DTI Strategic Environmental Assessment
Area 7

SEA7: Fish and Fisheries

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Background

The purpose of this report is to provide an initial assessment of the availability, type and quality of fish resource and commercial fisheries data in SEA7. It consists principally of a list of references in EndNote format which act as an input to the meta-data inventory, and which describe the source of information, its spatial extent, and where they can be found. The list of references is provided in hard copy and in electronic format.

The SEA7 area has a latitudinal range of 54 to 60°N and longitudinal range of 5 to 24°E. From 6.5 to 24°E the southern latitudinal range varies from 55.5 to 57.5°N. The area covers all of the west coast of Scotland and extends south into the northern Irish Sea. The SEA7 area overlaps ICES divisions VIIa, VIa, VIb and XII (Figure 1). This review mostly considers the west coast of Scotland. It is assumed that the area of SEA7 that overlaps ICES division VIIa is covered by the SEA6 review which is based on VIIa.

There are two marine biological institutes located within the SEA7 area from which most of the review data have been generated. These are the Scottish Association for Marine Science (SAMS) laboratories at Dunstaffnage, near Oban, and the University Marine Biological Station (UMBS) at Millport on the Isle of Cumbrae. Research at SAMS has been conducted in the Oban area since the movement of the Scottish Marine Biological Association (SMBA) there in 1969-70, under the auspices of the SMBA, now renamed as SAMS, or as the Natural Environment Research Council Dunstaffnage Marine Laboratory. Previous to 1969-70, the SMBA was located at Millport and research there dates back to the 19th century. Following the movement of the SMBA to Oban, the station at Millport was taken over and run jointly by the Universities of London and Glasgow. The other main research body that has been studying fish and fisheries in the SEA7 area has been the Fisheries Research Service located at the Marine Laboratory, Aberdeen. This has included inshore and offshore research and has, at times, been collaborative with SAMS and/or UMBS. Finally, there is a small research unit located at Ardtoe on the west coast, funded in part by the SeaFish Industry. Although some fish and fisheries research has been conducted there in the past, it’s role is primarily in support of mariculture.
**Review of the fishes of the west coast of Scotland**

Gordon and De Silva (1980) and Gordon (1981) have published a species by species account of the fishes of the west of Scotland shelf. These reviews combined an extensive review of the literature with more detailed reports on areas where there had been detailed studies of fish populations. These areas were the Clyde Sea Area, The Firth of Lorne and its associated sea lochs, Loch Sween and Lochs Ewe and Torridon. In the preparation of this review SAMS compiled a database of published records of rare fish from Scottish waters. It is based mainly on the records of rare fish that were published annually until 1986 by ICES in Annales Biologique.

**Bottom trawling surveys in the Firth of Lorne and adjacent sealochs (1969-1980)**

In 1969 SAMS began a seasonal sampling programme of sealochs. The early surveys centred on the Firth of Lorne, Loch Linnhe, Loch Etive, Loch Creran, Loch Spelve and Loch Sunart. In later years the surveys were extended to South-west Mull, the upper Sound of Mull and the Passage of Tiree. These surveys supported two PhD projects (De Silva 1973; clupeids and Cooper 1979; gadoids) and several other scientific papers were published. The basic catch data have been published in a series of SAMS Internal Reports. The biological data exists mainly as hard copy. Some midwater trawling was also carried out to provide information on the juvenile clupeids and gadid but the data are less complete.

**Egg and larval surveys**

Egg and larval surveys were routinely carried out by SAMS in the Firth of Lorne and adjacent sealochs and sea areas between 1969 and 1976. The larval collections were identified by Sir Frederick Russell and many of the specimens were used to illustrate his book on the eggs and planktonic stages of British marine fishes (Russell, 1976). The results were used by De Silva and Cooper for their PhD projects and by Duncan for her MSc project (Duncan 1993). Most of the data exists as hard copy and some of the material has been preserved.

**Inshore sandy bay studies**

A significant component of fish and fisheries research at SAMS from the early 1970s to the late 1990s was based on detailed assessments of the biology and ecology of juvenile flatfish species in sandy bays and the intertidal. Most of this work was based around the work of RN Gibson and in addition to the many peer-reviewed publications there is a large collection of annual reports detailing this work. The more recent examples of this research are Gibson et al. 1993 and 1995, Gibson and Robb 1996, and Burrows et al., 1994 and 2001.

**Rocky shore studies**

Isolated studies of fishes in the inshore rocky habitats have been carried out both at SAMS and UMBS for many years. In addition, FRS supported a number of reef fish studies in the 1990s (e.g. Sarno et al., 1994). The more recent research in this field has been conducted at SAMS jointly with UMBS since the early 1990s. This work was based initially on assessing the biology of wrasse species subject to commercial exploitation...
(reviewed by Sayer et al., 1996 and Sayer 1996). This work was then expanded through Ministry for Agriculture Fisheries and Food support to examine the factors affecting the distribution of inshore juvenile gadoids. This work has recently concluded (Sayer et al., 2001) but the research area is maintained in the SAMS Northern Seas Programme (Burrows et al., 1999; Magill and Sayer, 2002, 2003).

**Sea Trout**

In the 1970s SAMS studied the migrations and diet of sea trout in some of the sea lochs of the Firth of Lorne area (Pemberton, 1976 a, b and Gibson and Ezzi, 1990). The proceedings of a conference on sea trout in Scotland provides other information on the fishery and the distribution of the species (Picken and Shearer, 1990).

**JNCC Sea Loch Surveys**

From the mid-1980s to the early 1990s, the Joint Nature Conservancy Committee commissioned a series of sublittoral surveys of the sea lochs on the west coast of Scotland and the Western Isles. The reports from these surveys are listed at [www.jncc.gov.uk/mit/sloch.htm](http://www.jncc.gov.uk/mit/sloch.htm) and summarized in Howson et al. 1994. The surveys were primarily diver-based and are relatively qualitative presence or absence lists at a number of locations in each sea loch system.

**Clyde Sea Area**

The fish fauna of the Clyde is well documented (Bagenal, 1965). Hislop (1986) and Bailey et al. (1986b) described the demersal fisheries; Bailey et al. (1986a) describe the *Nephrops* fishery in the Firth of Clyde. More recently there have been more detailed studies undertaken of the *Nephrops* fisheries in and around the Firth of Clyde area undertaken by the University Marine Biological Station Millport. These works are published in part by more detailed data are available on request.

**Irish Sea**

Surveys of the northern area of the Irish Sea covered by SEA7 have been conducted by Department of Agriculture and Rural Development (DARD) of Northern Ireland in which Port Erin staff/students have participated. The Northern Ireland surveys have been carried out in March and October since 1992. From March 1992 to March 2001 the survey extended from 54° 43´ N to 53° 22´ N. From October 2001 the survey extended into St George’s Channel to 52° 18´ N. The depth range is from 20 to 120 m. The data has not been published to date.

**Fisheries of the west of Scotland continental shelf**

The fisheries of the outer continental shelf around the Hebrides were described by Bailey et al. 1979.

In ICES Subarea VI the main pelagic fisheries for herring, mackerel and sprat have undergone considerable change in recent years. The herring stock is composed of two groups, spring and autumn spawners although the latter are dominant (FRS information leaflet; west of Scotland herring stocks). Landings have fluctuated over the years and there was a closure of the fishery in the late 1970s. Management is difficult because of mis-
reporting of catches between West of Scotland and the North Sea. As a consequence the true state of the stock is unknown but it is thought to be stable or may be increasing. The Scottish catch for the west coast in 2001 was 22570 t. The international Total Allowable Catch (TAC) for the west of Scotland in 2002 was set at 37360 t with a UK share of 22570 t. There are two stocks of mackerel, the North sea and the western. The western stock spawns to the south and west of the UK and Ireland but in recent years the spawning areas have extended northwards to the west of the shelf edge (FRS information leaflet: mackerel stocks). After spawning the fish migrate to feeding grounds in the Norwegian Sea and the northern North Sea. The west of Scotland migration route has changed significantly since the 1970s. A more westerly route has replaced the former migration route through the Minch. The state of the combined stocks is considered to be outside safe biological limits.

The main demersal fisheries of the west of Scotland are for cod, haddock, whiting, saithe, anglerfish and shellfish (especially *Nephrops*). The west of Scotland cod stock is considered to be outside safe biological limits and the international TAC for 2002 has been set at 4600 t with a UK share of 2760 t (FRS information leaflet: west of Scotland cod stocks). The haddock stock to the west and north of Scotland is probably a separate biological stock and is considered to be outside safe biological limits. The international TAC for 2002 has been set at 14100 t with a UK share of 10992 t (FRS information leaflet: west of Scotland haddock stocks). Whiting is an important component of the mixed fisheries of the west of Scotland with landings in 2001 of 2580 t. About half of the total catch is discarded. There is evidence of separate stocks on the west coast that are separate from those of the North Sea. The stock is considered to be beyond safe biological limits (FRS information leaflet: west of Scotland whiting stocks). The Saithe is the fifth most important demersal species by weight landed by the Scottish fleet but only about 10% is from west coast grounds (FRS information leaflet: saithe). The saithe is an important species for the French deep-sea trawlers that operate on the west coast. The stock is considered to be within safe biological limits although there are some concerns about the data on this species. The UK quota for the west coast for 2002 is about 3200 t.

The *Nephrops* fishery is the most valuable in Sub-area VI with an annual value of £ 25.7 m in 2000. In 2000 the west of Scotland landings amounted to 10733 t. The fishery is widespread but most are taken by small inshore trawlers. Creel fisheries are also important and can account for up to 15% of the catch. The stocks have stabilised in recent years (FRS information leaflet: Scottish *Nephrops* stocks: west coast). The importance of anglerfish (monkfish) has increased markedly in recent years. Because of their body shape immature fish are retained by current mesh sizes and there has been an decline in large adult fish on the west of Scotland shelf. The fishery has moved into deeper water in Sub-area VI which were previously thought to be a refuge for adult anglerfish. There are now serious concerns over the state of the stock which is considered to be outside safe biological limits. The UK west of Scotland quota for 2002 was set at 1513 t.

**Fisheries Research Services (FRS) surveys and monitoring**
FRS have been carrying out routine groundfish surveys in Quarter 1 (usually in March) since 1981. The area covered is Sub-area VI, the northern part of the Irish Sea and
Northwest Ireland. Since 2000 the depth range covered has been from 20 to 500 m. The target species are cod, haddock, whiting, saithe and herring. Length age frequency distributions are constructed for all these species. All other species are recorded and, at least, length data are collected. Indices of abundance at age are calculated for the target species and these data are used by the ICES Northern Shelf Assessment Working Group and the Herring Assessment Working Group.

