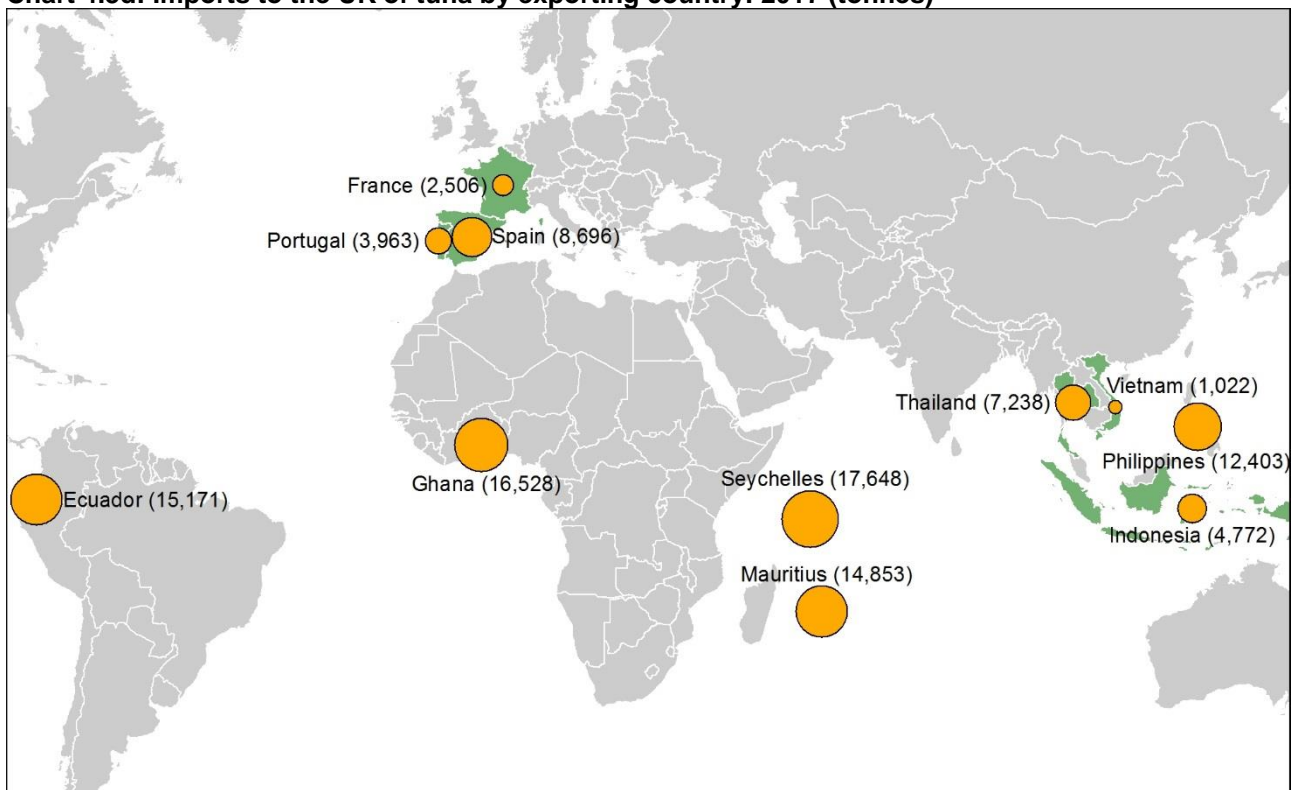
(a) Landings are given in terms of landed weight.

(b) Excludes fish products.

(c) Excludes sources of fish other than imports and landings into the UK by UK vessels from sea fisheries.

In 2017, the largest tuna exporters to the UK were the Seychelles (18 thousand tonnes), followed by Ghana (17 thousand tonnes) and Ecuador (15 thousand tonnes). Most imported tuna from Europe came from Spain (9 thousand tonnes).

Chart 4.3d: Imports to the UK of tuna by exporting country: 2017 (tonnes)



Contains Collins Bartholomew data. © Collins Bartholomew copyright and database right 2017.

Note: Only countries from which the UK imported more than 1,000 tonnes of tuna are shown.

Mackerel

The UK is a net exporter of mackerel. UK vessels landed 95 thousand tonnes of mackerel into the UK in 2017. Mackerel imports increased to 26 thousand tonnes and exports fell to 78 thousand tonnes. The amount available for domestic use rose to 44 thousand tonnes. This means that just over a third of the supply of mackerel remains in the UK.

TABLE 4.4e Balance sheet for mackerel for the UK: 2013 to 2017

	Quantity ('000 tonnes)					Value (£ million)				
	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017
Landings by UK vessels into the UK ^(a)	78.2	126.2	94.8	103.9	95.5	70.1	104.1	60.6	88.8	86.4
Imports ^(b)	29.9	33.2	19.0	19.0	26.5	57.5	53.2	38.9	42.9	52.4
Total supplies ^(c)	108.1	159.4	113.8	122.9	121.9	127.6	157.3	99.4	131.7	138.9
Exports ^(b)	80.8	120.3	80.3	83.7 ^R	77.6	99.7	128.5	67.7	81.0 ^R	87.4
Total available for domestic use ^(c)	27.3	39.1	33.6	39.1	44.3	27.8	28.8	31.7	50.7 ^R	51.5

Source: H.M. Revenue and Customs and Fisheries Administrations in the UK

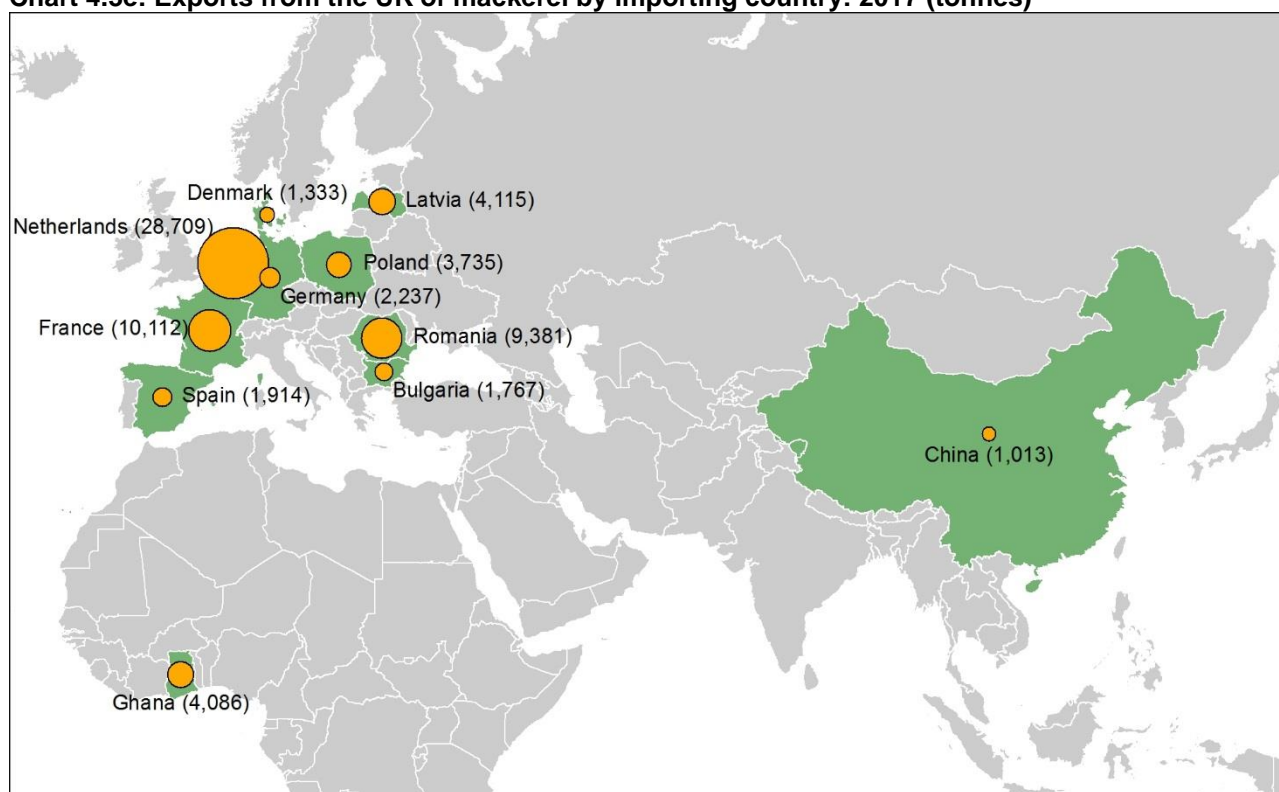
(a) Landings are given in terms of landed weight.

(b) Excludes fish products.

(c) Excludes sources of fish other than imports and landings into the UK by UK vessels from sea fisheries.

The largest share of mackerel exports in 2017 went to the Netherlands (29 thousand tonnes), partly for Dutch consumption but also for processing for African customers. France received 10 thousand tonnes and Romania 9 thousand tonnes. Exports to Nigeria fell from 13 thousand tonnes in 2016 to 500 tonnes in 2017.

Chart 4.3e: Exports from the UK of mackerel by importing country: 2017 (tonnes)



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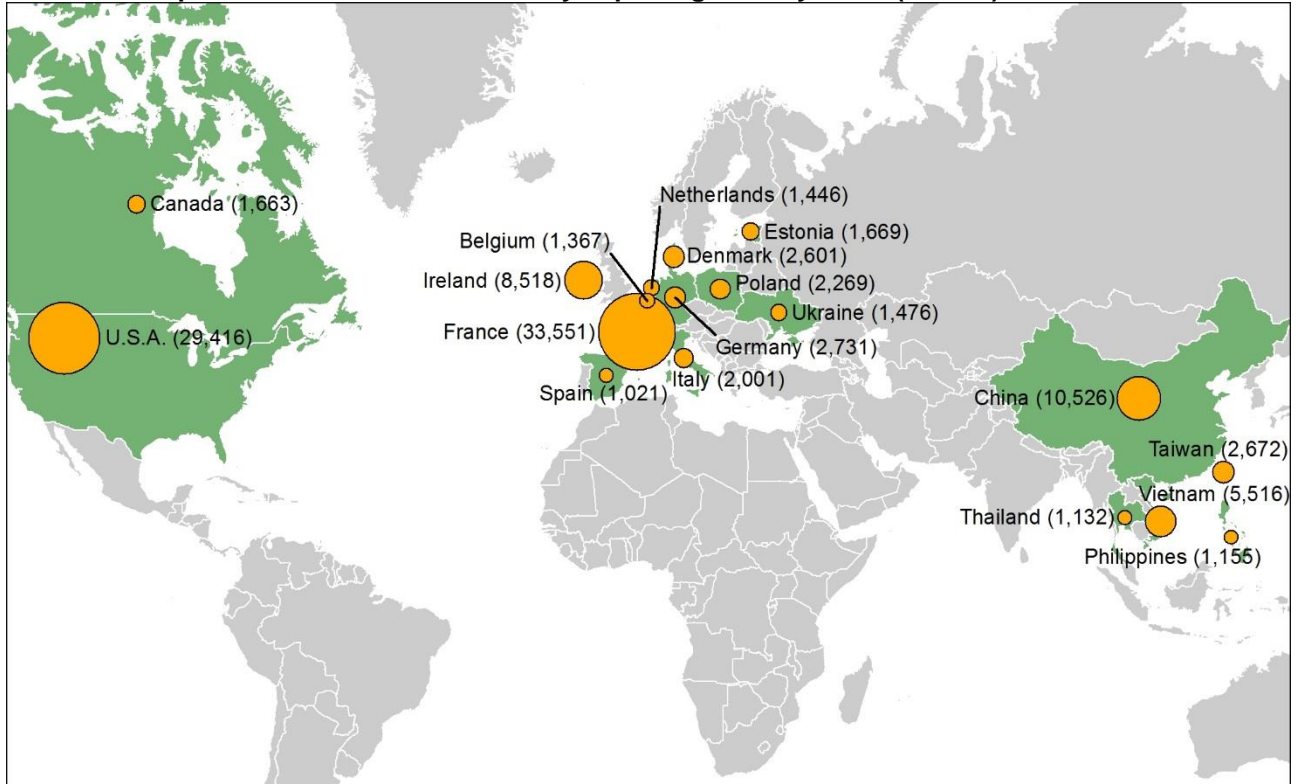
Note: Only countries to which the UK exported more than 1,000 tonnes of mackerel are shown.

Salmon

In 2017, the UK exported 116 thousand tonnes of salmon. This freshwater species is sourced from UK aquaculture and inland fisheries, as well as from imports. The UK imported 74 thousand tonnes of salmon from abroad in 2017, making the UK a net exporter.

In 2017, half of all salmon exports went to EU member states, in particular France, which imported 34 thousand tonnes. The USA was the second largest importer (29 thousand tonnes), followed by China (11 thousand tonnes).

Chart 4.3f: Exports from the UK of salmon by importing country: 2017 (tonnes)



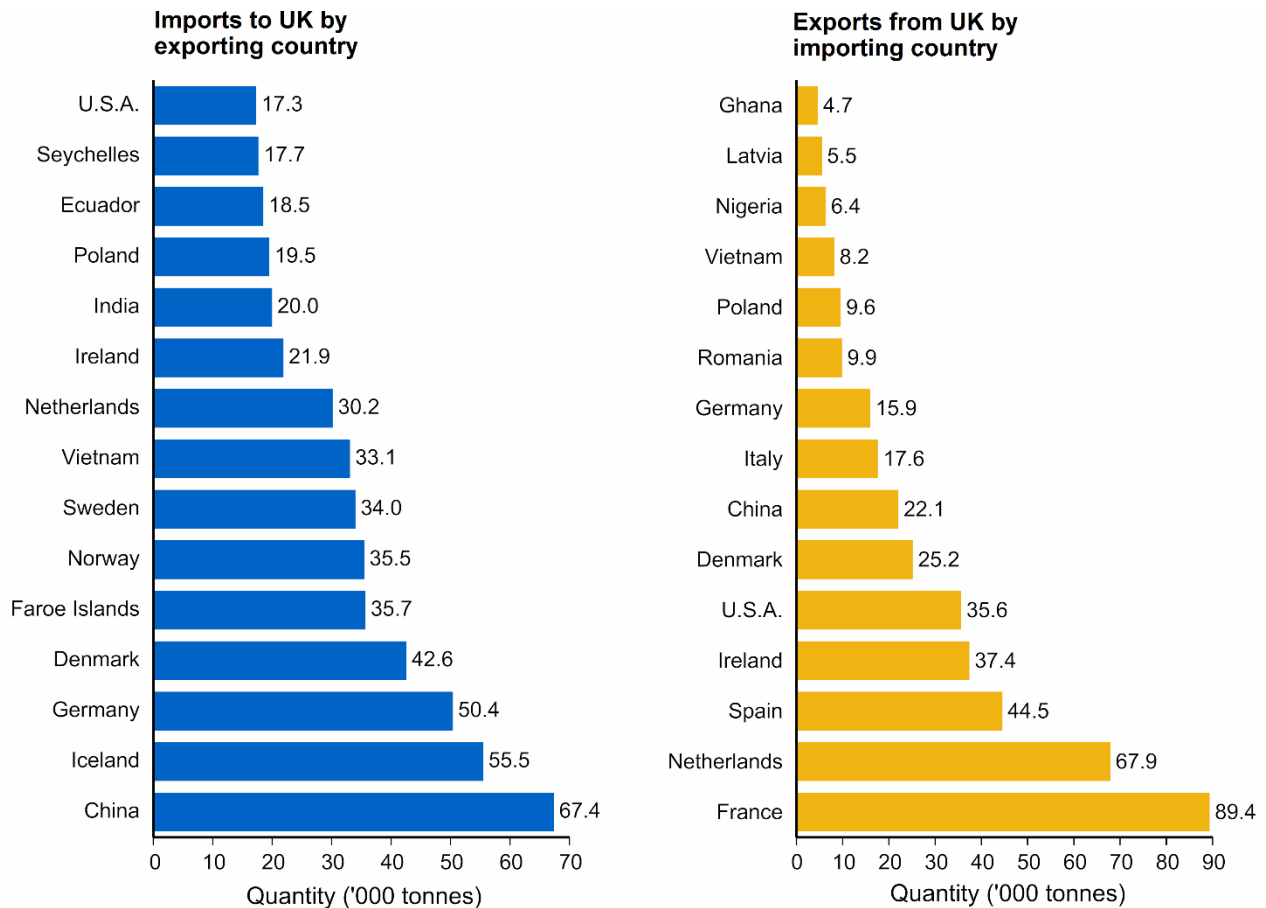
Contains Collins Bartholomew data. © Collins Bartholomew copyright and database right 2017.
Note: Only countries to which the UK exported more than 1,000 tonnes of salmon are shown.

Imports and exports by country

The largest exporters to the UK in 2017 were China (67 thousand tonnes) and Iceland (56 thousand tonnes). They were followed by Germany (50 thousand tonnes), Denmark (43 thousand tonnes) and the Faroe Islands (36 thousand tonnes).

The UK exported the largest amounts to France (89 thousand tonnes), the Netherlands (68 thousand tonnes), Spain (45 thousand tonnes), Ireland (37 thousand tonnes) and the USA (36 thousand tonnes).

Chart 4.4: Imports and exports by country: 2017



Household consumption and inflation

Household consumption of fish fell by 5 per cent to 467 thousand tonnes in 2016. Consumer expenditure on fish fell by 4 per cent to £4.3 billion. Household expenditure on fish as a proportion of overall expenditure on food fell from 5.6 per cent in 2015 to 5.3 per cent in 2016.

TABLE 4.5 Household consumption and inflation: 2007 to 2017

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Household consumption											
('000 tonnes)	515	510	501	483	472	467	481	479	490	467	nd
Population ('000 persons) ^(a)	59,737	60,816	60,907	61,464	61,528	61,946	63,421	63,879	64,188	65,648	nd
Consumers expenditure											
on fish (£ million)	3,599	3,650	3,711	3,742	3,866	3,998	4,271	4,309	4,512	4,317	nd
on food (£ million) ^(b)	77,716	67,635	70,143	72,587	73,744	77,523	81,291	80,669	79,964	81,783	nd
Fish as a % of food ^(b)	4.6%	5.4%	5.3%	5.2%	5.2%	5.2%	5.3%	5.3%	5.6%	5.3%	nd
Landed Price Index ^(c)	136.2	141.1	141.7	152.2	163.7	153.9	149.3	150.8	146.5	171.9	182.9
Retail Price Index ^(d)	115.7	123.9	130.3	138.2	151.0	157.4	163.4	168.2	163.2	159.9	173.2
Consumer Price Index ^(e)	120.8	126.8	131.5	140.1	153.0	158.5	163.6	167.8	161.9	158.2	172.2

Source: Fisheries Administrations in the UK, Expenditure and Food Survey, Office for National Statistics

(a) The population estimates have been updated to be consistent with the Living Costs and Food Survey figures, which provide the basis for the household consumption and consumers' expenditure figures given in this table.

(b) Including non-alcoholic beverages.

(c) The landed price index has been calculated on an annual basis with 2000 = 100.

(d) The fish component of the RPI which includes canned and processed fish. The index has been re-based such that 2000 = 100.

(e) The fish component of the CPI which includes canned and processed fish. The index has been re-based such that 2000 = 100.

Note: Additional data on household purchases are available from the MMO website as supplementary Tables 4.5a and 4.5b.

The landed price index (LPI) measures the average change in the prices of fish landed by UK vessels into the UK at first sale. It provides a measure of domestic inflation in the price of fish landed by UK vessels into the UK. The LPI rose by 6 per cent in 2017.

The consumer price index (CPI) measures the average change in the prices of goods and services bought for the purpose of consumption in the UK. It includes a component for prices of fish, based on a 'basket' of six items: fresh white fish fillets, fresh salmon fillets, frozen prawns, canned tuna, fish fingers, and frozen breaded/battered white fish. The retail price index (RPI) is a similar inflation measure, calculated according to a different formula (see Appendix 4, UK fisheries statistics methodology). The RPI uses the same 'basket' of items for fish.

In 2017, the fish components of the RPI and CPI rose by 8 and 9 per cent respectively compared with 2016.

GDP for fishing

The gross value added (GVA) for fishing has fluctuated in recent years. GVA for fishing now stands at £795 million, an increase of 11 per cent in the year.

There has been some fluctuation in the GVA in the wider agriculture, forestry and fishing sector over the past decade, with fishing forming 6.5 per cent of GVA in this sector in 2017, the highest in over a decade.

UK gross domestic product increased in each of the last eight years and stood at £1,840 billion in 2017.

TABLE 4.6 GDP for fishing: 2007 to 2017

£ million (unless otherwise specified)

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
GDP for Fishing ^{(a)(b)}											
Current price gross value added at basic prices (KK37)	469	452	466	577	490	539	491	581	569	718	795
Output index (chain volume measures) (L2KO) (2016=100)	90.5	86.1	88.1	91.0	91.4	91.3	91.0	103.3	99.9	100.0	97.3
GDP for Agriculture, Forestry and Fishing ^(b)											
Current price gross value added at basic prices (KKD5)	8,737	9,961	8,467	10,469	10,015	10,233	11,554	11,820	11,177	11,448	12,250
Output index (chain volume measures) (L2KL) (2016=100)	90.2	96.4	90.6	90.2	100.0	93.1	93.5	104.9	106.0	100.0	102.9
GDP at Market Prices ^(b)											
Current price GDP at market prices (KKP5) (£ billion)	1,388	1,430	1,400	1,430	1,468	1,515	1,573	1,646	1,692	1,756	1,840
Chain volume measures index (YBEZ) (2016=100)	91.3	91.0	87.1	88.6	90.1	91.4	93.2	96.0	98.2	100.0	101.7
Percentage contribution of GVA from fishing to GVA for agriculture, hunting, forestry and fishing											
Current prices (%)	5.4%	4.5%	5.5%	5.5%	4.9%	5.3%	4.2%	4.9%	5.1%	6.3%	6.5%

Source: Office for National Statistics

(a) GDP for fishing includes landings abroad and aquaculture, according to the KK37 index.

(b) GDP figures compiled in line with ESA2010 since September 2014. All values have been recalculated since the last publication.

5 Main stocks and their level of exploitation

Commentary provided by Dr Carl M. O'Brien CBE, Defra Chief Fisheries Science Adviser

The management of stocks

Fisheries are managed using a Total Allowable Catch or TAC (corresponding to a particular harvesting rate), and technical measures (mainly mesh sizes and minimum landing sizes, but sometimes closed areas, which determine the smallest fish that can be caught and landed) based on scientific advice.

In the EU, the TAC is set each year by the Council of Ministers following negotiations on catch options that are provided by the Advisory Committee (ACOM) of the International Council for the Exploration of the Sea (ICES), an independent scientific body. For the main North Sea stocks these options take into account the terms of a management agreement between the EU and Norway. Once a TAC is agreed for each stock and fishing area, it is allocated as quotas to Member States in accordance with fixed percentages based on historic fishing rights.

In past years, some seriously depleted stocks have become the subject of emergency measures and recovery plan proposals. Since 2003, the TAC and fishing mortality for some of these stocks have been linked to effort control measures that restrict the number of fishing days at sea per annum permitted for fleets capturing recovery species.

Scientific assessment and advice

ICES advice is based on stock assessments carried out at international working groups, where fishery scientists from the UK and the other nations compile fisheries data, biological data and survey data for use in fisheries science models. The age structure of a stock (the relative proportion of the different age groups) is largely determined by the fishing rate and by the numbers of young fish that enter the stock each year. When information on age structure is combined with data on landings, fishing effort, and the results of standardised stock surveys carried out by research vessels, the models are able to estimate the historical trend in fishing rate and stock abundance, up to the last full year of data. The assessment is then used to forecast the expected catch in an upcoming TAC year for a range of fishing rate options, taking into account the number of young fish that are expected to enter the stock, based either on survey data, or a recent historic average.

This chapter summarises the present state of the main stocks based on advice from ACOM released during 2017, which evaluated stock assessments using fisheries data for years up to and including 2016, and survey data up to and including 2017. The 2017 ACOM advice formed the basis for the EU proposals that led to the TACs and other measures agreed for 2018 by the EU Council of Ministers.

Details are contained within Council Regulation (EU) No 2018/120 of 23 January 2018 fixing for 2018 the fishing opportunities for certain fish stocks and groups of fish stocks, applicable in Union waters and, for Union vessels, in certain non-Union waters, and amending Regulation (EU) 2017/127. Subsequently, changes may be made during 2018.

The fisheries zones used to base ICES stock assessments on are sometimes different from those used to allocate TACs. Table 5.1 below shows the generic title of each fishing zone and the specific areas included for ICES stock assessments and EU TAC allocations.

TABLE 5.1 Fishing areas used for ICES stock assessments and EU TAC allocations

Species	Title	Fishing areas included in:	
		ICES Stock Assessments	EU TAC/Quota allocations
Cod	North Sea	IV, VIIId, IIIa	IIa (EC), IV ^(a)
	West of Scotland	VIa	Vb (EC), VIa
	Irish Sea	VIIa	VIIa
	Celtic Sea	VIIe-k	VII (ex VIIa, VIIId), VIII, IX, X; CECAF 34.1.1 (EC)
Haddock	North Sea, Skagerrak and West of Scotland	IV, IIIa, VIa	IIa (EC), IV Vb (EC), VIa
Plaice	North Sea	IV	IIa (EC), IV
	Irish Sea	VIIa	VIIa
Sole	North Sea	IV	II, IV
	Irish Sea	VIIa	VIIa
	Eastern Channel	VIIId	VIIId
	Western Channel	VIIe	VIIe
Herring	North Sea	IV, VIIId, IIIa	IV (EC and Norway North of 53° 30'N) ^(a)
Mackerel	North East Atlantic	All ICES sub-areas	II (ex EC), Vb (EC), VI, VII, VIIIabde, XII, XIV ^(a)

Source: ICES and the European Commission

(a) Only largest stock shown. TACs have been set for other fishing areas covered by the stock assessment.

Summary stock presentation

For the main fish stocks, a summary of ICES data and assessments, where available, has been provided. These comprise four charts (a to d) showing total removals or landings, fishing mortality rates (F), recruitment and spawning stock biomass (SSB) since 1997 and exceptionally, since 1996. The data are official statistics and not subject to National Statistics accreditation. ICES' stock assessments since 2007 for each of these fisheries are also shown, with the exception of the recently combined stock North Sea, Skagerrak and West of Scotland haddock whose assessments begin in 2014. The location of the relevant areas for each stock is shown in Appendix 3.

It is important to note that the figures shown are, for each stock, the time series of estimates of abundance and fishing mortality provided by ICES in 2017. These are based on fishery and survey data collected up to the most recent year, unless otherwise commented upon in the narrative provided.

Total removals or landings - Chart a

Total removals equals total reported fish landings plus an estimate for discards and may include estimates of non-attributive losses. Landings are used where total removal figures are not available and charts are headed accordingly.

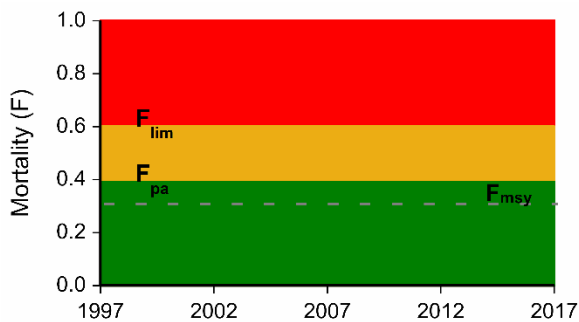
Fishing Mortality (F) - Chart b

Fishing mortality rate (F) is a measure of the proportion of fish taken from a stock each year by fishing activity. Fishing mortality rates are calculated from mathematical models used to assess fish stocks. An F value of 1 indicates that approximately 60 per cent of a stock is removed by fishing activity.

ICES provides fisheries advice that is consistent with the broad international policy norms of the precautionary approach, maximum sustainable yield (MSY), and an ecosystem approach while at the same time responding to the specific needs of the management bodies requesting advice.

Since 1999 the ICES' advice has identified which catch options meet precautionary criteria. These criteria aim to ensure sustainability by keeping the fishing rate below a **maximum precautionary** level, F_{pa} (set low enough to allow a margin of error sufficient to keep F below an **upper limit** level, F_{lim}). The nature of ICES' fisheries advice is evolving and that evolution includes options for a transition process to attain full implementation of the MSY approach by 2015 where possible and, on a progressive, incremental basis at the latest by 2020. Ecosystem limitations on fisheries have typically not yet been identified in management policies in the ICES' area. However, as the EU Marine Strategy Framework Directive (MSFD) is implemented, such limits will be recognized to achieve environmental objectives, especially regarding biodiversity, sea floor integrity, and food webs. In advance of this, ICES continues to strive towards providing advice that includes a greater range of information on fisheries and the marine ecosystem. For the first time in 2012, and then subsequently in the following years to date, ICES presented options that incorporate technical interactions for mixed demersal fisheries in the North Sea – options are given as scenarios based on single-stock assessments combined with knowledge on the species composition of catches in North Sea fisheries. In this way, for example, harvests may be further limited in consideration of potential fishery impacts on marine ecosystems beyond the impact on target fish stocks. Additionally, ICES now provides similar options for mixed demersal fisheries in the Celtic Sea.

For each of the main stocks a time series of F will be plotted against a colour coded background highlighting the precautionary levels set by ICES as shown below, for example. In addition, the value of F_{MSY} , presented as a grey line, is shown when available.



Green: Harvested sustainably - where F is below F_{pa} the stock is deemed to be fished in a sustainable way and fishing pressure is below the level recommended by ICES.

Amber: At risk of being harvested unsustainably - where F is above F_{pa} and below F_{lim} then fishing pressure is higher than the maximum level recommended by ICES. If it is not reduced it could lead to depletion of the stock in the future.

Red: Harvested unsustainably - where F is above F_{lim} fishing pressure is much higher than the maximum level recommended by ICES and if continued is likely to deplete the stock, if it has not done so already.

For some stocks ICES may only given a level for F_{pa} . In these cases, no amber region will appear on the chart. Additionally, in exceptional stock cases, ICES may review the data and modelling approaches for which the previously adopted precautionary fishing rates (F_{pa} and F_{lim}) are no longer

appropriate, for example. In such cases, no coloured regions will appear on the chart; but this is not the case for any stock this year's update.

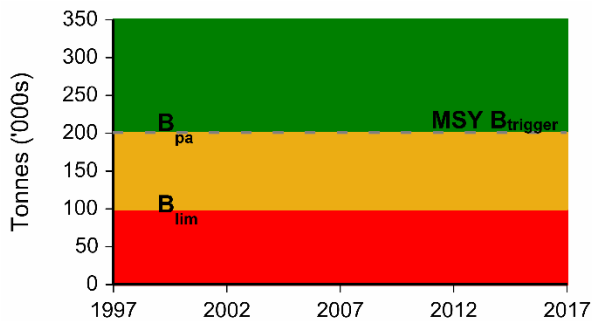
Recruitment - Chart c

Recruitment is the number of fish becoming available to a fishery stock in a year.

Spawning Stock Biomass (SSB) - Chart d

Spawning Stock Biomass (SSB) is the total estimated weight of all sexually mature fish in a stock. Since 1999 the ICES advice has identified which catch options meet precautionary criteria. These criteria aim to ensure sustainability by keeping SSB above a **minimum precautionary** level, B_{pa} (set high enough to allow a margin of error sufficient to keep SSB above a **lower limit** level, B_{lim}).

