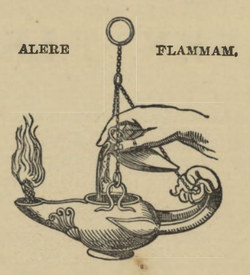

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THE

PISCATORIAL ATLAS

OF THE

NORTH SEA, ENGLISH AND ST. GEORGE'S CHANNELS.

BY

O. T. OLSEN, F.L.S., F.R.G.S.

ILLUSTRATING

THE FISHING PORTS, BOATS, GEAR, SPECIES OF FISH
(HOW, WHERE, AND WHEN CAUGHT),

AND OTHER INFORMATION CONCERNING FISH AND FISHERIES.

GRIMSBY:
O. T. OLSEN, FISH DOCK ROAD.

LONDON:
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1883.

DEDICATED

BY

SPECIAL PERMISSION

TO

His Royal Highness

REAR-ADMIRAL

THE DUKE OF EDINBURGH,

K.G., K.T., K.P., ETC.,

IN ACKNOWLEDGMENT OF

THE INTEREST SHOWN BY HIM TOWARDS THE PROMOTION

OF

THE BRITISH FISHERIES

AND

ALL OTHER NAUTICAL MATTERS.

INTRODUCTORY REMARKS.

Some eight or ten years ago, when engaged in studying the physical conditions of the North Sea, more particularly with reference to the nature of the bottom, depths, sounding, &c., for the purposes of navigation, I was led into daily consultation with the masters sailing from Grimsby and Hull. My previous career on board ship, where, among other duties, I devoted considerable attention to the preparation of a log for Lieutenant Maury, of the United States, in which physical questions predominated, caused me thereafter to consider how I could apply like data for the benefit of our fishermen in the North Sea. I therefore constructed what I termed a Fisherman's Log-Book—a kind of modification of Maury, adapted to our trawlers &c. I here reprint copy of the headings of the Log-Book issued by me to the fishermen, which speak for themselves:—

MONTH LOG KEPT BY

Date.	Departure.	Course Steered.	Distance by Log.	Wind.	Weather.	Name of Ground Arrived at.	Depth of Water.	Soil.	Set of the Tide.	Latitude by Observation.	When Shot.	What Tack.	How Towed.	When Hauled.

ON BOARD THE OF NUMBER.

Ships in Distress. LIVES SAVED.	QUANTITY OF FISH.	DESCRIPTION OF FISH.	DESCRIPTION OF REFUSE.	MR. BUCKLAND'S NATURALIST'S COLUMN.	REMARKS.

By accident I consulted the late Mr. Frank Buckland, who was delighted with the idea, and suggested what I afterwards called "Buckland's Naturalist's Column" (see above), in which the following appeared:—

MR. BUCKLAND would feel obliged if specimens could be kindly forwarded to his address,—37, Albany Street, Regent's Park, London.

1st. Stomachs of Soles, Plaice, Turbots, Brills, Halibuts, Whiting, Haddocks, &c.

2nd. Hard and Soft Roes of Fish while Spawning.

3rd. Anything that looks like Eggs or Spawn of Fish or Marine Animals attached to Shells, Stones, &c.

4th. Samples from Deep Sea Oyster and Mussel Beds.

5th. Samples of Bottom of the Sea as brought up by the lead.

N.B.—All specimens should be labelled.

This soon led me to take a deeper interest than hitherto in the fishes themselves, their habits and habitat; and I then commenced to construct a chart of the fishing-grounds of the North Sea.

I was enabled to do this the more effectually by the aid of my friends, the fishermen of Grimsby, Hull, and other ports on the East Coast of England, who at my instigation kept and filled in with their practical observations the Log-Books above referred to.

I take this opportunity of thanking my numerous correspondents and log-keepers, among whom I may mention the following masters of fishing-smacks:—

Capt. W. Doran,

Capt. S. Anguish,	Capt. W. T. Dunlin,	Capt. B. W. Mathias,
„ W. Brown,	„ J. Epton,	„ E. Robinson,
„ S. Buckingham,	„ T. Freer,	„ T. Salmon,
„ J. L. Cook,	„ A. B. Hassing,	„ J. B. Spooner,
„ W. Chattres,	„ T. Hobday,	„ F. H. Welsh,

to one and all of whom I am indebted for information applied in the construction of the present series of Charts comprising the 'Piscatorial Atlas.'

Although there are many works devoted to the Natural History of the British Fishes, there are only a very few which relate to the fisheries, boats, and gear—Holdsworth's volume 'On Deep-sea Fishing and Fishing-boats' being by far the most practical and comprehensive treatise. It nevertheless occurred to me that, by using different grades of colouring on Charts, the distribution of particular fish might be seen at a glance, and more readily appreciated. Thus the general distribution of a species in the accompanying Charts is indicated by pale tint; where caught in abundance, the depth of colour is increased; and the deepest tints of all mark the spawning-localities.

Each fish is figured in the lower right-hand corner of the Chart, noting time of spawning, number of eggs, where and how caught, bait, food, size, weight, quality, when in season, and other remarks, chiefly based on an average of the extended information derived from the fishermen for a number of years back, verified by statements of scientific writers. On the upper right-hand corner of each Map is a sketch of the boat and gear employed in certain localities for the capture of the particular fish represented on that Map.

There are six Charts devoted to shell-fish, viz. Oysters, Mussels, &c. (or the Mollusca), used both as human food and fish-bait; and four Charts represent the Fishing-grounds, depth of water, nature of the soil, and set of the tides. The names given on the British Coasts in the Map are chiefly those of the fishing-ports.

Seeing that fishery questions are now regarded as of high importance, I trust my 'Atlas' may help to supply reliable information of a practical kind for consultation at a moment's notice.

Besides my fishing friends, I have been indebted to numerous other British and foreign savans and men practically engaged in the North-Sea Fisheries. Of the latter the following may be mentioned:—Herr von Yhlen of Lysekil, Superintendent of the Fisheries of the province of Bohus, Sweden; Capt. N. Juel, R.N., Inspector of Norwegian Fisheries; Herr S. A. Buck of Stavanger; Herr A. M. Wallem of Bergen; Herr A. Feddersen of Viborg; Commandant Cavalier de Cuverville of the French Imperial Navy; Captains J. L. Cook, James Alward, John Smith, George Whiteway, W. C. Normington, and others of Grimsby. From the late Frank Buckland I derived great encouragement in my work, and he it was that stimulated me in the pursuit of the subject; and to Dr. Francis Day, late Inspector of Fish and Fisheries of India, I am indebted for his extensive knowledge of Fish and Fisheries generally. In the same way Prof. Baird and Capt. Collins, of the United States Fishery Commission, as likewise the works of Prof. Sars and R. Collett of Norway, have been useful adjuncts to my own knowledge of the subject. Mr. Mathias Dunn, of Mevagissey, every one knows, freely distributes his information on fishing matters.

Mr. Holdsworth's excellent work I have already mentioned. The Reports of Mr. Frank Buckland, Mr. Spencer Walpole, Mr. A. Young, and Prof. Huxley as Inspectors of Fisheries have been freely used; nor have other authorities been forgotten, such as Yarrell, Cuvier, Bloch, Couch, Linnæus, Hamilton, Günther, and, on special subjects, those of DeCaux and Mitchell on the Herring, and others.

Lastly, Dr. J. Murie has kindly given me aid and advice both in lithographing of the Charts and printing of the text while passing through the press.

I give here, in a tabular form, the numbers, tonnage, and men employed in all First, Second, and Third Class Fishing-Vessels of the United Kingdom.

BOATS REGISTERED UNDER THE SEA-FISHERIES' ACT,

Compiled from Official and other sources.

ENGLAND.

	PORTS.	1st Class.	2nd Class.	3rd Class.	Total. No.	Total. Tonnage.	Approximate No. of Men and Boys employed.
AB ..	Aberystwith	2	19	60	81	403	233
BE ..	Barnstaple	2	4	—	6	71	173
BS ..	Beaumaris	7	13	1	21	255	340
BK ..	Berwick	126	443	1	570	5761	1302
BD ..	Bideford	7	126	13	146	352	237
BN ..	Boston	3	20	—	23	249	217
BR ..	Bridgewater	—	—	1	1	—	99
BT ..	Bridport	1	—	—	1	20	222
BL ..	Bristol	2	—	—	2	41	31
CO ..	Carnarvon	15	44	7	66	786	184
CF ..	Cardiff	3	6	—	9	97	69
CA ..	Cardigan	1	5	—	6	74	364
CL ..	Carlisle	—	23	1	24	48	51
CH ..	Chester	1	2	—	3	27	9
CK ..	Colchester	90	245	—	335	3903	1090
CS ..	Cowes	3	8	16	27	156	232
DH ..	Dartmouth	237	141	10	388	11474	1360
DL ..	Deal	8	10	3	21	176	100
DR ..	Dover	29	31	27	87	1071	373
E....	Exeter	—	59	4	63	167	568
FH ..	Falmouth	7	61	16	84	559	372
F....	Faversham	24	128	1	153	1603	516
FD ..	Fleetwood	69	7	—	76	2283	251
FE ..	Folkestone	6	85	12	103	793	411
FY ..	Fowey	20	175	48	243	1738	881
GR ..	Gloucester	1	—	—	1	15	20
GE ..	Goole	1	5	—	6	59	18
GY ..	Grimsby	637	16	4	657	36550	5750
HL ..	Hartlepool	—	135	6	141	685	341
HH ..	Harwich	16	55	2	73	1214	287
HE ..	Hayle	97	132	22	251	2741	1408
H ..	Hull	585	201	1	787	34643	3350
IP ..	Ipswich	—	20	—	20	168	36
LR ..	Lancaster	7	1	—	8	190	148
LI ..	Littlehampton	3	26	5	34	131	247
LL ..	Liverpool	46	186	3	235	2628	626
LY ..	Llanelly	1	1	—	2	33	115
LO ..	London	160	66	1	227	9004	580
LT ..	Lowestoft	430	30	7	467	14349	3300
LR ..	Lyme Regis	1	39	2	42	171	178
LN ..	Lynn	21	91	—	112	1054	413
MN ..	Maldon	13	271	1	285	2357	724
MT ..	Maryport	1	42	—	43	231	79
MH ..	Middlesborough	1	53	1	55	151	90
M ..	Milford	12	28	2	42	518	435
NE ..	Newcastle	1	5	—	6	81	48
NN ..	Newhaven	6	71	9	86	373	221
NP ..	Newport	3	1	1	5	55	21
PW ..	Padstow	—	80	—	80	204	259
PZ ..	Penzance	29	409	—	438	2036	2100
PH ..	Plymouth	87	168	1	256	4107	1064
PE ..	Poole	—	7	1	8	—	195
P....	Portsmouth	25	61	—	86	862	350
PN ..	Preston	1	62	—	63	171	100
R ..	Ramsgate	173	29	—	202	6573	915
RR ..	Rochester	7	94	—	101	651	220
RN ..	Runcorn	1	21	1	23	135	32
RX ..	Rye	41	107	1	149	1690	869
SH ..	Scarborough	122	106	—	228	6211	1575
SC ..	Scilly	1	—	—	1	26	4
SN ..	Shields, North	28	503	—	531	2694	1622
SSS ..	Shields, South	12	57	—	69	390	254
SM ..	Shoreham	26	128	26	180	1481	1058
SU ..	Southampton	27	13	6	46	683	385
SD ..	Sunderland	7	109	—	116	769	423
SA ..	Swansea	3	118	—	121	1021	236
TH ..	Teignmouth	3	70	9	82	509	441
TO ..	Truro	—	14	—	14	—	99
WH ..	Weymouth	3	8	23	34	141	585
WY ..	Whitby	23	213	—	236	1428	450
WA ..	Whitehaven	17	32	42	91	599	236
WI ..	Wisbeach	—	10	—	10	48	36
WE ..	Woodbridge	17	15	2	34	683	272
WO ..	Workington	1	13	1	15	46	46
YH ..	Yarmouth	610	414	33	1057	23832	4474
	Total	3970	5991	434	10395	198498	46418

SCOTLAND.