The mackerel recruit survey in Quarter 4 covers the same area as the Quarter 1 groundfish survey. These surveys began in 1985 and is generally carried out in November. The target species now include cod, haddock, whiting, saithe and herring but the time series for the demersal species are too short to be of use to ICES.

Every summer FRS carries out an annual herring acoustic survey in the northern part of Division VIa. Routine surveys of scallops and Nephrops are undertaken and more recently inshore/sea loch surveys have been undertaken. Biannual surveys of deep-water fishes have been undertaken since 1998.

In addition to the above research vessel surveys FRS charters vessels for specific projects and sends scientists on commercial vessels to sample discards (30 + trips per annum in Sub-area VIa).

Market sampling of landings is routinely carried out at the ports of Kinlochbervie, Lochinver, Ullapool, Mallaig and Troon. Length frequency and age data have been collected since 1962 and are used by ICES Working Groups. Monthly commercial landings data by statistical square from 1960 onwards for all commercial species are held on database.

**Deep-sea fishes**

SEA7 covers a vast area of the deep-sea extending from the west of Scotland continental margin, through the Rockall Trough and westwards beyond the Rockall Plateau to the Hatton Bank and the adjacent abyssal plain.

**Rockall Plateau**

The fisheries on the Rockall Bank have been described by Blacker (1982). Since 1997 when the UK relinquished its claim to a 200 mile fishery limit around Rockall there has been an uncontrolled expansion of the fisheries. One of the more important fisheries is for haddock and some agreement has been reached over the management of these stocks amongst the participating countries in the North-east Atlantic Fisheries Commission (NEAFC). Fisheries Research Services carry out a Rockall groundfish survey in Quarter 3 (September) every second year (annually from 1985 to 1997). The survey covers the whole of the plateau down to depths of 250 m.

**Rockall Trough**

Some of the earliest explorations of deep-sea fishes were in the Rockall Trough in the 1860s and since then there have been many biological and fisheries surveys. Commercial deep-water fishing began in the 1970s and expanded rapidly throughout the 1990s. A
paper entitled *The Rockall Trough, North East Atlantic: the cradle of deep-sea biological oceanography that is now being subjected to unsustainable fishing activity* by Gordon (in press) to be published in the Journal of Northwest Atlantic Fishery Science reviews the historical background, the biology of the fish species and the development and status of the fisheries. [An earlier version of this paper is available as a NAFO SCR document; Gordon, 2001a]. Although not intended as a comprehensive literature review the references cited will guide the interested reader to the relevant literature.

The UK Ministry of Agriculture Fisheries and Food (MAFF) now the Department of Environment, Food and Rural Affair (DEFRA) in conjunction with the White Fish authority (now Sea Fish Industry Authority) carried out surveys in the 1970s. The data, which form a useful record of the unexploited resource, have been reanalysed as part of an EC DG XIV Project 94/017 (Gordon and Swan, 1997).

The basic data from SAMS surveys (1975-1992) were analysed with the support of another EC Project DGXIV 92/10 (Gordon and Swan, 1993). Germany also carried out surveys in the 1970s and 1980s and these data were recently reanalysed as a contribution to an EC FAIR project (EC95/0655). Many of the sub-tasks of this project, which extended from Iceland to Greece, dealt with the fish and fisheries of the Rockall Trough. They included descriptions of fisheries, analysis of archived material, market sampling, discard studies and biological parameters. The final consolidated report the project (*Developing deep-water fisheries: data for their assessment and for understanding their interaction with and impact on a fragile environment*) is available on the SAMS web-site ([www.sams.ac.uk](http://www.sams.ac.uk)). Much of the data from these surveys has been used to investigate the effects of fishing on deep-water fish species (Basson et al. 2002).

The deep-water fisheries have been described by Gordon (2001b). The demersal fisheries are for the true deep-water species (blue ling, roundnose grenadier, orange roughy, black scabbardfish, and deep-water sharks) and species that also occur on the shelf (ling, tusk, megrim and anglerfish). The important pelagic species are blue whiting and the greater silver smelt or argentine. The ICES Working Group on the Biology and Assessment of Deep-sea Fisheries (WGDEEP) reports on all these species except anglerfish, megrim and blue whiting.

Since 1998 ICES ACFM has been advising that the deep-water fisheries are overexploited and that management should be by a reduction of effort rather than by total allowable catches (TAC). The EC first proposed TACs in 1999 but these and subsequent proposals for regulatory measures were all deferred. In June 2002 a compromise measure was agreed, subject to approval of the European Parliament, for a TACs on selected species from January 2003.

**Hatton Bank and surrounding abyssal plain**

The Hatton Bank lies to the west of the Rockall Plateau and lies partly in ICES Division VIb and partly in Sub-area XII. Prior to 1997 a large part of the bank lay within the UK 200 mile fishery limits. Little was known about the deep-water fish populations of the bank and its surrounding waters, although it was generally assumed that they would have
strong affinities with those of the Rockall Trough. However, knowledge gained from the developing fisheries indicates a more complex situation. Fisheries for roundnose grenadier, black scabbardfish etc. exist over a large part of the bank but in some areas fisheries for Greenland halibut also occur. Greenland halibut is associated with the colder waters of Nordic Seas and are probably associated with the coldwater overflow across the Faroe/Iceland Ridge being channelled past the bank. The main fisheries are a Spanish trawl fishery for grenadiers, smoothheads and other Atlantic deep-water species and a Norwegian longline fishery for Greenland halibut. Faroese trawlers have also operated on the bank and have carried out exploratory fishing over a wide area of the North-east Atlantic for orange roughy. ICES Sub-area XII covers a large area extending west to the Mid-Atlantic ridge. This creates problems when reporting landings and the ICES WGDEEP have usually excluded reported landings from Sub-area XII from their assessments. There are also concerns that not all countries report landings of deep-water species from these international waters. At the present time NEAFC has no management measures in place for deep-water species. However, the TACs being implemented by EU countries will apply to the whole ICES area.
References


Gordon, J.D.M. 2001a. The Rockall Trough, North East Atlantic: an account of the change from one of the best studied deep-water ecosystems to one that is being subjected to unsustainable fishing activity. *NAFO SCR Doc.* 01/101:30pp.


Gordon, J.D.M. In press. The Rockall Trough, North East Atlantic: the cradle of deep-sea biological oceanography that is now being subjected to unsustainable fishing activity. *Journal of Northwest Atlantic Fishery Science.*


Figure 1: Map of north-western Europe with ICES areas marked. Area SEA7 is shaded and overlaps ICES divisions VIIa, Vla, Vlb and XII.
Reference Type: Journal Article
Record Number: 169
Author: Afonso-Dias, I. P.; Hislop, J. R. G.
Year: 1996
Title: The reproduction of anglerfish *Lophius piscatorius* Linnaeus from the north-west coast of Scotland
Journal: Journal of Fish Biology
Volume: 49 Supplement A
Pages: 18-39
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 170
Author: Allain, V.; Kergoat, B.
Year: 1997
Title: Biodiversité et stratégies démographiques des populations de poissons profonds de l'atlantique nord-est soumises à la pression de la pêche. Biodiversity and demographic strategies of exploited deep-sea fish populations from North-east Atlantic
Journal: Vie Milieu.
Volume: 47
Pages: 285-294
Label: 3732
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 171
Author: Allain, V.
Year: 1998
Title: Reproduction and fecundity of 3 species of deep-sea fish from the north-east Atlantic Ocean
Journal: ICES CM
Volume: 1998/O:4
Pages: 14pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Thesis
Record Number: 172
Author: Allain, V.
Year: 1999
Title: Écologie, biologie et exploitation des populations de poissons profonds de l’Atlantique du nord-est
University: Université de Bretagne Occidentale
Thesis Type: Doctorate
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI
Reference Type: Journal Article
Record Number: 173
Author: Allain, V.; Lorance, P.
Year: 2000
Title: Age estimation and growth of some deep-sea fish from the Northeast Atlantic Ocean
Journal: Cybium
Volume: 24 suppl.
Pages: 7-16
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 174
Author: Anon.
Year: 1995
Title: Report of the study group on the biology and assessment of deep-sea fisheries resources
Journal: ICES CM
Volume: 1995/Assess:21/G
Pages: 3pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI + XII

Reference Type: Journal Article
Record Number: 175
Author: Anon.
Year: 1997
Title: Report of the study group on the biology and assessment of deep-sea fisheries resources
Journal: ICES CM
Volume: 1997/Assess:17
Pages: 29pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI + XII

Reference Type: Journal Article
Record Number: 176
Author: Anon.
Year: 1998
Title: Report of the study group on the biology and assessment of deep-sea fisheries resources
Journal: ICES CM
Volume: 1998/ACFM:12
Pages: 172pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI + XII
Reference Type: Journal Article  
Record Number: 177  
Author: Anon.  
Year: 1999  
Title: Report of the study group on the biology and assessment of deep-sea fisheries resources  
Journal: ICES CM  
Volume: 1999/ACFM:21  
Pages: 35pp  
Notes: a. Held at most fishery laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI +XII

Reference Type: Journal Article  
Record Number: 178  
Author: Anon.  
Year: 2000  
Title: Report of the study group on the biology and assessment of deep-sea fisheries resources.  
Journal: ICES CM  
Volume: 2000/ACFM:8  
Pages: 206 pp  
Notes: a. www.ices.dk/iceswork  
b. Free  
c. 4  
d. ICES Sub-area VI + XII

Reference Type: Journal Article  
Record Number: 179  
Author: Anon.  
Year: 2001  
Title: Report of the working group on the biology and assessment of deep-sea fisheries resources  
Journal: ICES CM  
Volume: 2001/ACFM:23  
Pages: 38  
Notes: a. www.ices.dk/iceswork  
b. Free  
c. 4  
d. ICES Sub-area VI