For each of the main stocks a time series of SSB will be plotted against a colour coded background highlighting the precautionary levels set by ICES as shown below. In addition, the value of MSY $B_{trigger}$, presented as a grey line, is shown when available. MSY $B_{trigger}$ is a biomass reference point that triggers a cautious response to reduce fishing mortality and is intended to safeguard against a low SSB when fishing at F_{MSY} ."



Green: Full reproductive capacity - where SSB is above B_{pa} the fish stock is deemed to be in a healthy state and above the minimum level recommended by ICES.

Amber: At risk of suffering reduced reproductive capacity - where SSB is below B_{pa} but above B_{lim} the stock has been classified as not being so low that it could be classed as being depleted. However, the amount of adult fish has fallen to a level where there is a risk that production is likely to be reduced.

Red: Reduced reproductive capacity - where SSB is below B_{lim} the stock has been classified as depleted and the stock is unlikely to be as productive as it could be. This indicates that fishing pressure needs to be reduced in order to give the stock a chance to rebuild.

For some stocks ICES has only supplied a level for B_{pa} . In these cases no amber region will appear on the chart.

Further information






More information on ICES' precautionary levels and the details of F_{MSY} and MSY $B_{trigger}$ can be found on the ICES web site www.ices.dk.

ICES stock assessments

The fish stock assessments presented here are derived from annual ACOM reports, and are categorized according to the ICES' definition of the state of the stock. The ICES' advice on the state of stocks is based on assessments carried out using the most up to date data available in that year. **It is important to note that assessments for previous years have not been updated using more recent data.** The comparison of SSB with B_{pa} is done using the value of SSB at the beginning of the

year in which the assessment was carried out. Where no B_{pa} value exists, the stock is treated as unknown.

Code Assessment description

-  Indicates stocks which are suffering reduced reproductive capacity
-  Indicates stocks which are at risk of suffering reduced reproductive capacity
-  Indicates stocks which are at full reproductive capacity but are either at risk of being harvested unsustainably or are being harvested unsustainably
-  Indicates stocks which are at full reproductive capacity and are being harvested sustainably
-  Indicates stocks where the current stock status is unknown

North Sea Cod – in ICES Sub-area IV (North Sea), ICES Division VIId (Eastern Channel) and ICES Division IIIa (Skagerrak)

The international fishing rate has been high since the 1980s, and has shown a decline since 2000. The number of young cod (recruitment) has been low since 1987, and even lower since 1998, causing serious concern. Since 2000, ICES advised that the TAC should be very low, or zero, and the EU reduced the TAC from 81,000 tonnes in 2000 to 48,600 tonnes in 2001, 49,300 tonnes in 2002, and 27,300 tonnes in 2003, 2004 and 2005. The minimum mesh size in the directed fisheries for cod was also increased to 120 mm in 2003. Agreement was reached in 2004 within the EU on a formal recovery plan that was operational during the TAC and management decision processes of 2004, effectively rendering the plan operational in 2005. Subsequently, this was repealed and replaced by Council Regulation (EC) No 1342/2008 to establish a long-term plan for cod stocks. The 2017 ICES' assessment indicates that fishing mortality has been declining since 2000 and that SSB has significantly increased from the historic low in 2006. However, the assessment in 2017 necessitated the re-calculation of reference points due to the revision of maturity estimates. The TAC for 2018 is 43,156 tonnes, compared with 39,220 tonnes in 2017 and 33,651 tonnes in 2016.

Chart 5.1a: Total removals

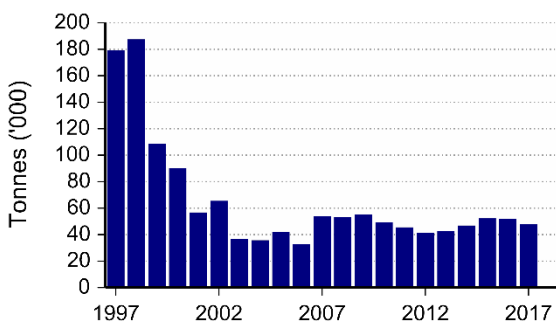


Chart 5.1b: Fishing mortality (F) – ages 2 - 4

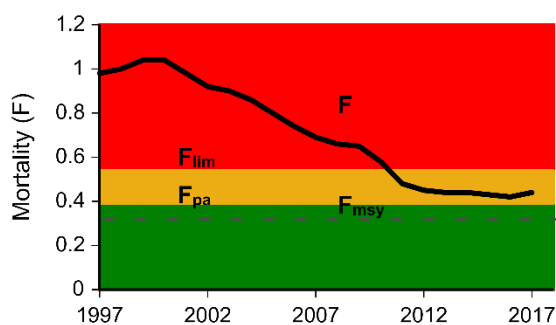


Chart 5.1c: Recruitment - age 1

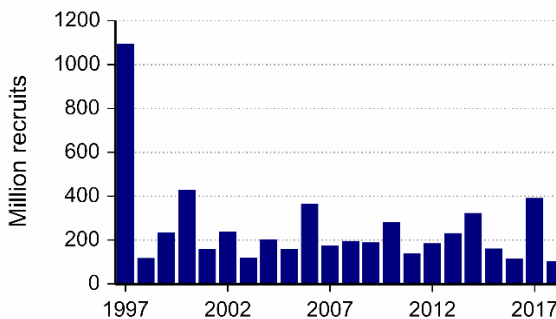
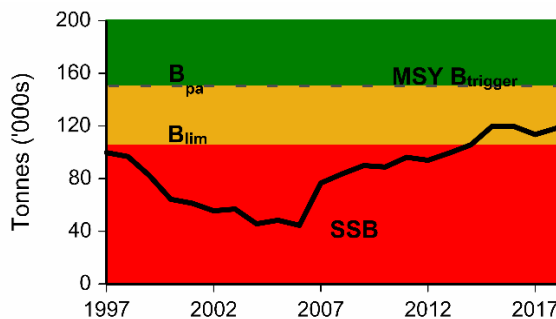


Chart 5.1d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: North Sea Cod

The cod stock in the North Sea has been assessed as suffering reduced reproductive capacity by ICES since 2007. The spawning stock biomass has increased from the historic low in 2006 and is now above B_{lim} in the vicinity of $MSY B_{trigger}$. In 2015 and 2016, it was assessed as at risk of suffering reduced reproductive capacity; whilst in 2017 the stock was assessed as being at full reproductive capacity and being harvested sustainably.



West of Scotland Cod – in ICES Division VIa

Previously, the cod stocks west of Scotland have been assessed as heavily over-exploited with respect to the rate that would lead to high long-term yields (F_{MSY}). SSB has increased slowly from an all time low in 2006 but remains well below B_{lim} . ICES called for a recovery plan in 2000, with low or zero catches, and the EU has since cut the cod TACs significantly, implemented two small closed areas, and in 2003 increased the main whitefish mesh size to 120 mm in line with the North Sea. Subsequently, the European Commission enacted Council Regulation (EC) No 423/2004 that established measures for the recovery of cod stocks; this was repealed and replaced by Council Regulation (EC) No 1342/2008 to establish a long-term plan for cod stocks which includes a west of Scotland management line that follows the 200 m depth contour. The TAC for 2018 is a by-catch provision only, the same as in the six previous years since 2012.

Chart 5.2a: Total removals

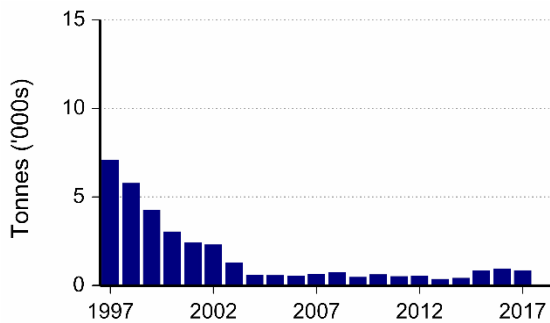


Chart 5.2b: Total mortality – ages 2 - 5

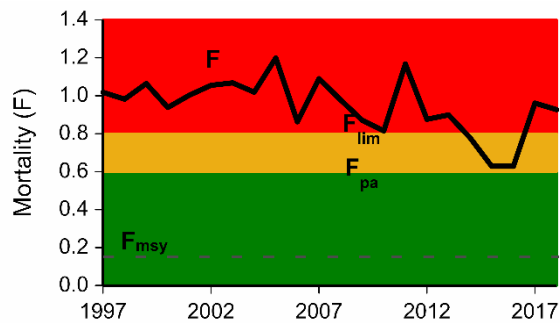


Chart 5.2c: Recruitment - age 1

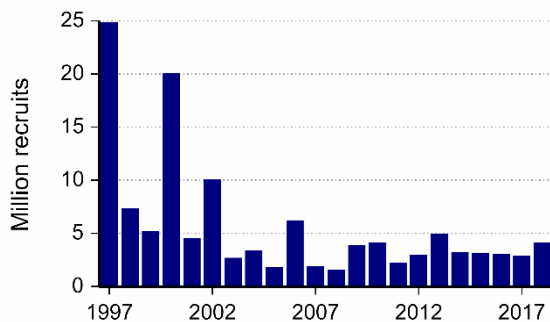
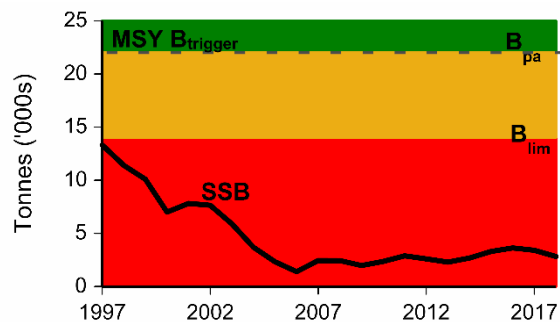


Chart 5.2d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: West of Scotland Cod

Cod stocks in the West of Scotland have been assessed as suffering reduced reproductive capacity from 2007 to 2017.

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Stock Assessments	(a,b)	(a,b)	(a,b)	(a,b)	(a,b)						

(a) Total mortality cannot be accurately partitioned into F and M.

(b) Status uncertain in terms of F relative to F_{pa} , but suffering reduced reproductive capacity.

Irish Sea Cod - in ICES Division VIIa (Irish Sea)

The cod stocks in the Irish Sea are seriously depleted, and landings fell rapidly during the 1980s and 1990s. Historically, the fishing rate has been very high, spawning stocks have fallen below both the precautionary and the lower limit level, and the abundance of young cod has been in decline since 1990. After 2000, the EU significantly reduced the cod TAC, closed the cod spawning area in the western Irish Sea during the spawning season, and increased the main whitefish mesh size to 100 mm. The European Commission enacted a Council Regulation (EC) No 423/2004 that established measures for the recovery of cod stocks which was repealed and replaced by Council Regulation (EC) No 1342/2008 to establish a long-term plan for cod stocks. The assessment in 2017 was benchmarked by ICES and provides a significant change in perception showing that the fishing mortality rate has been below F_{MSY} since 2013. The cod TAC agreed for 2018 is 695 tonnes, compared with 146 tonnes in both 2017 and 2016.

Chart 5.3a: Total landings

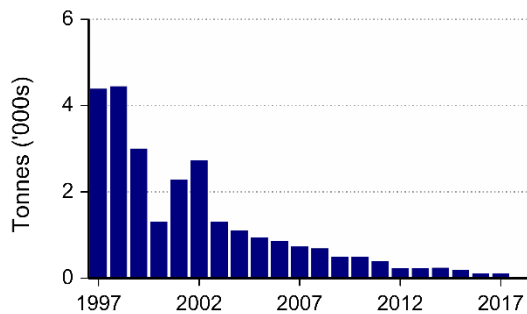


Chart 5.3b: Fishing mortality (F) – ages 2 - 4

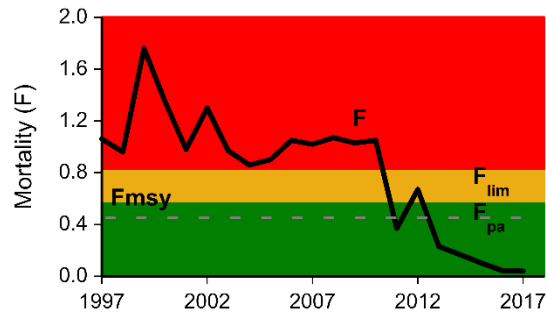


Chart 5.3c: Recruitment - age 0

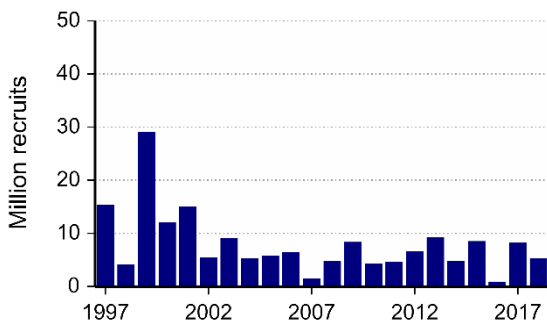
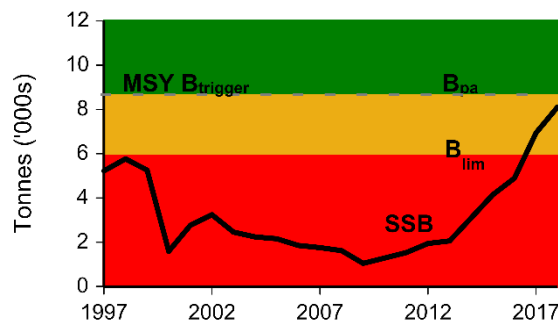


Chart 5.3d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: Irish Sea Cod

Irish Sea cod has been assessed to be suffering reduced reproductive capacity between 2007 and 2016; whilst in 2017 the stock was assessed as being at full reproductive capacity and being harvested sustainably.



Celtic Sea Cod – in ICES Divisions VIIe-k

Internationally, cod in ICES Divisions VIIe-k is caught in a range of fisheries including gadoid trawlers, *Nephrops* trawlers, otter trawlers, beam trawlers and gill-netters. This species is managed within a wider area; namely, ICES Divisions VIIb-k (excluding ICES Division VIId from 2009), ICES Sub-areas VIII, IX, X and CECAF 34.1.1, but ICES advice applies only to ICES Divisions VIIe-k. The Celtic Sea cod stock was excluded from the EU's 2004 cod recovery plan. In 2012 the ICES' cod assessment revised the time series estimates of fishing rate, spawning stock and recruitment, following a review of data and modelling approaches for which the previously adopted precautionary fishing rates (F_{pa} and F_{lim}) were no longer appropriate. In 2015 the ICES' cod assessment revised the precautionary fishing rates and the assessment in 2017 shows that the fishing mortality has been decreasing since 2014 but remains above F_{MSY} .

Chart 5.4a: Total landings

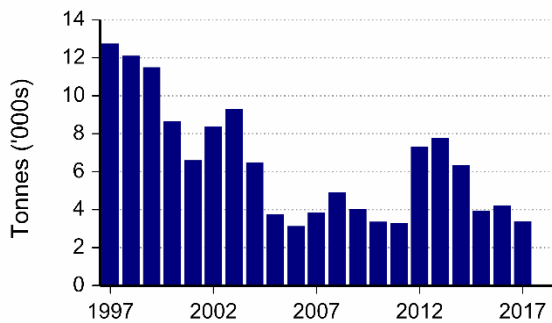


Chart 5.4b: Fishing mortality (F) – ages 2 - 5

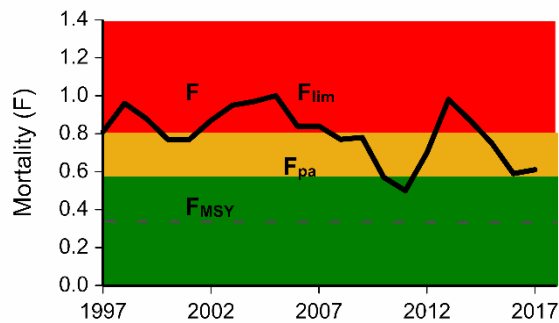


Chart 5.4c: Recruitment - age 1

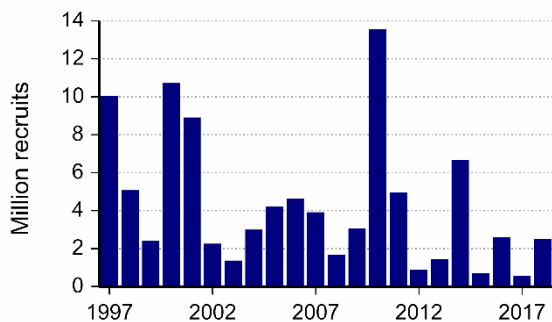
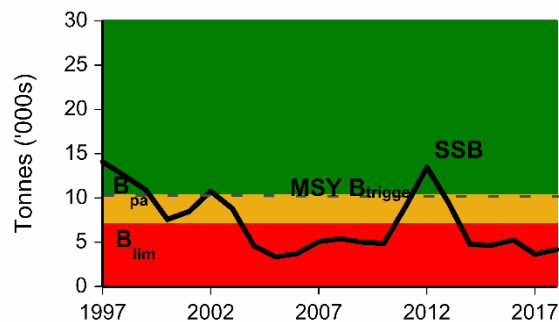


Chart 5.4d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: Celtic Sea Cod

In 2007 cod in the Celtic Sea has been assessed as suffering reduced reproductive capacity. In 2008, cod in the Celtic Sea was assessed as at risk of suffering reduced reproductive capacity and in 2009 and 2010 an assessment was unable to be made. Subsequently in 2011, cod in the Celtic Sea was assessed as being at full reproductive capacity and being harvested sustainably, and in 2012, 2013 and 2014 it was assessed as remaining at full reproductive capacity but with fishing rate unknown with respect to precautionary values F_{pa} and F_{lim} . In 2015 and 2016, it was assessed as at risk of suffering reduced reproductive capacity; whilst in 2017 the stock was assessed as suffering reduced reproductive capacity.



North Sea, Skagerrak and West of Scotland Haddock – in ICES Sub-area IV (North Sea) and ICES Divisions IIIa (Skagerrak – Kattegat) and VIa (West of Scotland)

The haddock stock in the North Sea and Skagerrak is managed under an EU-Norway long-term management plan which is intended to constrain harvesting within safe biological limits and to provide for sustainable fisheries. Recruitment has been characterized by occasional large year-classes, the last of which was the strong 1999 year-class. Since the 2014 assessment, this haddock stock has been combined with haddock in the Northern Shelf and assessed as a single stock by ICES.

The 2017 assessment shows that the fishing mortality rate has been fluctuating above F_{MSY} for most of the time series and that SSB has been mostly above $MSY B_{trigger}$ since 2002; and that apart from the relatively strong 2005 and 2009 year-classes recent recruitment has been poor.

In the North Sea, the haddock TAC was set at 61,933 tonnes for 2016, 33,643 tonnes in 2017 and 41,767 tonnes in 2018.

In the West of Scotland, the TAC for 2018 is 4,654 tonnes, compared with 3,697 tonnes in 2017 and 6,462 tonnes in 2016.

Chart 5.5a: Total removals

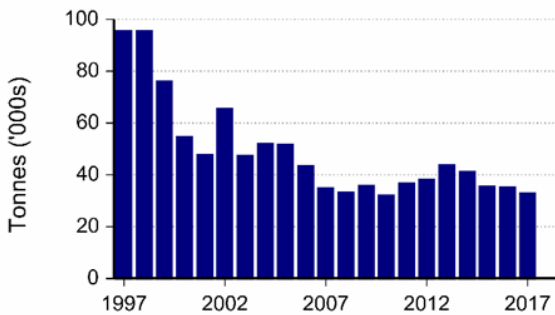


Chart 5.5b: Fishing mortality (F) – ages 2 - 4

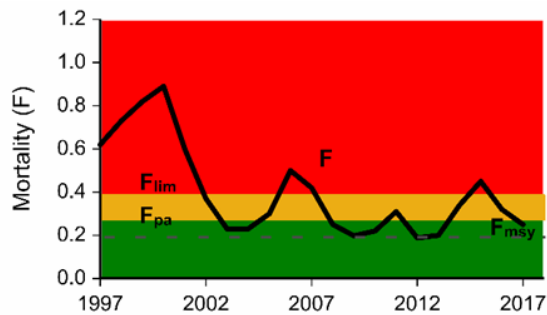


Chart 5.5c: Recruitment - age 0

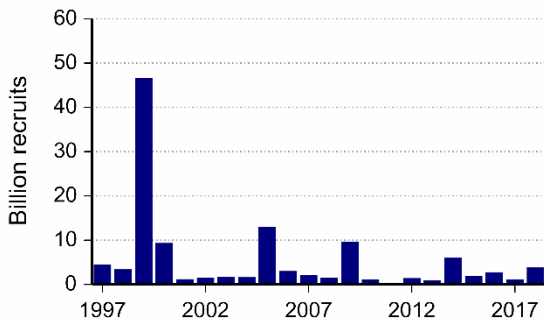
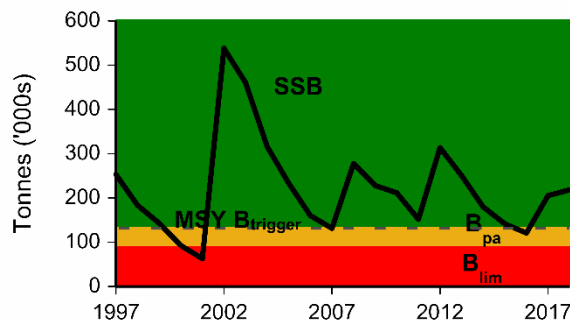


Chart 5.5d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: North Sea, Skagerrak and West of Scotland

In 2014 and 2015, ICES has assessed the new combined area haddock stock as being at full reproductive capacity and being harvested sustainably. In 2016, however, it was assessed as at risk of suffering reduced reproductive capacity; whilst in 2017 the stock was again assessed as being at full reproductive capacity and being harvested sustainably.



North Sea Plaice – in ICES Sub-area IV (North Sea)

The plaice assessments have included estimates of discards since 2004. This has changed the perception of the plaice stock relative to precautionary values. It shows landings and SSB falling steeply after 1990 as the fishing rate increased to a peak in 1997, with SSB currently well above $MSY B_{trigger}$, and with the fishing rate estimated to have decreased to below F_{pa} and consistent with high long-term yields (F_{MSY}). A long-term management plan for North Sea plaice and sole has been under development within the European Commission – final details are contained within Council Regulation (EC) No 676/2007 of 11 June 2007. The TAC for 2018 is 112,643 tonnes, compared with 129,917 tonnes in 2017 and 131,714 tonnes in 2016.

Chart 5.6a: Total removals

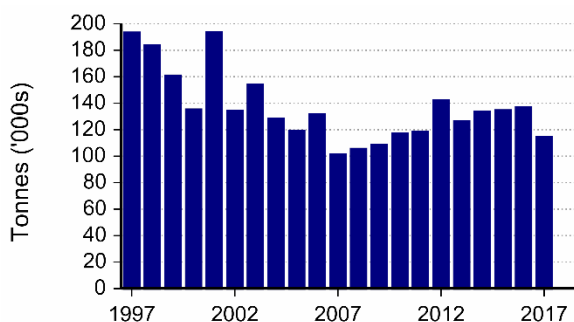


Chart 5.6b: Fishing mortality (F) – ages 2 - 6

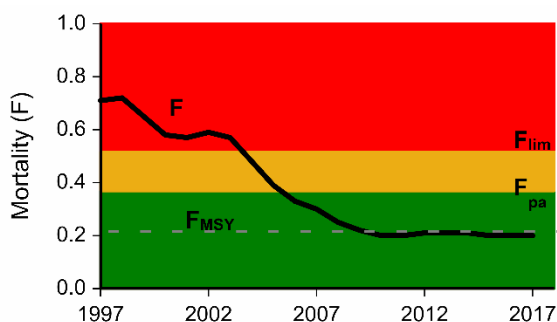


Chart 5.6c: Recruitment - age 1

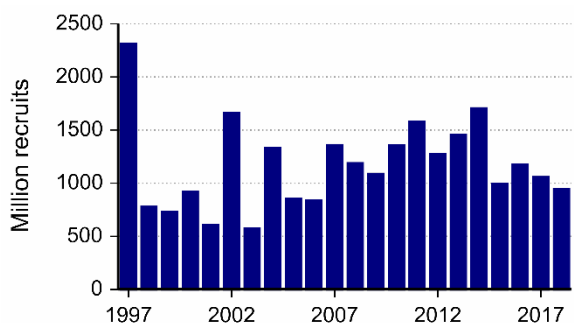
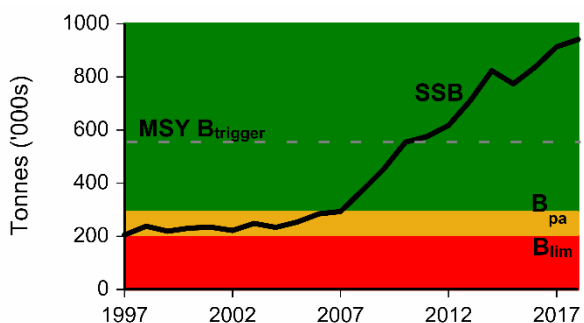


Chart 5.6d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: North Sea Plaice

The North Sea plaice assessment in 2007 was that the stock was at risk of suffering reduced reproductive capacity. Subsequent assessments have improved and since 2008 the stock is assessed to be at full reproductive capacity and being harvested sustainably.



Irish Sea Plaice - in ICES Division VIIa (Irish Sea)

The fishing rate on Irish Sea plaice has shown a declining trend since the early 1990s and the SSB trend show an increase in stock size since the mid-1990s. Discards are included in the ICES assessment; together with discard survivability estimates. The assessment in 2017 was benchmarked by ICES and precautionary boundaries provided; together with values for F_{MSY} and $MSY B_{trigger}$. The plaice TAC agreed for 2018 is 1,793 tonnes, compared with 1,098 tonnes in the three previous years (2017, 2016 and 2015).

Chart 5.7a: Total landings

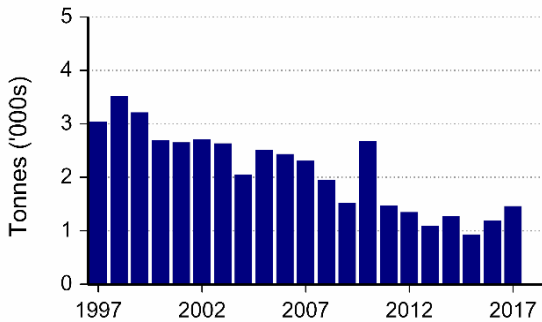


Chart 5.7b: Fishing mortality (F) – ages 3 – 6

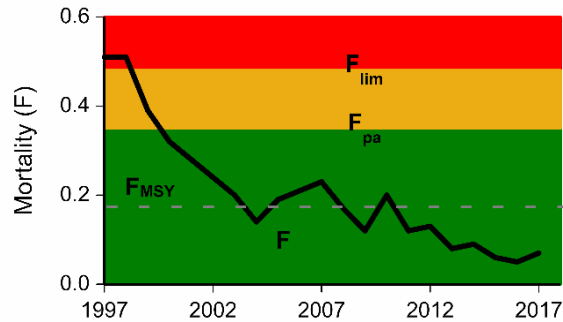


Chart 5.7c: Recruitment - age 2

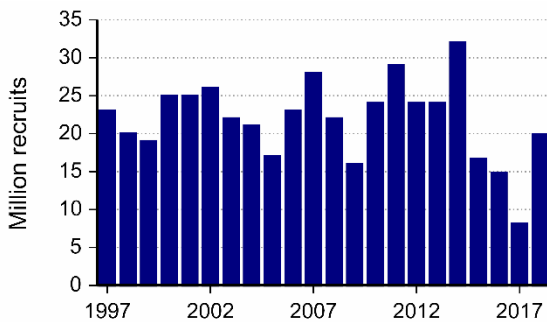
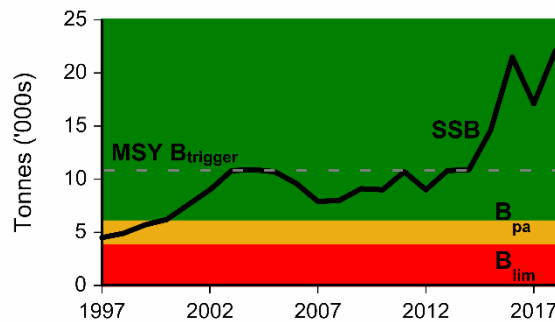


Chart 5.7d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: Irish Sea Plaice

Between 2007 and 2009 Irish Sea plaice has been assessed as being at full reproductive capacity and being harvested sustainably. Since 2010 the available information has been inadequate to determine stock status relative to precautionary boundaries until 2017 when the stock was again assessed as being at full reproductive capacity and being harvested sustainably.



North Sea Sole – in ICES Sub-area IV (North Sea)

The fishing rate for North Sea sole has fluctuated above the precautionary level in the past, falling below this since 2008. Periodic good year-classes have raised SSB above the precautionary level from time to time. SSB has fluctuated around the precautionary reference points during the last decade and has been increasing since 2007 and has been estimated at above MSY $B_{trigger}$ since 2012; and the fishing rate has declined since 1997 and is close to the rate that would lead to high long-term yields (F_{MSY}). The TAC agreed for 2018 is 15,694 tonnes, compared with 16,123 tonnes in 2017 and 13,262 tonnes in 2016.

Chart 5.8a: Total landings

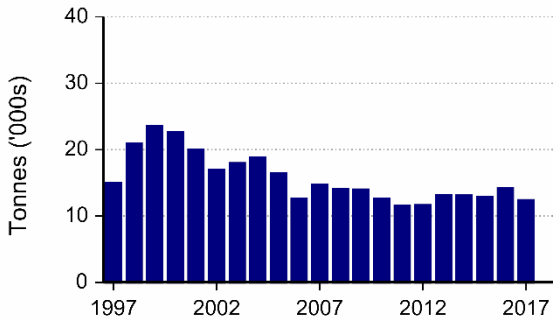


Chart 5.8b: Fishing mortality (F) – ages 2 - 6

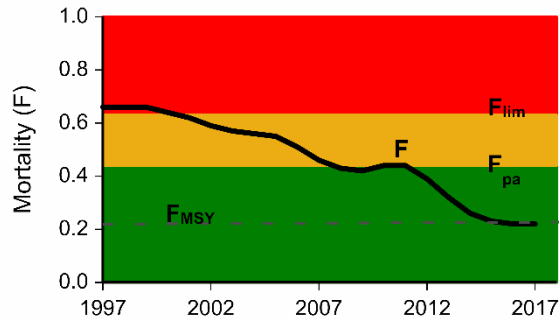


Chart 5.8c: Recruitment - age 1

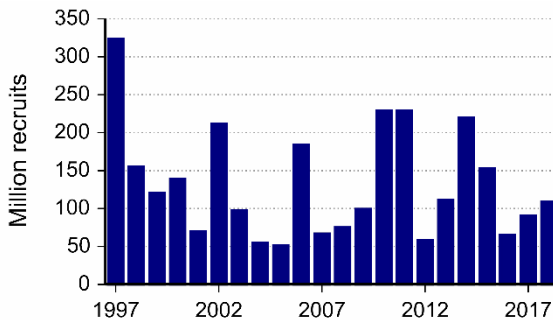
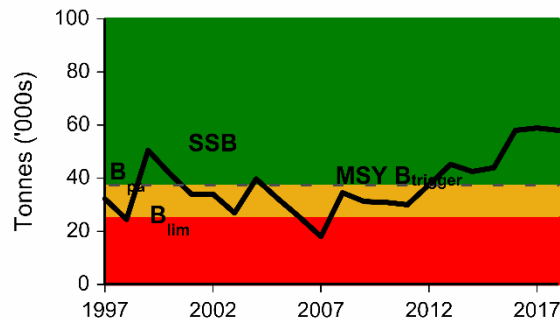


Chart 5.8d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: North Sea Sole

North Sea sole assessments have varied widely since 2007. However, since 2011 North Sea sole has been assessed as being at full reproductive capacity and being harvested sustainably.