	PORTS.	1st Class.	2nd Class.	3rd Class.	Total. No.	Total. Tonnage.	Approximate No. of Men and Boys employed.
A....	Aberdeen	145	427	33	605	4460	1275
AA ..	Alloa	—	6	—	6	48	18
AH ..	Arbroath	15	138	1	154	1000	650
AD ..	Ardrossan	7	153	1	161	753	512
AR ..	Ayr	4	276	—	280	828	600
BF ..	Banff	819	488	5	1312	15783	6285
BO ..	Borrowstoness	—	28	—	28	111	100
CN ..	Campbelton	60	301	—	361	2452	1341
DS ..	Dumfries	—	52	35	87	333	114
DE ..	Dundee	44	74	—	118	1593	520
GW ..	Glasgow	—	19	29	48	91	96
GN ..	Granton	2	—	—	2	69	12
GC ..	Greenock	33	1343	133	1509	5245	5124
INS ..	Inverness	288	1139	1075	2502	13154	8000
KY ..	Kirkaldy	486	392	3	881	9024	4598
KL ..	Kirkwall	106	493	12	611	3760	1760
LH ..	Leith	165	350	—	515	5930	2158
LK ..	Lerwick	160	745	65	970	4527	4928
ME ..	Montrose	102	238	2	342	4168	1327
PEH.	Perth	2	21	—	23	191	69
PD ..	Peterhead	689	254	323	1266	14344	4744
SY ..	Stornoway	124	675	9	808	5530	4500
SR ..	Stranraer	6	259	5	270	694	555
TN ..	Troon	—	79	—	79	276	116
WK ..	Wick	506	607	2	1115	12856	3409
WN ..	Wigtown	2	13	77	92	169	148
	Total	3765	8570	1810	14145	107389	52959

IRELAND.

BA ..	Ballina	—	3	184	187	326	667
B....	Belfast	55	359	50	464	2442	2400
CE ..	Coleraine	—	111	28	139	202	250
C....	Cork	73	346	287	706	3301	3183
DA ..	Drogheda	3	47	20	70	193	305
D ..	Dublin	177	321	123	621	7321	2390
DK ..	Dundalk	1	46	16	63	122	250
G....	Galway	5	618	631	1254	6204	3670
L....	Limerick	7	33	305	345	663	638
LY ..	Londonderry	10	452	130	591	1268	2343
NS ..	New Ross	1	70	2	73	303	120
N ..	Newry	46	121	71	238	1505	1264
S....	Skibbereen	44	343	454	841	3104	4703
SO ..	Sligo	3	100	461	564	440	1965
T....	Tralee	17	155	432	604	1569	1718
W ..	Waterford	16	171	33	220	1253	678
WT ..	Westport	—	22	808	830	1482	2791
WD ..	Wexford	13	183	15	211	1049	778
Y....	Youghal	2	28	21	51	190	801
	Total	473	3529	4071	8072	32937	30914

ISLE OF MAN.

CT .. DOS .. RY ..	Castletown ..... Douglas ..... Ramsey	318	132	9	459	8290	2898

CHANNEL ISLANDS.

GU .. J	Guernsey ..... Jersey	35	236	36	285	1511	1130
	TOTAL	8561	18458	6360	33356	348625	134319

ORDER OF THE MAPS.

MAP 1. Illustrating by arrows the set of the ebb and flood tides, and by numbers the velocity in knots per hour.
2. Representing, in different shades of colour, the nature of the bottom of the sea.
3. Depths, in fathoms, for every 30 miles, the blue lines indicating differences of 10 fathoms.
4. The names of the Fishing-grounds of the North Sea familiarly known to fishermen, indicated in red.

FISH, CRUSTACEA, SHELLFISH, FISHING-VESSELS, &c.

SILVERY AND SURFACE-FISH.

5. Herring	Scotch Herring-lugger.
6. Pilchard	Mount's Bay Lugger.
7. Shad	French Herring-boat.
8. Anchovy	Fishermen shooting the Seine.
9. Sprat	The Stow Net.
10. Whitebait	Thames Shrimper.
11. Garfish	Torbay Hooker.
12. Scad or Horse Mackerel	Yarmouth Drift-boat.
13. Mackerel	Torbay Hooker.
14. Smelt	The Seine Net.

ROUND AND MIDWATER-FISH.

15. Whiting	Tenby Fishing-boat.
16. Pollack	Whitby Cobble.
17. Haddock	Steam Trawler (Scotch model).
18. Coalfish	Orkney Fishing-boat.
19. Hake	Scotch Long-liner.
20. Cod	Grimsby Cod-vessel.
21. Tusk	Shetland Yawl.
22. Ling	Orkney Fishing-boat.
23. Conger	Guernsey Boat.
24. Eel	Burnham Boat (Thames).

ARMED AND SCALED FISH.

25. Wolf or Catfish	Keel Boat (Holy Isle).
26. Sturgeon	Scarborough Trawler.
27. Bass	Irish Fishing-boat.
28. Grey Gurnard	Lowestoft Trawler.
29. Red Gurnard	Dutch Fishing-boat.
30. Grey Mullet	French Fishing-boat.
31. Sur Mullet	Ditto, with Trammel net (100 years ago).
32. Bream	Brixham Trawler.
33. Wrasse	Swedish Boat.
34. John Dory	Manx Fishing-boat.

FLAT AND GROUND-FISH.

35. Sole	Brixham Trawler.
36. Lemon Sole	Lowestoft Trawler.
37. Dab	Shrimp and Dab Trawl.
38. Flounder	Trawl and Thames Boat.
39. Plaice	Steam Trawl and Trawl-head.
40. Brill	Ramsgate Trawler.
41. Turbot	Beam-trawl.
42. Halibut	Grimsby Cod-vessel.
43. Thornback Ray	Brixham Long-boom Trawler.
44. Skate	Lowestoft Trawler.

CRUSTACEA AND SHELLFISH.

45. Lobster	Guernsey Fishing-Boat.
46. Crab	East Coast Cobble.
47. Shrimp	Thames Shrimper.
48. Mussels	Loch Fyne Fish-boat.
49. Whelk	Grimsby Whelker.
50. Oyster	Oyster-dredge.

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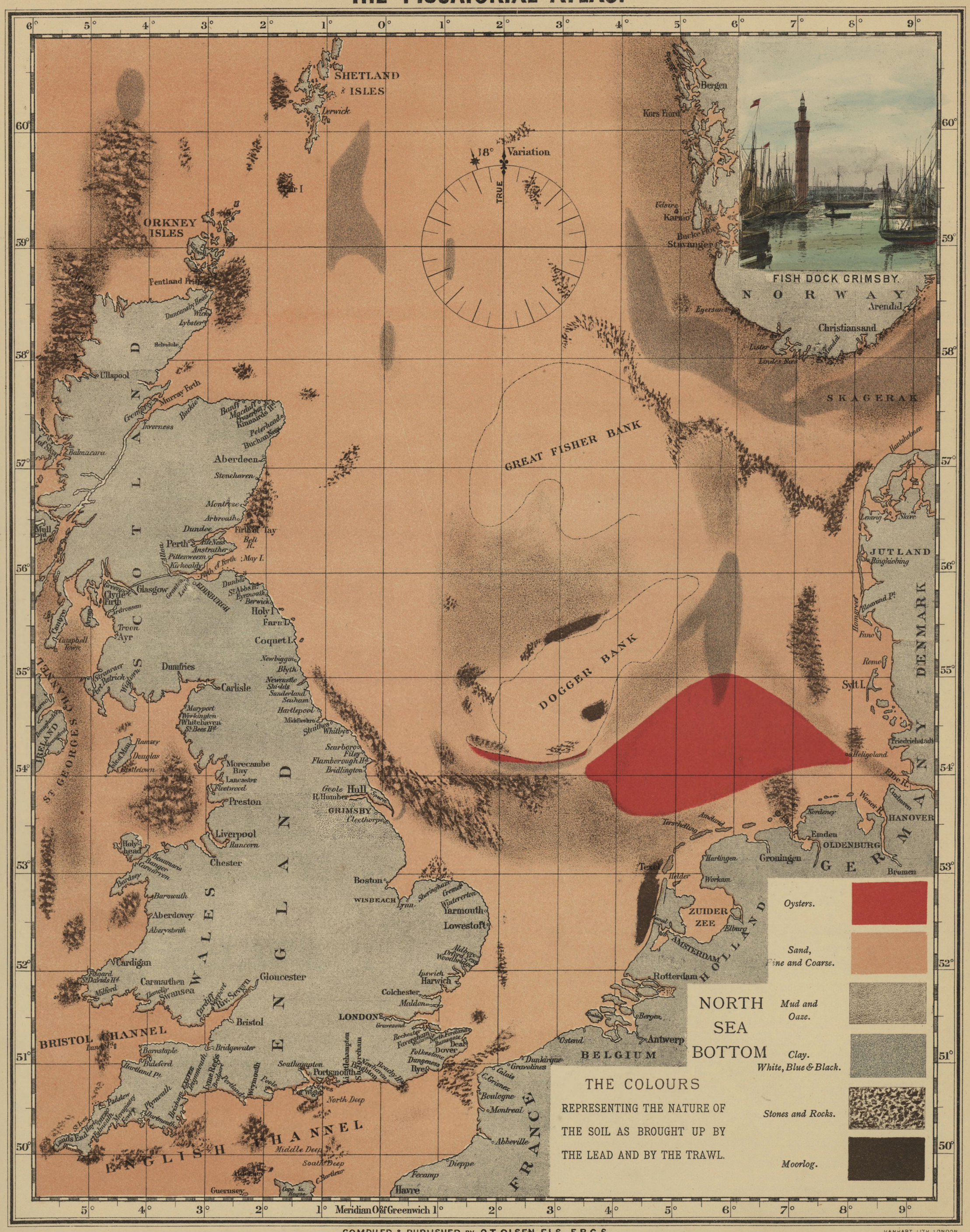
SHETLAND ISLES
Lerwick
ORKNEY ISLES
Pentland Firth
Duncansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Firth
Inverness
Banff
Peterhead
Buchan Ness
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay
Perth
Anstruther
Pittenweem
Kirkcaldy
Firth of Forth
May I.
Glasgow
Clyde Firth
Ardrossan
Troon
Ayr
Dumbar
St Abbs H.
Eyemouth
Berwick
Holy I.
Farne I.
Coquet I.
Newbiggin
Blyth
Newcastle
Shields
Sunderland
Seaham
Hartlepool
Middlesbro
Whitby
Scarboro
Filey
Flamborough H.
Bridlington
Hull
R. Humber
GRIMSBY
Cleethorpes
Dumfries
Carlisle
Maryport
Workington
Whitehaven
St Bees H.
Ramsey
Douglas
Castletown
Morecambe Bay
Lancaster
Fleetwood
Preston
Liverpool
Bancorn
Chester
Holyhead
Beaumaris
Bangor
Carnarvon
Bardsey
Barmouth
Aberdovey
Aberystwith
Cardigan
Carmarthen
Swansea
Milford
St Davids H.
Fishgard
Gloucester
Bristol
Bridgewater
Barnstaple
Bideford
Hartland Pt.
Padstow
Plymouth
Dartmouth
Falmouth
Lands End
St Ives
Lyme Regis
Portland
Weymouth
Poole
Southampton
Portsmouth
Cowes
I. of Wight
North Deep
Middle Deep
South Deep
C. Bartleur
Guernsey
Alderney
Cape la Hague
Havre
Fecamp
Dieppe
Abbeville
Boulogne
Montreal
Calais
C. Grisnez
Gravelines
Dunkirque
Ostend
Antwerp
Bergen
Rotterdam
Helder
Texel
Harlingen
Workum
Groningen
Emden
Norderney
Borkum
Terschelling
Ameland
Wesser R.
Elbe R.
Cuxhaven
Bremen
HANOVER
OLDENBURG
Elbarg
ZUIDER ZEE
AMSTERDAM
Boston
WISBEACH
Lynn
Sheringham
Cromer
Winterton
Yarmouth
Lowestoft
Aldeburgh
Orford
Woodbridge
Ipswich
Harwich
Colchester
Maldon
LONDON
Gravesend
Rochester
Faversham
Whitstable
North Foreland
Ramsgate
Deal
Dover
Folkestone
Dungeness
Rye
Beachy Hd
Brighton
Newhaven
Shoreham
Littlehampton
Bognor
Selsea
Hastings
Winchelsea
Margate
Reculver
Sheerness
Harwich
Lowestoft
Yarmouth
Cromer
Wells
Blakeney
Lynn
Boston
Spurn
Flamborough H.
Scarboro
Whitby
Redcar
Hartlepool
Sunderland
Newcastle
Berwick
Eyemouth
St Abbs H.
Dunbar
Leith
EDINBURGH
Greenock
Troon
Ardrossan
Stranraer
Port Patrick
Wigtown
Douglas
Ramsey
Castletown
Peel
Douglas
Ballycastle
Larne
Donaghadee
Newcastle
Dublin
Wicklow
Wexford
Waterford
Cork
Kinsale
Bantry
Valentia
Dingle
Galway
Sligo
Ballyshannon
Donegal
Belfast
Carlingford
Dublin
Kingstown
Wicklow
Arklow
Wexford
Waterford
Dungarvan
Youghal