Reference Type: Report  
Record Number: 180  
Author: Anon.  
Year: 2002  
Pages: 18pp + appendices  
Notes: a. Available from An Bord Iascaigh Mhara, Ireland  
b. Free  
c. 3  
d. ICES Sub-area VI
Reference Type: Book Section
Record Number: 33
Author: Ansell, AD; Gibson, RN
Year: 1990
Title: Patterns of feeding and movement of juvenile flatfishes on an open sandy beach
Editor: Barnes, M; Gibson, RN
Book Title: Trophic Relationships in the Marine Environment
City: Aberdeen
Publisher: Aberdeen University Press
Pages: 191-207
Notes: a. available through most marine laboratory libraries
       b. free
       c. 4
       d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 105
Author: Atkinson, R. J. A.; Pullin, R. S. V.
Year: 1996
Title: Observations on the burrows and burrowing behaviour of the red band-fish, Cepola rubescens L.
Journal: Marine Ecology, Naples
Volume: 17
Pages: 23-40
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 3
       d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 106
Author: Bagenal, T. B.
Year: 1954
Title: The growth rate of hake, Merluccius merluccius (L) in the Clyde and other Scottish Sea Areas
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 33
Pages: 69-95
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 3
       d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 107
Author: Bagenal, T. B.
Year: 1955
Title: The growth rate of the long rough dab Hippoglossoides platessoides (Fabr)
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 34
Pages: 643-647
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 108
Author: Bagenal, T. B.
Year: 1957
Title: The breeding and fecundity of the long rough dab Hippoglossoides platessoides (Fabr.) and the associated cycle in condition
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 36
Pages: 339-375
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 109
Author: Bagenal, T. B.
Year: 1961
Title: The northern rockling in the Clyde sea area
Journal: Nature
Volume: 189
Pages: 1028-1029
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 110
Author: Bagenal, T. B.
Year: 1961
Title: The long rough dabs of the Clyde sea area
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 41
Pages: 49-58
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 111
Author: Bagenal, T. B.
Year: 1965
Title: The fecundity of long rough dabs in the Clyde sea area
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 45
Pages: 599-606
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 112
Author: Bailey, R. S.; Hislop, J. R. G.; Mason, J.
Year: 1979
Title: The fish and shellfish resources in seas adjacent to the Outer Hebrides
Journal: Proceedings of the Royal Society of Edinburgh
Volume: 77B
Pages: 479-494
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 181
Author: Bailey, R. S.
Year: 1982
Title: The population biology of blue whiting in the North Atlantic
Journal: Advances in Marine Biology
Volume: 19
Pages: 257-355
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 78
Author: Bailey, N; Howard, FG; Chapman, CJ
Year: 1986
Title: Clyde Nephrops: biology and fisheries
Journal: Proceedings of the Royal Society of Edinburgh Section B: Biological Sciences
Volume: 90
Pages: 501-518
Notes: a. Held at most marine biological libraries
b. Free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 81
Author: Bailey, RS; McKay, DW; Morrison, JA; Walsh, M
Year: 1986
Title: The biology and management of herring and other pelagic fish stocks in the Firth of Clyde
Journal: Proceedings of the Royal Society of Edinburgh Section B - Biological Sciences
Volume: 90
Reference Type: Journal Article
Record Number: 182
Author: Bailey, M. C.; Heath, M. R.
Year: 1996
Title: Spatial variability in the growth rates of blue whiting (*Micromesistius poutassou* (Risso)) larvae at the shelf edge west of the U.K.
Journal: ICES CM
Volume: 1996/S:22
Pages: 9p
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 183
Author: Bailey, M. C.; Heath, M. R.
Year: 2001
Title: Spatial variability in the growth rate of blue whiting (*Micromesistius poutassou*) larvae at the shelf edge west of the UK
Journal: Fisheries Research
Volume: 50
Issue: 1/2
Pages: 73-87
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 113
Author: Bainbridge, V.; Forsyth, D. C. T.
Year: 1971
Title: The feeding of herring larvae in the Clyde
Journal: Rapport et Proces-Verbaux des Reunions du Conseil Permanent International pour l'Exploration de la Mer
Volume: 160
Pages: 104-113
Notes: a. Held at most marine biological libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 114
Author: Bels, V. L.; Davenport, J.
Year: 1996
Title: A comparison of food capture and ingestion of two flatfish species, Pleuronectes platessa and Limanda limanda (Teleostei: Pleuronectiformes)
Journal: Journal of Fish Biology
Volume: 49
Pages: 390-401
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 82
Author: Bergmann, M; Beare, DJ; Moore, PG
Year: 2001
Title: Damage sustained by epibenthic invertebrates discarded in the Nephrops fishery of the Clyde Sea area, Scotland
Journal: Journal of Sea Research
Volume: 45
Pages: 105-118
Keywords: Demersal fishing, Clyde Sea, Scotland
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 84
Author: Bergmann, M; Moore, PG
Year: 2001
Title: Survival of decapod crustaceans discarded in the Nephrops fishery of the Clyde Sea area, Scotland
Journal: ICES Journal of Marine Science
Volume: 58
Pages: 163-171
Keywords: Scotland, by-catch mortality, trawling
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 184
Author: Bergstad, O. A.; Isaksen, B.
Year: 1987
Title: Deep-water resources of the northeast Atlantic: distribution, abundance and exploitation
Journal: Fiskeridirektoratets skrifter Serie Havundersokelser
Volume: (3)
Pages: 1-56
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI + XII
Reference Type: Journal Article
Record Number: 185
Author: Bergstad, O. A.; Hareide, N. R.
Year: 1996
Title: Ling, blue ling and tusk of the north-east Atlantic
Journal: Fisken og havet
Volume: 15
Pages: 126p
Notes: a. Held at most marine laboratory libraries
      b. Free
      c. 3
      d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 186
Author: Blacker, R.W.
Year: 1982
Title: Rockall and its fishery
Journal: Laboratory Leaflet, MAFF Directorate of Fisheries Research, Lowestoft
Volume: 55
Pages: 23 pp
Notes: a. Held at most marine laboratory libraries
      b. Free
      c. 3
      d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 187
Author: Blasdale, T.; Newton, A. W.
Year: 1998
Title: Estimates of discards from two deepwater fleets in the Rockall Trough
Journal: ICES CM
Volume: 1998/O:11
Pages: 18pp
Notes: a. Held at most fishery laboratory libraries
      b. Free
      c. 3
      d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 188
Author: Borodulina, O. D.
Year: 1968
Title: Argentina silus in the Atlantic Ocean
Journal: Rapport et Proces-Verbaux des Reunions du Conseil Permanent International pour l'Exploration de la Mer
Volume: 158
Issue: 54-57
Notes: a. Held at most marine laboratory libraries
      b. Free
      c. 3
      d. ICES Sub-area VI
Reference Type: Journal Article  
Record Number: 85  
Author: Boyle, PR; Collins, MA; Williamson, GR  
Year: 1998  
Title: The cephalopod by-catch of deep-water trawling on the hebrides slope  
Journal: Journal of the Marine Biological Association of the United Kingdom  
Volume: 78  
Pages: 1023-1026  
Notes: a. held at most marine biological libraries  
b. free  
c. 3  
d. ICES sub-area VI

Reference Type: Journal Article  
Record Number: 189  
Author: Bridger, J. P.  
Year: 1978  
Title: New deep-water trawling grounds to the west of Britain  
Journal: Laboratory Leaflet, MAFF Directorate of Fisheries Research, Lowestoft  
Volume: 41  
Pages: 40pp  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 28  
Author: Burrows, MT; Gibson, RN; Robb, L; Comely, CA  
Year: 1994  
Title: Temporal patterns of movement in juvenile flatfishes and their predators: underwater television observations  
Journal: Journal of Experimental Marine Biology and Ecology  
Volume: 177  
Pages: 251-268  
Keywords: Pleuronectes platessa, plaice  
Notes: a. held at most marine biological libraries  
b. free  
c. 4  
d. ICES sub-area VIa

Reference Type: Journal Article  
Record Number: 64  
Author: Burrows, M. T.  
Year: 1994  
Title: An Optimal Foraging and Migration Model for Juvenile Plaice  
Journal: Evolutionary Ecology  
Volume: 8  
Pages: 125-149
Keywords: *Pleuronectes platessa*, flatfish
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 58
Author: Burrows, M. T.; Kawai, K.; Hughes, R. N.
Year: 1999
Title: Foraging by mobile predators on a rocky shore: underwater TV observations of movements of blennies *Lipophrys pholis* and crabs *Carcinus maenas*
Journal: Marine Ecology Progress Series
Volume: 187
Pages: 237-250
Keywords: predation, intertidal fishes, prey-selection, pisces
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 54
Author: Burrows, M. T.; Gontarek, S. J.; Nash, R. D. M.; Gibson, R. N.
Year: 2001
Title: Shrimp predation on 0-group plaice: contrasts between field data and predictions of an individual-based model
Journal: Journal of Sea Research
Volume: 45
Pages: 243-254
Keywords: plaice, predation, *Pleuronectes platessa*, Scottish sandy beach, winter flounder, larval fishes
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 67
Year: 2001
Title: Amnesic shellfish poisoning in the king scallop, *Pecten maximus*, from the west coast of Scotland
Journal: Journal of Shellfish Research
Volume: 20
Pages: 75-84
Keywords: amnesic shellfish poisoning, *Pecten maximus*, scallop fishery
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Book Section
Record Number: 115
Author: Carss, D. N.
Year: 1996
Title: Interactions between aquaculture and sea loch fish assemblages
Editor: Black, K. D.
Book Title: Aquaculture and sea lochs
City: Oban
Publisher: Scottish Association for Marine Science
Pages: 27-32
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 4
       d. ICES Sub-area VI

Reference Type: Report
Record Number: 190
Author: Charauu, A.; Dupouy, H.; Lorance, P.
Year: 1992
Title: Estimation de parametres biologiques de l'empereur et du grenadier
Report Number: Rapport CEE DGXIV 1992/12
Notes: a. IFREMER
       b. 
       c. 3
       d. ICES Sub-area VI