Irish Sea Sole - in ICES Division VIIa (Irish Sea)

The Irish Sea sole fishing rate is just above the rate that would lead to high long-term yields (F_{MSY}). SSB has declined since 2001 to low levels and has been below B_{lim} since 2004. The sole TAC agreed for 2018 is 40 tonnes, the same as in the two previous years (2017 and 2016).

Chart 5.9a: Total landings

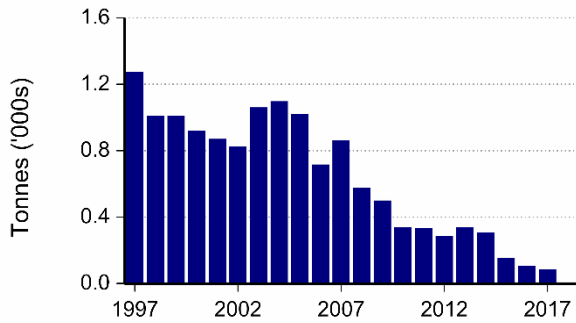


Chart 5.9b: Fishing mortality (F) – ages 4 - 7

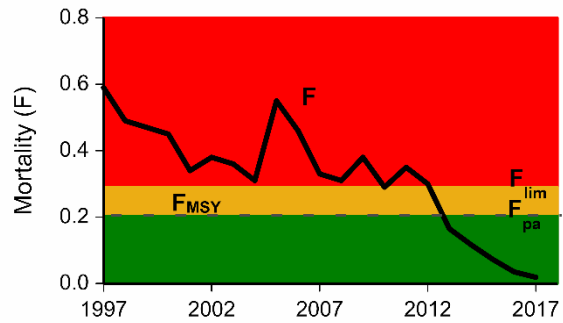


Chart 5.9c: Recruitment - age 2

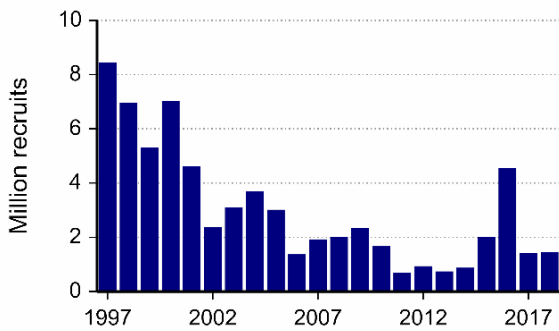
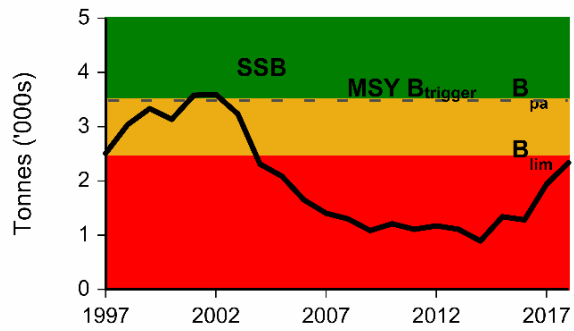


Chart 5.9d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: Irish Sea Sole

Since 2007 the stock has been assessed as suffering reduced reproductive capacity.



Eastern Channel Sole – in ICES Division VIId (Eastern Channel)

Sole stocks in the Eastern and Western Channel are biologically discrete stocks that are assessed and managed separately. In the larger, Eastern Channel stock, the assessed fishing rate has generally been above F_{MSY} throughout the time series but has recently been decreasing, and SSB has fluctuated without trend between B_{lim} and $MSY B_{trigger}$. The TAC for 2018 is 3,405 tonnes, compared with 2,769 tonnes in 2017 and 3,258 tonnes in 2016.

Chart 5.10a: Total landings

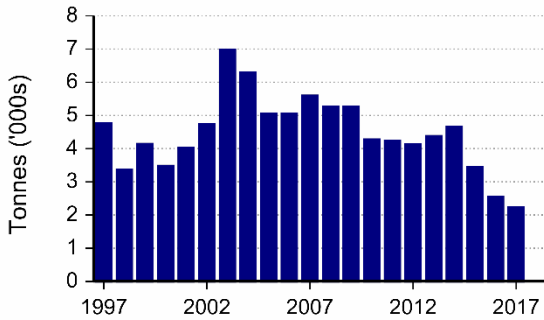


Chart 5.10b: Fishing mortality (F) – ages 3 - 8

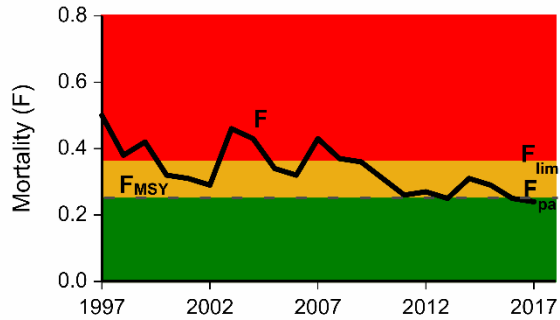


Chart 5.10c: Recruitment - age 1

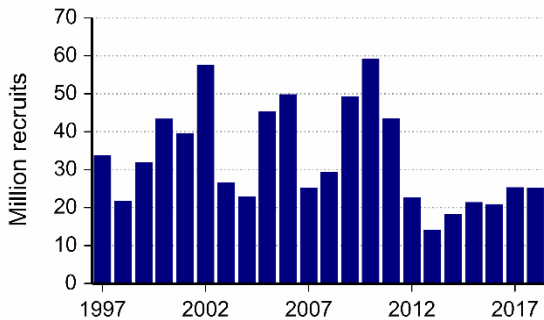
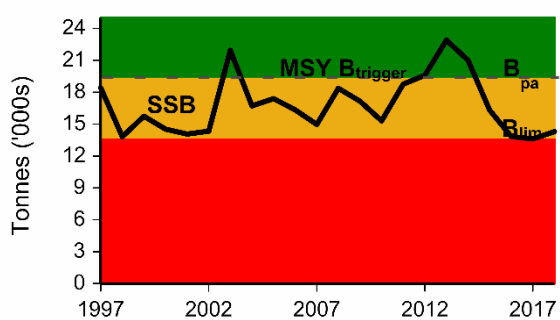


Chart 5.10d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: Eastern Channel Sole

The Eastern Channel sole stock had consistently been assessed at full reproductive capacity since 2007. However, from 2008 to 2015 the stock was judged to be at risk of being harvested unsustainably. In 2016 and 2017 the stock was assessed at risk of suffering reduced reproductive capacity.



Western Channel Sole – in ICES Division VIIe (Western Channel)

Sole stocks in the Eastern and Western Channel are biologically discrete stocks that are assessed and managed separately. In the smaller, Western Channel stock, the accepted assessment in 2008 indicated that the assessed fishing rate has been above F_{pa} since 1979, and that SSB has declined since 1980 to an historic low. The assessment in 2009 was merely indicative of trends, while in 2010 an analytical assessment was provided but one for which it was not possible to determine current stock status relative to precautionary boundaries. Since 2012 an analytical assessment has been provided but one for which it was not possible to determine stock status relative to precautionary boundaries as these were withdrawn by ICES for this stock until 2015. Fishing mortality is estimated to have been below F_{MSY} since 2009 and SSB has been above $MSY B_{trigger}$ since 1999. The TAC for 2018 is 1,202 tonnes, compared with 1,178 tonnes in 2017 and 979 tonnes in 2016.

Chart 5.11a: Total landings

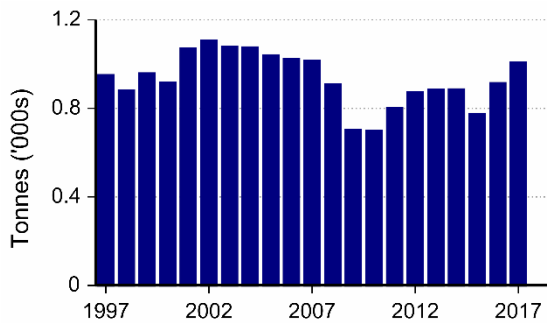


Chart 5.11b: Fishing mortality (F) – ages 3 - 7

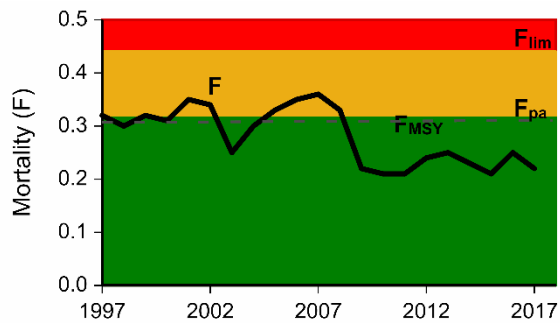


Chart 5.11c: Recruitment - age 1

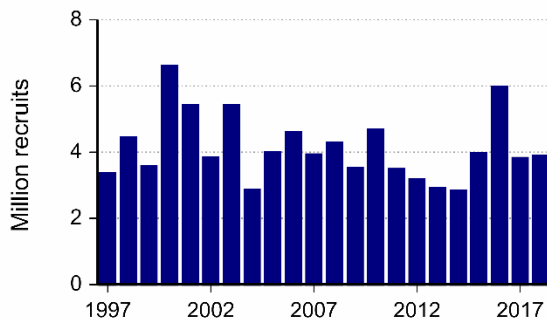
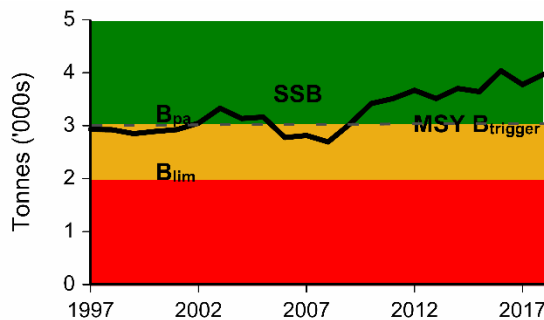


Chart 5.11d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: Western Channel Sole

In 2007 and 2008, VIIe sole has been assessed as a stock at risk of suffering reduced reproductive capacity. Assessments were unable to be made in 2009 and 2010 while in 2011 an assessment was undertaken but the precautionary reference points were withdrawn by ICES. The same situation is the case in 2012, 2013 and 2014. In 2015, 2016 and 2017, it was assessed as being at full reproductive capacity and being harvested sustainably.



North Sea Herring – in ICES Sub-area IV (North Sea), ICES Division VIId (Eastern Channel) and ICES Division IIIa (Skagerrak – Kattegat)

The North Sea herring stock, which collapsed in the 1970s and was closed to fishing for several years, subsequently recovered, and although it fell back in the mid-1990s, it has again been rehabilitated. In 2017, SSB was above the precautionary level with a moderate fishing rate on both juvenile and adult herring. Recruitment was below average between 2003 and 2013, stronger in 2014 but then returning to lower values in recent years. The TAC in 2018 is 600,588 tonnes, compared with 481,608 tonnes in 2017 and 518,242 tonnes in 2016.

Chart 5.12a: Total landings

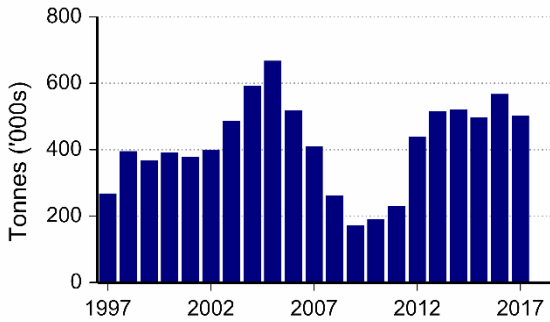


Chart 5.12b: Fishing mortality (F) – ages 2 - 6

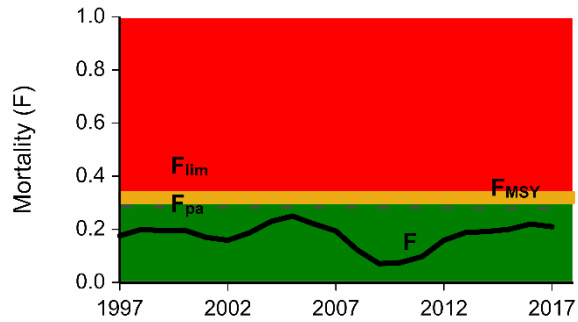


Chart 5.12c: Recruitment - age 0

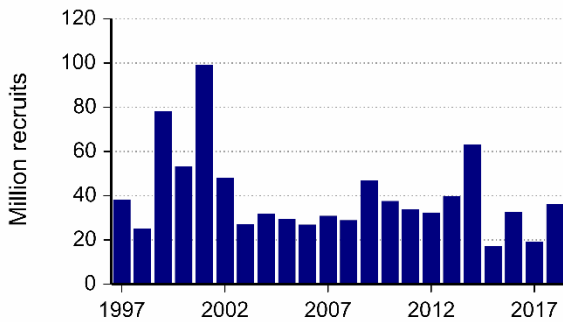
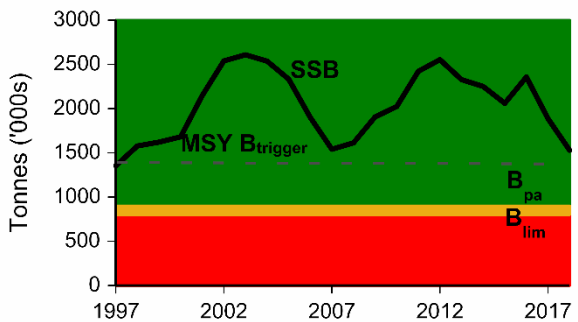


Chart 5.12d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: North Sea Herring

North Sea herring was assessed as a stock at risk of suffering reduced reproductive capacity for the years 2007 to 2010, inclusive. Since 2011, North Sea herring has been assessed as being at full reproductive capacity and being harvested sustainably below the rate that would lead to high long-term yields.



North East Atlantic Mackerel – combined Southern, Western and North Sea spawning components

Mackerel is assessed as the single North East Atlantic (NEA) stock which combines the Southern, Western and North Sea spawning components. SSB has increased considerably since the early 2000s and remains high above $MSY B_{trigger}$. There has been a succession of strong year-classes since the early 2000s. New management measures adopted from 2009 led to an increase of almost 33 per cent in the 2009 TAC in the NEA for mackerel, while maintaining measures to protect the North Sea spawning component. A TAC of 816,797 tonnes was agreed for 2018, with shares to be allocated in line with the 2014-2018 arrangement for the stock; compared with 1,020,996 tonnes in 2017. For reference, the TAC was not agreed for the years 2011 to 2016, inclusive.

Chart 5.13a: Total removals

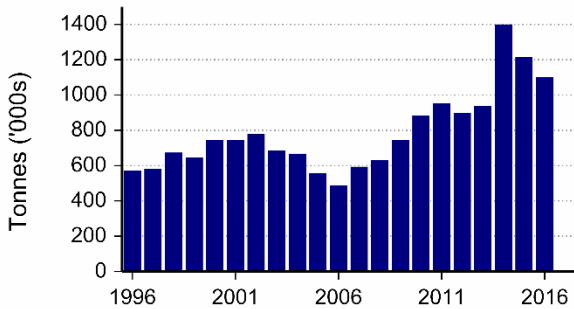


Chart 5.13b: Fishing mortality (F) – ages 4 – 8

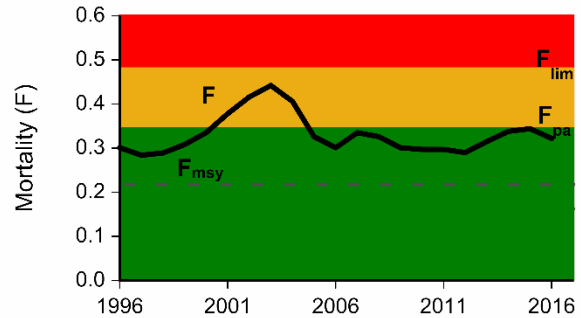


Chart 5.13c: Recruitment - age 0

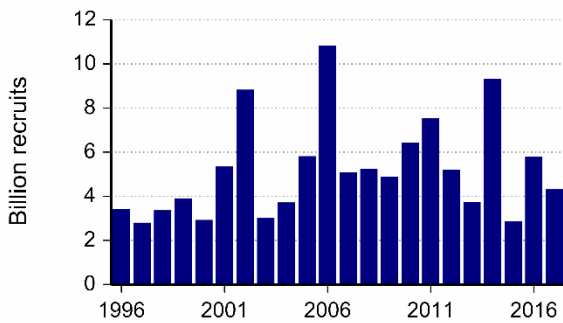
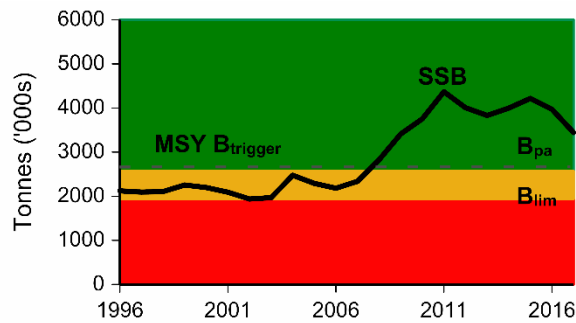


Chart 5.13d: Spawning stock biomass (SSB)



Note: The data in these charts are official statistics and not subject to National Statistics accreditation.

ICES stock assessment: North East Atlantic Mackerel

From 2007 to 2012 North East Atlantic mackerel has been assessed as being at full reproductive capacity but either at risk of or being harvested unsustainably. Between 2013 and 2015, the stock has been assessed as being at full reproductive capacity and being harvested sustainably. In 2016 North East Atlantic mackerel was judged to be at risk of being harvested unsustainably, although assessed as being at full reproductive capacity; whilst in 2017 the stock was again assessed as being at full reproductive capacity and being harvested sustainably.



(a) Status uncertain in terms of SSB relative to B_{pa} ; but harvested unsustainably

6 Overview of the world fishing industry

Introduction

The world catch data presented in this chapter have been extracted from the most recently available data from the Food and Agricultural Organisation (FAO) of the United Nations. The tables present annual statistics of nominal catches (see Appendix 2, Glossary of terms). The data are official statistics and are not subject to National Statistics accreditation. The FAO updates historic data frequently. Revisions have not been highlighted in the following tables.

World catch

Table 6.1 shows that in 2016, the world catch from marine fishing was 79.3 million tonnes, 2 per cent lower than in 2015. Catches by the Central and South American fleet fell by 12 per cent while African fleet landings rose by 8 per cent. Vessels from Asia and the Middle East caught 54 per cent of the world total compared with 49 per cent ten years earlier. European vessels accounted for 17 per cent of world catch.

TABLE 6.1 World catch by continent: 2006 to 2016

Figures refer to Marine Fishing Areas unless otherwise specified (Million tonnes)

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Europe	13.2	13.1	12.8	13.0	13.5	13.0	12.7	13.1	13.4	13.7	13.3
Africa	4.5	4.5	4.6	4.8	5.0	4.9	5.6	5.4	5.7	5.8	6.3
North America	6.1	6.0	5.5	5.3	5.5	6.1	6.1	6.2	6.1	6.1	6.0
Central & S. America ^(a)	15.9	15.8	16.0	15.2	11.5	15.8	11.8	12.0	10.3	10.9	9.7
Asia ^(b)	39.2	39.6	39.2	39.2	40.0	40.3	40.9	41.4	43.2	43.3	42.6
Oceania	1.3	1.4	1.2	1.2	1.2	1.2	1.3	1.2	1.3	1.4	1.4
Other nei ^(c)	..	..	..	..	..	..	..	..	..	..	..
Total Marine Areas	80.3	80.4	79.3	78.9	76.8	81.5	78.4	79.4	79.9	81.2	79.3

Source: FAO

(a) Central & S. America includes the Caribbean.

(b) Asia includes the Middle East.

(c) Not elsewhere included.

Note: The data in this table are official statistics and are not subject to National Statistics accreditation.

Note: Additional data on world catch by nationality of vessel are available from the MMO website as supplementary Table 6.1a.

Chart 6.1 shows the total catch by major fishing nations in terms of quantity caught in 2016.

In 2016, China (including Hong Kong and Macao SAR) caught the largest amount of fish, 15.4 million tonnes. Indonesia had the second largest catch of 6.1 million tonnes, followed by the United States of America (4.9 million tonnes), the Russian Federation (4.5 million tonnes) and Peru (3.8 million tonnes).

In 2016, Spain caught 906 thousand tonnes, the highest of any country in the European Union. FAO figures show a UK catch of 712 thousand tonnes in 2016 (including 10 thousand tonnes by the Isle of Man and the Channel Islands). Note this is different from the more recent figure of 701 thousand tonnes shown in Table 3.1 of Chapter 3. This will exclude some landings by the Channel Islands' fleet but insufficient amounts to account for the full difference. It may be that FAO has mistakenly included landings for the Isle of Man and Channel Islands in separate figures for the UK.

FAO fishing areas are shown in Chart 6.2. Of the 79.3 million tonnes of fish caught in 2016, 59 per cent were caught in the Pacific Ocean, 27 per cent in the Atlantic Ocean and 14 per cent in the Indian Ocean (see Table 6.2).

In 2016, landings from the Indian Ocean were up by 2 cent but down in the Pacific and Atlantic by 2 and 5 per cent respectively. Landings from the North East Atlantic – the seas which are fished by the European fleet – were down by 9 per cent.

TABLE 6.2 World catch by sea area: 2006 to 2016

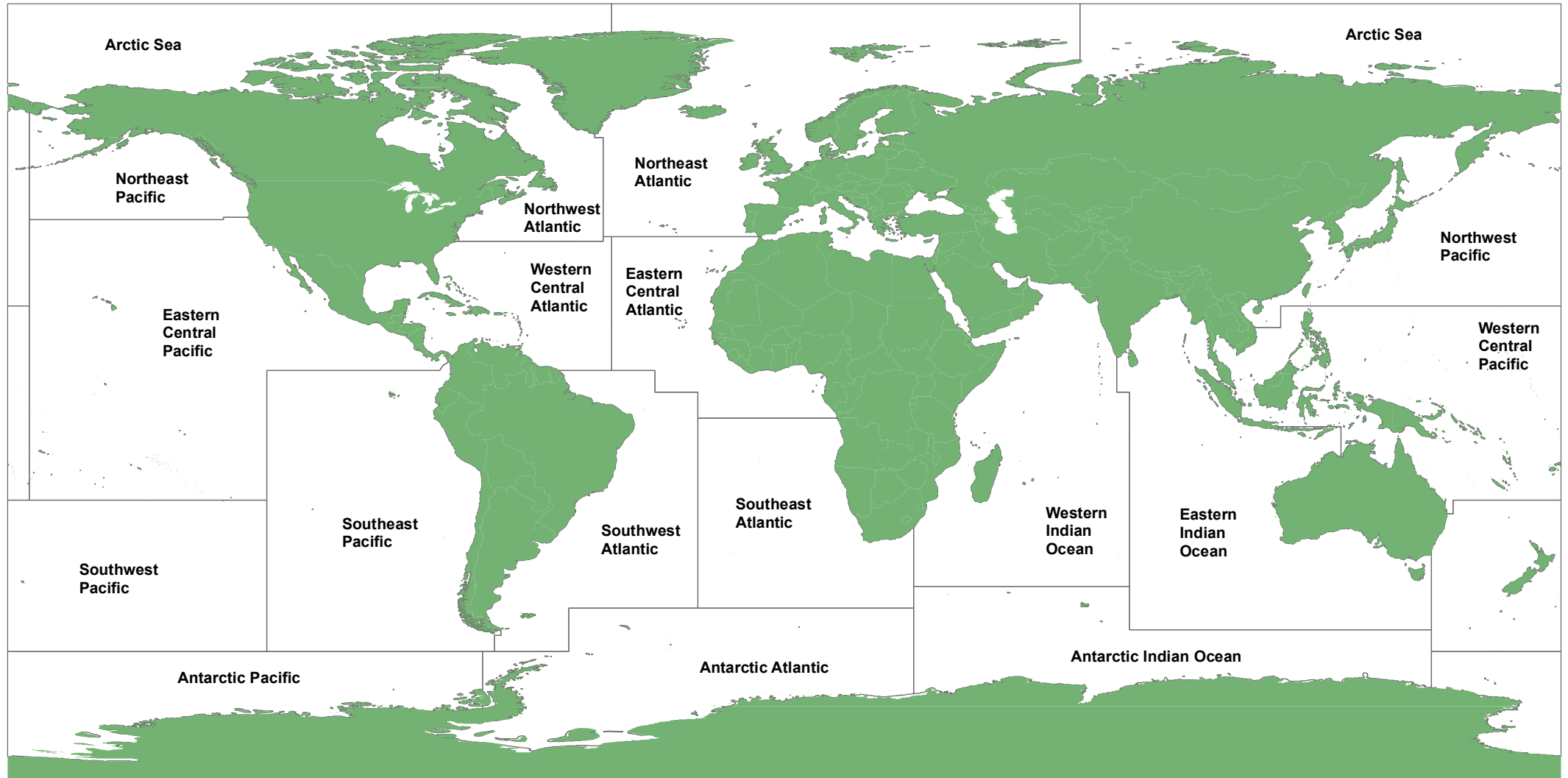
Figures refer to Marine Fishing Areas only

(Million tonnes)

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Atlantic Ocean											
Arctic Sea	-	..	..	-	..	..	..	..	..	..	..
Northwest Atlantic	2.2	2.2	2.1	2.1	2.1	2.0	2.0	1.9	1.8	1.8	1.8
Northeast Atlantic	9.1	8.9	8.5	8.5	8.7	8.0	8.0	8.5	8.7	9.1	8.3
Western Central Atlantic	1.4	1.4	1.3	1.4	1.2	1.4	1.4	1.3	1.2	1.4	1.6
Eastern Central Atlantic	3.6	3.6	3.9	4.2	4.5	4.4	4.2	4.3	4.5	4.4	4.8
Mediterranean and Black Sea	1.6	1.7	1.5	1.5	1.4	1.4	1.3	1.2	1.1	1.3	1.2
Southwest Atlantic	2.4	2.5	2.4	1.9	1.8	1.7	1.9	2.0	2.4	2.4	1.6
Southeast Atlantic	1.4	1.4	1.4	1.2	1.4	1.3	1.7	1.4	1.6	1.7	1.7
Antarctic Atlantic	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.3
Total Atlantic Ocean	21.7	21.8	21.2	20.8	21.3	20.6	20.6	20.7	21.5	22.4	21.2
India Ocean											
Western Indian Ocean	4.5	4.2	4.1	4.2	4.3	4.2	4.5	4.6	4.8	4.7	4.9
Eastern Indian Ocean	5.7	5.7	5.8	6.0	6.0	6.2	6.1	6.2	6.3	6.4	6.4
Antarctic Indian Ocean	..	..	..	..	..	..	..	..	..	..	..
Total Indian Ocean	10.2	9.9	10.0	10.2	10.2	10.4	10.7	10.8	11.1	11.1	11.3
Pacific Ocean											
Northwest Pacific	19.7	19.9	20.1	20.5	20.9	21.4	21.4	21.4	22.0	22.1	22.4
Northeast Pacific	3.1	2.9	2.6	2.3	2.4	3.0	2.9	3.2	3.1	3.2	3.1
Western Central Pacific	11.1	11.3	10.8	11.1	11.5	11.4	11.9	12.1	12.7	12.6	12.7
Eastern Central Pacific	1.7	1.8	1.9	2.0	1.9	1.9	2.0	2.0	1.9	1.7	1.7
Southwest Pacific	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5
Southeast Pacific	12.3	12.1	12.2	11.5	7.8	12.3	8.3	8.5	6.9	7.7	6.3
Antarctic Pacific	..	..	..	..	..	..	..	..	..	..	..
Total Pacific Ocean	48.4	48.6	48.2	47.9	45.2	50.5	47.1	47.9	47.2	47.8	46.7
World Total	80.3	80.4	79.3	78.9	76.8	81.5	78.4	79.4	79.9	81.2	79.3

Source: FAO

Chart 6.2: FAO marine fishing areas

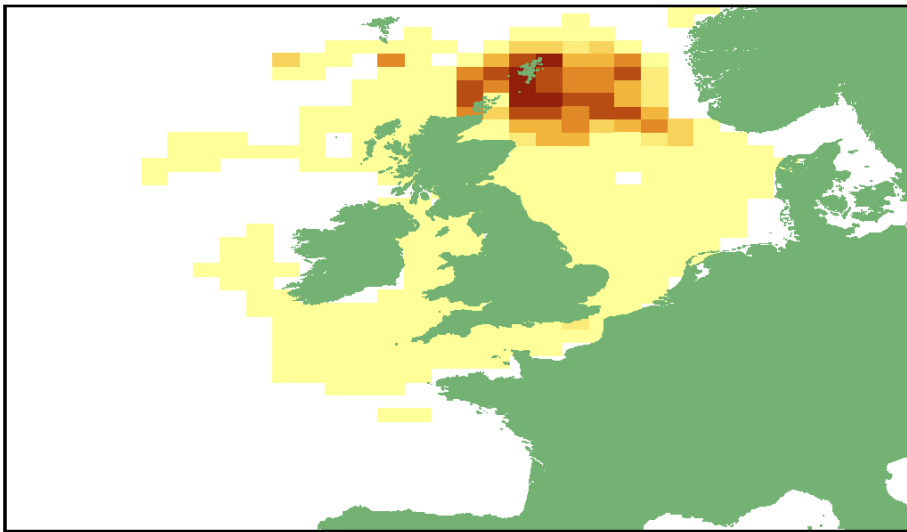


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Appendix 1: Supplementary charts showing landings and effort by UK vessels by ICES rectangle: 2017

Chart A1.1: Cod landings by UK vessels by ICES rectangle: 2017

Chart A1.1a: Quantity of landings by ICES rectangle



Landings (tonnes)

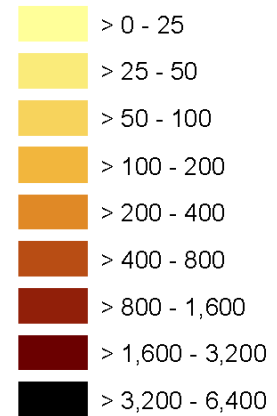
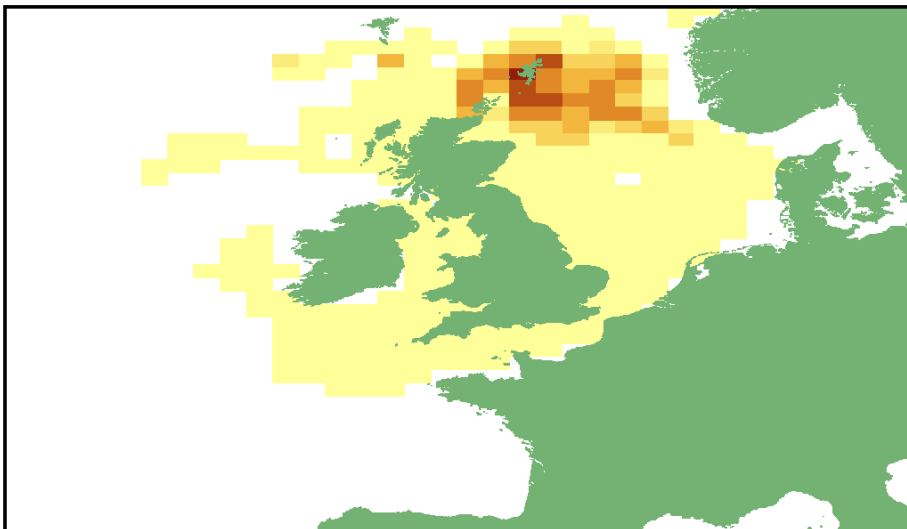