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SHETLAND ISLES
Lerwick
Fair I
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Dunnansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Firth
Inverness
Banff
Macduff
Fraserburgh
Rattray Hd
Peterhead
Buchan Ness
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay
Bell R.
Perth
Fife Ness
Anstruther
Pittenweem
Kirkcaldy
May I.
Firth of Forth
Glasgow
Clyde Firth
EDINBURGH
Dunbar
St Abbs Hd
Eyemouth
Berwick
Holy I.
Farne I.
Coquet I.
Newbiggin
Blyth
Newcastle
Shields
Sunderland
Seaham
Hartlepool
Middlesbro
Whitby
Scarboro
Filey
Flamborough Hd
Bridlington
Hull
R. Humber
GRIMSBY
Cleethorpes
Spurn
Boston
WISBEACH
Lynn
Sheringham
Cromer
Winterton
Yarmouth
Lowestoft
Aldeburgh
Orford Ness
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Ipswich
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Colchester
Maldon
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Gravesend
Rochester
Faversham
Whitstable
North Foreland
Ramsgate
Deal
Dover
Folkestone
Dungeness
Rye
Beachy Hd
Newhaven
Brighton
Shoreham
Selsea Bill
Chichester
Southampton
Portsmouth
Cowes
I. of Wight
Poole
Weymouth
Portland
Lyme Regis
Bridport
Exmouth
Exeter
Teignmouth
Torquay
Dartmouth
Plymouth
Fowey
Falmouth
Penzance
St Ives
Lands End
Padstow
Barnstaple
Bideford
Hartland Pt
Lundy Id
Bristol
Bridgewater
Cardiff
Newport
Riv. Severn
Gloucester
Swansea
Carmarthen
Tenby
Milford
Fishguard
St Davids Hd
Cardigan
Aberystwith
Aberdovey
Barmouth
Bardsey
Holyhead
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Isle of Man
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Whitehaven
St Bees Hd
Carlisle
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Wigtown
Stranraer
Port Patrick
Ayr
Troon
Campbell Town
Mull
Balmacara
Inverness
Lochs
Banff
Buckie
Moray Firth
Cromarty
Kyle of Sutherland
Mull
Argyll
Campbeltown
Islay
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Dublin
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Cork
Kinsale
Bantry
Valentia
Dingle
Galway
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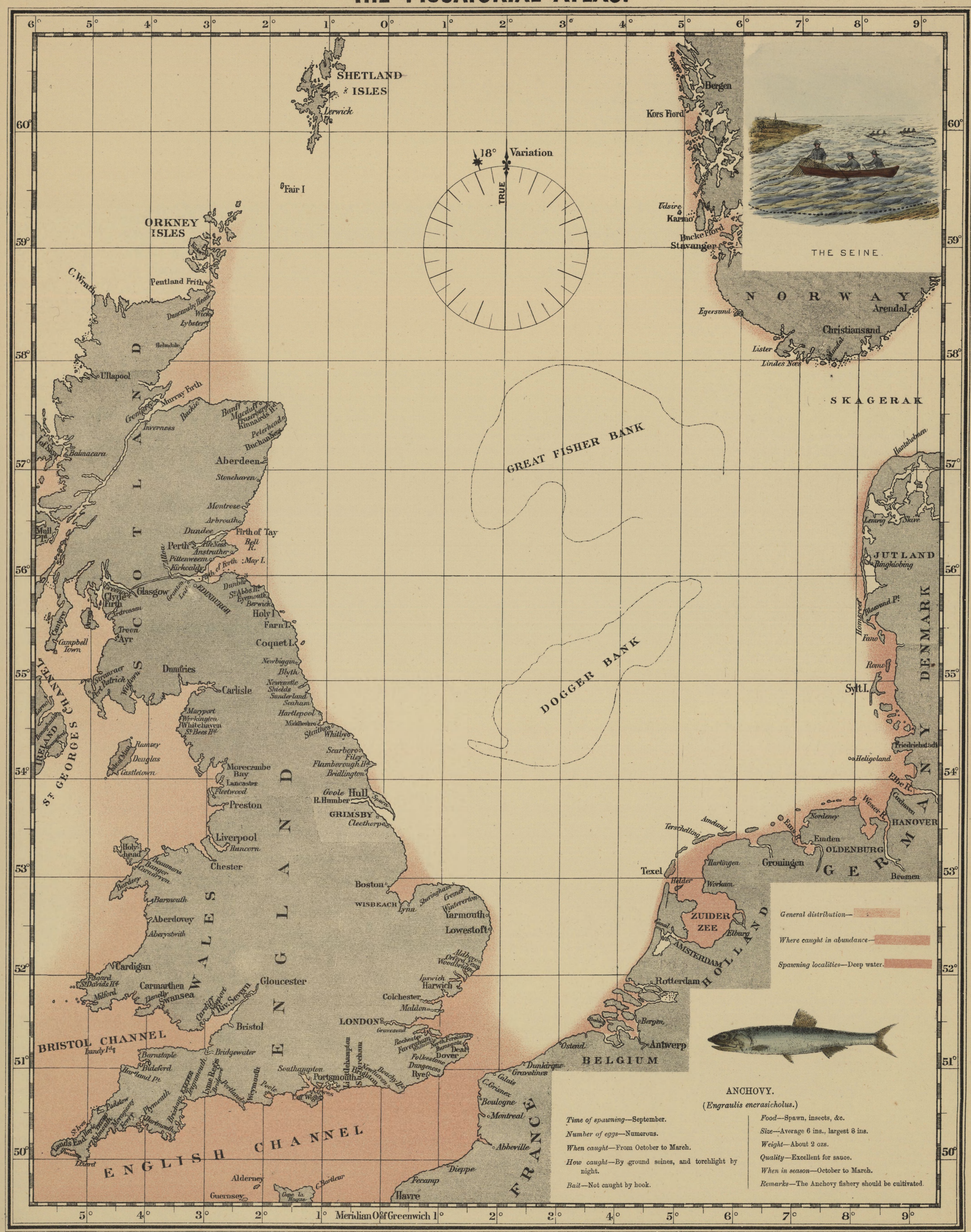
THE PISCATORIAL ATLAS.



ANCHOVY.

(*Engraulis encrasicholus.*)

Time of spawning—September.

Number of eggs—Numerous.

When caught—From October to March.

How caught—By ground seines, and torchlight by night.

Bait—Not caught by hook.

Food—Spawn, insects, &c.

Size—Average 6 ins., largest 8 ins.

Weight—About 2 ozs.

Quality—Excellent for sauce.

When in season—October to March.

Remarks—The Anchovy fishery should be cultivated.

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SPRAT.

(*Clupea sprattus.*)

Time of spawning—Autumn.
Number of eggs—560,000.
When caught—Spring and summer months.
How caught—By seine and sprat nets.
Bait—Not caught by hook.
Food—Shrimps, minute animals and spawn.
Size—3 or 4 ins., 6 to 7 ins.

Weight—4 ozs.
Quality—Very good and much esteemed.
When in season—November to March.
Remarks—The sprat is shamefully destroyed; it is caught and sold for manure. May not this wanton destruction be discontinued? The Sprat attracts a great amount of fish to the shores, and becomes food for them.

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Eyemouth
Berwick
Holy I.
Farn I.
Coquet I.
Newbiggin
Blyth
Newcastle
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Middlesbro
Staithes
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Filey
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Folkestone
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Poole
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Bridport
Exmouth
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Torquay
Brixham
Plymouth
Dartmouth
Salcombe
Newquay
Penzance
St Ives
Falmouth
Lizard
Land's End
Ilfracombe
Barnstaple
Bideford
Hartland Pt.
Bridgewater
Bristol
Gloucester
Cardiff
Newport
Riv. Severn
Swansea
Tenby
Carmarthen
Fishguard
St Davids Hd.
Milford
Cardigan
Aberystwith
Aberdovey
Barmouth
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Bangor
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Lerwick
Bergen
Kors Fiord
Udsire
Karmo
Bucke Fiord
Stavanger
Egersund
Christiansand
Arendal
Lister
Lindes Nœs
Mandal
NORWAY
SKAGERAK
GREAT FISHER BANK
DOGGER BANK
Huitsloipen
Lemvig
Skaw
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Ringkiobing
Hornsreef
Blaavand Pt.
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GARFISH.
(*Belone vulgaris.*)

Time of spawning—Spring.
Number of eggs—500.
When caught—Chiefly in summer among mackerel.
How caught—By hook and nets.
Bait—White rag or anything glittering.
Food—Shrimp, small fish, &c.

Size—18 to 24 ins.
Weight—2 to 4 lbs.
Quality—Good flavoured, resembling mackerel.
When in season—October to May.
Remarks—The Garfish also called mackerel guide. Back bone green but not poisonous.