Reference Type: Book Section
Record Number: 191
Author: Charauu, A.; Dupouy, H; Lorance, P.
Year: 1995
Title: French exploitation of the deep-water fisheries of the North Atlantic
Editor: Hopper, A.G.
Book Title: Deep-water Fisheries of the North Atlantic Oceanic Slope
City: Netherlands
Publisher: Kluwer Academic Publishers
Pages: 337-356
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 3
       d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 192
Author: Clarke, M. W.
Year: 2000
Title: Records of deep water chondrichthyan fish caught on long-line in the Rockall Trough
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 80
Pages: 337-378
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 3
       d. ICES Sub-area VI
Reference Type: Journal Article
Record Number: 193
Author: Clarke, M. W.; Connolly, C. J.; Bracken, J. J.
Year: 2001
Title: Biology of exploited deep-water sharks west of Ireland and Scotland
Journal: NAFO SCR Doc.
Volume: 01/108
Issue: N4496
Pages: 18pp
Notes: a. www.nafo.ca
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 194
Author: Clarke, M. W.; Connolly, P. L.; Bracken, J. J.
Year: 2001
Title: Aspects of reproduction of the deep water sharks Centroscymnus coelolepis and Centroscymnus squamosus from west of Ireland and Scotland
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 81
Pages: 1019-1029
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 195
Author: Clarke, M. W.; Kelly, C. J.; Connolly, P. L.; Molloy, J. P.
Year: 2001
Title: Life history strategies of deepwater fish species and implications for management of the fishery
Journal: ICES CM
Volume: 2001 J:11
Pages: 12pp
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 196
Author: Clarke, M.W.; Connolly, P.L.; Bracken, J.J.
Year: 2002
Title: Age estimation of the exploited deepwater shark Centrophorus squamosus from the continental slopes of the Rockall Trough and Porcupine Bank
Journal: Journal of Fish Biology
Volume: 60
Pages: 501-514
Notes: a. Held at most marine laboratory libraries
b. Free
Reference Type: Journal Article
Record Number: 197
Author: Coggan, R. A.; Gordon, J. D. M.; Merrett, N. R.
Year: 1998
Title: Abundance distribution reproduction and diet of notacanthid fishes from the north-east Atlantic
Journal: Journal of Fish Biology
Volume: 52
Pages: 1038-1057
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 198
Author: Coggan, R. A.; Gordon, J. D. M.; Merrett, N. R.
Year: 1999
Title: Aspects of the biology of Nezumia aequalis from the continental slope west of the British Isles
Journal: Journal of Fish Biology
Volume: 54
Pages: 152-170
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 71
Author: Collins, M. A.; Pierce, G. J.; Boyle, P. R.
Year: 1997
Title: Population indices of reproduction and recruitment in Loligo forbesi (Cephalopoda: Loliginidae) in Scottish and Irish waters
Journal: Journal of Applied Ecology
Volume: 34
Pages: 778-786
Keywords: population biology, stock assessment, squid fishery
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 199
Author: Connolly, P. J.; Kelly, C. J.
Year: 1996
Title: Catch and discards from experimental trawl and longline fishing in the deep water of the Rockall Trough
Journal: Journal of Fish Biology
Volume: 49 Supplement A
Pages: 132-144
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 200
Author: Coombs, S. H.; Pipe, R. K.
Year: 1978
Title: The distribution, abundance and seasonal occurrence of the eggs and larvae of blue whiting, _Micromesistius poutassou_ (Risso), in the eastern North Atlantic
Journal: ICES CM
Volume: 1978/H:45
Pages: 9
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Thesis
Record Number: 116
Author: Cooper, A.
Year: 1979
Title: Aspects of the ecology of gadoid fish of the west coast of Scotland
University: University of Stirling
Number of Pages: 162pp
Thesis Type: PhD
Notes: a. SAMS and Stirling University libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Book Section
Record Number: 117
Author: Cooper, A.
Year: 1980
Title: Gadoid populations of western Scottish sea lochs and their exchanges with west coast stocks
Editor: Freeland, H. J.; Farmer, D. M.; Levings, C. D.
Book Title: Fjord Oceanography
City: New York and London
Publisher: Plenum Press
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 118
Author: Cooper, A.
Year: 1983
Journal: Journal of Fish Biology
Volume: 22
Pages: 317-334
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Report
Record Number: 80
Author: Coull, KA; Johnstone, R; Rogers, SI
Year: 1998
Title: Fisheries sensitivity maps in British waters
Institution: UKOOA
Notes: a. http://www.cefas.co.uk/fsmaps/default.htm
b. free
c. 4
d. UK continental shelf

Reference Type: Journal Article
Record Number: 65
Author: Crozier, W. W.
Year: 1987
Title: Biochemical Genetic-Variation and Population-Structure in Angler-Fish *Lophius Piscatorius* L from the Irish Sea and West of Scotland
Journal: Journal of Experimental Marine Biology and Ecology
Volume: 106
Pages: 125-136
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa and VIIa

Reference Type: Journal Article
Record Number: 119
Author: De Silva, S. S.
Year: 1973
Title: Abundance, structure, growth and origin of inshore Clupeid populations of the west coast of Scotland
Journal: Journal of Experimental Marine Biology and Ecology
Volume: 12
Pages: 119-144
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 120
Author: De Silva, S. S.
Year: 1973
Title: Aspects of the reproductive biology of the sprat Sprattus sprattus (L.) in inshore waters of the west coast of Scotland
Journal: Journal of Fish Biology
Volume: 5
Pages: 689-705
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 121
Author: De Silva, S. S.
Year: 1973
Title: Food and feeding habits of the herring Clupea harengus and the sprat C. sprattus in inshore waters of the west coast of Scotland
Journal: Marine Biology
Volume: 20
Pages: 282-290
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Thesis
Record Number: 122
Author: De Silva, S. S.
Year: 1973
Title: Clupeid populations of inshore waters of the west coast of Scotland
University: University of Stirling
Number of Pages: 121 pp + appendices
Thesis Type: PhD
Notes: a. SAMS and Stirling University libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 201
Author: du Buit, M. H.
Year: 1978
Title: Alimentation de quelques poissons téléostéens de profondeur dans la zone du seuil de Wyville Thomson
Journal: Oceanologica Acta
Volume: 1
Issue: 129-134
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI
Reference Type: Journal Article  
Record Number: 202  
Author: du Buit, M. H.  
Year: 1984  
Title: Predation de la Cardine (*Lepidorhombus whiffiagonis* W.) au nord et a l'ouest de l'Ecosse.  
Journal: Journal du Conseil  
Volume: 41  
Pages: 194-198  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 123  
Author: du Buit, M. H.  
Year: 1989  
Title: Analyse du regime alimentaire de la morhue (*Gadus morhua* L.) au large de l'ecosse  
Journal: Annales de l'Institut Oceanographique, Paris (Nouvelle Serie)  
Volume: 65  
Pages: 147-158  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 203  
Author: Du Buit, M. H.  
Year: 1995  
Title: Notes préliminaires sur la ponte de l'hoplostèthe (*Hoplostethus atlanticus*, Trachichthyidae) a l'ouest des Iles Britanniques  
Journal: Cybium  
Volume: 19(2)  
Pages: 199-200  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 46  
Author: Du Buit, MH  
Year: 1991  
Title: Food and Feeding of saithe (*Pollachius virens* L.) off Scotland  
Journal: Fisheries Research  
Volume: 12  
Pages: 307-323  
Notes: a. held at most marine biological libraries  
b. free  
c. 3  
d. ICES sub-area VIa
Reference Type: Journal Article
Record Number: 204
Author: Dupouy, H.; Kergoat, B.
Year: 1992
Title: La pêcherie de grenadier de roche (Coryphaenoides rupestris) de l'ouest de l'Ecosse: production, mortalité par pêche et rendement par recrue
Journal: ICES CM
Volume: 1992/G:40
Pages: 9pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 205
Author: Durán Muñoz, P; Román, E; González, F
Year: 2000
Title: Results of a deep-water experimental fishing in the North Atlantic: an example of cooperative research with the fishing industry
Journal: ICES CM
Volume: 2000/W:04
Pages: 1-15
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 206
Author: Durán Muñoz, P.; Román Marcote, E
Year: 2000
Title: Spanish experimental fishings: a cooperative research initiative between scientists and the local fishing industry
Journal: ICES CM
Volume: 2000/W:03
Pages: 1-18
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI + XII

Reference Type: Journal Article
Record Number: 207
Author: Durán Muñoz, P.; Román Marcote, E.
Year: 2001
Title: The Spanish multi-species deep-sea fishery on Hatton Bank (north east Atlantic): 1996-2000
Journal: NAFO SCR Doc.
Volume: 01/120
Issue: N4508
Pages: 20pp
Reference Type: Journal Article
Record Number: 208
Author: Durán Muñoz, P; Loureiro, I.; Roman, E.
Year: 2002
Title: Update available data on the Spanish multi-species deep-sea bottom trawl fishery at Hatton Bank (2000-2001)
Journal: ICES Working Document (WG DEEP)
Pages: 9 pg
Notes: a. ICES
b. 4
c. ICES Sub-area VI + XII

Reference Type: Journal Article
Record Number: 30
Author: Edwards, RCC; Steele, JH
Year: 1968
Title: The ecology of 0-group plaice and common dabs at Lochewe. I. Population and food
Journal: Journal of Experimental Marine Biology and Ecology
Volume: 2
Pages: 215-238
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 209
Author: Ehrich, S.
Year: 1983
Title: On the occurrence of some fish species at the slopes of the Rockall Trough.
Journal: Archiv für Fischereiwissenschaft
Volume: 33
Issue: 3
Pages: 105-150
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 210
Author: Ehrich, S.
Year: 1983
Title: Stock assessments of haddock, blue whiting and greater silver smelt on Rockall Bank
Journal: ICES CM
Volume: C.M. 1983/G:29
Notes: a. Held at most fishery laboratory libraries
Reference Type: Journal Article
Record Number: 211
Author: Ehrich, S.; Schone, R.
Year: 1983
Title: Gonad maturation and spawning of blue whiting (Micromesistius poutassou) in the Rockall Trough area
Journal: ICES CM
Volume: 1983/H:8
Pages: 15 pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 212
Author: Ehrich, S.; Reinsch, H. H.
Year: 1985
Title: Bestandskundliche Untersuchungen am Blauleng (Molva dypterygia dypt.) in den Gewässern westlich der Britischen Inseln
Journal: Archiv fur Fischereiwissenschaft
Volume: 36, no.1-2
Pages: 97-113
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 29
Author: Ellis, T; RN, Gibson
Year: 1995
Title: Size-selective predation of 0-group plaice (Pleuronectes platessa) on a Scottish coastal nursery ground
Journal: Marine Ecology Progress Series
Volume: 127
Pages: 27-37
Keywords: Pleuronectes platessa, Limanda limanda, density dependent mortality
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 124
Author: Elmhirst, R.
Year: 1926
Title: Notes on fishes from the Firth of Clyde
**Reference Type:** Journal Article  
**Record Number:** 125  
**Author:** Elmhirst, R.  
**Year:** 1926  
**Title:** Notes on fishes from the Firth of Clyde  
**Journal:** Scottish Naturalist  
**Volume:** 162  
**Pages:** 179-186  
**Notes:**  
a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 303  
**Author:** Field, RH; Hills, JM; Atkinson, RJA; Magill, SH; Shanks, AM  
**Year:** 1998  
**Title:** Distribution and seasonal prevalence of *Haematodinium* sp. infection of the Norway lobster (*Nephrops norvegicus*) around the west coast of Scotland  
**Journal:** ICES Journal of Marine Science  
**Volume:** 55  
**Pages:** 846-858  
**Notes:**  
a. held at most marine biological libraries  
b. free  
c. 4  
d. ICES sub-area VIa