Chart A1.1b: Value of landings by ICES rectangle



Value (£ million)

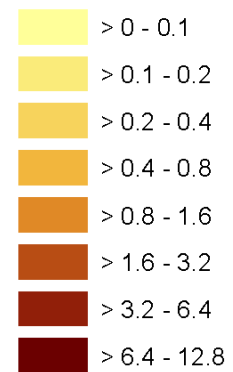
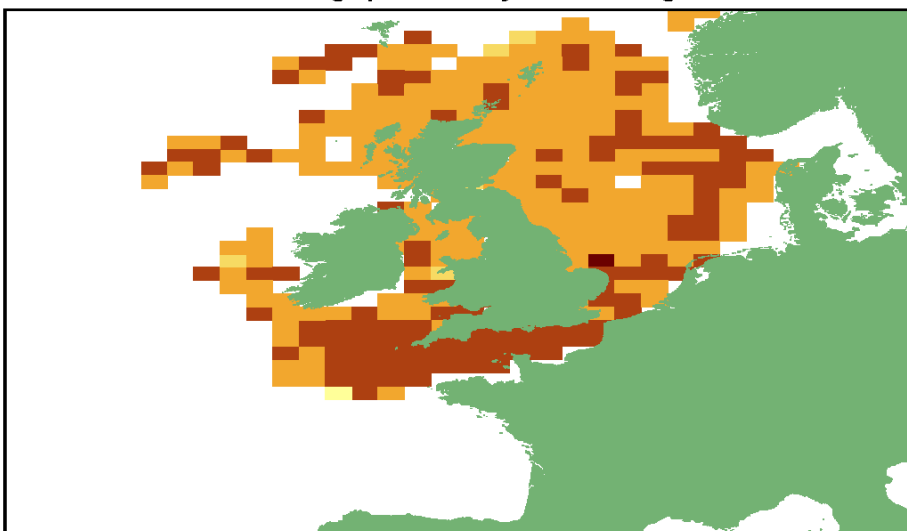
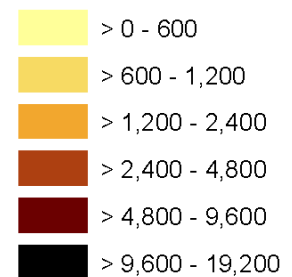


Chart A1.1c: Value of landings per tonne by ICES rectangle



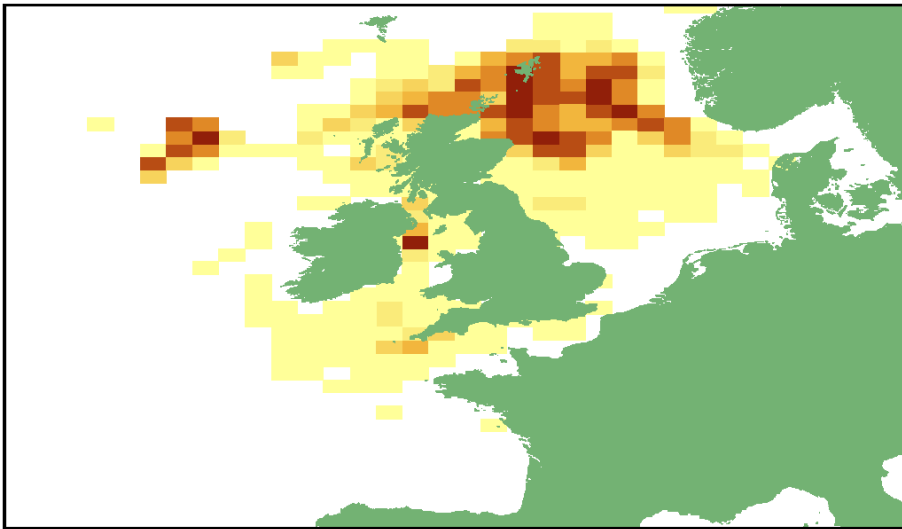
Value per tonne (£)



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Chart A1.2: Haddock landings by UK vessels by ICES rectangle: 2017

Chart A1.2a: Quantity of landings by ICES rectangle



Landings (tonnes)

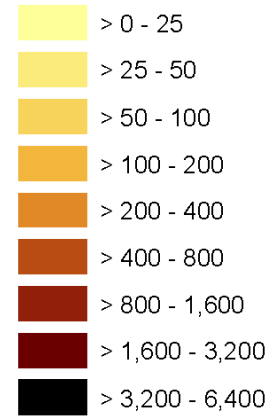
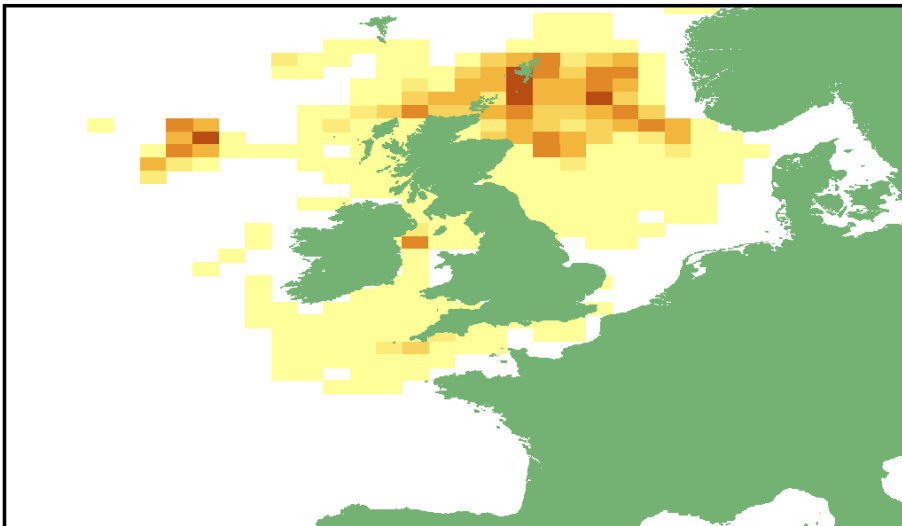


Chart A1.2b: Value of landings by ICES rectangle



Value (£ million)

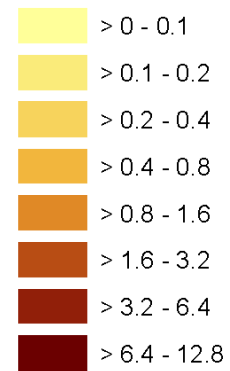
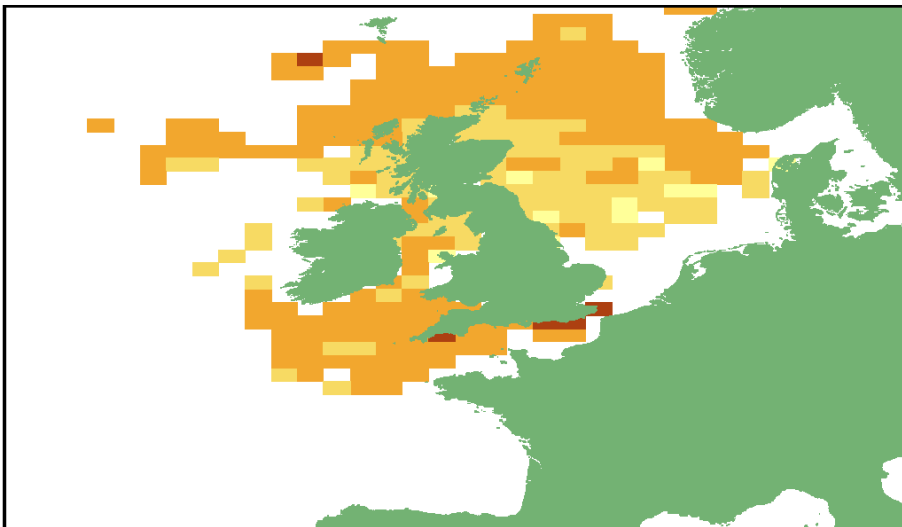
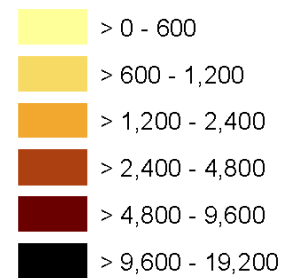


Chart A1.2c: Value of landings per tonne by ICES rectangle



Value per tonne (£)



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Chart A1.3: Monk or Angler landings by UK vessels by ICES rectangle: 2017

Chart A1.3a: Quantity of landings by ICES rectangle

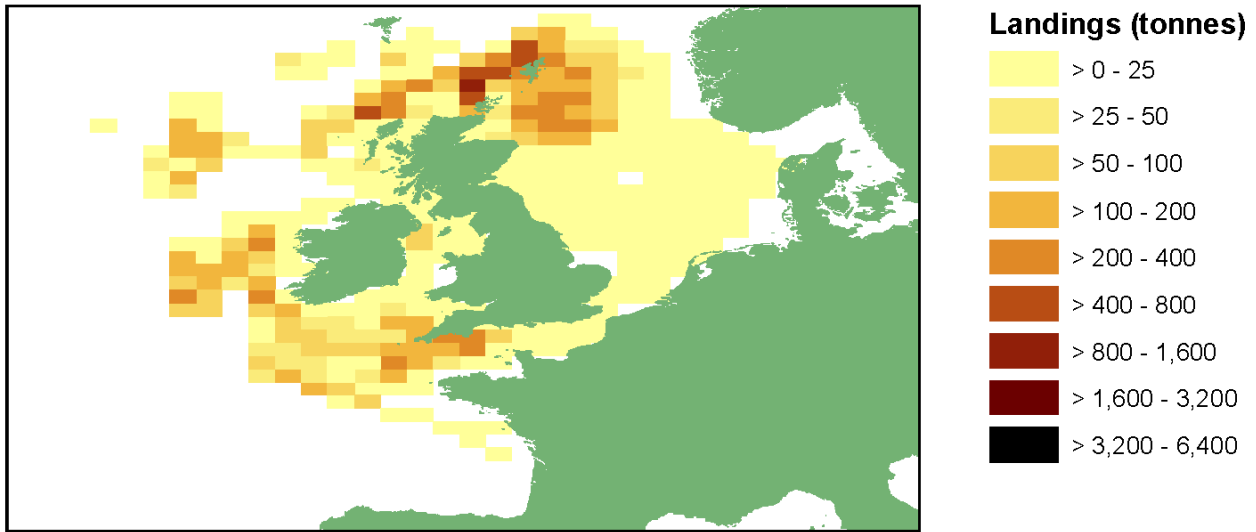


Chart A1.3b: Value of landings by ICES rectangle

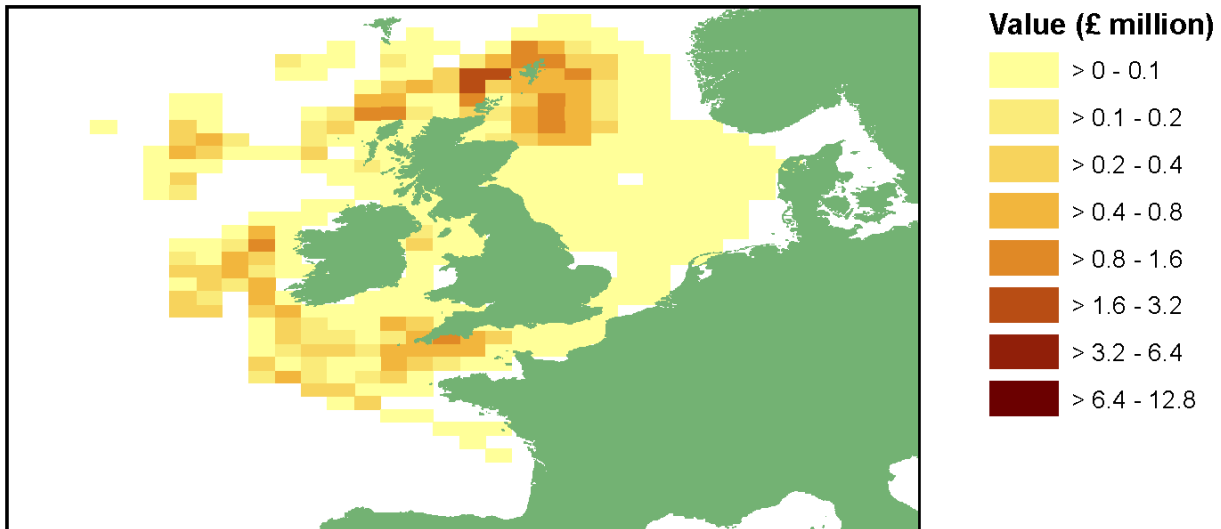
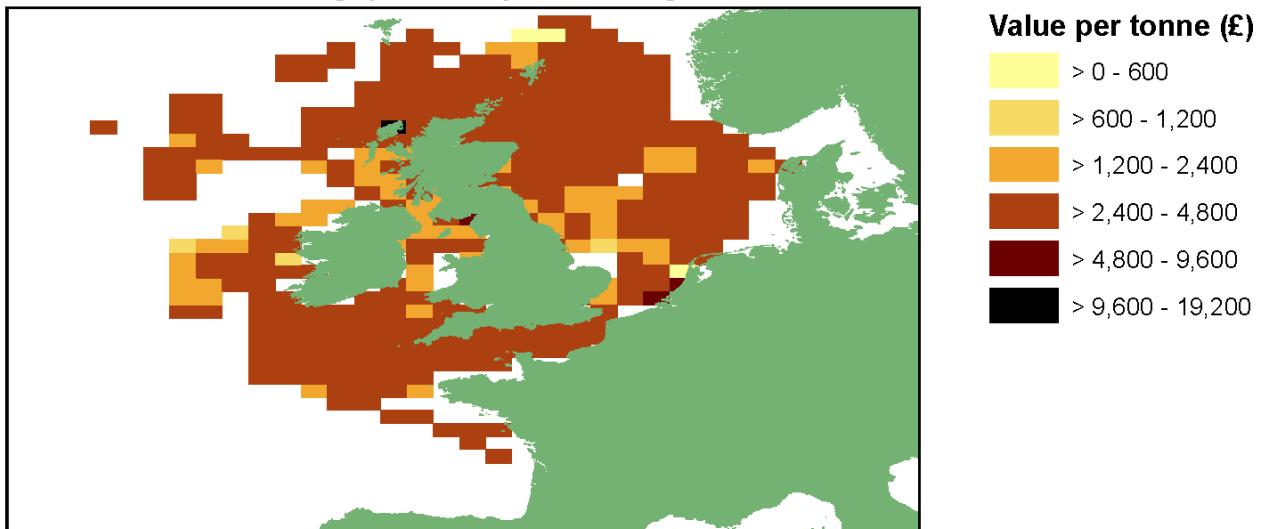


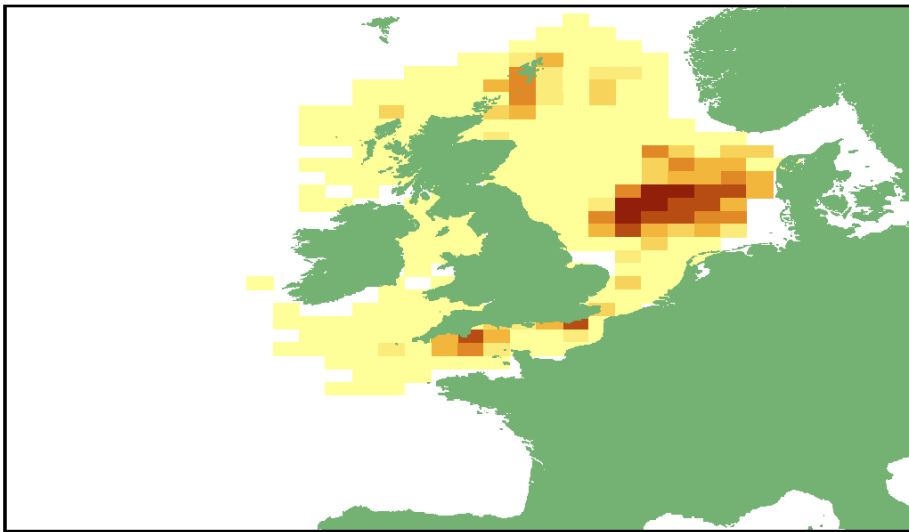
Chart A1.3c: Value of landings per tonne by ICES rectangle



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Chart A1.4: Plaice landings by UK vessels by ICES rectangle: 2017

Chart A1.4a: Quantity of landings by ICES rectangle



Landings (tonnes)

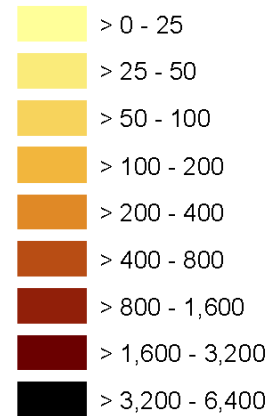
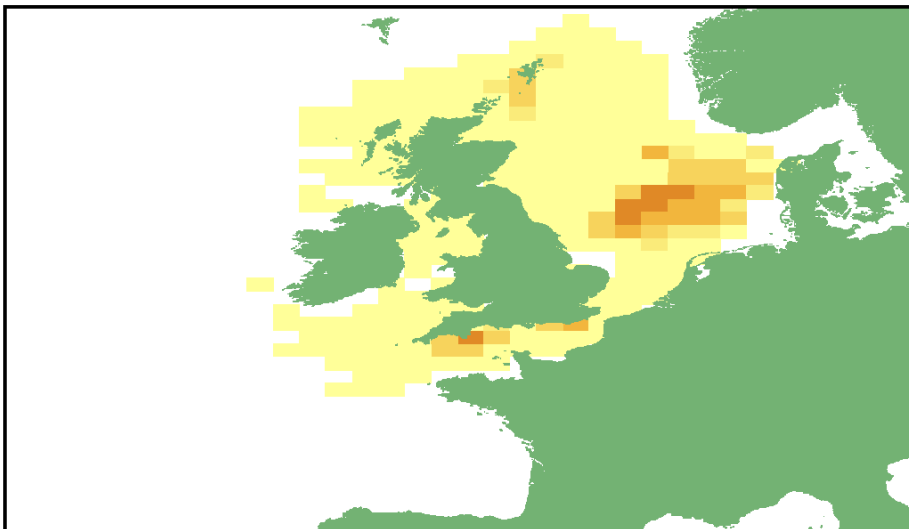


Chart A1.4b: Value of landings by ICES rectangle



Value (£ million)

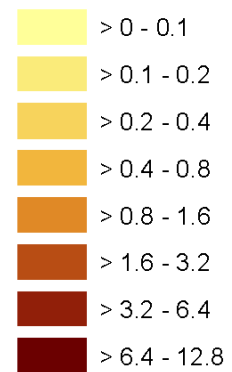
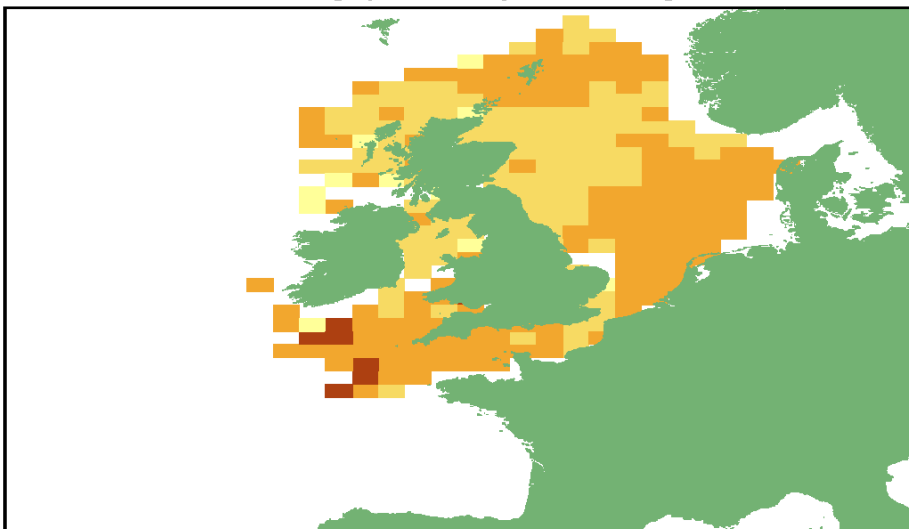
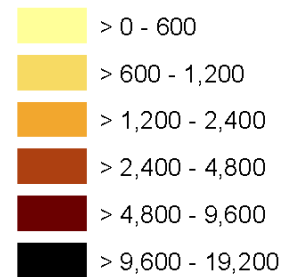


Chart A1.4c: Value of landings per tonne by ICES rectangle



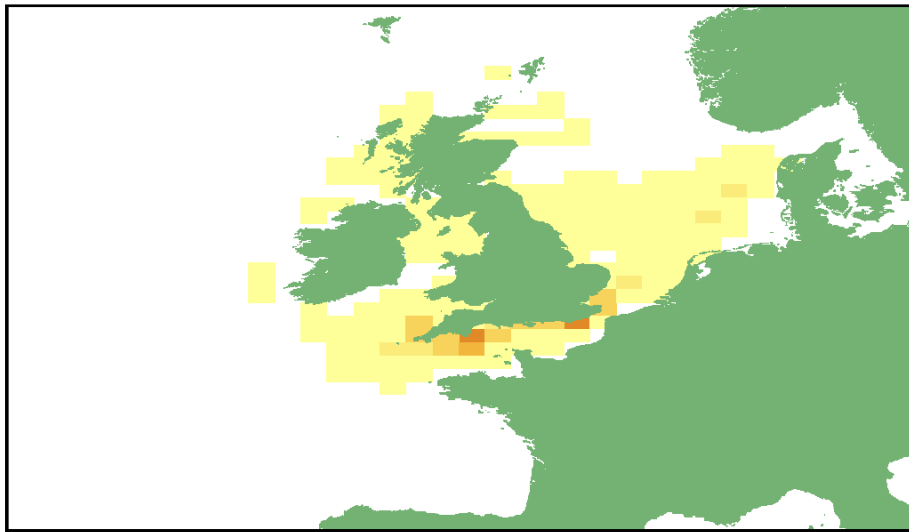
Value per tonne (£)



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Chart A1.5: Sole landings by UK vessels by ICES rectangle: 2017

Chart A1.5a: Quantity of landings by ICES rectangle



Landings (tonnes)

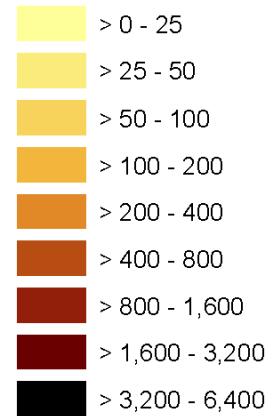
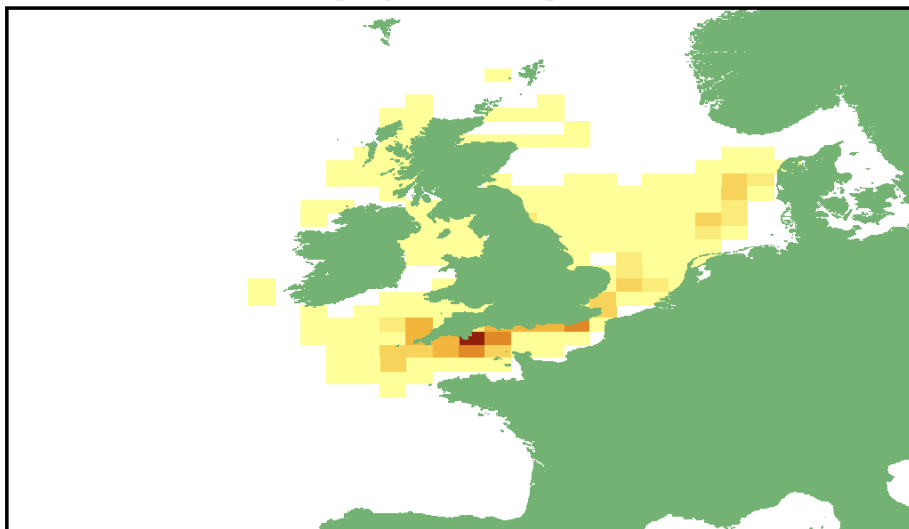


Chart A1.5b: Value of landings by ICES rectangle



Value (£ million)

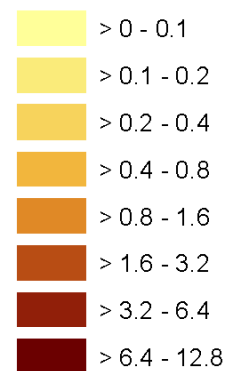
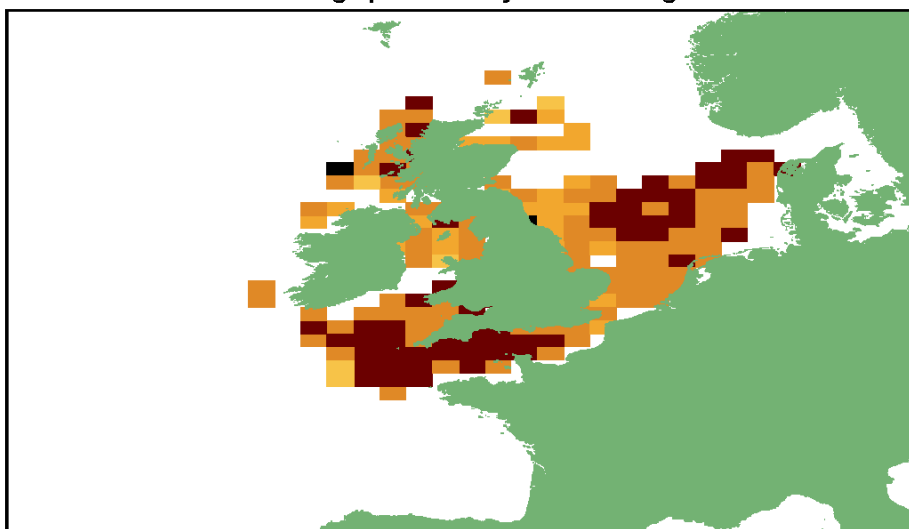
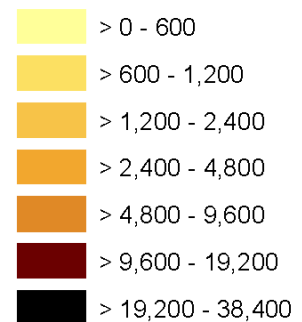


Chart A1.5c: Value of landings per tonne by ICES rectangle



Value per tonne (£)

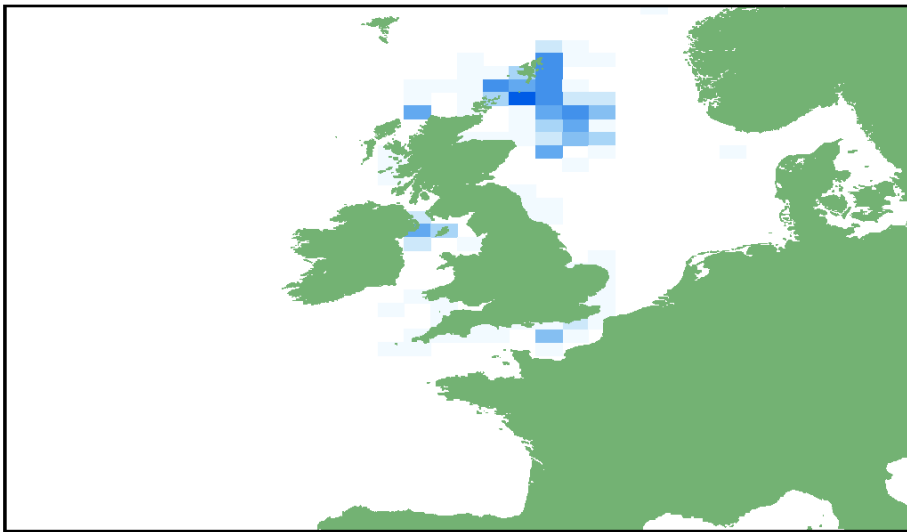


*Note: Legend has been adapted to account for high values and so is not directly comparable with value per tonne charts for years prior to 2017.