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SCAD, OR HORSE MACKEREL.
(*Scomber trachurus.*)

Time of Spawning—Spring.
Number of eggs—79,600.
When caught—Summer months.
How caught—By hook and in drift nets.
Bait—Herrings chiefly.
Food—Herring fry, sandlaunce and crustaceans.

Size—12 to 15 and even 18 ins.
Weight—From 1 to 2 lbs. to 6 lbs.
Quality—Very coarse.
When in season—April to September.
Remarks—The Scad, or Horse Mackerel, is a migratory fish and follows the herring along the coasts.

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Ballycastle
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Londonderry
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Malin Hd
Sligo
Ballyshannon
Donegal
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Erris Hd
Achill I.
Blacksod B.

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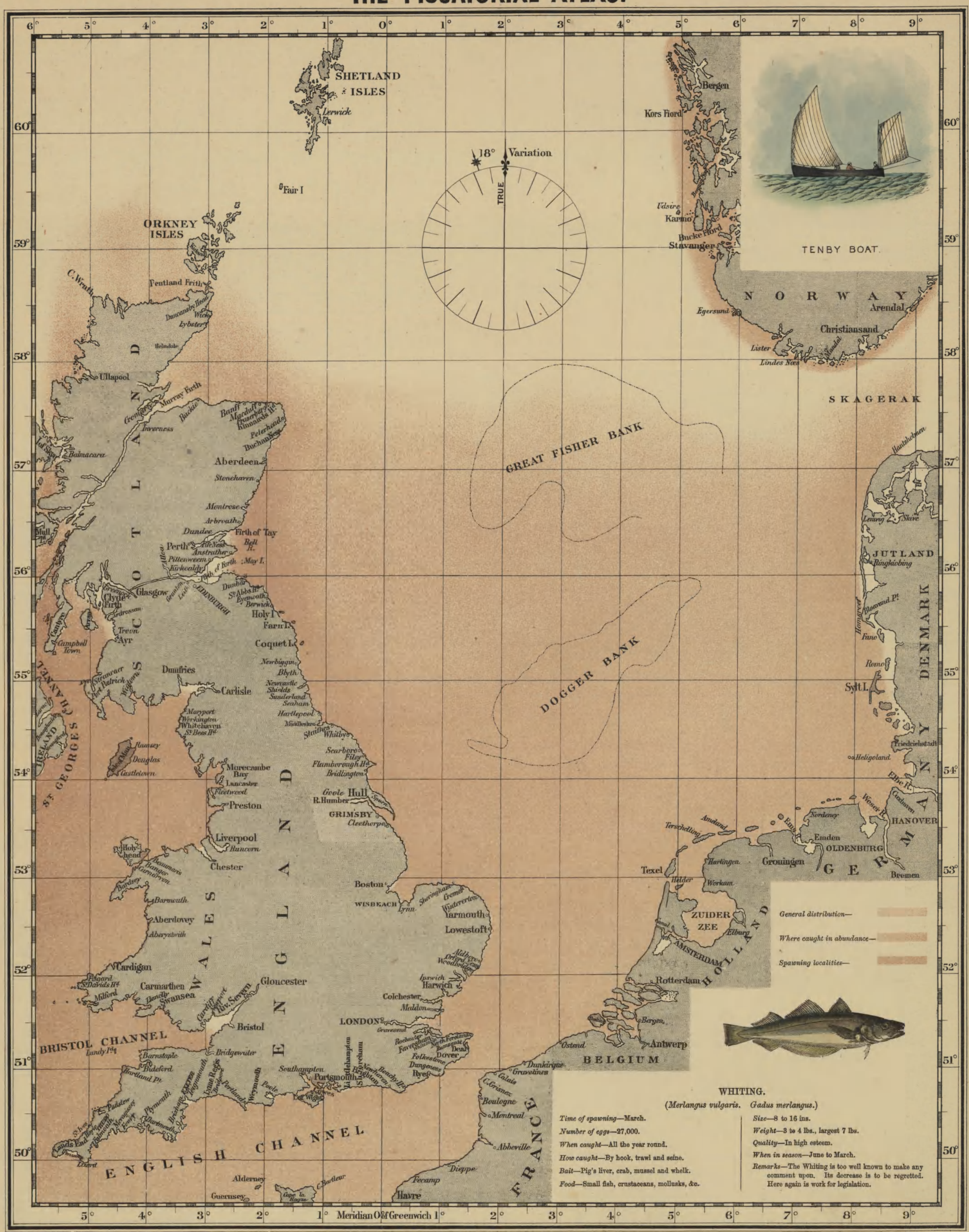

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POLLACK.

(*Merlangus pollachius.*)

Time of spawning—January and February.
Number of eggs—350,000.
When caught—All the year round.
How caught—By hook and by trawl.
Bait—Herring and artificial fly.
Food—Small fish, sandlaunce, &c.

Size—12 to 34 ins.
Weight—12 to 24 lbs.
Quality—Good.
When in season—May to December.
Remarks—The Pollack is in greatest perfection for the table in the autumn. The flesh and skin make excellent soup.

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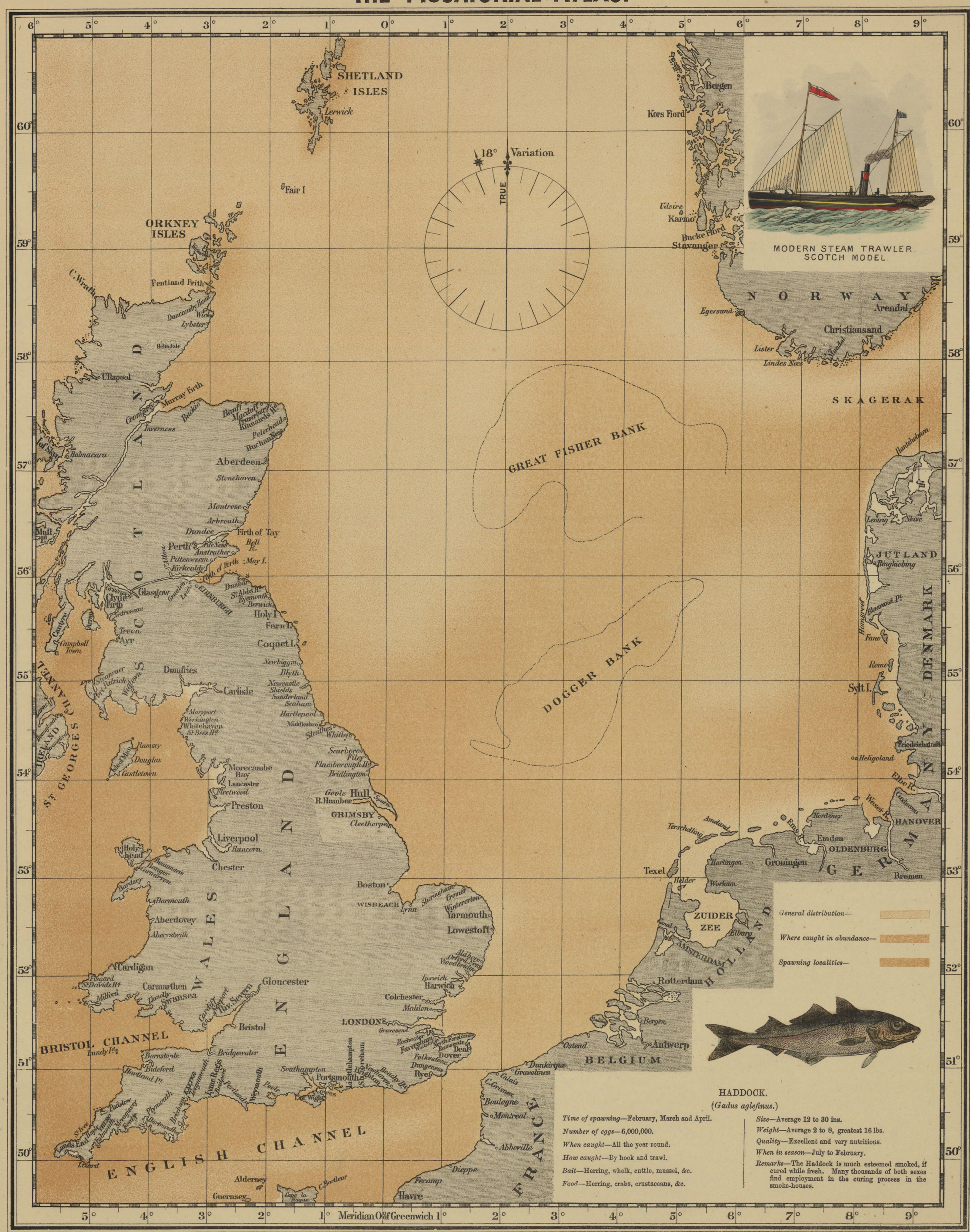

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ORKNEY FISHING BOAT.

COALFISH.

(*Merlangus carbonarius.*)

Time of spawning—Spring.
Number of eggs—1,000,300.
When caught—All the year.
How caught—By hook and by trawl.
Bait—Herring, whelk, mussel, &c.
Food—Herring, crustaceans and their own young.

Size—Average 3 ft. to 3 ft. 6 ins.
Weight—Average 25 lbs. to 35 lbs.
Quality—Coarse but good, firm and nutritious.
When in season—October to February.
Remarks—Nearly all writers differ as to the name of this fish, and a great variety of local names have been freely lavished upon it, too numerous to repeat here. This fishery admits of development.