**Reference Type:** Journal Article  
**Record Number:** 51  
**Author:** Fogarty, MJ; Myers, RA; Bowen, KG  
**Year:** 2001  
**Title:** Recruitment of cod and haddock in the North Atlantic: a comparative analysis  
**Journal:** ICES Journal of Marine Science  
**Volume:** 58  
**Pages:** 952-961  
**Keywords:** marine demersal fish, *Gadus morhua, Melanogrammus aeglefinus*  
**Notes:**  
a. held at most marine biological libraries  
b. free  
c. 4  
d. ICES sub-area VIa

**Reference Type:** Journal Article  
**Record Number:** 213  
**Author:** Geistdoerfer, P.
Year: 1977
Title: Contribution à la biologie de Coryphaenoides rupestris. Répartition et reproduction dans l'Atlantique nord est
Journal: ICES CM
Volume: C.M. 1977/F:45
Pages: 11pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 214
Author: Geistdoerfer, P.
Year: 1982
Title: L'exploitation commerciale des poissons de grande profondeur dans l'Atlantique Nord
Journal: Oceanis
Volume: 8
Issue: 1
Pages: 29-55
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 127
Author: Gibson, R. N.
Year: 1969
Title: The biology and behaviour of Littoral fish
Journal: Oceanography and Marine Biology: an Annual Review
Volume: 7
Pages: 367-410
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 128
Author: Gibson, R. N.
Year: 1973
Title: The intertidal movements and distribution of young fish on a sandy beach with special reference to the plaice (Pleuronectes platessa L.)
Journal: Journal of Experimental Marine Biology and Ecology
Volume: 12
Pages: 79-102
Notes: a. Held at most marine laboratory libraries
b. Free
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d. ICES Sub-area VI
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<td>Author</td>
<td>Gibson, R. N.; Ezzi, I. A.</td>
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<td>Year</td>
<td>1978</td>
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<td>Title</td>
<td>The biology of a Scottish population of Fries' goby, <em>Lesueurigobius friesii</em></td>
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<tr>
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<td>Title</td>
<td>Aspects of the biology of the spotted dragonet <em>Callionymus maculatus</em> Rafinesque-Schmaltz from the west coast of Scotland</td>
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<td>Gibson, RN; Gibson, IA</td>
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<td>Year</td>
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<td>The biology of the scald-fish <em>Arnoglossus laterna</em> (Walbaum) on the west coast of Scotland</td>
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<td>Gibson, RN; Ezzi, IA</td>
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<tr>
<td>Year</td>
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<td>Title</td>
<td>The biology of the Norway goby, <em>Pomatoschistus norvegicus</em> (Collett) on the west coast of Scotland</td>
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<td>Journal</td>
<td>Journal of Fish Biology</td>
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<tr>
<td>Volume</td>
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<td>697-714</td>
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| Notes          | a. held at most marine biological libraries  
|                | b. free        |
|                | c. 3            |
|                | d. ICES sub-area VIa |
Reference Type: Journal Article
Record Number: 23
Author: Gibson, R N; Ezzi, I A
Year: 1987
Title: Feeding relationships of a demersal fish assemblage on the west coast of Scotland
Journal: Journal of Fish Biology
Volume: 31
Pages: 55-69
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 22
Author: Gibson, R N; Ansell, A D; Robb, L
Year: 1993
Title: Seasonal and annual variations in abundance and species composition of fish and macrocrustacean communities on a Scottish sandy beach.
Journal: Marine Ecology Progress Series
Volume: 98
Pages: 89-105
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 129
Author: Gibson, R. N.
Year: 1994
Title: Impact of habitat quality and quantity on the recruitment of juvenile flatfishes
Journal: Netherlands Journal of Sea Research
Volume: 32
Pages: 191-206
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 31
Author: Gibson, RN; Robb, L; Burrows, MT; Ansell, AD
Year: 1995
Title: Tidal, diel and seasonal changes in the distribution of fishes on a Scottish sandy beach
Journal: Marine Ecology Progress Series
Volume: 130
Pages: 1-17
Call Number: fishes, sandy beach
Notes: a. held at most marine biological libraries
b. free
c. 4
Reference Type: Journal Article
Record Number: 132
Author: Gibson, R. N.; Robb, L.
Year: 1996
Title: Piscine predation on juvenile fishes on a Scottish sandy beach
Journal: Journal of Fish Biology
Volume: 49
Pages: 120-138
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 135
Author: Gibson, R. N.; Robb, L.; Burrows, M. T.; Ansell, A. D.
Year: 1996
Title: Tidal, diel and longer term changes in the distribution of fishes on a Scottish sandy beach
Journal: Marine Ecology Progress Series
Volume: 130
Pages: 1-17
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 133
Author: Gibson, R. N.; Robb, L.
Year: 1997
Title: Occurrence of juvenile red mullet (Mullus surmuletus) on the west coast of Scotland
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 77
Pages: 911-912
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 126
Author: Gibson, R.
Year: 1999
Title: The ecology of the early life stages of the plaice, Pleuronectes platessa L.: a review
Journal: Bulletin of the Tohoku National Fisheries Research Institute. Shiogama
Volume: 62
Pages: 17-50
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
Reference Type: Journal Article
Record Number: 134
Author: Gibson, R. N.; Robb, L.
Year: 2000
Title: Sediment selection in juvenile plaice and its behavioural basis
Journal: Journal of Fish Biology
Volume: 56
Pages: 1258-1275
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 215
Author: Girard, M.; Du Buit, M.-H.
Year: 1999
Title: Reproductive biology of two deep-water sharks from the British Isles, Centroscymnus coelolepis and Centroscymnus squamosus (Chondrichthyes: Squalidae)
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 79
Pages: 923-931
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 216
Author: Girard, M.; Lorance, P.; Biseau, A.
Year: 2000
Title: Captures par unité d'effort des espèces profondes du talus continental à l'ouest des Îles Britannique
Journal: Cybium
Volume: 24
Issue: (3) Suppl
Pages: 97-104
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 217
Author: Gjosaeter, J.
Year: 1986
Title: Estimates of the abundance of mesopelagic fish off southern Norway and west of the British Isles 1971-1976
Journal: Flødevigen rapportser
Reference Type: Journal Article
Record Number: 218
Author: Glukhov, A. A.; Pavlov, A. I.; Shibanov, V. N.
Year: 1983
Title: Some features of the ecology of deepwater fishes from the Hatton Plateau and George Bligh Bank
Journal: Annales Biologiques
Volume: 37
Pages: 271-273
Alternate Journal: .
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES sub-area VI