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Chart A1.6: Herring landings by UK vessels by ICES rectangle: 2017

Chart A1.6a: Quantity of landings by ICES rectangle



Landings (tonnes)

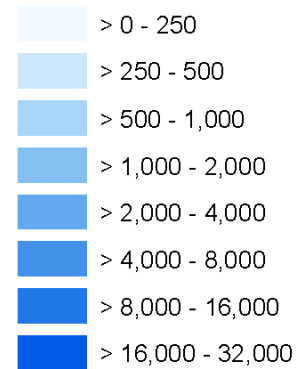
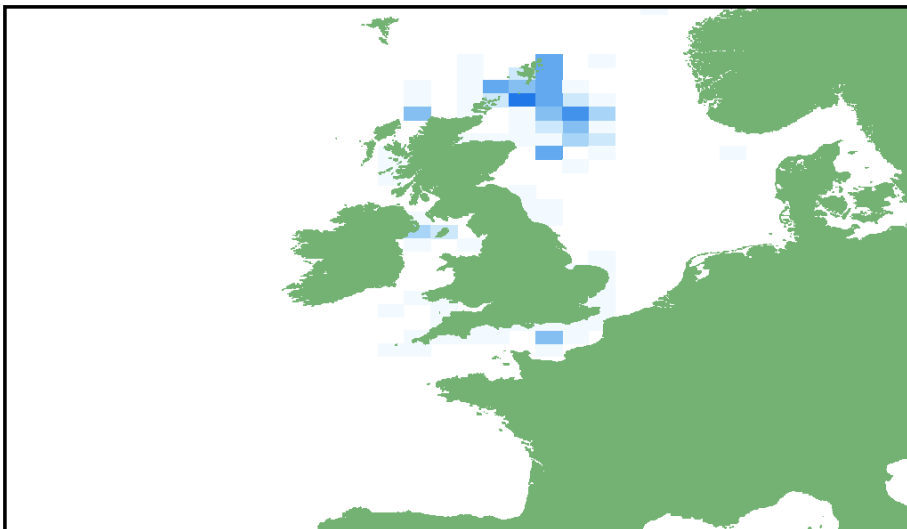


Chart A1.6b: Value of landings by ICES rectangle



Value (£ million)

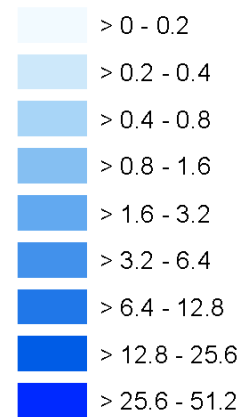
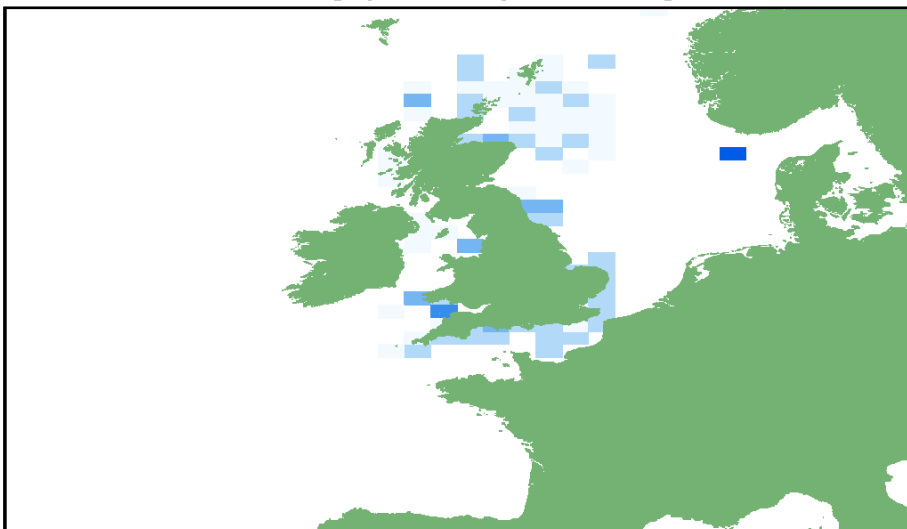
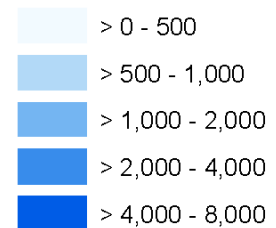


Chart A1.6c: Value of landings per tonne by ICES rectangle



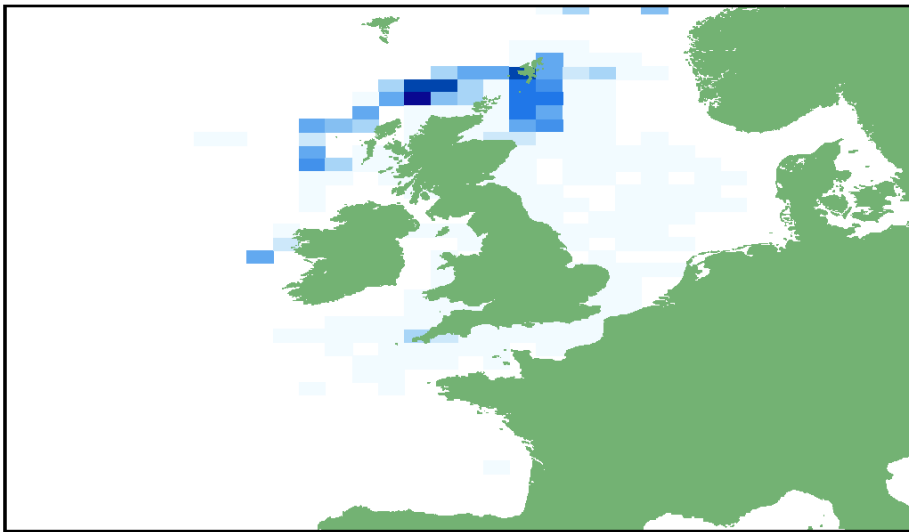
Value per tonne (£)



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Chart A1.7: Mackerel landings by UK vessels by ICES rectangle: 2017

Chart A1.7a: Quantity of landings by ICES rectangle



Landings (tonnes)

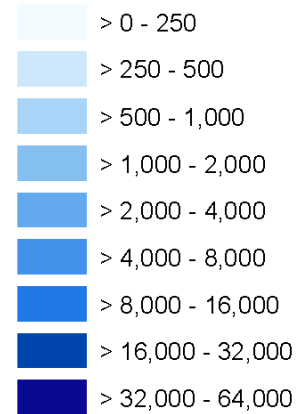
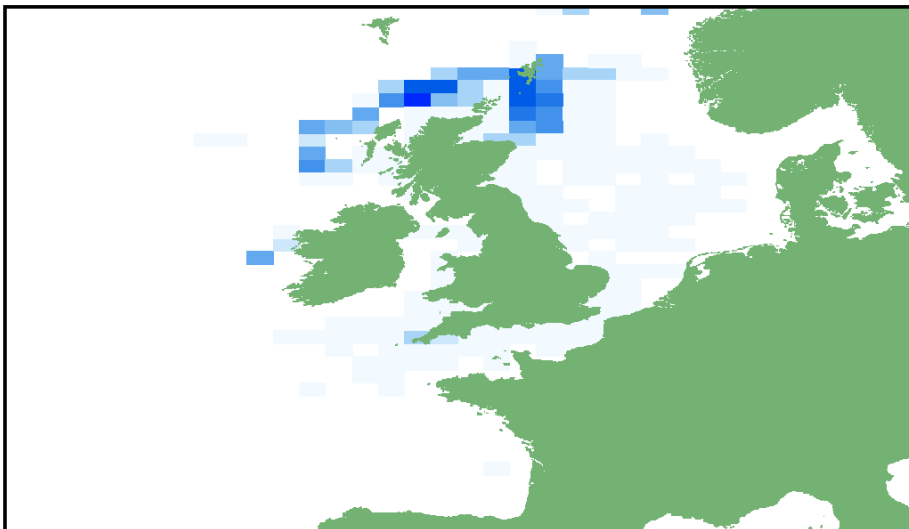


Chart A1.7b: Value of landings by ICES rectangle



Value (£ million)

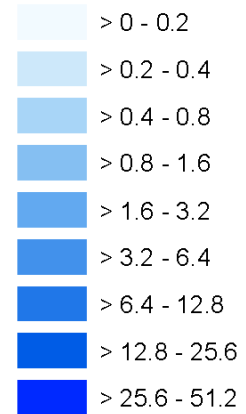
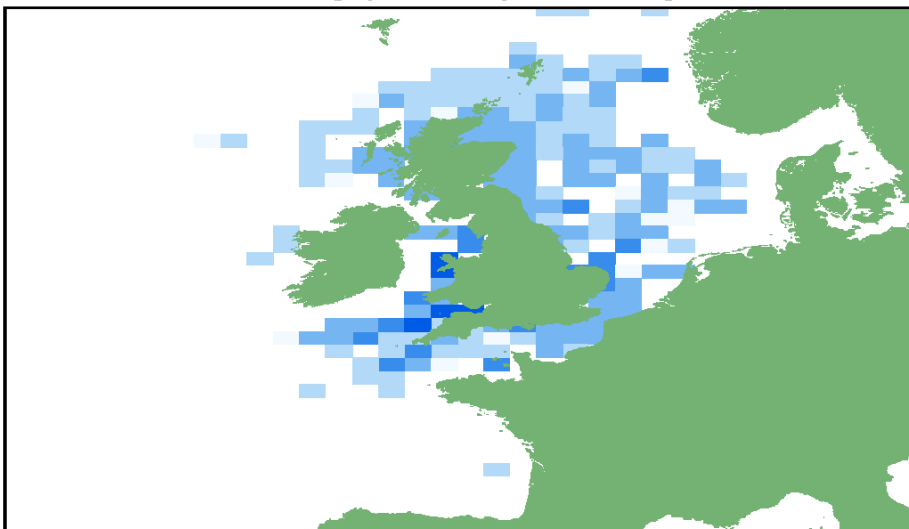
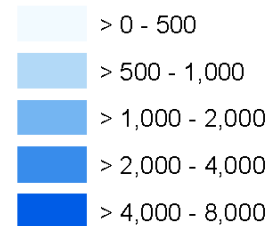


Chart A1.7c: Value of landings per tonne by ICES rectangle



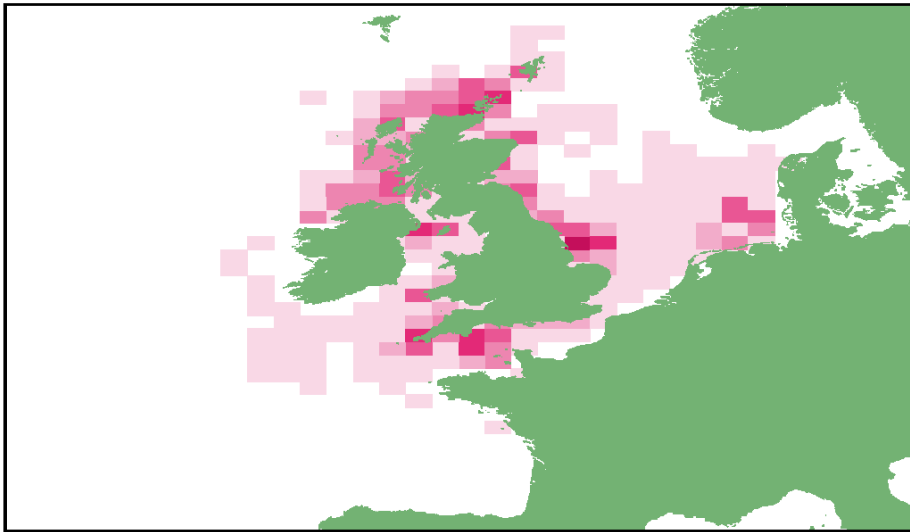
Value per tonne (£)



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Chart A1.8: Crab landings by UK vessels by ICES rectangle: 2017

Chart A1.8a: Quantity of landings by ICES rectangle



Landings (tonnes)

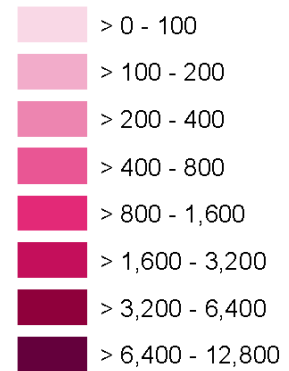
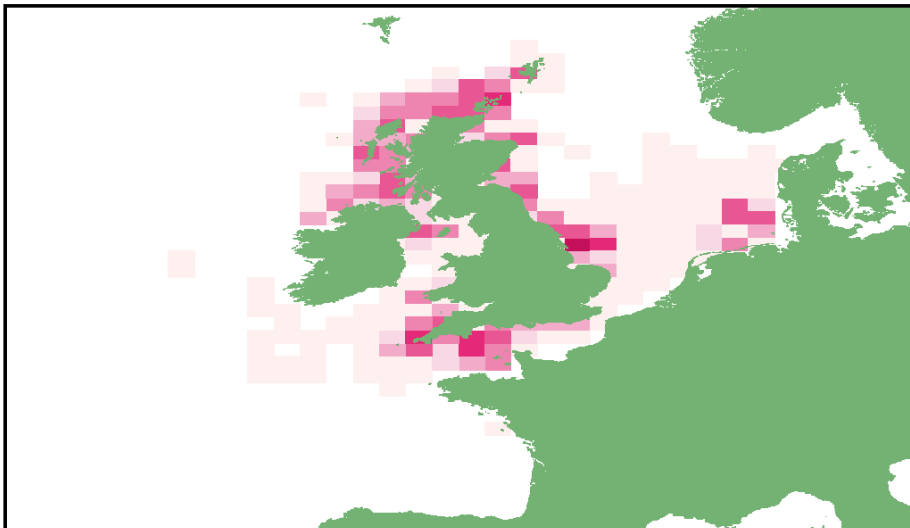


Chart A1.8b: Value of landings by ICES rectangle



Value (£ million)

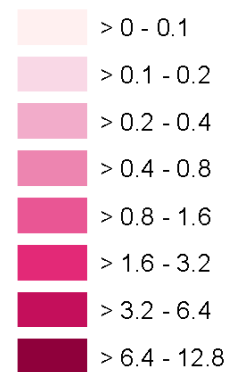
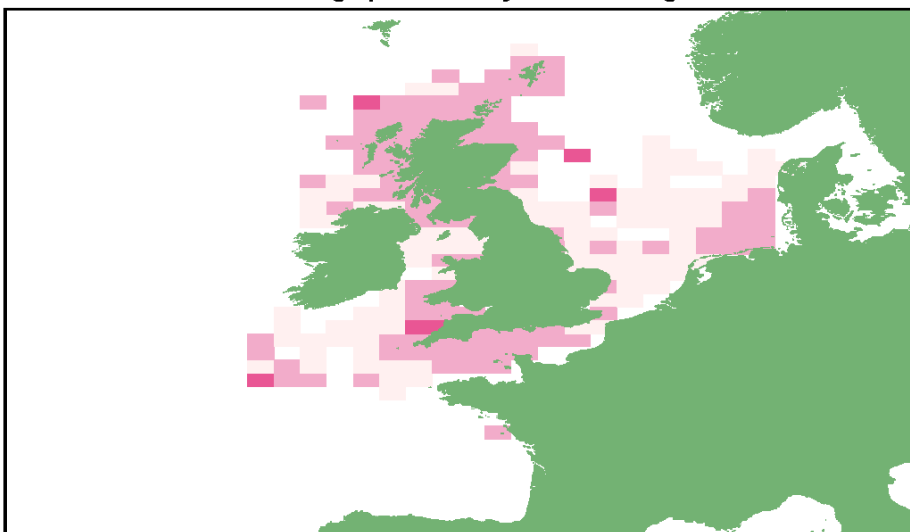
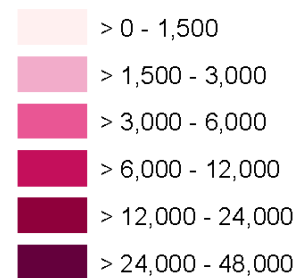


Chart A1.8c: Value of landings per tonne by ICES rectangle



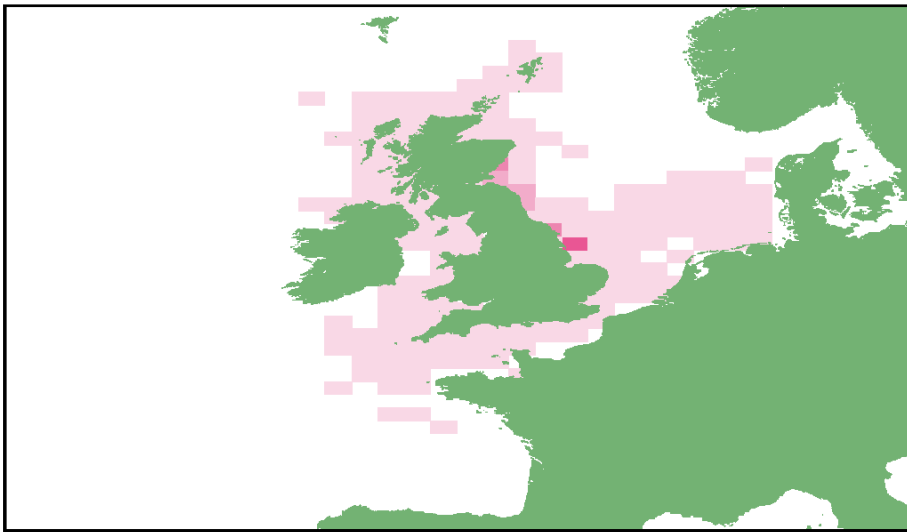
Value per tonne (£)



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Chart A1.9: Lobster landings by UK vessels by ICES rectangle: 2017

Chart A1.9a: Quantity of landings by ICES rectangle



Landings (tonnes)

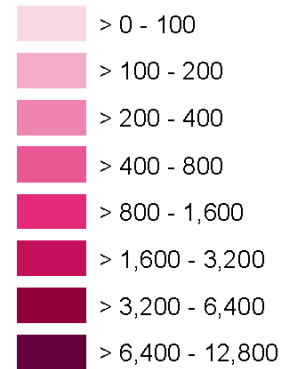
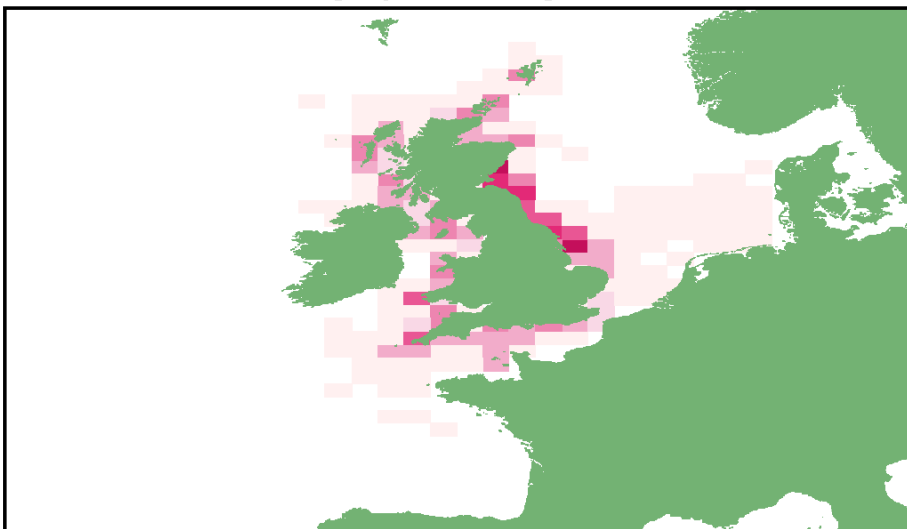


Chart A1.9b: Value of landings by ICES rectangle



Value (£ million)

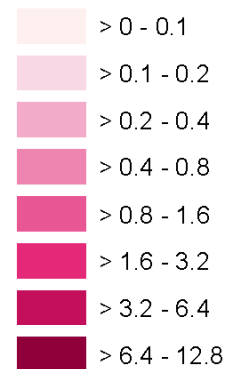
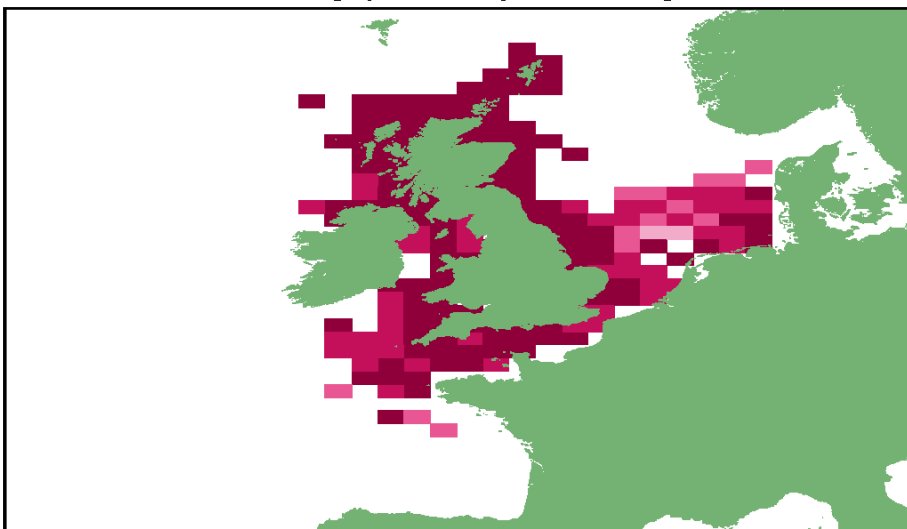
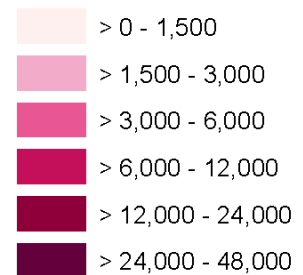


Chart A1.9c: Value of landings per tonne by ICES rectangle



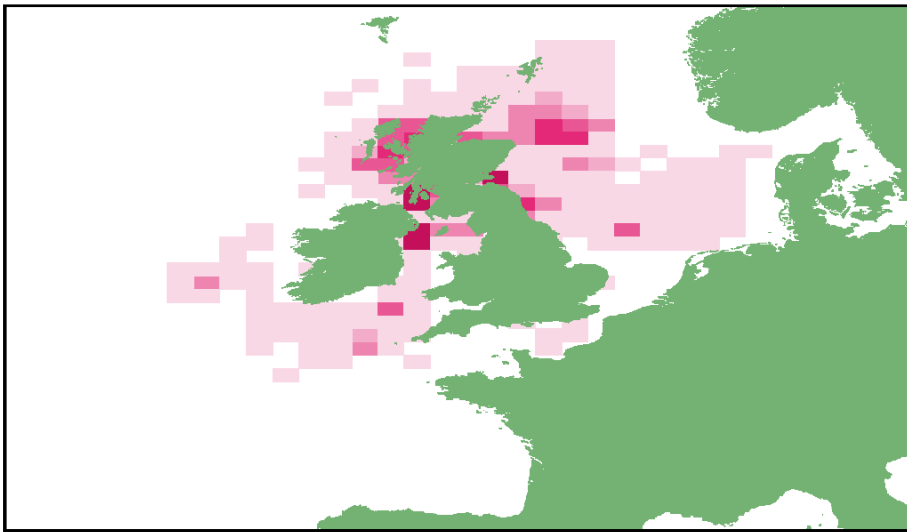
Value per tonne (£)



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Chart A1.10: Nephrops landings by UK vessels by ICES rectangle: 2017

Chart A1.10a: Quantity of landings by ICES rectangle



Landings (tonnes)

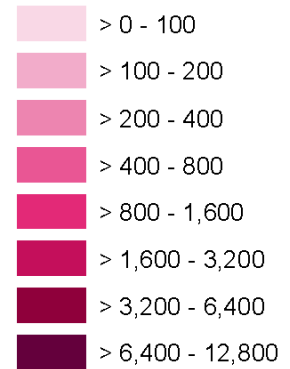
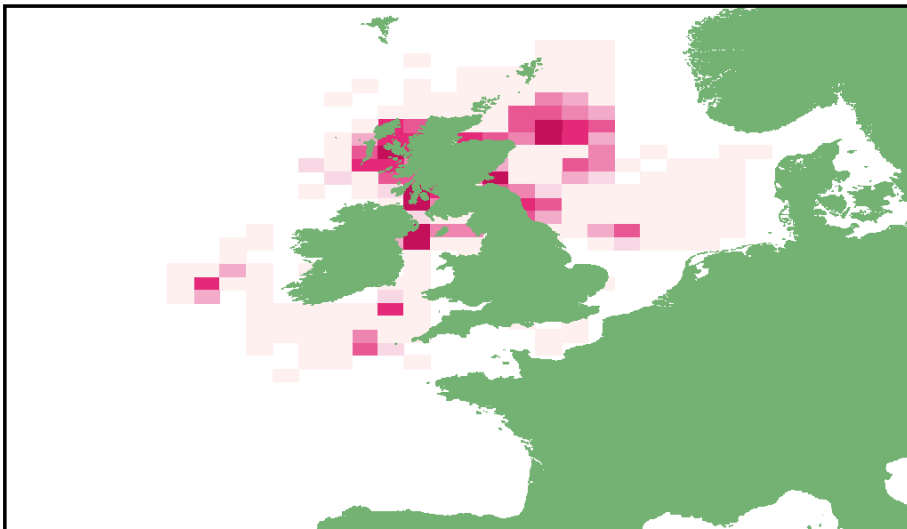


Chart A1.10b: Value of landings by ICES rectangle



Value (£ million)

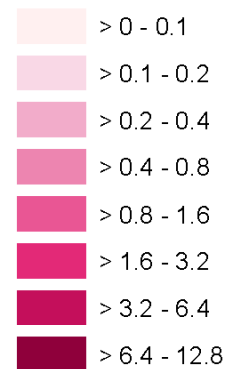
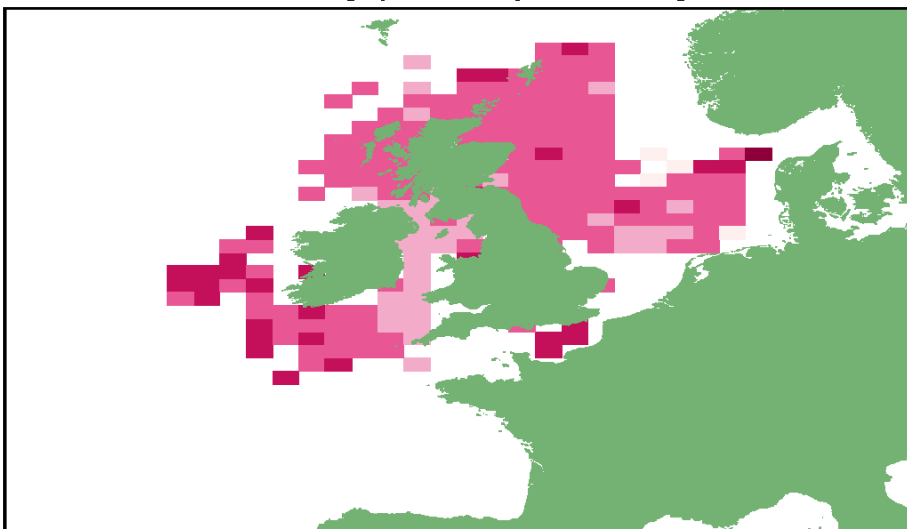
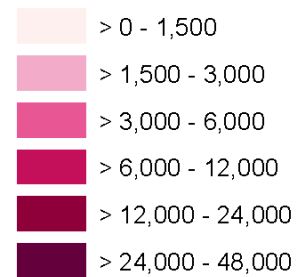


Chart A1.10c: Value of landings per tonne by ICES rectangle



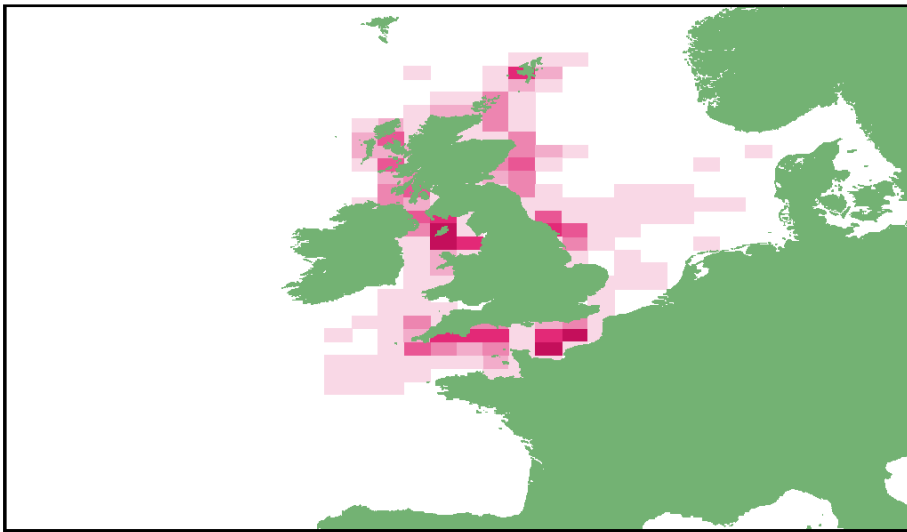
Value per tonne (£)



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Chart A1.11: Scallop landings by UK vessels by ICES rectangle: 2017

Chart A1.11a: Quantity of landings by ICES rectangle



Landings (tonnes)

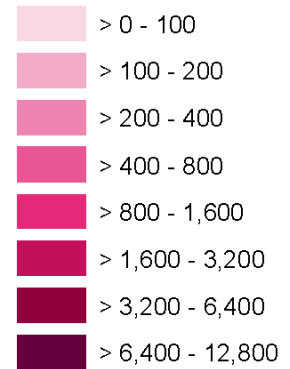
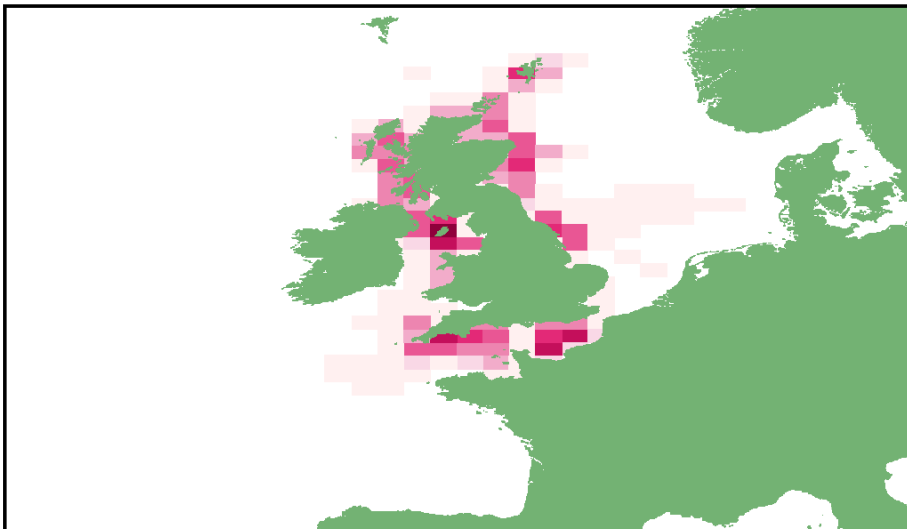


Chart A1.11b: Value of landings by ICES rectangle



Value (£ million)

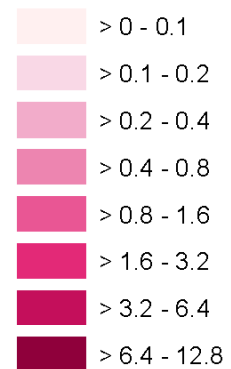
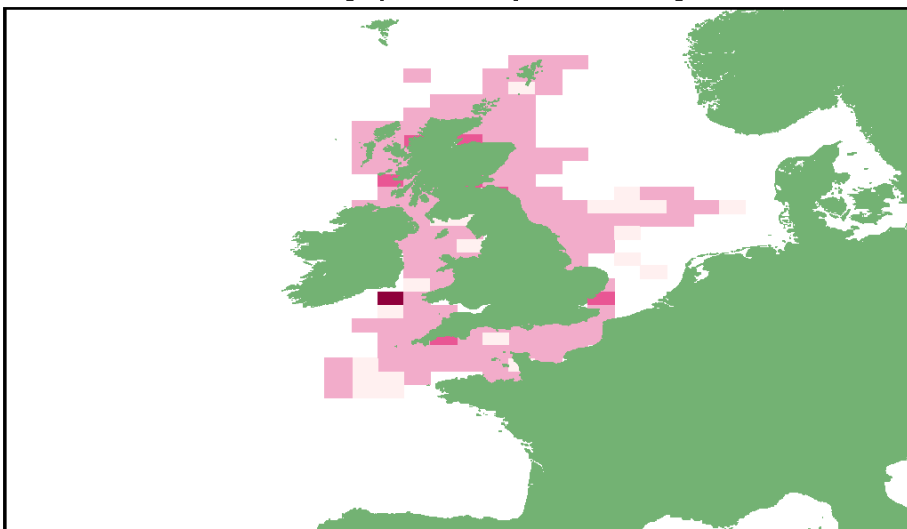
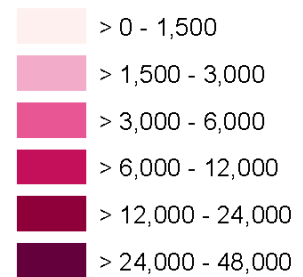