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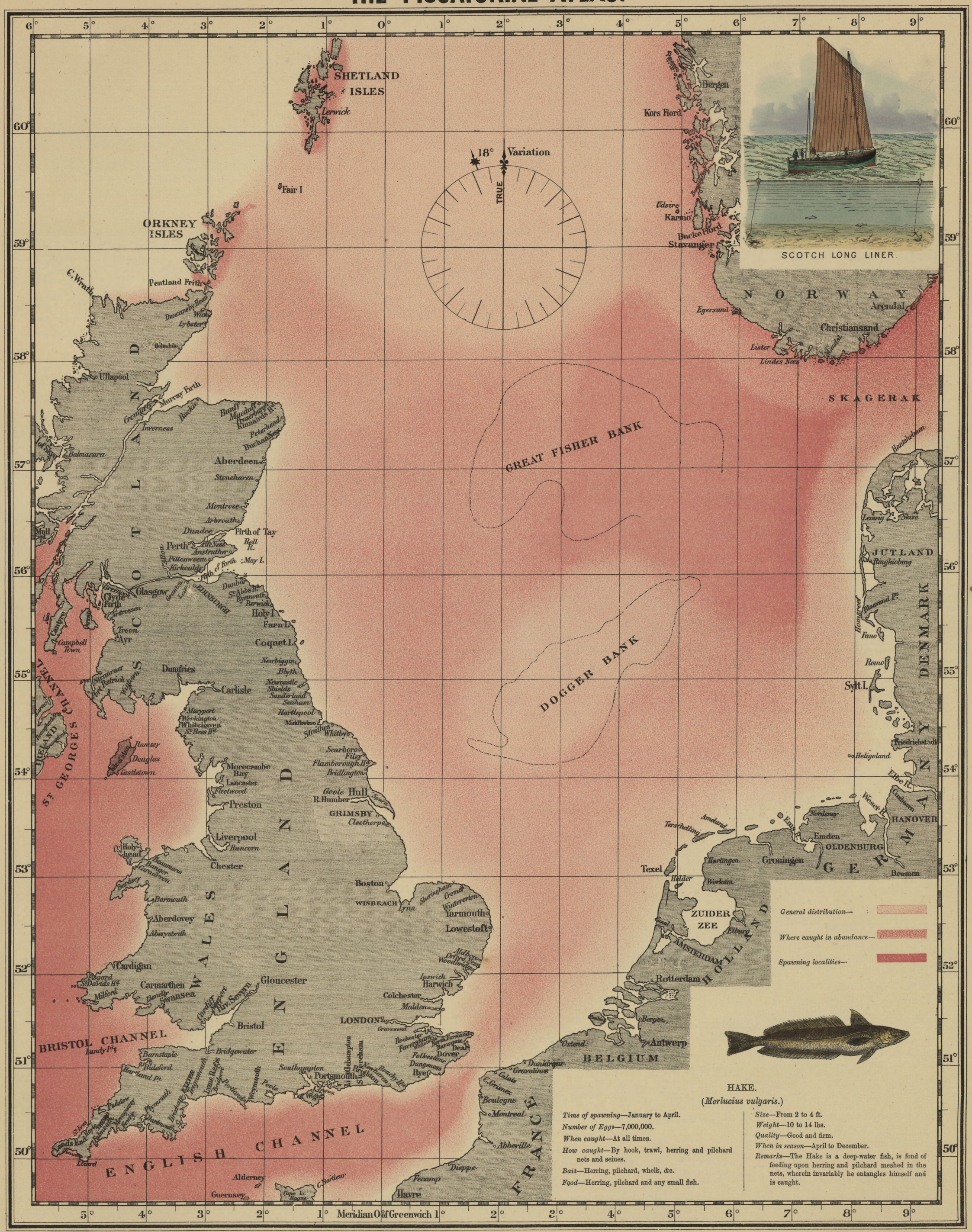

HAKE.

(*Merlucius vulgaris.*)

Time of spawning—January to April.

Number of Eggs—7,000,000.

When caught—At all times.

How caught—By hook, trawl, herring and pilchard nets and seines.

Bait—Herring, pilchard, whelk, &c.

Food—Herring, pilchard and any small fish.

Size—From 2 to 4 ft.

Weight—10 to 14 lbs.

Quality—Good and firm.

When in season—April to December.

Remarks—The Hake is a deep-water fish, is fond of feeding upon herring and pilchard meshed in the nets, wherein invariably he entangles himself and is caught.

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A GRIMSBY COD VESSEL.

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SHETLAND YAWL.

General distribution—

Where caught in abundance—

Spawning localities—

TUSK.

(*Brosmius vulgaris.*)

Time of spawning—April and May.

Number of eggs—32,300.

When caught—Chiefly winter months.

How caught—By hook, long line and hand line.

Bait—Herring, whelk and mussel.

Food—Crustaceans, herring, seaweed, &c.

Size—From 2 to 3 and 3½ ft.

Weight—20 to 30 lbs.

Quality—Very good and firm.

When in season—November to February.

Remarks—The Tusk is a northern fish; its flesh is not inferior to the Cod. It is caught and cured in the same way as the Cod. The oil is said to be excellent for burns and scalds.

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LING.

(*Lota molva.*)

Time of spawning—May and June.

Number of eggs—5,000,000.

When caught—All the year round.

How caught—By trawl, hand and long lines.

Bait—Whelk, mussel, lamprey, herring and anything glittering.

Food—Omniverous, all kinds of marine animals.

Size—3 and 4 ft. up to 7 ft.

Weight—20 to 70 lbs., 124 lbs.

Quality—Good, but rather dry.

When in season—November to February.

Remarks—The Ling is held in high esteem and fabulous prices are paid in the market for this fish. This fishery should be encouraged and developed. The oil is a specific for rheumatism

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CONGER.

(*Conger vulgaris.*)

Time of spawning—December and January.

Number of eggs—15,000,000.

When caught—All the year.

How caught—By hook and by the trawl.

Bait—Herring, pilchard, cuttle, whelk and sandlaunce.

Food—Small fish, crustaceans and their own young.

Size—Average 5 ft. to 10 ft.

Weight—86, 100 and 130 lbs.

Quality—Wholesome, much used by the poorer class.

When in season—March to October.

Remarks—The Conger is very voracious, will attack man in the water, is very prolific, and its young furnish a great amount of food for other fish. It is also used for isinglass.

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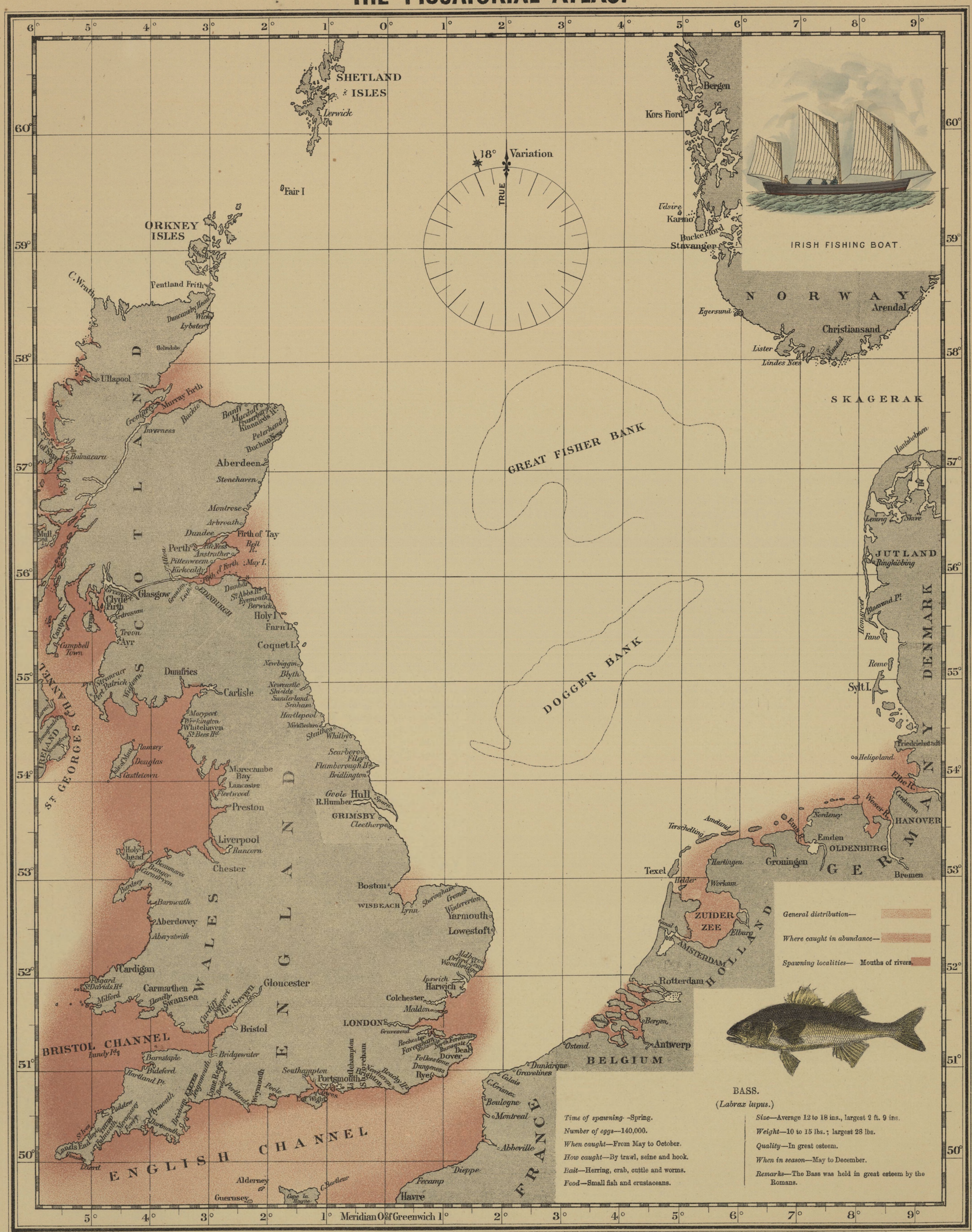
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Lochs Maree
Lochs Ewe
Lochs Shiel
Lochs Hourn
Lochs Nevis
Lochs Linnhe
Lochs Eil
Lochs Ness
Lochs Shin
Lochs Fleet
Lochs Ryan
Lochs Indaal
Lochs Gruinard
Lochs Broom
Lochs Carron
Lochs Alsh
Lochs Duich
Lochs Hourn

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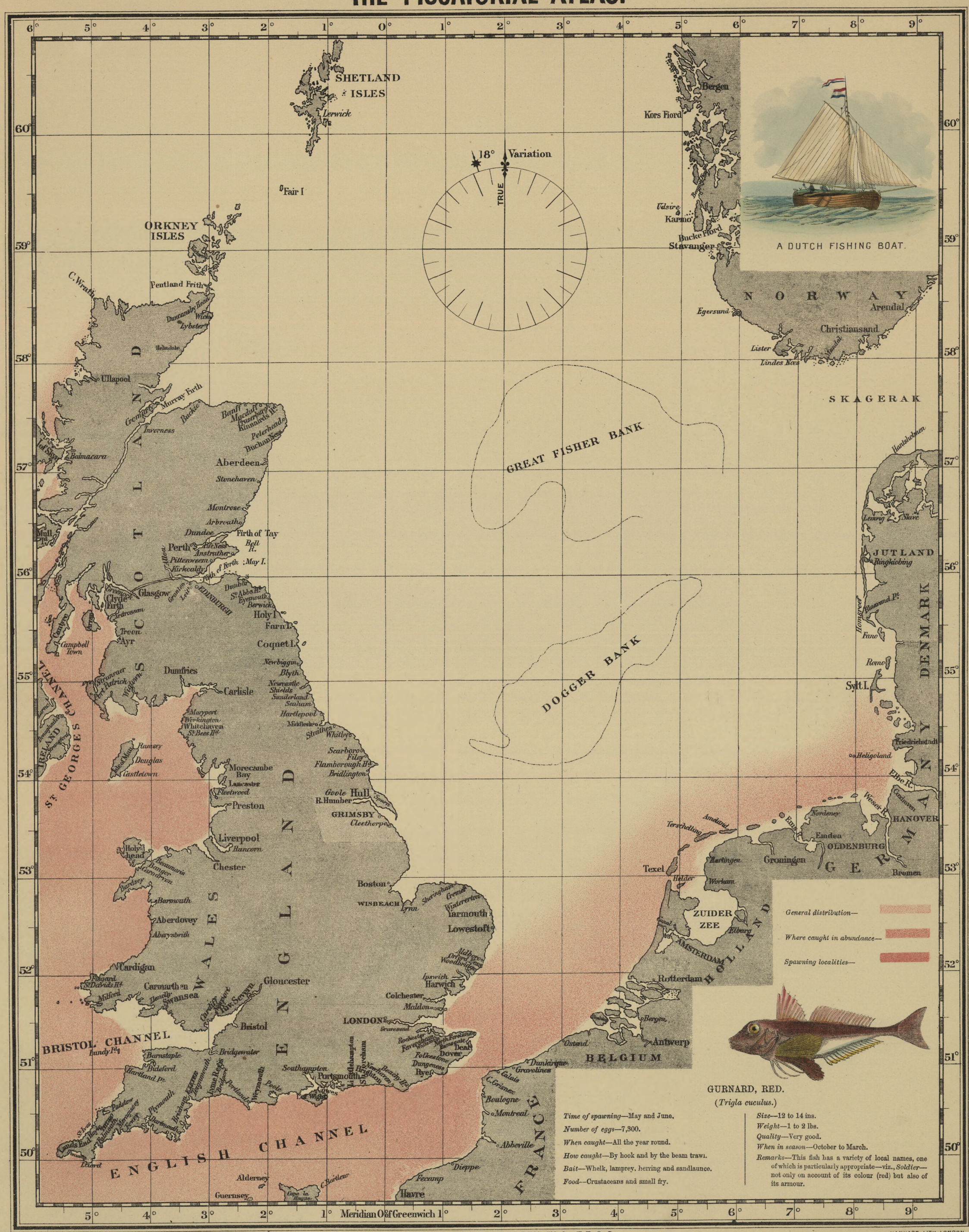

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MULLET, GRAY.