Reference Type: Journal Article
Record Number: 38
Author: Gordon, JDM
Year: 1977
Title: The fish populations in inshore waters of the west coast of Scotland. The biology of the Norway pout (Trisopterus esmarkii)
Journal: Journal of Fish Biology
Volume: 10
Pages: 417-430
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 39
Author: Gordon, JDM
Year: 1977
Title: The fish populations in inshore waters of the west coast of Scotland. The distribution, abundance and growth of whiting (Merlangius merlangus L.)
Journal: Journal Of Fish Biology
Volume: 10
Pages: 587-596
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 136
Author: Gordon, J. D. M.
Reference Type: Journal Article
Record Number: 137
Author: Gordon, J. D. M.
Year: 1977
Title: The fish populations in inshore waters of the west of Scotland. The biology of the Norway Pout (Trisopterus esmarkii)
Journal: Journal of Fish Biology
Volume: 10
Pages: 417-430
Notes: a. Held at most marine laboratory libraries b. Free c. 3 d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 219
Author: Gordon, J. D. M.
Year: 1978
Title: Some notes on the biology of the roundnose grenadier Coryphaenoides rupestris to the west of Scotland
Journal: ICES CM
Volume: 1978/G:40
Notes: a. Held at most marine laboratory libraries b. Free c. 3 d. ICES Sub-area VI
Reference Type: Journal Article
Record Number: 142
Author: Gordon, J. D. M.; Duncan, J. A. R.
Year: 1979
Title: Some notes on the biology of the snake blenny, *Lumpenus lampretaeformis* on the west coast of Scotland.
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 59
Pages: 413-419
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 220
Author: Gordon, J. D. M.
Year: 1979
Title: The depth distribution of roundnose grenadier (*Coryphaenoides rupestris* Gunnerus) on the west of Scotland slope
Journal: Annales Biologiques
Volume: 34
Pages: 225-226
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Book Section
Record Number: 221
Author: Gordon, J. D. M.
Year: 1979
Title: Seasonal reproduction in deep-sea fish
Editor: Naylor, E.; Hartnoll, R. G.
Book Title: Cyclic phenomena in marine plants and animals
City: Oxford
Publisher: Pergamon Press
Pages: 223-229
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 222
Author: Gordon, J. D. M.
Year: 1979
Title: Lifestyle and phenology in deep sea anacanthine teleosts
Journal: Symposia of the Zoological Society of London
Volume: 44
Pages: 327-359
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 40
Author: Gordon, JDM; Silva, SS de
Year: 1980
Title: The fish populations of the west of Scotland Shelf. Part I
Journal: Oceanography and Marine Biology Annual Review
Volume: 18
Pages: 317-366
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 223
Author: Gordon, J. D. M.
Year: 1980
Title: Records of blue whiting (Micromesistius poutassou Risso) from bottom trawls in the Rockall Channel
Journal: Annales Biologiques
Volume: 35
Pages: 161-162
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 41
Author: Gordon, JDM; Silva, SS de
Year: 1981
Title: The fish populations of the west of Scotland Shelf. Part II
Journal: Oceanography and Marine Biology Annual Review
Volume: 19
Pages: 405-441
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 45
Author: Gordon, JCD
Year: 1983
Title: Some notes on small kelp forest fish collected from Saccorhiza polyschides bulbs on the Isle of Cumbrae
Journal: Ophelia
Volume: 22
Reference Type: Journal Article
Record Number: 143
Author: Gordon, J. D. M. ; Duncan, J. A. R.
Year: 1983
Title: A survey of the fish stocks of the west coast of Scotland sea lochs and adjacent inshore waters using a bottom trawl. 1. Introduction and Loch Spelve
Journal: S.M.B.A. Internal Report
Volume: 90
Pages: 21pp
Notes: a. SAMS library
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 144
Author: Gordon, J. D. M. ; Duncan, J. A. R.
Year: 1983
Title: A survey of the fish stocks of the west coast of Scotland sea lochs and adjacent inshore waters using a bottom trawl. 2. Loch Etive; Airds Bay and the upper basin
Journal: S.M.B.A. Internal Report
Volume: 100
Pages: 22pp
Notes: a. SAMS library
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 145
Author: Gordon, J. D. M. ; Duncan, J. A. R.
Year: 1984
Title: A survey of the fish stocks of the west coast of Scotland sea lochs and adjacent inshore waters using a bottom trawl. 3. The Firth of Lorne
Journal: S.M.B.A. Internal Report
Volume: 105
Pages: 52pp
Notes: a. SAMS library
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 146
Author: Gordon, J. D. M. ; Duncan, J. A. R.
Year: 1984
Title: A survey of the fish stocks of the west coast of Scotland sea lochs and adjacent inshore waters using a bottom trawl. 4. Loch Linnhe
Journal: S.M.B.A. Internal Report
Volume: 115
Pages: 45pp
Notes: a. SAMS library
b. Free
c. 5
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 147
Author: Gordon, J. D. M. G.; Duncan, J. A. R.
Year: 1984
Title: A survey of the fish stocks of the west coast of Scotland sea lochs and adjacent inshore waters using a bottom trawl. 5. Loch Sunart and Bloody Bay
Journal: S.M.B.A. Internal Report
Volume: 116
Pages: 39pp
Notes: a. SAMS library
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 224
Author: Gordon, J. D. M.; Duncan, J. A. R.
Year: 1985
Title: The ecology of the deep-sea benthic and benthopelagic fish on the slopes of the Rockall Trough, northeastern Atlantic
Journal: Progress in Oceanography
Volume: 15
Pages: 37-69
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 225
Author: Gordon, J. D. M.; Duncan, J. A. R.
Year: 1985
Title: The biology of fish of the family Moridae in the deep-water of the Rockall Trough
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 65
Pages: 475-485
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI
Reference Type: Journal Article
Record Number: 226
Author: Gordon, J. D. M.
Year: 1986
Title: The fish populations of the Rockall Trough
Journal: Proceedings of the Royal Society of Edinburgh
Volume: 88B
Pages: 191-204
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 3
       d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 227
Author: Gordon, J. D. M.; Duncan, J. A. R.
Year: 1987
Title: Deep-sea bottom-living fishes at two repeat stations at 2200 and 2900 m in the Rockall Trough, northeastern Atlantic Ocean
Journal: Marine Biology
Volume: 96
Issue: 3
Pages: 309-325
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 4
       d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 228
Author: Gordon, J. D. M.; Duncan, J. A. R.
Year: 1987
Title: Aspects of the biology of Hoplostethus atlanticus and H. mediterraneus (Pisces: Berycomorphi) from the slopes of the Rockall Trough and the Porcupine Sea Bight (North-Eastern Atlantic)
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 67
Pages: 119-133
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 3
       d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 229
Author: Gordon, J. D. M.; Duncan, J. A. R.
Year: 1989
Title: A note on the distribution and diet of deep-water rays (Rajidae) in an area of the Rockall Trough
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 69
Pages: 655-658
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 4
Reference Type: Book Section
Record Number: 230
Author: Gordon, J. D. M.; Mauchline, J.
Year: 1990
Editor: Barnes, M.; Gibson, R. N.
Book Title: Trophic Relationships in the Marine Environment.
City: Aberdeen
Publisher: Aberdeen University Press
Pages: 439-452
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 231
Author: Gordon, J. D. M.; Swan, S. C.
Year: 1993
Title: Biological parameters of deep-water fish species
Journal: EC Report
Volume: DG XIV/C/1, 1992/10
Pages: 122pp + appendices
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Book Section
Record Number: 232
Author: Gordon, J. D. M.; Merrett, N. R.; Haedrich, R. L.
Year: 1995
Title: Environmental and biological aspects of slope-dwelling fishes of the North Atlantic
Editor: Hopper, A. G.
Book Title: Deep-water Fisheries of the North Atlantic Oceanic Slope
City: The Netherlands
Publisher: Kluwer Academic Publishers
Pages: 1-26
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 233
Author: Gordon, J. D. M.; Mauchline, J.
Year: 1996
Title: The distribution and diet of the dominant, slope dwelling eel, *Synaphobranchus kaupi*, of the Rockall Trough
**Journal:** Journal of the Marine Biological Association of the United Kingdom  
**Volume:** 76  
**Pages:** 493-503  
**Notes:** a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 234  
**Author:** Gordon, J. D. M.; Merrett, N. R.; Bergstad, O. A.; Swan, S. C.  
**Year:** 1996  
**Title:** A comparison of the deep-water demersal fish assemblages of the Rockall Trough and Porcupine Seabight, eastern North Atlantic: continental slope to rise  
**Journal:** Journal of Fish Biology  
**Volume:** 49 Supplement A  
**Pages:** 217-238  
**Notes:** a. Held at most marine laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI + VII

**Reference Type:** Journal Article  
**Record Number:** 235  
**Author:** Gordon, J. D. M.; Swan, S. C.  
**Year:** 1996  
**Title:** Validation of age readings from otoliths of juvenile roundnose grenadier, Coryphaenoides rupestris, a deep-water macrourid fish  
**Journal:** Journal of Fish Biology  
**Volume:** 49 Supplement A  
**Pages:** 289-297  
**Notes:** a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 236  
**Author:** Gordon, J. D. M.; Swan, S. C.  
**Year:** 1997  
**Title:** The distribution and abundance of deep-water sharks on the continental slope to the west of the British Isles  
**Journal:** ICES CM  
**Volume:** 1997/BB:11  
**Pages:** 23pp  
**Notes:** a. Held at most fishery laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 237
Author: Gordon, J. D. M.; Swan, S. C.
Year: 1997
Title: Deep-water demersal fishes: data for assessment and biological analysis
Journal: EC Report (Final)
Volume: EC DGXIV/C1  94/017
Pages: 208pp
Notes: a. SAMS
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Book Section
Record Number: 238

Author: Gordon, J. D. M
Year: 1999
Title: Management considerations of deep-water shark fisheries
Editor: Shotton, R
Book Title: Case studies of the management of elasmobranch fisheries
Volume: No. 378
Pages: 774 - 818
Series Title: FAO Fisheries Technical Paper
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 239

Author: Gordon, J. D. M.
Year: 2001
Title: Deep-water fisheries at the Atlantic Frontier
Journal: Continental Shelf Research
Volume: 21
Pages: 987-1003
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 240

Author: Gordon, J. D. M.
Year: 2001
Title: The Rockall Trough, North East Atlantic: an account of the change from one of the best studied deep-water ecosystems to one that is being subjected to unsustainable fishing activity.
Journal: NAFO SCR DOC.
Volume: 01/101
Issue: Serial No. N4489
Pages: 30pp
Notes: a. www.nafo.ca
b. Free
c. 4
d. ICES Sub-area VI
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<th>Volume</th>
<th>Issue</th>
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|               |               |           |      |       |         |        |       |       | d. ICES Sub-area VI + XII |
|               |               |           |      |       |         |        |       |       | b. Free  
|               |               |           |      |       |         |        |       |       | c. 4  
|               |               |           |      |       |         |        |       |       | d. ICES Sub-area VI |
| 20            | Journal Article | Hall, SJ; Raffaelli, D; Basford, DJ; Robertson, MR; Fryer, R | 1990 | The feeding relationships of the larger fish species in a Scottish sea loch | Journal of Fish Biology | 37 | | 775-791 | a. held at most marine biological libraries  
|               |               |           |      |       |         |        |       |       | b. free  
|               |               |           |      |       |         |        |       |       | c. 4  
|               |               |           |      |       |         |        |       |       | d. ICES sub-area VIa |
| 87            | Journal Article | Hall-Spencer, JM; Moore, PG | 2000 | Scallop dredging has profound, long-term impacts on maerl habitats | ICES Journal of Marine Science | 57 | | 1407-1415 |
Keywords: scallop dredging, ecosystem effects
Notes: a. held at most marine biological libraries
       b. free
       c. 3
       d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 148
Author: Halliday, R. G.
Year: 1969
Title: Distribution and regional variation of *Argentina sphyraena* (Pisces:Isospondyli)
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 49
Pages: 189-208
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 3
       d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 149
Author: Halliday, R. G.
Year: 1969
Title: Rare fishes from the Clyde sea area
Journal: Journal of Natural History
Volume: 9
Pages: 309-320
Notes: a. Held at most marine laboratory libraries
       b. Free
       c. 3
       d. ICES Sub-area VI

Reference Type: Book Section
Record Number: 43
Author: Hawkins, AD; Urquhart, GG; Smith, GW
Year: 1980
Title: Ultrasonic tracking of juvenile cod by means of a large spaces hydrophonic array
Editor: Jr, JC Amlaner; MacDonald, DW
Book Title: A Handbook of biotelemetry and radio tracking
City: Oxford
Publisher: Pergamon Press
Pages: 461-470
Notes: a. available from most marine biological libraries
       b. free
       c. 3
       d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 42
Author: Hawkins, A D; Soofiani, N M; Smith, G W
Year: 1985
Title: Growth and feeding of juvenile cod (*Gadus morhua* L.)
**Journal:** Journal du Conseil International pour l'Exploration de la Mer  
**Volume:** 42  
**Pages:** 11-32  
**Notes:** a. held at most marine biological libraries  
b. free  
c. 4  
d. ICES sub-area VIa