Chart A1.11c: Value of landings per tonne by ICES rectangle



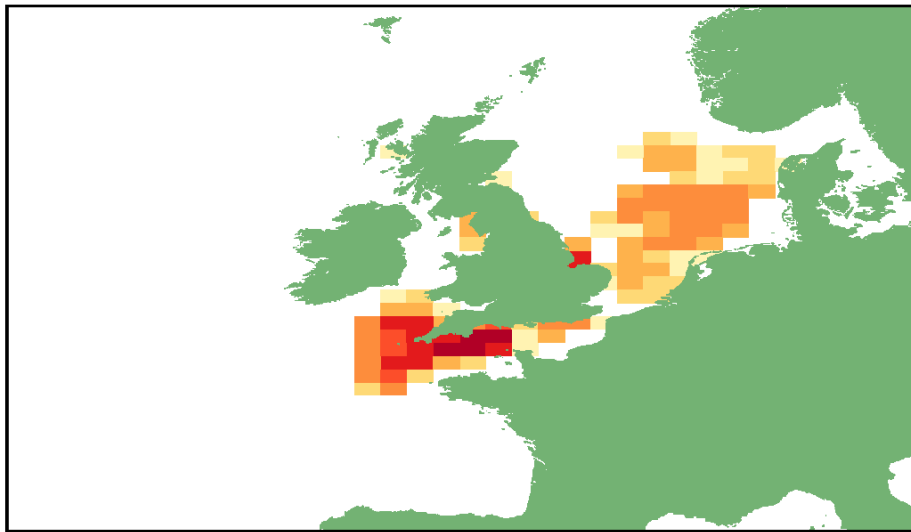
Value per tonne (£)



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Chart A1.12: Beam trawl effort by UK 10m and over vessels by ICES rectangle: 2017

Chart A1.12a: Number of vessels by ICES rectangle



Number of Vessels

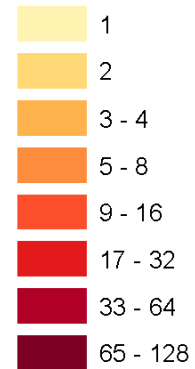
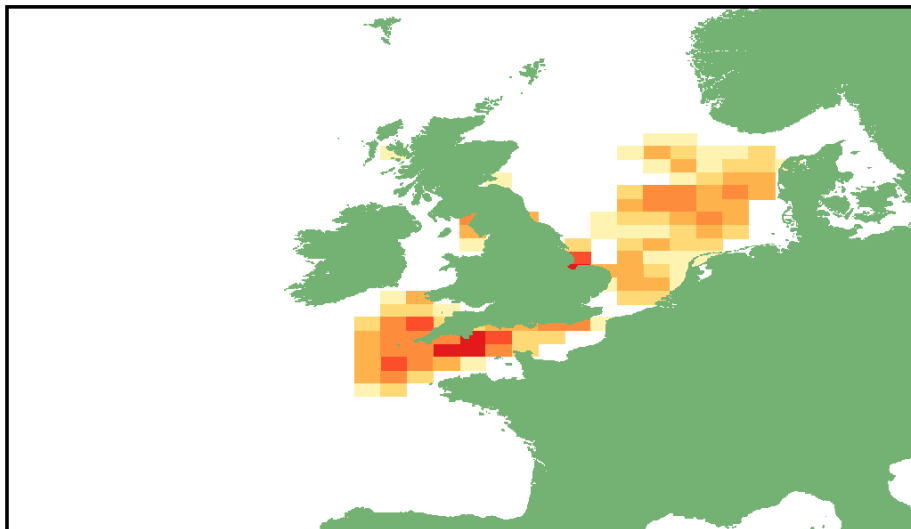


Chart A1.12b: Number of days at sea by ICES rectangle



Number of Days at Sea

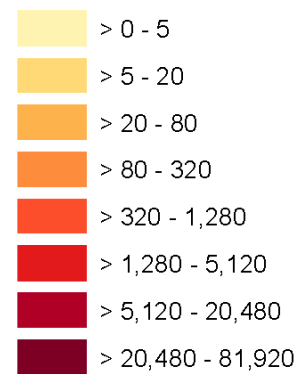
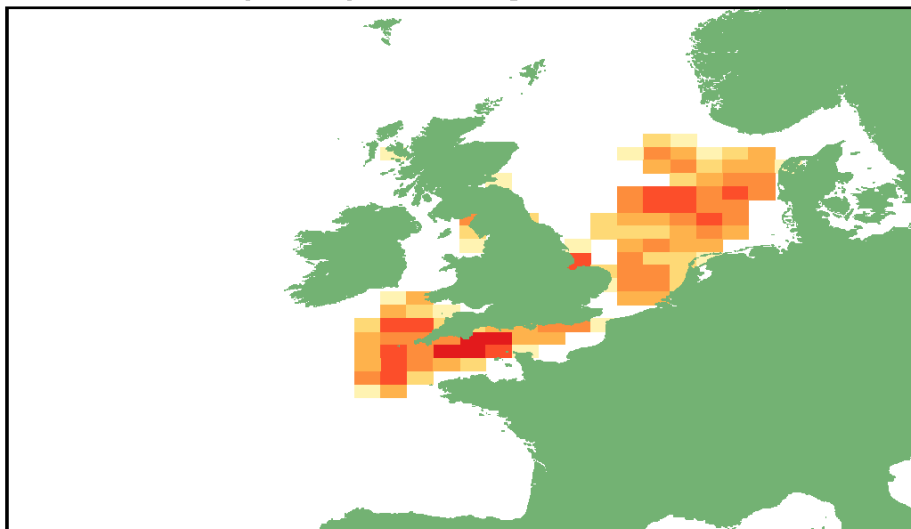
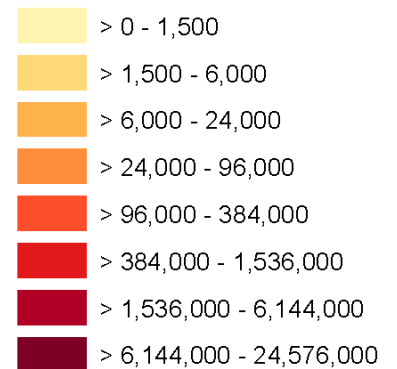


Chart A1.12c: kW day units by ICES rectangle



kW Days



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Chart A1.13: Demersal trawl and seine effort by UK 10m and over vessels by ICES rectangle: 2017

Chart A1.13a: Number of vessels by ICES rectangle

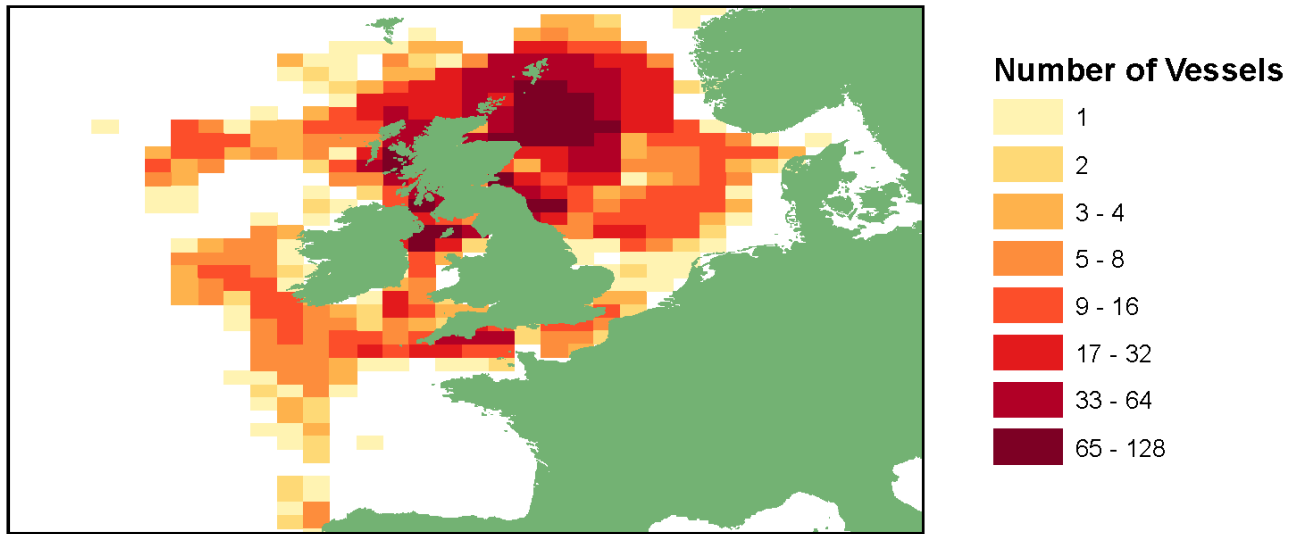


Chart A1.13b: Number of days at sea by ICES rectangle

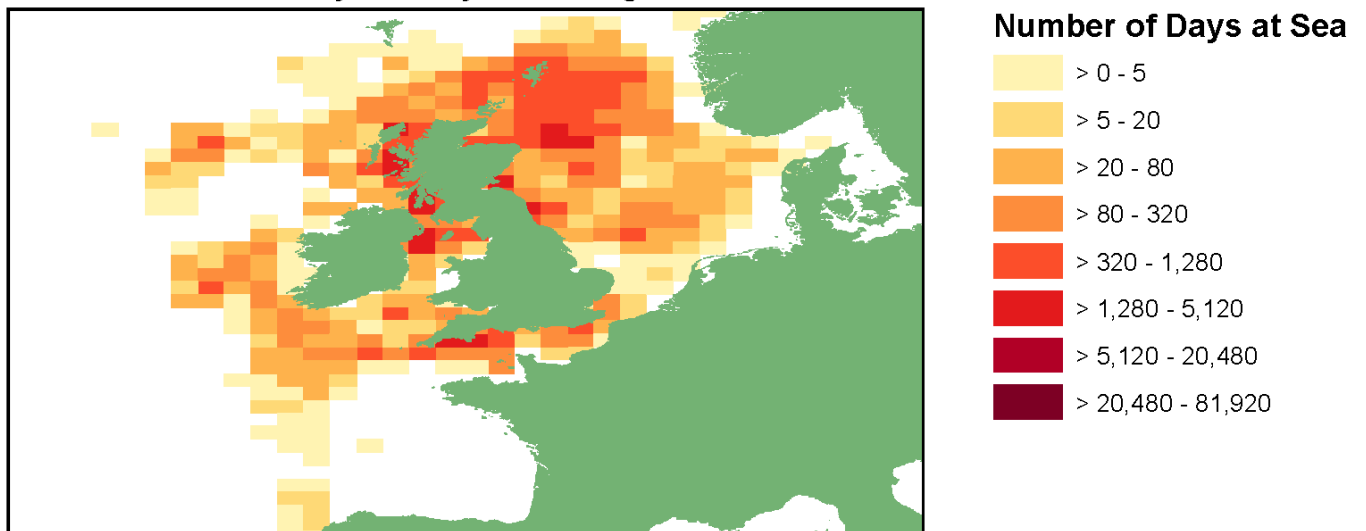
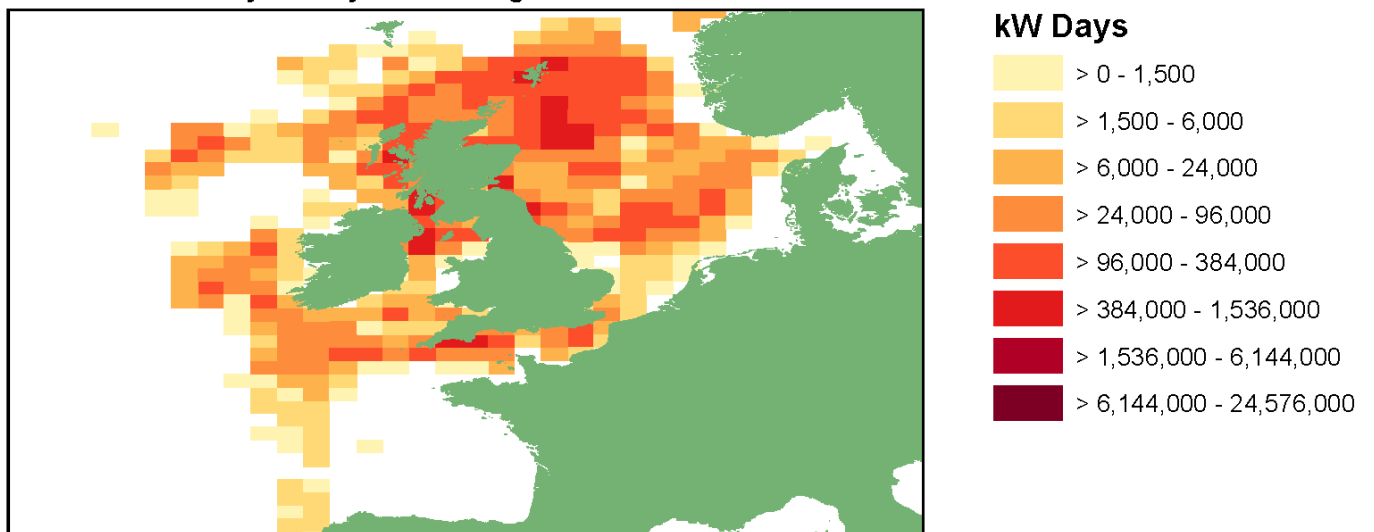


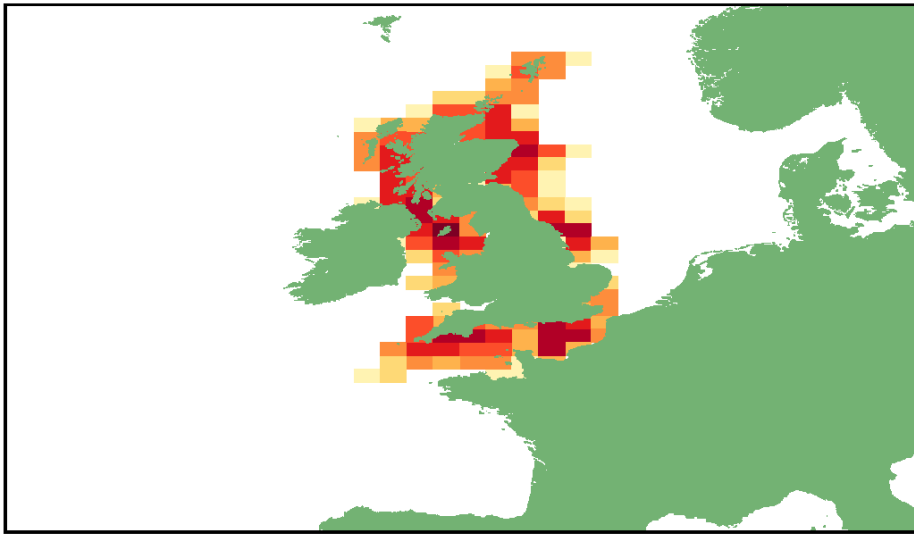
Chart A1.13c: kW day units by ICES rectangle



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Chart A1.14: Dredges effort by UK 10m and over vessels by ICES rectangle: 2017

Chart A1.14a: Number of vessels by ICES rectangle



Number of Vessels

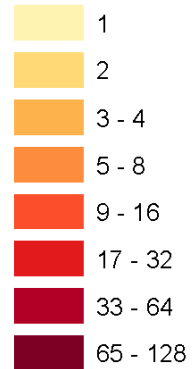
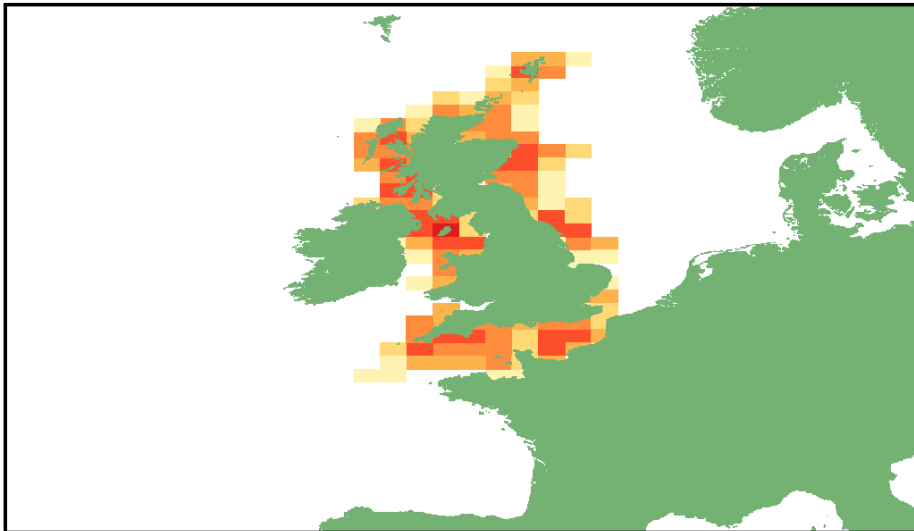


Chart A1.14b: Number of days at sea by ICES rectangle



Number of Days at Sea

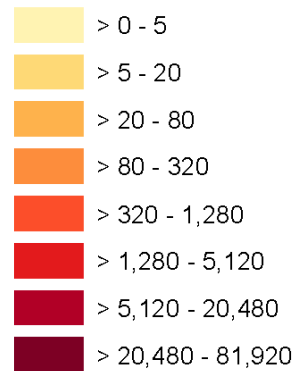
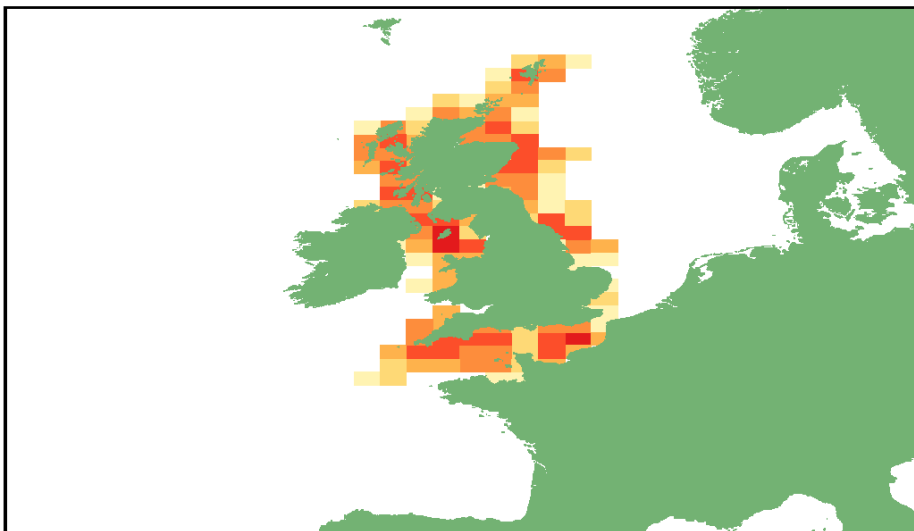
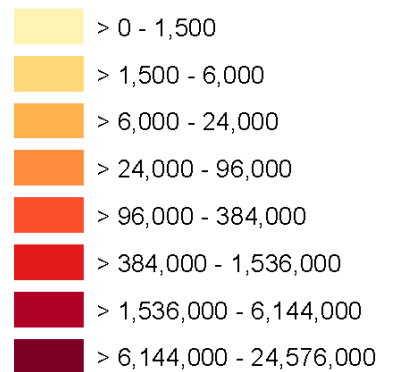


Chart A1.14c: kW day units by ICES rectangle



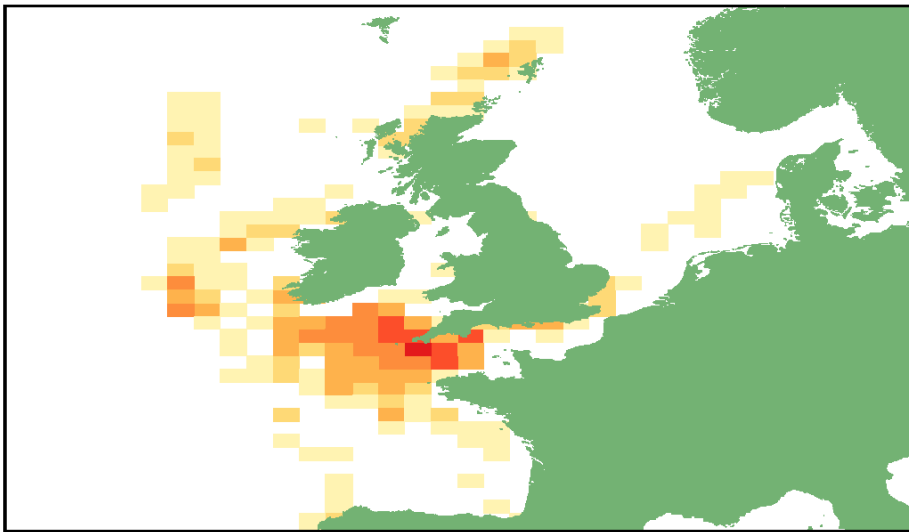
kW Days



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Chart A1.15: Drift and fixed nets effort by UK 10m and over vessels by ICES rectangle: 2017

Chart A1.15a: Number of vessels by ICES rectangle



Number of Vessels

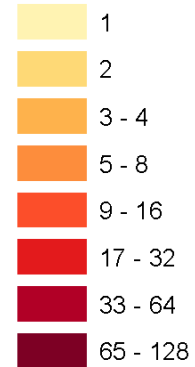
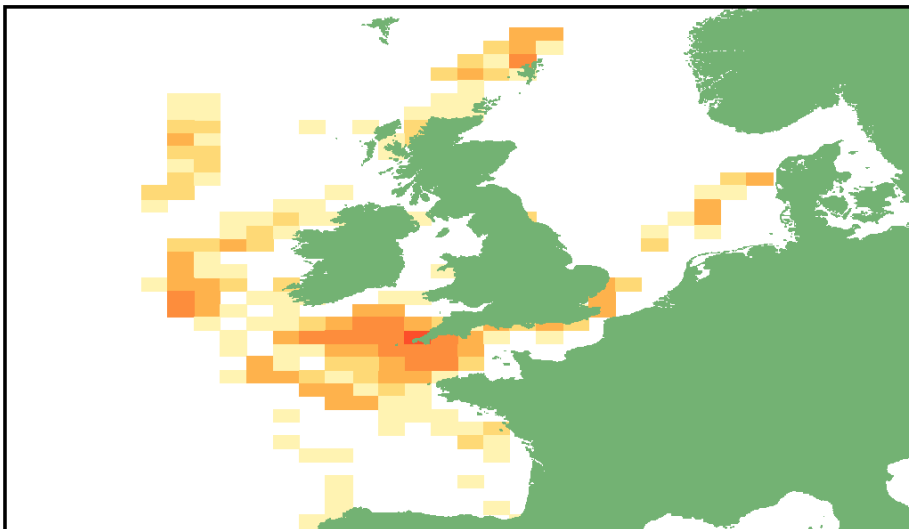


Chart A1.15b: Number of days at sea by ICES rectangle



Number of Days at Sea

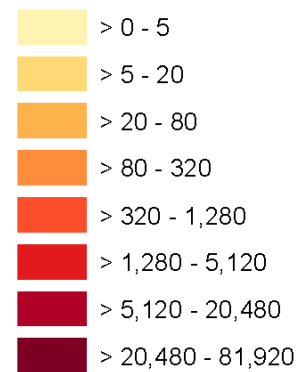
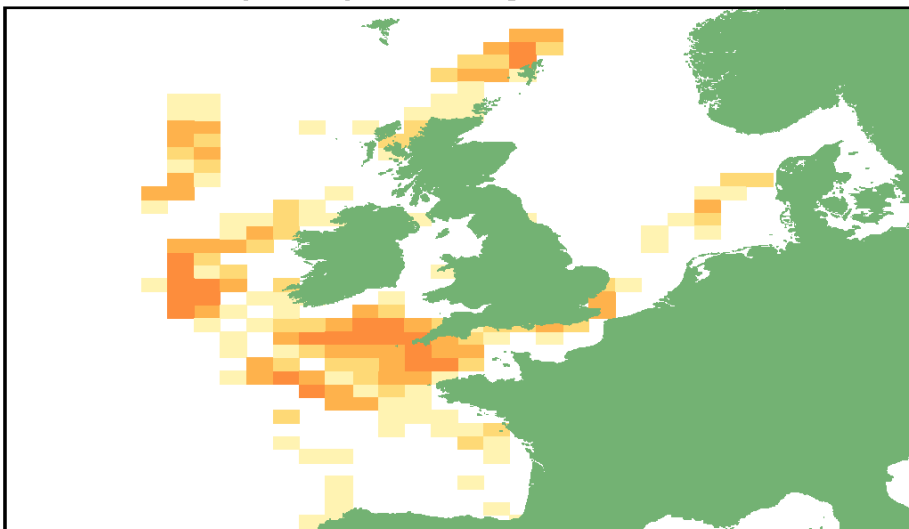
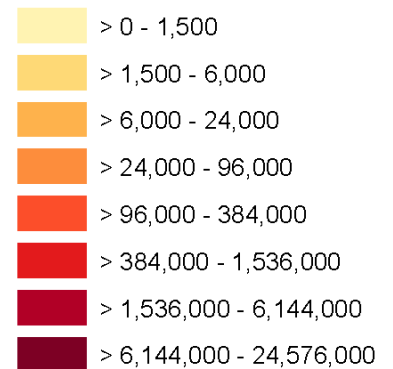


Chart A1.15c: kW day units by ICES rectangle



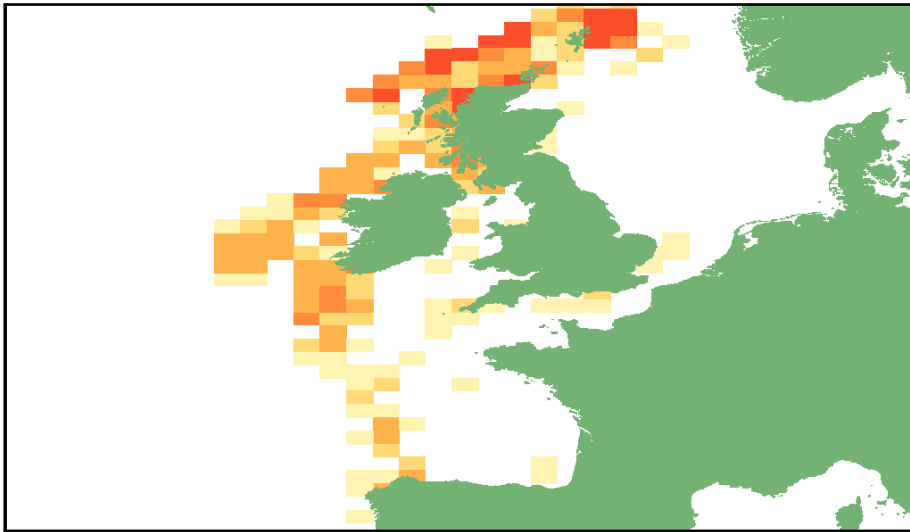
kW Days



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Chart A1.16: Gears using hooks effort by UK 10m and over vessels by ICES rectangle: 2017

Chart A1.16a: Number of vessels by ICES rectangle



Number of Vessels

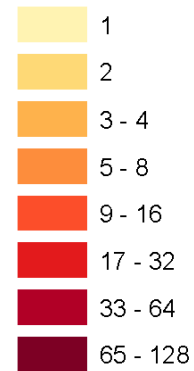
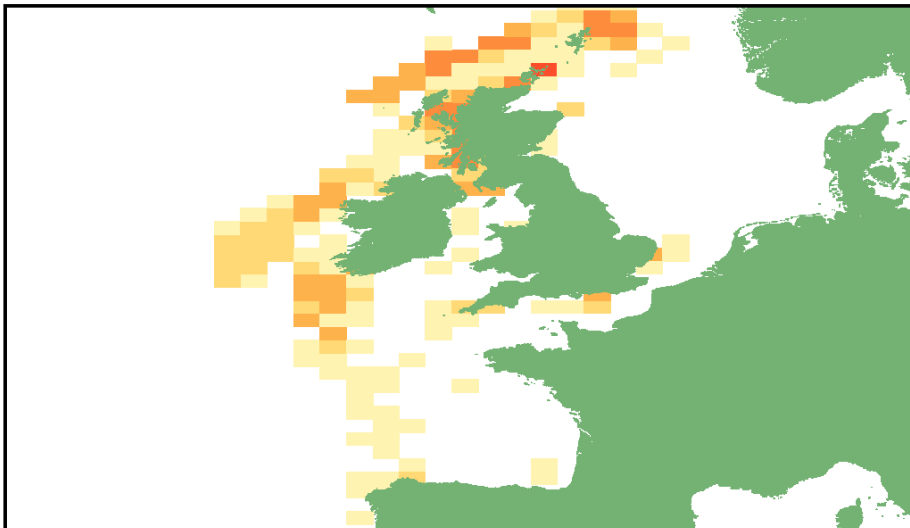


Chart A1.16b: Number of days at sea by ICES rectangle



Number of Days at Sea

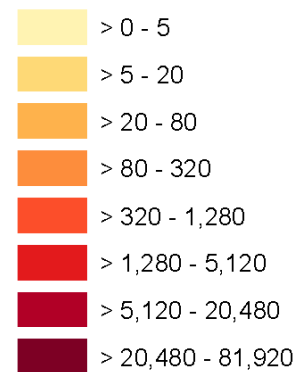
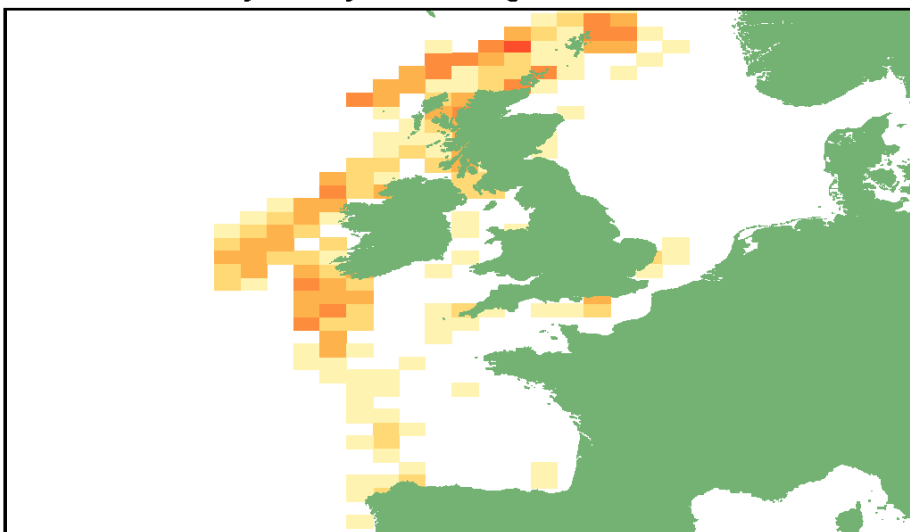
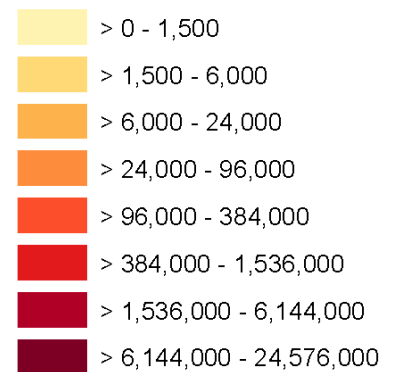