(*Mugil capito.*)

Time of spawning—Midsummer.
Number of eggs—13,000,000.
When caught—All the year round.
How caught—By hook, fly and by the seine.
Bait—Cabbage leaf boiled in fat, worms and fly.
Food—Vegetable matter and worms.

Size—15 to 24 ins.
Weight—4 to 6 lbs.
Quality—In great esteem, a delicacy.
When in season—July to February.
Remarks—The Gray Mullet is good sport for the angler, it is very cunning, if inclosed in a net will endeavour to leap over to escape, it is an inshore fish and seldom caught at sea.

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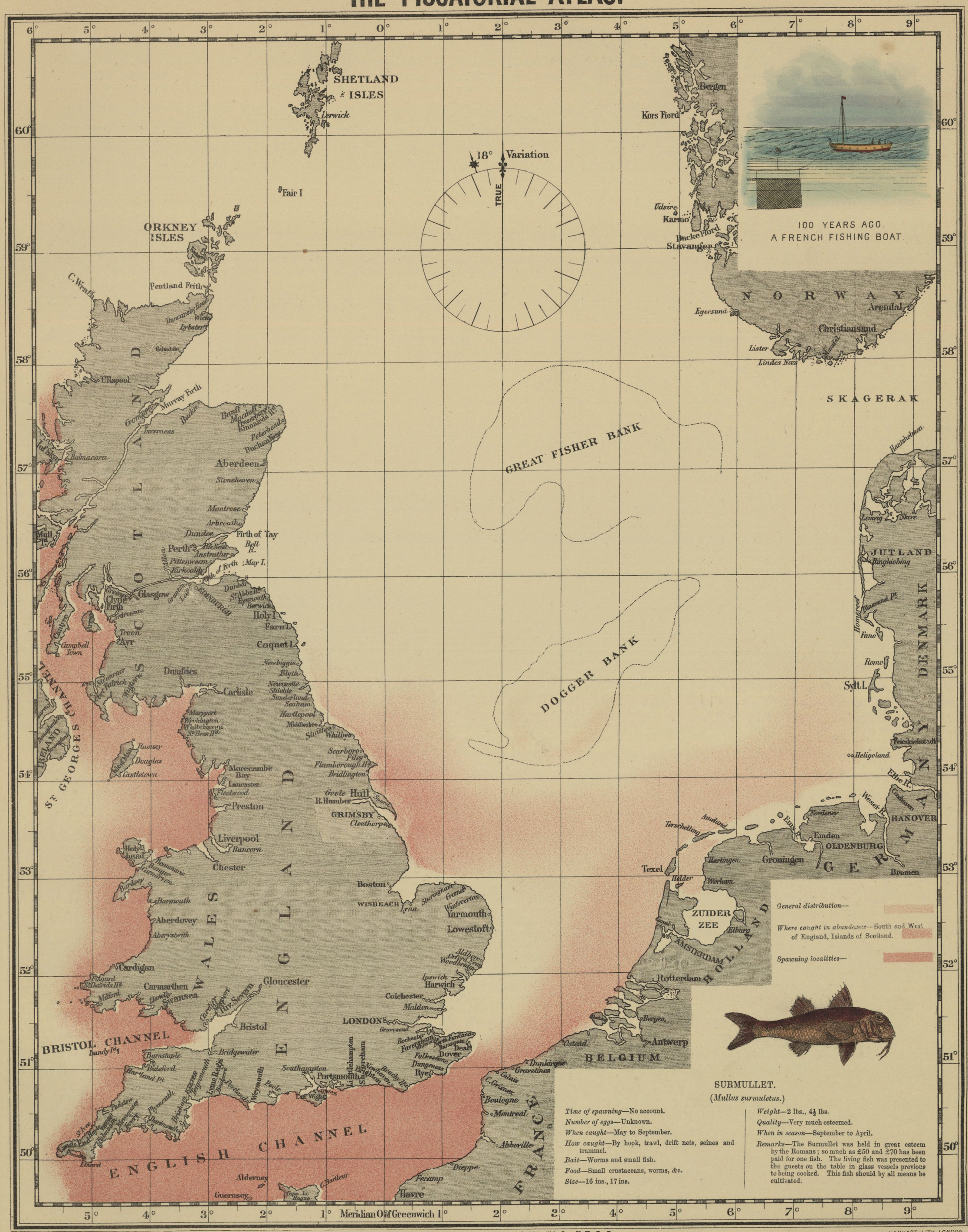
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18° Variation
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Kors Fiord
Udsire
Karmo
Bucke Fiord
Stavanger
100 YEARS AGO.
A FRENCH FISHING BOAT.
NORWAY
Egersund
Arendal
Christiansand
Lister
Lindes Nœs
SKAGERAK
GREAT FISHER BANK
DOGGER BANK
Hantshohen
Lemvig
Skive
JUTLAND
Ringkiobing
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Flamborough H.
Bridlington
Goole
Hull
R. Humber
GRIMSBY
Cleethorpes
Boston
WISBEACH
Lynn
Sheringham
Gromer
Wintertorton
Yarmouth
Lowestoft
Aldbrow
Orford Ness
Woodbridge
Ipswich
Harwich
Colchester
Maldon
LONDON
Gravesend
Rochester
Faversham
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Dover
Folkestone
Dungeness
Rye
Beachy Hd
Southampton
Portsmouth
Brighton
Newhaven
Lymington
Weymouth
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Portland
Bridport
Seaton
Exmouth
Teignmouth
Torquay
Dartmouth
Plymouth
Brixham
Fowey
Falmouth
Penzance
St Ives
Lizard
Padstow
Bideford
Barnstaple
Hartland Pt.
Bridgewater
Bristol
Gloucester
Cardiff
Newport
Uy. Severn
Swansea
Tenby
Carmarthen
Milford
St Davids H.
Fishguard
Cardigan
Aberystwith
Aberdovey
Barmouth
Bardsey
Beaumaris
Bangor
Carnarvon
Holyhead
Liverpool
Runcorn
Chester
Preston
Fleetwood
Lancaster
Morecambe Bay
Whitehaven
St Bees H.
Maryport
Workington
Carlisle
Dumfries
Wigtown
Stranraer
Port Patrick
Ardwell
Ramsey
Douglas
Castletown
Calf of Man
Lundy I.
Ilfracombe
Barnstaple
Tenby
Cardigan
Milford
Fishguard
St Davids H.
Lundy I.
Ilfracombe
Barnstaple
Bideford
Hartland Pt.
Bridgewater
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St Bees H.
Maryport
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Carlisle
Dumfries
Wigtown
Stranraer
Port Patrick
Ardwell
Ramsey
Douglas
Castletown
Calf of Man
Lundy I.
Ilfracombe
Barnstaple
Tenby
Cardigan

THE PISCATORIAL ATLAS.

BREAM.

(*Pagellus centrodontus.*)

Time of spawning—Beginning of winter.

Number of eggs—4,000.

When caught—All the spring, summer and autumn.

How caught—By hook, by trawl and by seines.

Bait—Sand eels, worms, salt anchovy, &c.

Food—Sprat, herring, pilchard, crustaceans, &c.

Size—About 14 ins.

Weight—8 lbs.

Quality—Good.

When in season—May to December.

Remarks—The Bream is not caught in great abundance; it is cheap, and consequently may be considered a poor man's fish.

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THE PISCATORIAL ATLAS.

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THE PISCATORIAL ATLAS.

DORY.
(*Zeus faber.*)

Time of spawning—Winter months.
Number of eggs—3,000.
When caught—Chiefly in the winter.
How caught—By hook and bait, also in seines and trawl.
Bait—Chad is a very attractive bait.
Food—Fry of other fish, mollusks and shrimps.

Size—14 to 22½ ins.
Weight—6, 12 to 18 lbs.
Quality—Good.
When in season—May to January.
Remarks—The Dory may be called a wandering but not a migratory fish. Very fine eating, resembling the claw of a lobster.

THE PISCATORIAL ATLAS.

SHETLAND ISLES
Lerwick
Fair I
ORKNEY ISLES
Pentland Frith
C. Wrath
Duncansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Firth
Inverness
Banff
Macduff
Fraserburgh
Peterhead
Buchanness
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay
Bell R.
Perth
Anstruther
Pittenweem
Kirkcaldy
Firth of Forth
May I.
Glasgow
Clyde Firth
EDINBURGH
Dunbar
St Abbs H.
Eyemouth
Berwick
Holy I.
Farne I.
Coquet I.
Newbiggin
Blyth
Newcastle
Shields
Sunderland
Seaham
Hartlepool
Middlesbro
Whitby
Scarboro
Filey
Flamborough H.
Bridlington
Goole
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R. Humber
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Rochester
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Folkestone
Dungeness
Rye
Hastings
Southampton
Portsmouth
Poole
Weymouth
Portland
Lyme Regis
Exmouth
Plymouth
Falmouth
Padstow
Lands End
Scilly Is.
Lizard
Dartmouth
Brixham
Torquay
Bridgwater
Bristol
Barnstaple
Bideford
Hartland Pt.
Lundy Id.
BRISTOL CHANNEL
Cardiff
Newport
Tiv. Severn
Gloucester
Swansea
Carmarthen
Tenby
Milford
St David's H.
Fishguard
Cardigan
Aberystwith
Aberdovey
Barmouth
Bardsey
Bangor
Conway
Beaumaris
Holyhead
Rhyl
Chester
Liverpool
Runcorn
Morecambe Bay
Lancaster
Fleetwood
Preston
Douglas
Ramsey
Castletown
Isle of Man
Carlisle
Maryport
Workington
Whitehaven
St Bees H.
Dumfries
Stranraer
Port Patrick
Wigtown
Campbell Town
Tarbert
Ayr
Troon
Arran
Mull
Oban
Balmacara
Lof Skye
Inverness
Grantown
Banff
Macduff
Fraserburgh
Rinnaurs H.
Peterhead
Buchanness
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay

THE PISCATORIAL ATLAS.

SOLE.

(*Pleuronectes Solea.*)

Time of spawning—Spring.

Number of eggs—135,500.

When caught—All the year round.

How caught—By the beam trawl and by hook.

Bait—Herring, sea and rag worms.

Food—Sandlaunce, worms, crustaceans and spawn.