**Reference Type:** Journal Article  
**Record Number:** 243  
**Author:** Heessen, H. J. L.; Kuiter, C. J.  
**Year:** 1991  
**Title:** Some observations on greater argentine (*Argentina silus*) from samples collected in 1990 during an experimental fishery  
**Journal:** ICES CM  
**Volume:** 1991/H:58  
**Pages:** 13pp  
**Notes:** a. Held at most fishery laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 244  
**Author:** Hickling, C. F.  
**Year:** 1928  
**Title:** The exploratory voyages of the 'Florence Brierley'. Notes on the fish recorded  
**Journal:** Annals and Magazine of Natural History  
**Volume:** ser.10, 2(8) 33  
**Pages:** 196-209  
**Notes:** a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 70  
**Author:** Hill, A. E.; Horsburgh, K. J.; Garvine, R. W.; Gillibrand, P. A.; Slesser, G.; Turrell, W. R.; Adams, R. D.  
**Year:** 1997  
**Title:** Observations of a density-driven recirculation of the Scottish coastal current in the Minch  
**Journal:** Estuarine Coastal and Shelf Science  
**Volume:** 45  
**Pages:** 473-484  
**Keywords:** Norway lobsters, Scottish coastal current, Minch, Scotland, west coast, Hebrides  
**Notes:** a. held at most marine biological libraries  
b. free  
c. 4  
d. ICES sub-area VIa

**Reference Type:** Journal Article  
**Record Number:** 151
Record Number: 88
Author: Hutchinson, WF; Carvalho, GR; Rogers, SI
Year: 2001
Title: Marked genetic structuring in localised spawning populations of cod Gadus morhua in the North Sea and adjoining waters, as revealed by microsatellites
Journal: Marine Ecology Progress Series
Volume: 223
Pages: 251-260
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Report
Record Number: 75
Author: ICES
Year: 1998
Title: Report of the ICES Advisory Committee on Fishery Management 1997, Part 1
City: Copenhagen
Report Number: 223
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 89
Author: Jenkins, SR; Beukers-Stewart, BD; Brand, AR
Year: 2001
Title: Impact of scallop dredging on benthic megafauna: a comparison of damage levels in captured and non-captured organisms
Journal: Marine Ecology Progress Series
Volume: 215
Pages: 297-301
Keywords: Pecten maximus, dredging, bycatch
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 247
Author: Joenoes, V. G. R.
Year: 1961
Title: Über die Biologie und fischereiliche Bedeutung der Lengfische (Molva molva L., Molva byrkelaye Walb.) und des Lumb (Brosimus brosme Asc.)
Journal: Bericht der Deutschen wissenschaftlichen Kommission fur Meeresforschung
Volume: 16
Issue: 2
Pages: 129-160
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 248  
**Author:** Kawaguchi, K.; Mauchline, J.  
**Year:** 1982  
**Title:** Biology of myctophid fishes (family Myctophidae) in the Rockall Trough, northeastern Atlantic Ocean  
**Journal:** Biological Oceanography  
**Volume:** 1  
**Issue:** 4  
**Pages:** 337-373  
**Notes:** a. Held at most marine laboratory libraries  
 b. Free  
 c. 3  
 d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 249  
**Author:** Kawaguchi, K.; Mauchline, J.  
**Year:** 1987  
**Title:** Biology of the sternoptychid fishes Rockall Trough, northeastern Atlantic Ocean  
**Journal:** Biological Oceanography  
**Volume:** 4  
**Issue:**  
**Pages:** 99-120  
**Notes:** a. Held at most marine laboratory libraries  
 b. Free  
 c. 3  
 d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 250  
**Author:** Kelly, C. J.; Connolly, P. L.; Bracken, J. J.  
**Year:** 1996  
**Title:** Maturity, oocyte dynamics and fecundity of the roundnose grenadier from the Rockall Trough  
**Journal:** Journal of Fish Biology  
**Volume:** 49 Supplement A  
**Pages:** 5-17  
**Notes:** a. Held at most marine laboratory libraries  
 b. Free  
 c. 4  
 d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 251  
**Author:** Kelly, C. J.; Connolly, P. L.; Bracken, J. J.  
**Year:** 1997  
**Title:** Age estimation, growth, maturity and distribution of the roundnose grenadier from the Rockall trough  
**Journal:** Journal of Fish Biology  
**Volume:** 50  
**Pages:** 17pp
Reference Type: Journal Article
Record Number: 252
Author: Kelly, C. J.; Connolly, P. L.; Clarke, M. W.
Year: 1998
Title: The deep water fisheries of the Rockall trough; some insights gleaned from Irish survey data
Journal: ICES CM
Volume: 1998/O:40
Pages: 22pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 253
Author: Kelly, C. J.; Connolly, P. L.; Bracken, J. J.
Year: 1999
Title: Age estimation, growth, maturity, and distribution of the bluemouth rockfish Helicolenus d. dactylopterus (Delaroche 1809) from the Rockall Trough
Journal: ICES Journal of Marine Science
Volume: 56
Pages: 61-74
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Conference Proceedings
Record Number: 152
Author: Kislalioglu, M.; Gibson, R. N.
Year of Conference: 1975
Title: Field and laboratory observations on prey-size selection in Spinachia spinachia (L.)
Conference Name: Proceedings of the 9th European Marine Biological Symposium
Pages: 29-41
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 153
Author: Kislalioglu, M.; Gibson, R. N.
Year: 1976
Title: Some factors governing prey selection by the 15-spined stickleback, Spinachia spinachia (L.)
Journal: Journal of Experimental Marine Biology and Ecology
Volume: 25
Pages: 159-169
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 154
Author: Kislalioglu, M.; Gibson, R. N.
Year: 1977
Title: The feeding relationships of shallow water fishes in a Scottish sea loch
Journal: Journal of Fish Biology
Volume: 11
Pages: 257-266
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 44
Author: Koop, JH; Gibson, RN
Year: 1991
Title: Distribution and movements of intertidal butterfish Pholis gunnellus
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 71
Pages: 127-136
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 254
Author: Koslow, J. A.; Boehlert, G. W.; Gordon, J. D. M.; Haedrich, R. L.; Lorance, P.; Parin, N.
Year: 2000
Title: Continental slope and deep-sea fisheries: implications for a fragile ecosystem
Journal: ICES Journal of Marine Science
Volume: 57
Pages: 548-557
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 155
Author: Kunzlik, P. A.
Year: 1988
Title: The Basking shark
Journal: Scottish Fisheries Information Pamphlet
Volume: no.14
Pages: 20pp
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 156  
Author: Langham, N. P. E.  
Year: 1969  
Title: The west coast sprat fishery  
Journal: Scottish Fishery Bulletin  
Volume: 32  
Pages: 19-21  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 157  
Author: Langham, N. P. E.  
Year: 1971  
Title: The distribution and abundance of larval sand-eels (Ammodytidae) in Scottish waters  
Journal: Journal of the Marine Biological Association of the United Kingdom  
Volume: 51  
Pages: 697-707  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 255  
Author: Large, P. A.; Hammer, C.; Bergstad, O. A.; Gordon, J. D. M.; Lorance, P.  
Year: 2001  
Title: Options for the assessment and management of deep-water species in the I.C.E.S. area  
Journal: NAFO SCR Doc.  
Volume: 01/93  
Issue: N4481  
Pages: 16pp  
Notes: a. www.nafo.ca  
b. Free  
c. 4  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 158  
Author: Little, W.  
Year: 1997  
Title: Common skate in the Sound of Mull  
Journal: Glaucus  
Volume: 8
Reference Type: Journal Article
Record Number: 256
Author: Lorance, P.
Year: 1998
Title: Structure du peuplement ichthyologique du talus continental à l'ouest des îles Britanniques et impact de la pêche
Journal: Cybium
Volume: 22
Pages: 309-331
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 257
Author: Lorance, P.; Dupouy, H.
Year: 2001
Title: CPUE abundance indices of the main target species of the French deep-water fishery in ICES Sub-areas V-VII
Journal: Fisheries Research
Volume: 51
Pages: 137-149
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 258
Author: Lorance, P.; Dupouy, H.; Allain, V.
Year: 2001
Title: Assessment of the roundnose grenadier (Coryphaenoides rupestris) stock in the Rockall Trough and neighbouring areas (ICES Sub-areas V-VII)
Journal: Fisheries Research
Volume: 51
Pages: 151-163
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 259
Author: Lorance, P.; Garren, F.; Vigneau, J.
Year: 2001
Title: Age estimation of the Roundnose Grenadier (Coryphaenoides rupestris), effects of uncertainties on ages
Journal: NAFO SCR Doc.
Volume: 01/123
Issue: N4511
Pages: 15pp
Notes: a. www.nafo.ca
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 91
Author: Mackay, DW; Doughty, CR
Year: 1986
Title: Migratory salmonids of the estuary and Firth of Clyde
Journal: Proceedings of the Royal Society of Edinburgh Section B - Biological Sciences
Volume: 90
Pages: 479-490
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 74
Author: Mackenzie, K.
Year: 1985
Title: The Use of Parasites as Biological Tags in Population Studies of Herring (Clupea harengus L) in the North-Sea and to the North and West of Scotland
Journal: Journal Du Conseil
Volume: 42
Issue: 1
Pages: 33-64
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 61
Author: MacKenzie, K.; Longshaw, M.; Begg, G. S.; McVicar, A. H.
Year: 1998
Title: Sea lice (Copepoda : Caligidae) on wild sea trout (Salmo trutta L.) in Scotland
Journal: ICES Journal of Marine Science
Volume: 55
Pages: 151-162
Keywords: sea trout, lice, Lepeophtheirus salmonis, Atlantic Salmon, Ireland
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article  
Record Number:  
Author: Magill, SH; Sayer, MDJ  
Year: 2002  
Title: Seasonal and interannual variation in fish assemblages of northern temperate rocky subtidal habitats.  
Journal: Journal of Fish Biology  
Volume: In Press  
Pages:  
Notes: a. held at most marine biological libraries  
b. free  
c. 4  
d. ICES sub-area VIa

Reference Type: Journal Article  
Record Number: 92  
Author: Magorrian, BH; Service, M; Clarke, W  
Year: 1995  
Title: An acoustic bottom classification survey of Strangford Lough Northern Ireland  
Journal: Journal of the Marine Biological Association of the United Kingdom  
Volume: 75  
Pages: 987-992  
Notes: a. held at most marine biological libraries  
b. free  
c. 4  
d. ICES sub-area VIa

Reference Type: Journal Article  
Record Number: 93  
Author: Mason, J; Shelton, RGJ; Drinkwater, J; Howard, FG  
Year: 1983  
Title: Shellfish resources of the Inner Hebrides  
Journal: Proceedings of the Royal Society of Edinburgh Section B - Biological Sciences  
Volume: 83  
Pages: 599-610  
Notes: a. held at most marine biological libraries  
b. free  
c. 4  
d. ICES sub-area VIa