Chart A1.16c: kW day units by ICES rectangle



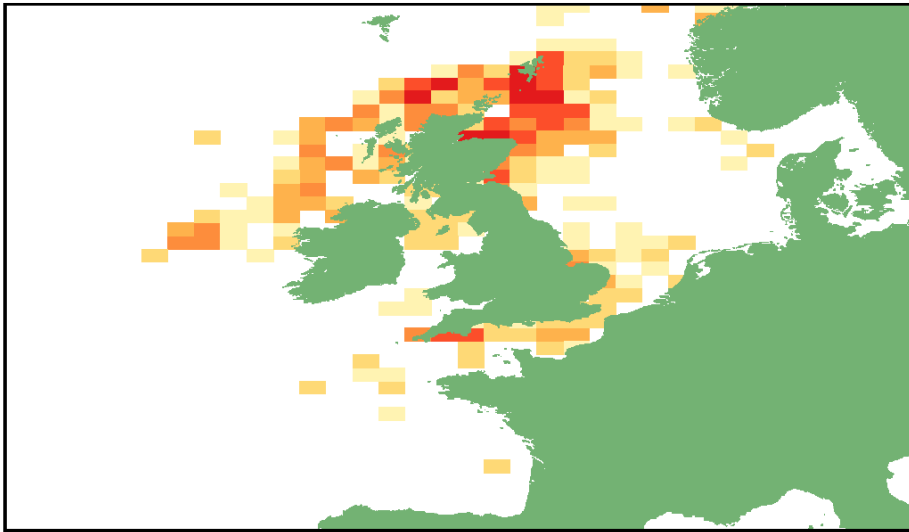
kW Days



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Chart A1.17: Pelagic purse seine & trawl effort by UK 10m and over vessels by ICES rectangle: 2017

Chart A1.17a: Number of vessels by ICES rectangle



Number of Vessels

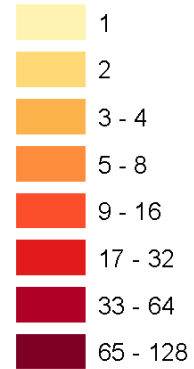
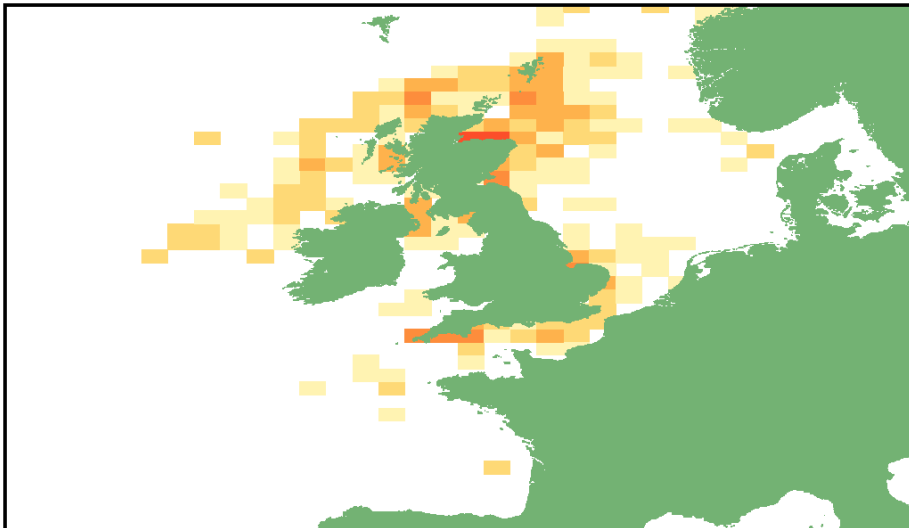


Chart A1.17b: Number of days at sea by ICES rectangle



Number of Days at Sea

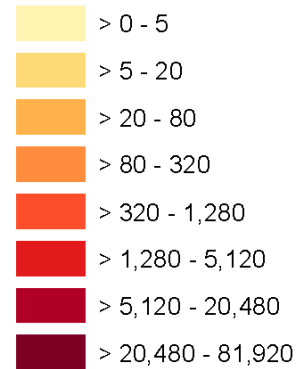
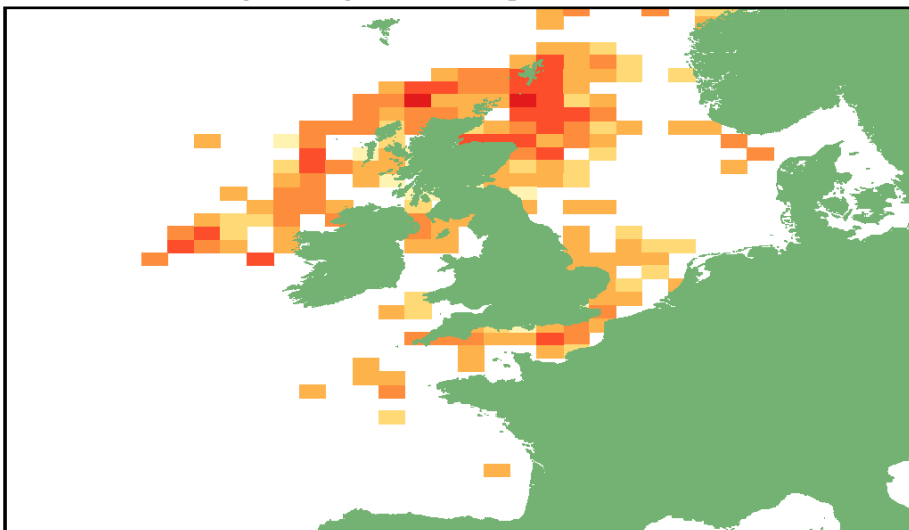
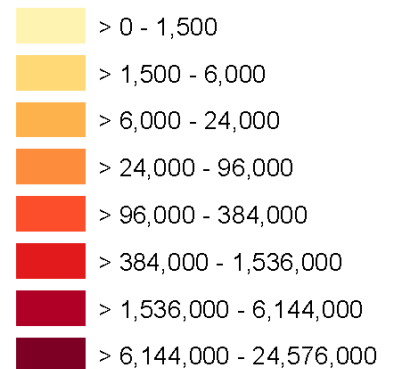


Chart A1.17c: kW day units by ICES rectangle



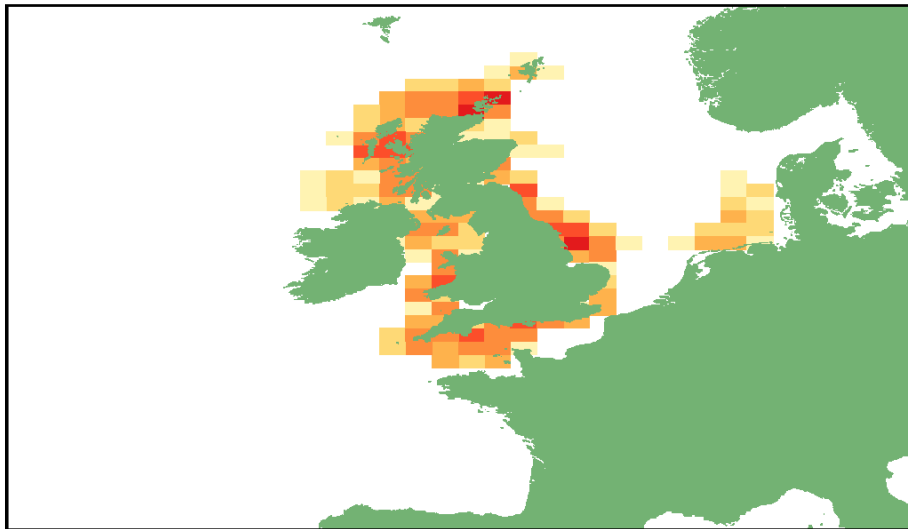
kW Days



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Chart A1.18: Pots and traps effort by UK 10m and over vessels by ICES rectangle: 2017

Chart A1.18a: Number of vessels by ICES rectangle



Number of Vessels

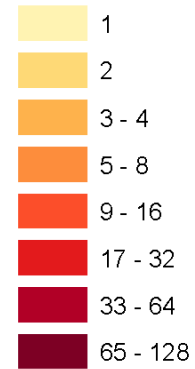
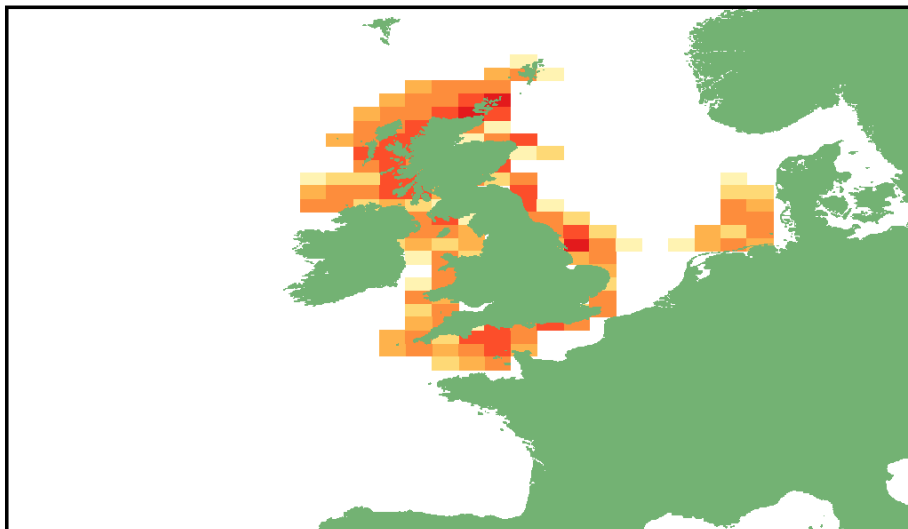


Chart A1.18b: Number of days at sea by ICES rectangle



Number of Days at Sea

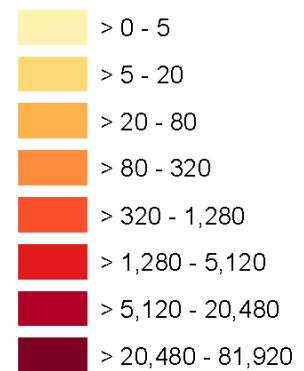
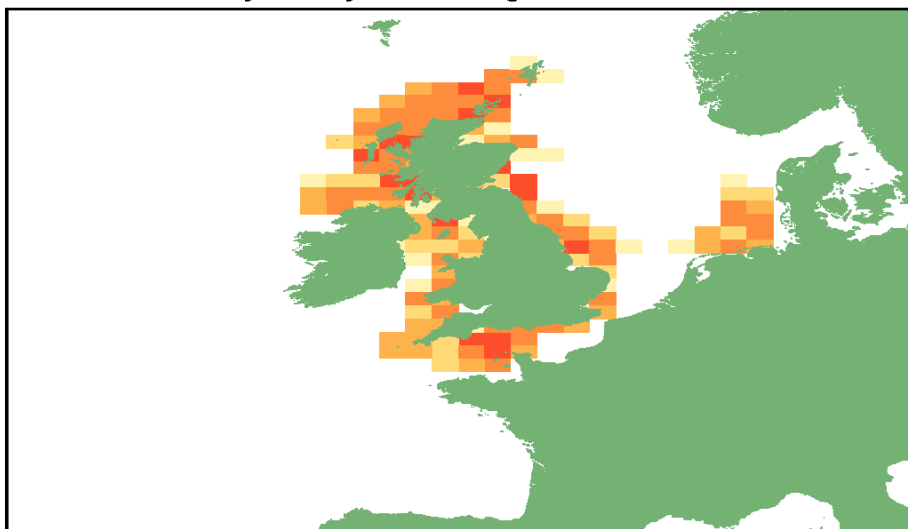
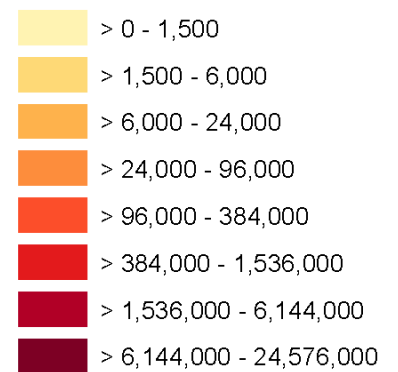


Chart A1.18c: kW day units by ICES rectangle



kW Days



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Appendix 2: Glossary of terms

Administration port	Administration ports are responsible for issuing fishing vessel licences. The coastal office designated as a vessel's administration port is typically the responsible office closest in proximity to a vessel's operational base. A vessel's administration port may differ from its registration port.
Biologically Sensitive Area (BSA)	The Biologically Sensitive Area is a sea area in which restrictions exist on fishing effort by vessels 10 metres or over targeting certain species. The region is defined in Article 6 of Council Regulation (EC) No 1954/2003. It lies within ICES sub-area VII and constitutes part of the Western Waters.
Chain volume measure	A chain volume measure is an index number from a chain index of quantity (a chain index is an index constructed by linking two or more index series of different base periods or different weights). The index number for the reference period of the index may be set equal to 100 or to the estimated monetary value of the item in the reference period.
Cod Recovery Zone (CRZ)	<p>The Cod Recovery Zone (CRZ) is a group of sea areas in which restrictions exist on fishing effort by vessels 10 metres or over using certain regulated gears. The CRZ comprises four areas: Kattegat, Irish Sea (ICES division VIIa), North Sea (ICES division IIIa excluding Kattegat; ICES sub-area IV; EU waters of ICES division IIa; ICES division VIIId) and West of Scotland (ICES division VIa and EU waters of ICES division Vb).</p> <p>The regulated gears are:</p> <ul style="list-style-type: none">• Beam trawls of mesh:<ul style="list-style-type: none">– equal to or larger than 120 mm (BT1)– equal to or larger than 80 mm and less than 120 mm (BT2)• Gill nets, entangling nets (GN1)• Trammel nets (GT1)• Longlines (LL1)• Bottom trawls and seines of mesh:<ul style="list-style-type: none">– equal to or larger than 100 mm (TR1)– equal to or larger than 70 mm and less than 100 mm (TR2)– equal to or larger than 16 mm and less than 32 mm (TR3)
Consumer Price Index (CPI)	The Consumer Price Index (CPI) measures the average change in the prices of goods and services bought for the purpose of consumption in the UK. It is calculated according to a different formula than the Retail Price Index (RPI), and has narrower commodity coverage. The RPI excludes very high and low income households and hence the CPI has wider population coverage than the RPI.
Demersal	The term demersal fish covers species living on or near the sea bed.
Engine power	Engine power refers to a measure of the power of a fishing vessel's engine (in kW). Where an engine has been permanently de-rated

and this has been declared to the Register of Shipping and Seamen (RSS), this is the de-rated engine power; otherwise, it is the maximum continuous engine power (MCEP) declared to the RSS. Where neither of these are available the registered engine power is used.

Exports	Exports consist of the outward movement of goods produced by businesses in the UK, plus goods, which after importation, move outward from bonded warehouses or free zones without having been transformed i.e. both exports and re-exports. Export statistics exclude fish caught by domestic fishing craft, whether or not processed on board, landed in foreign ports. In UK export statistics, domestic fishing vessels are defined as vessels in UK economic ownership; these may differ from vessels registered in the UK.
Fishing areas	Fishing areas are defined by international convention. The immediate waters around the UK are subdivided into ICES sub-areas IV (North Sea), VI (West of Scotland) and VII and its divisions the Irish Sea, VIIa; Celtic Sea, VIIg,h; Bristol Channel, VIIf; and the English Channel, VIId,e. See Appendix 3.
Fishing capacity	Fishing capacity is the physical dimension of fishing vessels measured in gross tonnage (GT), or – in engine power terms – kilowatts (kW). See definitions in this glossary.
Fishing effort	Fishing effort is an aggregate measure of the activity of fishing vessels in a given sea area. It may be measured as the total time spent at sea (in hours or days), as the sum of the products of fishing capacity and time at sea for each vessel (in GT days) or as the sum of the products of engine power and time at sea for each vessel (in kW days).
Fishing mortality	Fishing mortality is the proportion of a stock killed/dying each year as a result of fishing activity.
Fish flour	Fish flour is powdered fish meal.
Fish meal	Fish meal is dried, ground fish (chiefly fish offal). It provides a dry, storable product that is frequently used in animal feeds.
Fish oil	Fish oils are oils extracted from fish, typically pelagic species such as herring and mackerel.
Fish preparations	Fish preparations refer to fish that have been prepared using one of the following techniques: fresh or chilled, frozen, salted, in brine, dried or smoked, prepared or preserved.
Fish producer organisation (FPO)	Fish producer organisations are institutions set up in accordance with EC regulations to improve the market for their members' catches. FPOs may also be granted responsibility by Fisheries Administrations for the management of fish quotas in addition to this function.
Fish products	Food products manufactured from fish such as fish meal, fish flour and fish oil.
Fixed gears	Fixed gears are mainly used for demersal species. They are normally vertically hung curtains of netting which enmesh or entangle the fish, fixed to the seabed with anchors or weights and held upright with floats.

Gross Domestic Product (GDP)	Gross Domestic Product (GDP) is a key indicator of the state of the whole economy. It is related to Gross Value Added (GVA) by adding the taxes on products and subtracting the subsidies from GVA. GDP is available at a whole economy level only, whereas GVA is available by industry sector.
Gross Registered Tonnage (GRT)	Gross Registered Tonnage (GRT) is a general term applied to a range of volumetric measures of vessel capacity.
Gross Tonnage (GT)	Gross Tonnage (GT) is a volumetric measurement of vessel capacity under the rules of the ITC69 (International Tonnage Convention). By the end of 2003 all UK fishing vessels over 15m overall length were required to have their tonnage measured on this basis.
Gross Value Added (GVA)	Gross Value Added (GVA) measures the contribution to the economy of each individual producer, industry or sector in the United Kingdom. GVA is used in the estimation of Gross Domestic Product (GDP), a key indicator of the state of the whole economy. Adding the taxes on products and subtracting the subsidies from GVA gives GDP. GDP is available at a whole economy level only, whereas GVA is available by industry sector.
The International Council for the Exploration of the Sea (ICES)	The International Council for the Exploration of the Sea (ICES) coordinates and promotes marine research on oceanography, the marine environment, the marine ecosystem, and on living marine resources in the North Atlantic. See also: Fishing areas.
Imports	Imports consist of all goods moving into a country, including goods for domestic consumption and goods into bonded warehouses or free zones. In accordance with the internationally recommended practice, import statistics include fish caught by foreign fishing craft, whether or not processed on board, landed in domestic ports. In UK import statistics, foreign fishing vessels are defined as vessels in foreign economic ownership; these may differ from vessels registered abroad. Only goods for which the final destination is the UK are included in import statistics.
Landed Price Index (LPI)	The Landed Price Index measures the average change in the prices at first sale of fish landed by UK vessels into the UK.
Landed weight	Mass (or weight) of a product at the time of landing, regardless of the state in which it has been landed. Landed fish may be whole, gutted and headed or filleted.
Live weight	The mass or weight of a product, when removed from the water.
National Statistics	<p>‘National Statistics’ are a subset of official statistics which have been assessed and certified by the UK Statistics Authority as compliant with its Code of Practice for Official Statistics. The label currently comprise three basic types:</p> <ul style="list-style-type: none"> • legacy ‘National Statistics’ – those statistical products which obtained their designation as ‘National Statistics’ before April 2008, but which have not yet been formally re-assessed. • re-assessed ‘National Statistics’ – those retaining their status after a formal re-assessment. • new ‘National Statistics’ – any statistical product which has been proposed by ministers as a candidate ‘National Statistics’ and

assessed and granted accreditation.

UK Sea Fisheries Statistics and its associated data sets are designated as National Statistics. They retained this designation following an assessment by the UK Statistics Authority in 2011. For more information see the UK Statistics Authority website at www.statisticsauthority.gov.uk/national-statistician/types-of-official-statistics.

Nominal catches

Nominal catches refer to landings converted to a live weight basis. A nominal catch consists of fish, crustaceans, molluscs and other aquatic animals, taken for all purposes (commercial, industrial and subsistence) except recreational, operating in inshore, offshore and high seas fishing areas (marine fishing areas). Inland waters, both fresh and brackish, are excluded. The data on the landings of such species and products require conversion by accurate yield rates (conversion factors) to establish the live weight equivalents at their time of capture.

Official statistics

The Statistics and Registration Service Act 2007 defines 'official statistics' as all those statistical outputs produced by the Office for National Statistics, central Government departments and agencies, devolved administrations and other Crown and certain non-Crown Bodies.

For more information see the UK Statistics Authority website at www.statisticsauthority.gov.uk/national-statistician/types-of-official-statistics.

Pelagic

The term pelagic fish covers species found mainly in shoals in midwater or near the surface of the sea.

Quota

A share in a total allowable catch (TAC) held by an EU member state. EU TACs are divided on the basis of a number of factors, including the member state's past catch record. Shares are awarded according to a principle of 'relative stability', namely that each member state should enjoy a fixed percentage share of the fishing opportunities for commercial species across time. See also: Total allowable catch.

Recruits

Recruits are the young fish in the year class which is entering the fishery.

Registration port

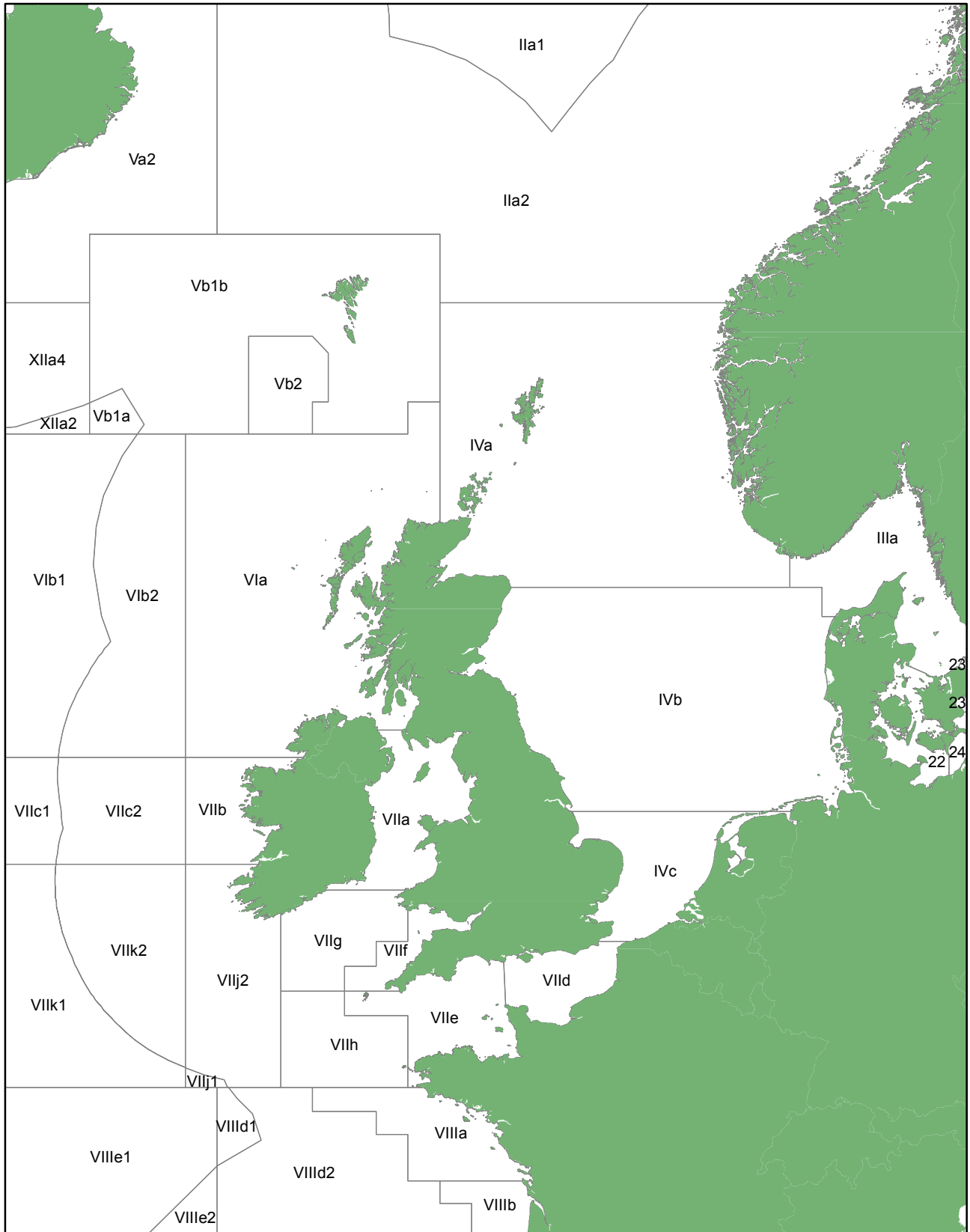
A registration port is a port chosen by the owner of a vessel as the port that forms part of the external markings of a fishing vessel – the Port Letters and Numbers painted on the bow of the vessel. The owner chooses this as part of the process of registering a commercial fishing vessel with the Register of Shipping and Seamen, part of the Maritime and Coastguard Agency. A fishing vessel's registration port defines its nationality but does not necessarily coincide with its administration port and may not be located close to the vessel's operational base.

Retail Price Index (RPI)

The Retail Price Index (RPI) is the most long standing general purpose domestic measure of inflation in the United Kingdom. It is calculated according to a different formula than the Consumer Price Index (CPI), and has wider commodity coverage. The RPI excludes very high and low income households and hence the CPI has wider population coverage than the RPI.

Seining	Seining is a method used exclusively for demersal fishing. The net, lighter than for trawling, is set on very long ropes designed to herd or contain the fish for capture in the net. After the fish have been surrounded by the ropes, the net is slowly hauled back to the vessel.
Shellfish	The term shellfish covers all crustaceans and molluscs.
Sole Recovery Zone (SRZ)	The Sole Recovery Zone (SRZ) corresponds to the Western Channel (ICES division VIIe), in which restrictions exist on fishing effort by vessels 10 metres or over using regulated gears. In the SRZ, regulated gears are beam trawls of mesh size equal to or greater than 80mm and static nets, including gill-nets, trammel-nets and tangle-nets, with mesh size less than 220mm.
Spawning stock biomass (SSB)	The spawning stock biomass (SSB) is the total weight of a species population capable of reproducing.
Stock	A stock is that part of a species population exploited in a defined fishing area.
Total allowable catch (TAC)	A total allowable catch (TAC) is a catch limit set by EU fisheries ministers for a particular stock. TACs are fixed on an annual basis on the basis of scientific research by national and international organisations, including ICES and the European Commission's Scientific, Technical and Economic Committee for Fisheries (STECF). TACs are usually expressed in tonnes live weight. See also: Quota.
Transshipment	The transfer from one conveyance to another for shipment. In this case, transshipments usually take place in coastal waters.
Trawling	Trawling may be used either for bottom-dwelling (demersal) or mid-water (pelagic) species, the net being of a basic funnel-shaped construction and towed behind a vessel or between two vessels (pair trawling).
Western Waters	<p>The Western Waters are a group of sea areas in which restrictions exist on fishing effort by vessels 15 metres or over on trips with certain target species. The Western Waters comprise nine areas, of which UK registered vessels are permitted to deploy effort in four: ICES sub-areas V and VI, ICES sub-area VII, ICES sub-area VIII and the Biologically Sensitive Area.</p> <p>Target species are demersal species (excluding those covered by Council Regulation (EEC) No 2347/2002), scallops and edible crab and spider crab. In the Biologically Sensitive Area, restrictions exist on fishing effort by vessels 10 metres or over on trips with these target species.</p>
Year class	A year class is the young of any one annual spawning.

Appendix 3: ICES divisions



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Appendix 4: UK fisheries statistics methodology

Fleet size and composition

Statistics on the UK fishing fleet since 1990 have been based on the fleet of fishing vessels as registered with the Register of Shipping and Seamen, part of the Maritime and Coastguard Agency which is an executive agency of the Department for Transport. Information provided by the Register includes the length (overall and registered), breadth, gross tonnage, power, age and material of construction. Information on the fishing fleets of the Isle of Man, Guernsey and Jersey are supplied by the respective registering authorities. Prior to 1990, the statistics were based on fishing vessels known by Administrative Departments to be active.

Statistics on the size of the UK fishing fleet are complicated by the fact that the European Union (EU) has progressively revised the methodology used to determine vessel tonnage for the fishing fleet from various national and international standards, previously collectively called Gross Registered Tonnage (GRT), to a common standard based on the International Tonnage Convention 1969 (ITC69) and known as Gross Tonnage (GT). A phased programme of re-measurement was introduced in the UK in 1996 which was completed by the early part of 2004.

Licensing of vessels first applied in 1977 and covered only fishing vessels over 40 feet (12.14 metres) in certain fisheries. Following the adoption of the European Union's Common Fisheries Policy, the UK designated a number of fish stocks as pressure stocks and introduced a restrictive licensing scheme for vessels fishing those stocks. The licensing regime initially only covered vessels over 10 metres registered length, but its coverage has been progressively extended over the years.

- In February 1990 the licensing regime was extended to vessels of over 10 metres overall length fishing for quota stocks.
- Later in 1990 restrictive licensing was extended to cover all fishing by vessels over 10 metres overall length with the exception of those fishing for salmon and migratory trout which were covered by a separate regime.
- From May 1993 licensing was extended to vessels of 10 metres and under overall length.

Statistics on the UK fishing fleet in this publication are based on the fleet of fishing vessels as registered with the Register of Shipping and Seamen. To this is added details of fishing vessels as registered with the Crown Dependencies (Isle of Man and the Channel Islands) to form the full UK fleet, details of which are reported to the European Commission on a regular basis and recorded as part of the EU Community Fleet Register.

The UK fleet has been broken down for analysis by individual country based on the administration ports where vessels were licensed as at the end of 2017. Vessels which are registered but do not have an administration port at this time are not counted against any country.

Fish Producer Organisation membership

Fish producer organisations are institutions set up in accordance with EU regulations to improve the market for their members' catches. In the UK, FPOs are also granted responsibility by Fisheries Administrations for the management of fish quotas for vessels in their membership.

Vessel owners notify UK Fisheries Administrations when transferring between FPOs for the purposes of quota management. A comprehensive database of membership of FPOs is maintained which augments the vessel data provided by the Register of Shipping and Seamen.

Fishermen numbers

Data on fishermen numbers are collected separately by the Marine Management Organisation (MMO) for England, Marine Scotland, the Department of Agriculture, Environment and Rural Affairs for Northern Ireland (DAERA) and the Welsh Assembly Government (WAG). The Departments in Jersey, Guernsey and the Isle of Man do not contribute data on fishermen numbers.

In Scotland and Northern Ireland, staff in coastal offices are issued with a census of all vessels in their responsibility and asked to provide data on the number of part-time and regular fishermen on each vessel. Marine Scotland and DAERA process and compile these data to provide estimates of fishermen numbers on vessels at each port of administration.

In England and Wales, a census of fishing vessels over 10 metres in overall length is performed. For the large number of fishing vessels 10 metres and under in length, a stratified sample of vessels is taken, with strata defined by administration port, vessel length and gross tonnage. A 20 per cent sample is drawn from each stratum. As in Scotland and Northern Ireland, staff in coastal offices provide data on the number of part-time and regular fishermen on each vessel in their administration based on enquiries and local knowledge. All staff are provided with clear guidance on how to complete the survey.

From 2010, revised guidance was issued to staff on how to complete the survey. For the purposes of the survey, a fisherman is defined as a person working at sea on a commercial fishing vessel, such as skippers or crew members. The definition excludes persons not working at sea, such as administrators and land-based processing staff. Fishermen are classified as regular or part-time according to whether commercial fishing is their main occupation.