Size—12 ins., largest caught 26 ins.

Weight—3 lbs., 4 lbs. to 9 lbs.

Quality—Excellent, very highly esteemed.

When in season—April to January.

Remarks—The Common Sole formerly plentiful now very scarce, requires immediate attention for its preservation or propagation.

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THE PISCATORIAL ATLAS.

A LOWESTOFT TRAWLER.

LEMON SOLE.

(*Solea pegusa.*)

Time of spawning—Spring.

Number of eggs—37,060.

When caught—All the year round.

How caught—By the beam trawl.

Bait—None.

Food—Small fish and crustaceans.

Size—8 to 16 ins.

Weight—3 to 5 lbs.

Quality—A little inferior to the sole.

When in season—March to December.

Remarks—The Lemon Sole is becoming a very favourite fish as a substitute for the Sole, and is not unfrequently served on the table as such.

THE PISCATORIAL ATLAS.

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Lerwick
Fair I
ORKNEY ISLES
Kirkwall
Pentland Frith
C. Wrath
Duncansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Firth
Cromarty
Inverness
Badcaw
Banff
Macduff
Fraserburgh
Kinnaird's Hd
Peterhead
Buchan Ness
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay
Bell R.
Perth
Fife Ness
Anstrather
Pittenweem
Kirkcaldy
May I.
Firth of Forth
Dunbar
St Abbs Hd
Eyemouth
Berwick
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Leith
Glasgow
Clyde Firth
Greenock
Troon
Ayr
Holy I.
Farne I.
Coquet I.
Newbiggin
Blyth
Newcastle
Shields
Sunderland
Seaham
Hartlepool
Middlesbro
Whitby
Scarboro
Filey
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R. Humber
GRIMSBY
Cleethorpe
Spurn
Dumfries
Carlisle
Maryport
Workington
Whitehaven
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Preston
Liverpool
Bancorn
Chester
Holyhead
Beaumaris
Bangor
Carnarvon
Bardsey
Barmouth
Aberdovey
Aberystwith
Cardigan
Fishguard
St Davids Hd
Milford
Carmarthen
Llanelly
Swansea
Cardiff
Newport
Riv. Severn
Gloucester
Bristol
BRISTOL CHANNEL
Lundy Id
Barnstaple
Bideford
Hartland Pt
Bridgewater
Padstow
St Ives
Lands End
Hayle
Penzance
Falmouth
Helmouth
Mevagissey
Fowey
Plymouth
Dartmouth
Brixham
Exeter
Teignmouth
Lyme Regis
Bridport
Portland
Weymouth
Poole
Southampton
Portsmouth
I. of Wight
Cowes
Southampton
Newhaven
Brighton
Beachy Hd
Rye
Dungeness
Folkestone
Dover
Deal
Ramsgate
North Foreland
Whitstable
Faversham
Rochester
Gravesend
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Maldon
Colchester
Harwich
Ipswich
Woodbridge
Orford Ness
Aldeburgh
Lowestoft
Yarmouth
Cromer
Wintertorton
Sheringham
Lynn
WISBEACH
Boston
Lincoln
Grantham
Leicester
Northampton
Bedford
Cambridge
Norwich
Yarmouth
Lowestoft
Ely
Peterborough
Nottingham
Derby
Leicester
Coventry
Birmingham
Shrewsbury
Worcester
Hereford
Gloucester
Cheltenham
Oxford
Reading
Bath
Salisbury
Exeter
Taunton
Bristol
Cardiff
Swansea
Carmarthen
Cardigan
Aberystwith
Aberdovey
Bangor
Chester
Liverpool
Manchester
Sheffield
Derby
Nottingham
Leicester
Northampton
Bedford
Cambridge
Norwich
Yarmouth
Lowestoft
Ely
Peterborough
Lincoln
Grantham
Boston
Lincoln
Wakefield
Leeds
Bradford
Halifax
Rochdale
Manchester
Liverpool
Chester
Shrewsbury
Stafford
Birmingham
Coventry
Leicester
Derby
Nottingham
Sheffield

THE PISCATORIAL ATLAS.

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THE PISCATORIAL ATLAS.

PLAICE.

(*Pleuronectes platessa.*)

Time of spawning—February and March.
Number of eggs—6,000,000.
When caught—All the year round.
How caught—Chiefly by trawl, a few by hook.
Bait—Whelk, lamprey, and herring.
Food—Young fish, small crustaceans and worms.
Size—18 to 24 ins.

Weight—10 to 20 lbs.
Quality—Good and wholesome.
When in season—April to December.
Remarks—The Plaice, like most other fish, has its home or haunts. Practical fishermen can tell very accurately by the colour in what locality it has been caught. It is a very important factor in the food supply of this nation. This fishery must be maintained.

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THE PISCATORIAL ATLAS.

SHETLAND ISLES
Lerwick
Fair I
ORKNEY ISLES
Pentland Frith
C. Wrath
Duncansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Firth
Inverness
Banff
Macduff
Fraserburgh
Kinnaird's H.
Peterhead
Buchan Ness
Balmacara
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay
Bell R.
Perth
Fife Ness
Anstruther
Pittenweem
Kirkcaldy
Firth of Forth
May I.
Glasgow
Clyde Firth
Ardrossan
Troon
Ayr
Campbell Town
Dunbar
St. Abbs H.
Eyemouth
Berwick
EDINBURGH
Holy I.
Farn I.
Coquet I.
Newbiggin
Blyth
Newcastle
Shields
Sunderland
Seaham
Hartlepool
Middlesbro
Stathes
Whitby
Scarboro
Filey
Flamborough H.
Bridlington
Dumfries
Carlisle
Maryport
Workington
Whitehaven
St. Bees H.
Stranraer
Port Patrick
Wigtown
Ramsey
Douglas
Castletown
Morecambe Bay
Lancaster
Fleetwood
Preston
Goole
Hull
R. Humber
GRIMSBY
Cleethorpe
Liverpool
Runcorn
Holyhead
Beaumaris
Bangor
Carnarvon
Chester
Bardsey
Barmouth
Aberdovey
Aberystwith
Cardigan
Fishguard
St. Davids H.
Milford
Carmarthen
Swansea
Gloucester
Cardiff
Newport
Riv. Severn
Bristol
BRISTOL CHANNEL
Lundy Id.
Barnstaple
Bideford
Hartland Pt.
Bridgewater
Exmouth
Lyme Regis
Portland
Weymouth
Poole
Southampton
Portsmouth
I. of Wight
Chichester
Shoreham
Brighton
Newhaven
Beachy H.
Rochester
Faversham
Whitstable
North Foreland
Ramsgate
Deal
Dover
Folkestone
Dungeness
Rye
LONDON
Gravesend
Colchester
Maldon
Harwich
Ipswich
Orford Ness
Aldeburgh
Woodbridge
Yarmouth
Lowestoft
Winterton
Cromer
Sheringham
Lynn
WISBEACH
Boston
Ireland
Douglas
Isle of Man
Ramsey
Dublin
Wexford
Waterford
Cork
Kinsale
Bantry
Valentia
Dingle
Galway
Sligo
Donegal
Belfast
Larne
Portrush
Londonderry
Lough Foyle
Lough Swilly
Tralee
Limerick
Kilrush
Ballyshannon
Killybegs
Ballycastle
Cork
Youghal
Dungarvan
Waterford
Wexford
Arklow
Dublin
Drogheda
Dundalk
Newry
Kilkeel
Ardglass
Strangford
Portaferry

THE PISCATORIAL ATLAS.

TURBOT.

(*Rhombus maximus.*)

Time of spawning—In Spring.
Number of eggs—14,300,000.
When caught—All the year round.
How caught—By trawl chiefly, some by hook.
Bait—Herring, lamprey, worms, &c.
Food—Small fish, crustaceans and mollusks.
Size—Average 1½ to 3 feet; greatest 7½ feet.

Weight—20 to 30 lbs.; greatest on record 150 lbs.
Quality—Very much esteemed, delicious.
When in season—From May to February.
Remarks—The Turbot although very prolific, even next the Conger Eel, is held in great esteem at the most luxurious tables, where it ranks with the Salmon and the Sturgeon. This fishery should be multiplied.

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THE PISCATORIAL ATLAS.

SHETLAND ISLES
Lerwick
Fair I
ORKNEY ISLES
18° Variation
TRUE
GRIMSBY COD VESSEL
Bergen
Kors Fiord
Udsire
Karmo
Bucke Fiord
Stavanger
NORWAY
Egersund
Arendal
Christiansand
Lister
Lindes Nœs
SKAGERAK
GREAT FISHER BANK
DOGGER BANK
JUTLAND
DENMARK
Skive
Ringkiobing
Hornsreef
Blaavand Pt
Fano
Romo
Sylt I.
Friedrichstadt
Heligoland
Elbe R.
Cuxhaven
Weser R.
HANOVER
GERMANY
Nordeney
Ems R.
Emden
OLDENBURG
Bremen
Terschelling
Ameland
Texel
Helder
Harlingen
Groningen
Workum
ZUIDER ZEE
Elburg
AMSTERDAM
HOLLAND
Rotterdam
Bergen
Antwerp
BELGIUM
Ostend
Dunkirque
Gravelines
Calais
C. Grisnez
Boulogne
Montreal
Abbeville
Dieppe
Fecamp
Havre
FRANCE
Alderney
Guernsey
C. Bardeur
Cape la Hague
ENGLISH CHANNEL
BRISTOL CHANNEL
ST GEORGES CHANNEL
IRELAND
SCOTLAND
WALES
ENGLAND
C. Wrath
Pentland Frith
Duncansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Firth
Cromarty
Inverness
Banff
Macduff
Fraserburgh
Kinnaurds Pt.
Peterhead
Buchan Ness
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay
Bell R.
Perth
Fife Ness
Anstruther
Pittenweem
Kirkcaldy
May I.
Firth of Forth
Glasgow
Clyde Firth
Greenock
Leith
EDINBURGH
Dunbar
St Abbs Hd
Eyemouth
Berwick
Holy I.
Farn I.
Coquet I.
Newbiggin
Blyth
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Shields
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Brighton
Shoreham
Littlehampton
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Portsmouth
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Weymouth
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Lyme Regis
Bridport
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Brixham
Dartmouth
Plymouth
Fowey
Mevagissey
Falmouth
Helford
Padstow
St Ives
Lands End
Penzance
Lizard
Bideford
Barnstaple
Hartland Pt
Bridgewater
Bristol
Gloucester
Rivr. Severn
Cardiff
Newport
Swansea
Carmarthen
Tenby
Milford
Fishgard
St Davids Hd
Cardigan
Aberystwith
Aberdovey
Barmouth
Bardsey
Beaumaris
Bangor
Carnarvon
Holyhead
Chester
Liverpool
Runcorn
Preston
Fleetwood
Lancaster
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Castletown
Douglas
Ramsey
Isle of Man
Whitehaven
St Bees Hd
Maryport
Workington
Carlisle
Dumfries
Stranraer
Port Patrick
Wigtown
Ayr
Troon
Ardrossan
Campbell Town
Cantyre
Arran
Mull Pt
Balmacara
Lof Shin
Inverness
Buckie
Tweed
Forth
Clyde
Solway
Humber
Thames
Medway
Stour
Orwell
Deben
Blyth
Yare
Waveney
Ouse
Nene
Wash
Trent
Dee
Mersey
Ribble
Lune
Severn
Avon
Exe
Tamar
Tay
Dee
Spey
Ness
Moray Firth
Pentland Frith
Shetland Isles
Orkney Isles
Hanshalmen
Lemvig
Skive
Ringkiobing
Romo
Sylt
Friedrichstadt
Heligoland
Elbe
Cuxhaven
Weser
Nordeney
Emden
Bremen
Texel
Helder
Harlingen
Groningen
Workum
Elburg
Amsterdam
Rotterdam
Bergen
Antwerp
Ostend
Dunkirque
Gravelines
Calais
Boulogne
Montreal
Abbeville
Dieppe
Fecamp
Havre
Alderney
Guernsey
Cape la Hague
C. Bardeur
Lizard
Land's End
Penzance
St Ives
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Spurn
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Barnstaple
Bideford
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Lundy Ids
Padstow
St Ives
Lands End
Penzance
Lizard
Falmouth
Helford
Mevagissey
Fowey
Plymouth
Dartmouth
Brixham
Teignmouth
Torquay

THE PISCATORIAL ATLAS.