Data collected for England and Wales are processed by the MMO. Checks are made on the quality and reliability of data returned and every effort is made to minimise non-response. In the 2017 survey, fishermen numbers were collected for 1,108 of the 1,128 vessels surveyed, i.e. 98.2 per cent. Where no data were available on fishermen numbers for a vessel the value was assumed to be the average number of fishermen on vessels in the same stratum, such that no bias was caused by non-response. Estimates from the survey for England and Wales are combined with those supplied by Marine Scotland and DAERA to provide overall UK estimates.

Activity and landings

Statistics on fishing effort and landings are calculated using data collected and processed by officials of the various Fisheries Administrations in the UK, namely the MMO, Marine Scotland, DAERA, WAG and Departments in Jersey, Guernsey and the Isle of Man.

The main legislation used to collect these data is:

- (i) the EU fisheries legislation on keeping and submitting logbooks and providing landing declarations and sales notes, primarily Council Regulation (EC) No. 1224/2009 (the 'Control Regulation').
- (ii) general powers under the Sea Fisheries (Conservation) Act 1967 under which Ministers granting a licence can require the master, owner or charterer of the vessel named in the licence to provide such statistical information as required. These powers were widened in the Sea Fish (Conservation) Act 1992 to cover other types of information and the form in which it is to be supplied.

The method of data collection depends on the length of the vessel.

Data collection for vessels over 10 metres in overall length

Data collected on fishing effort by over 10 metre vessels come primarily from the fishing logbook. Two additional sources are used to collect data on landings by over 10 metre vessels: landing declarations and sales notes.

The fishing logbook captures data on fishing activity by individual vessels by trip, and for each day of activity within a trip. This includes details of the catch, by species, in terms of the presentation and quantity of fish retained on board. Information is also collected on the fishing gear used and the ICES division, rectangle and zone for the activity. Supply of logbook data is mandated by legislation for all vessels over 10 metres overall length in respect of catches of all species. Logbook data for UK vessels must be submitted within 48 hours of landing to UK authorities; this includes landings into foreign ports.

Landing declarations provide information on the weight and presentation of fish landed by species. As with logbooks, landing declarations must be submitted to authorities within 48 hours of completion of the landing.

Sales notes are required in respect of first sales of fish and fishery products. For paper declarations, sales notes for first sales of fish must be submitted to UK Fisheries Administrations within 48 hours of sale by the registered buyer of the fish, except at designated auction centres where the registered seller has responsibility. This reduces to 24 hours if they are required to report sales notes electronically (see information below in the section "Requirements to report fishing activity data electronically").

Requirements set out in EU legislation to require the submission of logbook and landing declaration data electronically have in recent years been phased so that now virtually all UK vessels 12 metres and over in overall length are required to report their activity data by electronic means only. This phasing out of paper reporting was introduced on a vessel by vessel basis as on-board systems were installed, checked and tested through a period of double-running before vessels switched over to electronic-only reporting. Additionally, from 1 January 2009, buyers and sellers with an annual turnover of first sale fish of more than 400,000 euro have been required to submit sales notes electronically; this threshold was reduced to 200,000 euro from 1 January 2011. A UK Electronic Reporting Systems (ERS) Hub has been set-up to collect, process, and store these electronic data.

Data collection for vessels 10 metres and under in overall length

For 10 metre and under vessels, there is no statutory requirement under either EU or national legislation for fishermen to declare their catches. Historically, information for this sector has been collected with the co-operation of the industry: it comprised log sheets and landing declarations voluntarily supplied by fishermen as well as sales notes and assessments of landings collected from market sources and by correspondents located in the ports. This collection of data has now been replaced after the introduction in September 2005 of a scheme of registration for buyers and sellers of first sale fish (see above). Sales notes are now used in addition to the voluntary information from fishermen.

During 2005 and 2006, UK Fisheries Administrations introduced a system of restrictive licensing for activity targeted at shellfish. As part of this system, new reporting requirements were introduced involving a requirement for fishermen fishing with under 10 metre vessels to complete diaries of their daily activity which needed to be submitted on a monthly basis. Summary information from these diaries is in use in Northern Ireland and it is used alongside other data in other parts of the UK, but the main source of activity data in the rest of the UK is the sales notes data. This helps to ensure consistency with the activity data for other types of fishing activity that are also derived from the sales notes data. The diaries of activity are however an important source of information for the scientific assessment of the state of the local shellfish fisheries around the coast and as such the

data in them are entered, collated and analysed by scientists at the fisheries laboratories around the UK.

Coverage

Data collection for vessels over 10 metres overall length aims to achieve full coverage of activity by this sector of the fleet. For the sector 10 metres or under in overall length, landings are only reported where the fish are sold or data have been provided voluntarily, leading to reduced coverage¹.

The reliability of the data collected is dependent on the information provided by fishermen. Inspectors at port offices carry out a mix of manual and automatic checks on the information provided by vessel operators. These include a check between logbook information and that given in the sales notes or observed as landed as well as checks against other sources of information (e.g. satellite position reports, information from aerial and at-sea surveillance and inspection activity carried out by UK enforcement officers).

Despite legal obligations for fishermen to declare their catches, a proportion of fishing activity remains unreported. This chiefly affects landings data and the effects on statistics on fishing effort are considered to be small. A 2009 study² jointly funded by the Department for Environment, Food and Rural Affairs and the Department for International Development estimated that between 2000 and 2003, illegal fishing in the northeast Atlantic amounted to between 5 and 13 per cent of reported catches of species studied.

The extent of illegal and unreported fishing by UK vessels is uncertain and varies across stocks. However, it is considered that the overall level of unreported fishing has been reduced in recent years following the introduction of a scheme of registration for buyers and sellers of first sale fish, and the implementation of Commission Regulation (EC) No. 1005/2008 establishing a Community system to prevent, deter and eliminate illegal, unreported and unregulated fishing.

It should be noted that landings do not typically equate to total catches, as fish may be returned to the sea through a practice known as discarding. The degree of discarding varies by stock, and by the sector of the fleet involved. The figures presented in this publication should not be interpreted as total removals from the sea. However, with the implementation of the Landing Obligation whereby discarding of fish is prohibited, the amount of discards will clearly fall. The obligation began in 2015 for pelagic species and is currently being phased in for other species in anticipation of a full discard ban in 2019 (Commission Delegated Regulations (EU) 2018/45, 2018/46, 2018/189 and 2018/190).

Data processing

Information from log sheets, landing declarations, sales notes and other sources is keyed into computers connected to the main databases by government staff at port offices, or is transferred electronically from the UK ERS Hub. Details of the areas fished are taken from the logbooks and entered as codes for the ICES divisions and statistical rectangles. Where a statistical rectangle is split into different areas (e.g. part is in EU waters and part in Norwegian waters) an additional code is used to indicate the zone fished. Where a vessel fishes in more than one area in a single trip, the total amounts for the trip of each species, as given in the sales notes and landing declarations

¹ 2011 data showed an increase in reported landings into the Isle of Man. From 1 January 2011 the Isle of Man authorities became fully integrated with the data collection and recording systems operated by mainland fisheries administrations, enabling the inclusion of activity that was previously not available.

² Agnew DJ, Pearce J, Pramod G, Peatman T, Watson R, et al. (2009) Estimating the Worldwide Extent of Illegal Fishing. PLoS ONE 4(2): e4570.

are allocated to the areas in proportion to the estimated quantities of the species taken from each area, as recorded in the logbook.

In many cases only the weight of fish landed is provided, as it is impractical to record the weight of fish at the time of capture due to working conditions. The landed weight may differ significantly from the weight of the fish as it was taken from the sea, in large part due to the processing of the catch on board the vessel (e.g. gutting, filleting, etc). To render these data comparable, the landed weights are converted to a live weight equivalent using standard conversion factors according to the species landed and its presentation (e.g. gutted, skinned, etc).

The complete fishing records are transmitted to the central computer systems where further checks are carried out on the data before they are reflected in the main landings databases. Activity and landings data for the UK are compiled in a central database containing key information from systems run by the MMO and Marine Scotland. The former holds information on all landings into England, Wales and Northern Ireland and the Isle of Man by UK vessels and of landings abroad by vessels administered by the MMO, WAG, DAERA and Isle of Man Department of Environment, Food and Agriculture. The latter provides figures for landings into Scotland by all UK vessels and landings abroad by Scottish administered vessels.

Regular checks are made on the quality of the data and unusual records referred to staff in coastal offices to confirm or correct as necessary. In addition, prior to publication of these data, amendments are made to records with extreme prices for the weight of fish sold and values imputed based on average prices for the same species.

The sale value of transhipped landings is also imputed using an average price. These are instances where fish may be landed in the UK, but it is transported (usually by road and ferry) out of the UK before it is sold. This usually happens to allow vessel owners to take advantage of higher market prices for some species of fish when sold at continental markets rather than in the UK. Note that this differs from transshipment at sea. This involves transferring fish between vessels before landing, which is banned within community waters.

Effort statistics for the UK are calculated using trip data from the fishing logbook to determine the time spent at sea with each gear in each ICES sub-division and rectangle. This is combined with information from the Register of Shipping and Seamen on the capacity and engine power of vessels in order to calculate fishing effort exerted in GT days or kW days. These data are aggregated for different sea areas and gear types to produce the statistics shown.

In some instances the spatial resolution of the data is not sufficient to permit exact attribution of time spent at sea to recovery areas defined by EU legislation. In the Cod Recovery Zone, it is assumed that all effort deployed in ICES sub-division IIIa occurs outside of Kattegat. In the Western Waters, it is assumed that effort occurring within ICES rectangles transected by the boundaries of the Biologically Sensitive Area (BSA) occurs within the BSA itself. In this way measures of effort in the North Sea and BSA may be overestimates.

Effort deployed in the Western Waters is classified according to the target species of the trip. This is determined using a decision tree approved by the Scientific, Technical and Economic Committee for Fisheries (STECF) of the European Commission. The target species is assigned on the basis of the gears used and the species composition of the vessel's landings.

Changes in processing for UK Sea Fisheries Statistics 2012 onwards

All mussel landings with a zero landings value, since 2008, have been removed from the dataset used to create all the tables in Chapter 3. These landings were identified to be landings of mussel seed which, rather than being sold for human consumption at this point are re-laid for aquaculture. They are then harvested and sold at a later stage. As these landings are not sold at the point of initial dredging they have been removed and the data recalculated.

In the calculation of average prices throughout Chapter 3, landings with a zero value have not been included in the calculation as inclusion would result in a lower average price. There are various reasons why landings may have a zero value. There are some fish which cannot be sold and therefore have a zero value e.g. undersize fish landed as part of catch quota work, or scientific dispensation landings which cannot be sold but have to be recorded in sales notes to allow cross checks with landings declarations. There are also instances where fish are not offered for sale or are intended for sale at a later date, and so are subject to takeover declarations. For the 2017 edition of Sea Fisheries Statistics, many of the takeover declarations – largely relating to landings into Grimsby – have had values imputed based on vessel agents' price data. Other zero value landings into the UK have also had values added to better reflect the true value of fishing to the economy.

EU reporting requirements on fishing activity data

As part of the EU legislation that established controls on fishing activity, limits are set in two key areas:

- (i) Fish quotas – limits on the level of fish that can be caught and landed related to the species of fish and sea area of activity.
- (ii) Fishing effort – limits in terms of the total fishing effort that can be exerted, usually in terms of the days spent at sea by vessels combined with a measure of their catching capacity such as engine power.

The legislation that sets out control limits in these two areas also includes requirements on Member States to report data on the uptake by their fishing fleets against these levels. However, the information reported to the Commission has to be collated in line with two conflicting requirements, that is to report accurate data that are available as at the time of submission, as well as meet the tight reporting deadlines for providing information to the Commission after the end of a period. For example, information for end year quota and effort uptake has to be reported by the 15th calendar day after the end of the period in question.

Following the reporting of data to the Commission, there are additional processes that need to occur to allow the “close-down” of a year for quota and effort management purposes, such as additional checks with the Commission and other Member States on data, the agreement of end year quota and effort swaps, and the agreement on banking and borrowing of fish quotas between years. This close-down is a necessary element within the management of fishing activity as it allows for the level of any overfishes for the previous year to be determined and penalties needed for the current year to be set. This needs to be done as early in the year as possible to ensure that both national administrations and the fishing industry know the levels of quota and effort they have to operate with, so that any detrimental effect on management of activity within the current year is avoided.

As part of ensuring the close-down process takes place as early as possible, the Commission sets out operational requirements related to reporting amendments to data. After initial submissions by 15 January, final data for the previous year's quota and fishing effort uptake have to be submitted to the Commission by 15 February. There are, however, lags in the reporting of data on activity by fishermen that include:

- The legislative requirement on fishermen is to submit the reports on their operations within 48 hours of a landing taking place. This does not guarantee that fishing administrations receive this information within 48 hours, and we frequently experience significant delays in receiving documentation.
- Processing of documentation takes time as there is a significant amount of information reported on the logbook on the activity of vessels. The EU logbook system used for the

vessels over 10 metres in length covers many different reporting obligations, thus the volume and complexity of data involved can lead to delays in data entry.

- The information received is thoroughly checked and validated before reporting to the Commission. This can delay the use of data.

In previous years a consequence of the early reporting deadline and the required close-down of a year has been that there were data entered and validated after the reports were submitted to the Commission. For the final reports on UK landings of quota species and fishing effort for 2013 onwards, a revised approach was taken which combines pre-validated data (from electronic logbooks and VMS systems) with fully validated data that have gone through the array of cross checks required under the EU Regulations. Additional validation processes were put in place to quality assure the pre-validated data prior to submission. By definition it was not possible to include any estimates for landings where no information to inform authorities that a landing or fishing activity had taken place had been received.

The desire to reduce the impact of these lags in information is one of the key drivers for larger fishing vessels to move to electronic reporting of data on activity both in terms of the activity carried out by fishermen at sea and also in terms of the land-based activity in terms of the sales notes associated with the first sale of the fish after landing, and so the requirements to report data electronically have been expanded over recent years. By the first half of 2015, all UK vessels 12 metres and over in length were submitting activity data electronically - vessels 12 metres and over in length accounted for 91 per cent of the total quantity of fish landed by UK vessels in 2017. In terms of the sales notes, these are usually reported by the merchants buying the fish, and for these first sales of fish within the UK in 2016, around 90 per cent of the tonnage of fish reported as sold from UK vessels were reported via electronic sales notes rather than paper documents. The electronic reporting of activity has helped to significantly reduce the lags in the monitoring and reporting of activity.

Data are prepared for the annual statistics publication at a point significantly after the close-down date for EU reporting systems. The publication is prepared to meet a wide range of uses. Apart from Tables 2.10 and 3.12, the data included incorporate the full picture of data held on UK fisheries administrations systems including information on any landing that is received after the EU close-down date and also all data that have passed through the complete checking and validation processes. This means that the publication gives as complete a picture as possible of total UK vessel activity in quantity and value terms. We therefore report on all landings and effort data, including that related to non-quota species (such as shellfish) which are of economic importance to the UK industry. See Appendix 5 for details of our policy with regards to data revisions.

Requirements to report fishing activity data electronically

Requirements to report data on fishing activity through electronic reporting systems rather than by using the paper community logbook were first introduced by Council Regulation (EU) 1996/2006. A phased approach to the introduction of requirements to report data electronically was planned to cover all vessels over 15m overall length. These requirements were subsequently revised by Council Regulation (EU) No. 1224/2009 that introduced an extended deadline for the change-over as well as extending the requirements so that all EU fishing vessels over 12m overall length would eventually be required to report data by electronic means. The full requirements of the electronic reporting system are in Commission Implementing Regulation (EU) No. 404/2011. This sets out the various elements of activity during a fishing trip that must be reported – these cover all possible events and activities from the vessel leaving port to its return to land fish. More details on these requirements can be found on the MMO internet site and that of the European Commission via the links given below:

<https://www.gov.uk/government/publications/how-to-report-fishing-activities-using-an-electronic-logbook-software-system>

As stated earlier, by the first half of 2015, all active UK fishing vessels of 12 metres and over in length were reporting their data electronically. Both data reported electronically and on paper declarations go through extensive validation checks, with the system used for electronic returns extended to cover the differences in structure and the additional elements required within it. The validation system also covers checks mandated by EU legislation that must take place on all landings data received via electronic or paper declarations. These checks are set out in Article 109 of Council Regulation (EU) No. 1224/2009, and require the data reported on fishing activity in logbooks, landing declarations and sales notes to be cross-checked for consistency and accuracy. Activity data reported in these documents are also compared with other sources of information, such as satellite surveillance information from vessels where available.

The fishing activity data reported to the European Commission under the various sets of EU legislation have all gone through these checks before inclusion in the reports, with any discrepancies identified going through investigation to identify the causes in case further action is required. The investigation of discrepancies involves a significant degree of resources in all four UK fisheries administrations, but the complex nature of these checks does lead to instances where there can be a lag in time between the activity taking place and it being included in the data reports. The change-over to electronic reporting systems has increased the length of the validation process in some cases as vessel operators have had to become used to their new role as data reporters using the new electronic systems.

Imports and exports

HM Revenue & Customs (HMRC) is responsible for collecting the UK's international trade in goods data. The data are compiled from trade declarations made using commodity codes from the UN Tariff (HS Nomenclature) and its EU derivative the Intrastat Classification Nomenclature (ICN). These data are sent annually to the MMO, who process the data for this publication.

Landings of fish into the UK by foreign vessels are typically included in import statistics; however, statistics on imports and landings by foreign registered vessels may not strictly be comparable. Arrivals of fish should be reported where the economic owner of the vessel is outside the UK. In some cases, the countries of vessel registration and economic ownership may differ. A further complication is that import statistics do not include fish landed into the UK by foreign vessels which have a final destination outside the UK. Lastly, in some cases there exists a value threshold for declaration of imports. For these reasons it is possible that imports of fish may be below the quantity of landings reported for foreign registered vessels.

Exports include dispatches of fish by UK economically owned vessels when landing outside the UK. For similar reasons to those for imports, these are not directly comparable with landings by UK registered vessels abroad.

Household consumption and expenditure

Data on household purchases are sourced from the Living Costs and Food Survey run by the Office for National Statistics. The Family Food module of the survey collects detailed quantity and expenditure information on household and eating out purchases of food and drink for use by the Department for Environment, Food and Rural Affairs (Defra).

The survey is an annual voluntary sample survey of private households. The survey is continuous, with interviews being spread evenly over the year to ensure that seasonal effects are covered. Each report details the number of people and households that completed a diary during the reporting year.

Each individual aged 16 and over in the household is asked to keep diary records of daily expenditure for two weeks. Information about regular expenditure, such as rent and mortgage payments, is obtained from a household interview along with retrospective information on certain large, infrequent expenditures such as those on vehicles. Simplified diaries are kept by children aged between 7 and 15.

Prior to 2008, the Living Costs and Food Survey was named the Expenditure and Food Survey. In 2001-2002 this replaced the National Food Survey and the Family Expenditure Survey. More detailed methodological information for all four surveys is available from Defra and the Office for National Statistics.

Inflation

The Retail Price Index (RPI) and Consumer Price Index (CPI) measures of inflation are produced by the Office for National Statistics. The Landed Price Index (LPI) is produced by the MMO.

Only the components of the RPI and CPI for fish prices are included in this publication. These were based on a 'basket' of six items: fresh white fish fillets, fresh salmon fillets, frozen prawns, canned tuna, fish fingers, and frozen breaded/battered white fish. These two price indices differ in three main ways:

- population base – the RPI excludes very high and low income households and hence the CPI has a wider population coverage than the RPI.
- formulae used to combine prices – the CPI uses a combination of geometric means and arithmetic means, whereas the RPI only uses arithmetic means.
- commodity coverage – the CPI excludes owner occupiers' housing costs and hence the RPI has wider commodity coverage than the CPI. The fish components of these indices have the same commodity coverage.

Further methodological details for the RPI and CPI are available from the Office for National Statistics.

The LPI is a simple price index used to assess the change in prices at first sale of fish landed into the UK by UK vessels. It is calculated using the average annual prices of 46 categories of fish species, using data collected on all landings into the UK by UK vessels. The prices are aggregated using a weighted mean, with weights chosen as the quantities landed (in live weight equivalent) of each species category into the UK in 2000.

GDP for fishing

The Office for National Statistics produces data on gross value added (GVA), gross domestic product (GDP) and output indices. GVA measures the contribution to the economy of each individual producer, industry or sector in the United Kingdom. It is used in the estimation of GDP, a key indicator of the state of the whole economy. In the UK, three theoretical approaches are used to estimate GDP: 'production', 'income' and 'expenditure'. When using the production or income approaches, the contribution to the economy of each industry or sector is measured using GVA.

The production approach to estimating GDP looks at the contribution of each economic unit by estimating the value of an output (goods or services) less the value of inputs used in that output's production process. The income approach to estimating GDP measures the incomes earned by individuals (e.g. wages) and corporations (e.g. profits) in the production of outputs (goods or services).

The link between GVA and GDP can be defined as: GVA (available by industry only) plus taxes on products (available at whole economy level only), less subsidies on products (available at whole economy level only) equals GDP (available at whole economy level only). In summary:

$$\text{GVA} + \text{taxes on products} - \text{subsidies on products} = \text{GDP}$$

Further methodological details on GDP and GVA are available from the Office for National Statistics.

Other data sources

EU fishing vessels

The European Commission collects and publishes data on the characteristics of EU fishing vessels in the EU Fleet Register. Each Member State provides the Commission with a complete snapshot of their national register to the EU Fleet Register on the first working day of March, June, September and December each year, as required by Commission Regulation (EC) No 26/2004. Validation checks are performed to confirm the consistency of data submitted before the data are published in an online database.

Accidents, lost vessels and fatalities

Data on accidents involving UK fishing vessels are collected and compiled by the Marine Accident Investigation Branch (MAIB), a separate branch within the Department for Transport. MAIB inspectors examine and investigate all types of marine accidents involving UK vessels worldwide, and other vessels in UK territorial waters.

EU landings

EU member states exchange information on landings of quota species via the Fisheries Language for Universal Exchange (FLUX). Data on the quantity landed of each stock subject to quotas are submitted to meet monthly reporting deadlines set out in EU legislation, in particular Council Regulation (EC) No. 1224/2009. These reporting deadlines are often shortly after the close of the fishing period; data lags mean that the figures reported are typically slight underestimates of the true quantity landed. Each member state reports the landings into their own country by vessels registered in other member states, leading to occasional differences with figures reported by the UK on landings by UK vessels abroad. The figures are compiled by the European Commission to give an overall picture of the landings by each member state.

Stock assessments

Stock assessments are provided by the International Council for the Exploration of the Seas (ICES) using data supplied by national administrations. In the UK, the Centre for Environment, Fisheries, and Aquaculture Science (Cefas), an executive agency of Defra, provides expert advice on fisheries assessment.

The world fishing industry

Data on the world fishing industry are compiled by the Fisheries and Aquaculture Department of the Food and Agriculture Organisation of the United Nations (FAO). Data on landings by UK vessels are supplied by the MMO on an annual basis; separate figures for the Isle of Man and the Channel Islands are sent directly by their Fisheries Departments. FAO figures are not directly comparable with landings figures in Chapter 3 owing to differences in time of production.

Appendix 5: Revisions policy

Where possible, the Marine Management Organisation produces revised figures each year to ensure that users have access to the latest data available. Revisions typically affect fishing effort, catches and trade data, where data from logbooks, landing declarations, sales notes and trade declarations may occasionally be received or amended several months after the event. The magnitude of revisions to tables is typically larger for more recent years although the size of revisions is usually very small. Any revised data presented in this publication will be clearly marked with an 'R' against the relevant entries.

There are a number of causes of the revisions made in this publication:

- i) **Receipt of additional data.** Despite strict data reporting requirements, some data are not received or entered at the time of publication. This typically affects data for more recent years.
- ii) **Revisions to data sources.** Corrections are made to database entries throughout the year where these are found to be incorrect. In addition, for landings data systematic corrections are made to implausible quantities and values prior to production of the publication to reduce the influence of outliers.
- iii) **Rectification of data processing errors.** Where data are found to have been incorrectly processed for a previous publication, these errors are corrected as soon as possible.

Users should always refer to the latest figures published by the Marine Management Organisation. Previous editions of all publications are made available online on the Marine Management Organisation website should users wish to examine the effect of revisions in further detail.

The Marine Management Organisation adheres to the Department for the Environment, Food and Rural Affairs' policy on revisions and errors. Further information can be found in the *Statement on Revisions and Errors* at

<https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs/about/statistics#corporate-procedures-and-standards>.

Structure and activity of the UK fishing industry

Several tables in Chapter 2 are revised annually as follows:

Table	Title
2.7	Number of accidents, lost vessels and fatalities involving UK vessels: 2007 to 2017 (revised by the Marine Accident Investigation Branch)
2.8	Beam trawl activity in the Sole Recovery Zone: 2002 to 2017
2.11	Days at sea for the over 10m UK fishing fleet: 2002 to 2017 (supplementary table)

Landings

Tables in Chapter 3 are revised annually for the preceding four years to reflect information received since the previous publication. The following table shows the effect of revisions to landings data published in *UK Sea Fisheries Statistics 2016*:

Figures published in *UK Sea Fisheries Statistics 2017* as a proportion of figures previously published in *UK Sea Fisheries Statistics 2016*

	Quantity				Value			
	2013	2014	2015	2016	2013	2014	2015	2016
Landings into the UK by UK vessels:								
Demersal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	101.5%
Pelagic	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Shellfish	100.0%	100.0%	100.0%	99.1%	100.0%	100.0%	100.0%	100.1%
Total	100.0%	100.0%	100.0%	99.7%	100.0%	100.0%	100.0%	100.6%
Landings into the UK by foreign vessels:								
Demersal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Pelagic	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Shellfish	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Landings abroad by UK vessels:								
Demersal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	107.1%
Pelagic	100.0%	100.0%	100.0%	100.2%	100.0%	100.0%	100.0%	100.2%
Shellfish	100.0%	100.0%	101.6%	105.0%	100.0%	100.0%	101.0%	101.1%
Total	100.0%	100.0%	100.0%	100.3%	100.0%	100.0%	100.1%	102.7%

Source: Fisheries Administrations in the UK

There have been some relatively large percentage increases in the 2016 value of the UK fleet's demersal landings into both the UK and abroad. These relate to a small number of cod landings which previously did not have a value assigned. The revision to shellfish landings abroad is relatively very high (an increase of 5 per cent) although this relates to a relatively small adjustment in crabs of 400 tonnes.

Revisions to more detailed landings figures may differ in magnitude to the above indicative proportions.

Supplies, overseas trade and marketing

All tables in Chapter 4 are revised annually as follows:

- i) Landings data (Tables 4.1, 4.4a-e, 4.5) are revised annually for the preceding four years, in keeping with conventions used in Chapter 3.
- ii) Trade data (Tables 4.1, 4.2, 4.2a, 4.3, 4.3a, 4.4a-e) are revised annually for the preceding year. The current year's data are provisional.
- iii) Household consumption, RPI, CPI and GDP data are revised for all previous years using data received from the Department for Environment, Food and Rural Affairs and the Office for National Statistics.

The following table shows the effect of revisions to trade data published in *UK Sea Fisheries Statistics 2016*:

Trade data published in *UK Sea Fisheries Statistics 2017* as a proportion of figures previously published in *UK Sea Fisheries Statistics 2016*

	Imports (2016)		Exports (2016)	
	Quantity	Value	Quantity	Value
Fish (excluding Shellfish)	99.8%	99.9%	99.9%	99.9%
Shellfish (Crustaceans and Molluscs)	99.8%	99.9%	99.8%	99.8%
Fish Products	99.9%	99.8%	100.0%	100.0%
Total	99.8%	99.9%	99.9%	99.9%

Source: H.M. Revenue and Customs

Main stocks and their level of exploitation

The time series estimates of abundance and fishing mortality are revised each year using the data provided by the International Council for the Exploration of the Seas (ICES). Stock assessments for previous years are as provided in annual ICES reports and are not updated using more recent data.

Overview of the world fishing industry

All tables in Chapter 6 are revised annually for all previous years using data received from the United Nations Food and Agriculture Organisation (FAO).

Appendix 6: Further information

Official publications

Other official publications on sea fisheries statistics include:

MMO / DEFRA	UK Fishing Vessel List. List of registered and licensed vessels of over 10 metres overall length. Published monthly . Monthly UK Sea Fisheries Statistics. Summary publication of landings into England and Wales. Published monthly . Available from https://www.gov.uk/government/organisations/marine-management-organisation/about/statistics or by writing to Marine Management Organisation, 1 st floor, Seacole Block, 2 Marsham Street, London, SW1 4DF. Tel: 0300 123 1032; accesstoinformation@marinemanagement.org.uk .
Marine Scotland	Scottish Fisheries Statistics 2016. Tel: 0131 244 6437. Available online from http://www.gov.scot/Topics/Statistics/Browse/Agriculture-Fisheries/PubFisheries
DAERA	Report on the sea and inland fisheries of Northern Ireland. Available from DARDNI Fisheries division, Tel: 028 9056 9262 https://www.daera-ni.gov.uk/topics/fisheries
FAO	FAO Yearbook of Fishery and Aquaculture Statistics 2016. Available from http://www.fao.org/fishery/publications/yearbooks/en
Eurostat	Agriculture, Forestry and Fisheries Statistics: 2016. Available from http://ec.europa.eu/eurostat/en/web/products-statistical-books/-/KS-FK-16-001

The statistics in this release are derived from the same sources as the above publications in many cases. However, discrepancies may exist between these publications owing to differences in dates and methods of data extraction and compilation.

Useful websites

Marine Management Organisation	www.gov.uk/mmo
Defra	https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs
Marine Scotland	www.gov.scot/About/People/Directorates/marinescotland
DAERA	www.daera-ni.gov.uk
Welsh Assembly Government	https://gov.wales/?lang=en
National Statistics	www.statistics.gov.uk
Sea Fish Industry Authority	http://www.seafish.org/
Maritime and Coastguard Agency	www.dft.gov.uk/mca

Marine Accident Investigation Branch	www.maib.gov.uk
Centre for Environment, Fisheries and Aquaculture Science	www.cefas.defra.gov.uk
European Commission - Fisheries	www.ec.europa.eu/fisheries
Eurostat	www.ec.europa.eu/eurostat
EU Fleet Register	www.ec.europa.eu/fisheries/fleet
FAO Fisheries Department	www.fao.org/fishery
ICES	www.ices.dk

Additional information on management of UK fish quotas

Limits are set each year on the levels of quota available to Member States in a range of fisheries – there are limits on the quantity of different species of fish that can be caught and landed from different combinations of sea areas set for each Member State. More information on the management of quotas in the UK can be obtained from the MMO at:
<https://www.gov.uk/government/publications/quota-management-rules>

A key element of managing fish quotas in the UK is the delegation of management responsibilities to various parts of the UK industry. Allocations are made each year to Producer Organisations (POs) within the UK based on the holdings of Fixed Quota Allocation units (FQAs). More information on the process is available from the source listed above. In addition a publicly accessible register of holdings of these FQA units is available on line. This includes details of the holdings of FQA units related to individual vessels and as held by POs collectively on behalf of their member vessels. More information on these holdings is available at:
<https://www.fqaregister.service.gov.uk/>

The MMO and other UK fisheries administrations continually monitor the activity of UK fishing vessels in terms of landings of quota species during each year. Weekly reports are released which give the latest picture of landings by UK vessels against the annual quotas available. These are available from the MMO at:
<https://www.gov.uk/government/statistical-data-sets/quota-use-statistics>