SHETLAND ISLES
Lerwick
Fair I
ORKNEY ISLES
Pentland Frith
C. Wrath
Duncansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Firth
Cromarty
Inverness
Buckie
Banff
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Weymouth
Portland
Lyme Regis
Bridport
Exmouth
Torquay
Brixham
Dartmouth
Plymouth
Fowey
Falmouth
Penzance
Lizard
Padstow
St Ives
Land's End
Milford
St David's Hd
Fishguard
Cardigan
Carmarthen
Tenby
Swansea
Cardiff
Newport
Bristol
Gloucester
Bridgewater
Barnstaple
Bideford
Hartland Pt
Lundy I.
Holyhead
Beaumaris
Bangor
Caernarvon
Bardsey
Barmouth
Aberdovey
Aberystwith
Mull I.
Balmacara
Isle of Skye
Campbell Town
Ayr
Troon
Ardrossan
Dumfries
Carlisle
Maryport
Workington
Whitehaven
St Bees Hd
Ramsey
Douglas
Castletown
Morecambe Bay
Lancaster
Fleetwood
Preston
Liverpool
Runcorn
Chester
Holy I.
Ireland
Dublin
Wicklow
Waterford
Cork
Kinsale
Valentia
Galway
Sligo
Donegal
Londonderry
Belfast
Larne
Portrush
Donaghadee
Newcastle
Strangford
Carlingford
Dundalk
Wexford
Tramore
Dungarvan
Youghal
Cork
Queenstown
Bantry
Dingle
Tralee
Limerick
Kilrush
Ballyvaughan
Galway
Clifden
Westport
Killala
Ballycastle
Ballyshannon

THE PISCATORIAL ATLAS.

COMPILED & PUBLISHED BY O.T. OLSEN, F.L.S. F.R.G.S.

HANHART LITH. LONDON.

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HANKART LITH LONDON

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CRAB.

(Cancer pagurus.)

Time of hatching—May and June.
Number of ova—2,000,000, carried under tail until hatched.
When caught—In summer months.
How caught—In creels, traps, pots, &c., constructed for this purpose.
Bait—Fresh fish of any kind.
Food—Ditto; also mussels.
Size—6 to 8 ins., largest on record 12 ins.

Weight—2 to 4 lbs., largest on record 12 lbs.
Quality—Delicate and wholesome.
Time of moulting or shedding of shell—July, August and September.
When in season—April to October.
Remarks—The Crab grows by moulting and shedding its shell as much as ten times the first year, and less yearly until it arrives at maturity, when the shell is retained. This much-important fishery should be protected, regulated and improved.

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SHETLAND ISLES
Lerwick
Fair I
ORKNEY ISLES
Pentland Frith
C. Wrath
Duncansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Firth
Inverness
Banff
Macduff
Fraserburgh
Kinnaird's Hd
Peterhead
Buchan Ness
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay
Bell R.
Perth
Fife Ness
Anstruther
Pittenweem
May I.
Kirkcaldy
Firth of Forth
Dunbar
St Abbs Hd
Eyemouth
Berwick
Glasgow
Clyde Firth
EDINBURGH
Holy I.
Farne I.
Coquet I.
Newbiggin
Blyth
Newcastle
Shields
Sunderland
Seaham
Hartlepool
Middlesbro
Staithes
Whitby
Scarboro
Filey
Flamborough Hd
Bridlington
Goole
Hull
R. Humber
GRIMSBY
Cleethorpes
Boston
WISBEACH
Lynn
Sheringham
Cromer
Winterton
Yarmouth
Lowestoft
Aldeburgh
Orford Ness
Woodbridge
Ipswich
Harwich
Colchester
Maldon
LONDON
Gravesend
Rochester
Faversham
Whitstable
North Foreland
Ramsgate
Deal
Dover
Folkestone
Dungeness
Rye
Beachy Hd
Eastbourne
Brighton
Shoreham
Bognor
Selsey
Southampton
Portsmouth
I. of Wight
Poole
Weymouth
Portland
Lyme Regis
Bridport
Exmouth
Teignmouth
Torquay
Brixham
Plymouth
Dartmouth
Salcombe
Kingsbridge
Plymouth
Fowey
Falmouth
Penzance
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Padstow
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Newport
Rv. Severn
Swansea
Llanelly
Carmarthen
Milford
St Davids Hd
Fishguard
Cardigan
Aberystwith
Aberdovey
Barmouth
Bangor
Carnarvon
Beaumaris
Holyhead
Bardsey
Liverpool
Runcorn
Chester
Morecambe Bay
Lancaster
Fleetwood
Preston
Maryport
Workington
Whitehaven
St Bees Hd
Carlisle
Dumfries
Wigtown
Stranraer
Port Patrick
Ayr
Troon
Irvine
Ardrossan
Campbell Town
Mull
Islay
Balmacara
Inverness
Cromarty
Bachie
Tay
Forth
Clyde
Tweed
Solway
Humber
Mersey
Dee
Severn
Thames
Medway
Stour
Orwell
Deben
Blyth
Tyne
Wear
Tees
Ouse
Trent
Nene
Wash
Yare
Waveney
Ribble
Lune
Dee
Conwy
Menai
Teifi
Taff
Avon
Exe
Tamar
Dart
Tavy
Lyd
Camel
Fal
Helford
Hamble

THE PISCATORIAL ATLAS.

SHETLAND ISLES
Lerwick
Fair I
ORKNEY ISLES
18° Variation
TRUE
Bergen
Kors Fiord
Udsire
Karmo
Bucke Fiord
Stavanger
LOCHFYNE FISHING BOAT
NORWAY
Egersund
Arendal
Christiansand
Lister
Lindes Nes
SKAGERAK
GREAT FISHER BANK
DOGGER BANK
Hantsholmen
JUTLAND
Ringkiobing
Blaavand Pt
Fano
Romo
Sylt I.
DENMARK
Helgoland
Friedrichstadt
Elbe R.
Wesser R.
Cuxhaven
HANOVER
Emden
OLDENBURG
Bremen
Terschelling
Ameland
Texel
Helder
Groningen
Harlingen
Workum
ZUIDER ZEE
Elburg
AMSTERDAM
HOLLAND
Rotterdam
Berge
Antwerp
BELGIUM
Ostend
Dunkirque
Gravelines
Calais
C. Grisnez
Boulogne
Montreal
Abbeville
Dieppe
Fecamp
Havre
FRANCE
Alderney
Guernsey
Cape la Hague
C. Hardleur
ENGLISH CHANNEL
ST GEORGES CHANNEL
IRELAND
Tentland Frith
C. Wrath
Duncansby Head
Wick
Lybster
Helmsdale
Ullapool
Murray Frith
Inverness
Balmacara
Aberdeen
Stonehaven
Montrose
Arbroath
Dundee
Firth of Tay
Perth
Anstrather
Pittenweem
Kirkcaldy
Firth of Forth
May I.
Glasgow
Clyde Firth
EDINBURGH
Dunbar
St Abbs H.
Eyemouth
Berwick
Holy I.
Farn I.
Coquet I.
Newbiggin
Blyth
Newcastle
Shields
Sunderland
Seaham
Hartlepool
Middlesbro
Whitby
Scarboro
Filey
Flamborough H.
Bridlington
Goole
Hull
R. Humber
GRIMSBY
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Rhy. Severn
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Hastings
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Folkestone
Margate
Ramsgate
North Foreland
Sheerness
Chatham
Rochester
Faversham
Whitstable
Canterbury
Ashford
Tenterden
Rye
Hythe
Dover
Deal
Sandwich
Ely
Cambridge
Bedford
Northampton
Oxford
Reading
Gloucester
Worcester
Hereford
Shrewsbury
Chester
Liverpool
Manchester
Leeds
Sheffield
Nottingham
Derby
Leicester
Coventry
Birmingham
Stafford
Lichfield
Shrewsbury
Ludlow
Hereford
Worcester
Gloucester
Cheltenham
Bath
Bristol
Exeter
Taunton
Bridgewater
Barnstaple
Bideford
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Poole
Southampton
Portsmouth

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Woodbridge
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Yarmouth
Lowestoft
Winterton
Cromer
Sheringham
Lynn
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Guernsey
Cape la Hague
C. Barfleur
Havre
Fecamp
Dieppe
Abbeville
Montreal
Boulogne
C. Grisnez
Calais
Gravelines
Dunkirque
Ostend
Bergen
Antwerp
BELGIUM
FRANCE
Rotterdam
HOLLAND
AMSTERDAM
Canal
Elburg
ZUIDER ZEE
Workum
Helder
Texel
Terschelling
Ameland
Harlingen
Groningen
Emden
Ems R.
Nordeney
OLDENBURG
Bremen
Weser R.
Elbe R.
Cuxhaven
HANOVER
GERMANY
Heligoland
Friedrichstadt
Sylt I.
Romo
Fano
Blaavand Pt.
Hornsreef
Ringkjobing
JUTLAND
Lemvig
Skive
Hantslohmen
DENMARK
SKAGERAK
GREAT FISHER BANK
DOGGER BANK
Bergen
Kors Fiord
Udsire
Karmo
Bucke Fiord
Stavanger
Egersund
Lister
Lindes Nœs
Mandal
Christiansand
Arendal
NORWAY
GRIMSBY WHELKER
Variation
18°
TRUE
Meridian Of Greenwich
ENGLAND
WALES
SCOTLAND
IRELAND
ST GEORGES CHANNEL
ENGLISH CHANNEL
Isle of Man
Douglas
Ramsey
Castletown
Dublin
Dundrum
Kingstown
Wicklow
Wexford
Waterford
Cork
Kinsale
Bantry
Valentia
Dingle
Tralee
Galway
Sligo
Donegal
Belfast
Larne
Portrush
Londonderry
Ballycastle
Donaghadee
Strangford
Newry
Warrenpoint
Kilkeel
Ardglass
Portaferry
Carrickfergus
Ballycastle
Portrush
Ballyshannon
Sligo
Westport
Galway
Ballinasloe
Limerick
Tralbert
Ballybunion
Tarbert
Kilrush
Ennis
Kilkee
Dingle
Valentia
Bantry
Kinsale
Cork
Waterford
Wexford
Arklow
Dublin
Kingstown
Dundrum
Ardglass
Portaferry
Strangford
Newry
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Donegal
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