Reference Type: Journal Article  
Record Number: 94  
Author: Mathieson, S; McLusky, DS  
Year: 1995  
Title: Interspecies variation of mercury in skeletal muscle of five fish species from inshore waters of the Firth of Clyde, Scotland  
Journal: Marine Pollution Bulletin  
Volume: 30  
Pages: 283-286  
Notes: a. held at most marine biological libraries  
b. free
Reference Type: Journal Article
Record Number: 260
Author: Mauchline, J.; Gordon, J. D. M.
Year: 1980
Title: The food and feeding of the deep-sea morid fish *Lepidion eques* (Gunther 1887) in the Rockall Trough
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 60
Pages: 1053-1059
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 261
Author: Mauchline, J.
Year: 1983
Title: The pelagic fish of the Rockall Trough- their occurrence and diets
Journal: SMBA Internal Report
Volume: 102
Pages: 89pp
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 262
Author: Mauchline, J.; Gordon, J. D. M.
Year: 1983
Title: Diets of clupeoid, stomioid and salmonoid fish of the Rockall Trough, northeastern Atlantic Ocean
Journal: Marine Biology
Volume: 77
Pages: 67-78
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 263
Author: Mauchline, J.; Gordon, J. D. M.
Year: 1983
Title: Diets of the sharks and chimaeroids of the Rockall Trough, northeastern Atlantic Ocean
Journal: Marine Biology
Volume: 75
Pages: 269-278
Notes: a. Held at most marine laboratory libraries
Reference Type: Journal Article  
Record Number: 264  
Author: Mauchline, J.; Gordon, J. D. M.  
Year: 1984  
Title: Feeding and bathymetric distribution of the gadoid and morid fish of the Rockall Trough  
Journal: Journal of the Marine Biological Association of the United Kingdom  
Volume: 64  
Pages: 657-665  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 265  
Author: Mauchline, J.; Gordon, J. D. M.  
Year: 1984  
Title: Diets and bathymetric distributions of the macrourid fish of the Rockall Trough, northeastern Atlantic Ocean  
Journal: Marine Biology  
Volume: 81  
Pages: 107-121  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 266  
Author: Mauchline, J.; Gordon, J. D. M.  
Year: 1984  
Title: Occurrence and feeding of berycomorphid and percomorphid teleost fish in the Rockall Trough  
Journal: Journal du Conseil  
Volume: 41  
Pages: 239-247  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 267  
Author: Mauchline, J.; Gordon, J. D. M.  
Year: 1984  
Title: Incidence of parasitic worms in stomachs of pelagic and demersal fish of the Rockall Trough, northeastern Atlantic Ocean  
Journal: Journal of Fish Biology  
Volume: 24
**Reference Type**: Journal Article  
**Record Number**: 268  
**Author**: Mauchline, J.; Gordon, J. D. M.  
**Year**: 1984  
**Title**: Occurrence of stones sediment and fish scales in stomach contents of demersal fish of the Rockall Trough  
**Journal**: Journal of Fish Biology  
**Volume**: 24  
**Pages**: 357-362  
**Notes**:  
a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

**Reference Type**: Journal Article  
**Record Number**: 269  
**Author**: Mauchline, J.; Gordon, J. D. M.  
**Year**: 1985  
**Title**: Trophic diversity in deep-sea fish  
**Journal**: Journal of Fish Biology  
**Volume**: 26  
**Pages**: 527-535  
**Notes**:  
a. Held at most marine laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI

**Reference Type**: Journal Article  
**Record Number**: 270  
**Author**: Mauchline, J.  
**Year**: 1986  
**Title**: What constitutes an open ocean population?  
**Journal**: Unesco technical papers in marine science  
**Volume**: 49  
**Pages**: 186-190  
**Notes**:  
a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

**Reference Type**: Journal Article  
**Record Number**: 271  
**Author**: Mauchline, J.; Ellett, D. J.; Gage, J. D.; Gordon, J. D. M.; Jones, E. J. W.  
**Year**: 1986  
**Title**: A bibliography of the Rockall Trough  
**Journal**: Proceedings of the Royal Society of Edinburgh
Reference Type: Journal Article
Record Number: 272
Author: Mauchline, J.; Gordon, J. D. M.
Year: 1986
Title: Foraging strategies of deep-sea fish
Journal: Marine Ecology Progress Series
Volume: 27
Pages: 227-238
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 273
Author: Mauchline, J.
Year: 1988
Title: Growth and breeding of meso- and bathypelagic organisms of the Rockall Trough, northeastern Atlantic Ocean and evidence of seasonality
Journal: Marine Biology
Volume: 98
Pages: 387-393
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 274
Author: Mauchline, J.; Gordon, J. D. M.
Year: 1991
Title: Oceanic pelagic prey of benthopelagic fish in the benthic boundary layer of a marginal oceanic region
Journal: Marine Ecology Progress Series
Volume: 74
Pages: 109-115
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 275
Author: Merrett, N. R.; Wheeler, A.
Year: 1983
Title: The correct identification of two trachichthyid fishes (Pisces, Berycomorphi) from the slope fauna west of Britain, with notes on the abundance and commercial importance of Hoplostethus atlanticus

Journal: Journal of Natural History
Volume: 17
Pages: 569-573
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 276
Author: Merrett, N. R.
Year: 1986
Title: Macrouridae of the eastern North Atlantic
Journal: ICES Fiches d'Identification du Plancton
Volume: 173/174/175
Pages: 14pp
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 277
Author: Merrett, N. R.; Badcock, J.; Ehrich, S.; Hulley, P. A.
Year: 1986
Title: Preliminary observations on the near-bottom ichthyofauna of the Rockall Trough: a contemporaneous investigation using commercial-sized midwater and demersal trawls to 100m depth
Journal: Proceedings of the Royal Society of Edinburgh
Volume: 88B
Pages: 312-314
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 278
Author: Merrett, N. R.
Year: 1994
Title: Reproduction in the North Atlantic oceanic ichthyofauna and the relationship between fecundity and species' sizes
Journal: Environmental Biology of Fishes
Volume: 41
Pages: 207-245
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 17
Author: Miller, PJ
Year: 1969
Title: Systematics and biology of the leopard-spotted goby, *Gobius ephippiatus* (Teleostei: Gobiidae), with a description of a genus and note on the identity of *G. macrolepis* Kolomatovic
Journal: Journal of the Marine Biological Association of the United Kingdom
Volume: 49
Pages: 831-855
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 16
Author: Miller, PJ; Rice, AL; Johnstone, ADF
Year: 1973
Title: A western Scottish population of the leopard-spotted goby *Thorogobius ephippiatus* (Lowe) (Teleostei: Gobiidae)
Journal: Journal of Fish Biology
Volume: 5
Pages: 233-239
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 279
Author: Minchin, D.; Isaev, N. A.
Year: 1989
Title: Some fishes associated with blue whiting on the 1989 cruise of the R.V. ‘Professor Marti’
Journal: ICES CM
Volume: 1989/H:47
Pages: 10pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 280
Author: Moller, P. R.
Year: 1997
Title: Identity of the Atlantic eelpouts *Lycodes terraenovae* Collett, 1896, *L. atlanticus* Jensen, 1902 and *L. agulhensis* Andriashev, 1959 (Pisces: Zoarcidae)
Journal: Steenstrupia
Volume: 22
Pages: 45-58pp
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI
Reference Type: Journal Article  
Record Number: 281  
Author: Monstad, T.; Johannessen, A.  
Year: 2001  
Title: Acoustic recordings of greater silver smelt (*Argentina silus*) in Norwegian waters and west of the British Isles, 1989-1994  
Journal: NAFO SCR Doc.  
Volume: 01/112  
Issue: N4500  
Pages: 17pp  
Notes:  
a. www.nafo.ca  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 282  
Author: Morales-Nin, B; Canha, A.; Casas, M.; Figueiredo, I.; Gordo, L. S.; Gordon, J. D. M.; Gouveia, E.; Pineiro, C. G.; Reis, S.; Reis, A.; Swan, S. C.  
Year: 2002  
Title: Intercalibration of age readings of deepwater black scabbardfish, *Aphanopus carbo* (Lowe, 1839)  
Journal: ICES Journal of Marine Science  
Volume: 59  
Pages: 352-364  
Notes:  
a. Held at most marine laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 283  
Author: Mormede, S.; Davies, I. M.  
Year: 2000  
Title: Polychlorobiphenyl and pesticide residues in monkfish and black scabbard from the Rockall Trough  
Journal: ICES Cooperative Research Report  
Volume: 240  
Pages: 19-20  
Notes:  
a. Held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI

Reference Type: Journal Article  
Record Number: 55  
Author: Mormede, S.; Davies, I. M.  
Year: 2001  
Title: Polychlorobiphenyl and pesticide residues in monkfish *Lophius piscatorius* and black scabbard *Aphanopus carbo* from the Rockall Trough  
Journal: ICES Journal of Marine Science  
Volume: 58  
Pages: 725-736
Keywords: deep-sea fish, metabolism, PCB, pesticides
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VI

Reference Type: Journal Article
Record Number: 284
Author: Mormede, S.; Davies, I. M.
Year: 2001
Title: Trace elements in deep-water fish species from the Rockall Trough
Journal: Fisheries Research
Volume: 51
Pages: 197-206
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 285
Author: Mormede, S.; Davies, I. M.
Year: 2001
Title: Heavy metal concentrations in commercial deep-sea fish from the Rockall Trough
Journal: Continental Shelf Research
Volume: 21
Pages: 899-916
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 14
Author: Nash, RDM; Gibson, RN
Year: 1982
Title: Seasonal fluctuations and compositions of two populations small demersal fishes on the west coast of Scotland
Journal: Estuarine, Coastal and Shelf Science
Volume: 15
Pages: 485-495
Keywords: Firth of Clyde, Scotland coast
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 95
Author: Nash, RDM
Year: 1982
Title: The biology of Fries goby *Lesueurigobius friesii* (Malm), in the Firth of Clyde, Scotland, and a comparison with other stocks  
Journal: Journal of Fish Biology  
Volume: 21  
Pages: 69-85  
Notes: a. held at most marine biological libraries  
b. free  
c. 3  
d. ICES sub-area VIa  

Reference Type: Journal Article  
Record Number: 160  
Author: Nash, R. D. M.; Witthames, P. R.; Pawson, M.; Alesworth, E.  
Year: 2000  
Title: Regional variability in the dynamics of reproduction and growth of Irish Sea plaice, *Pleuronectes platessa* L.  
Journal: Journal of Sea Research  
Volume: 44  
Pages: 55-64  
Notes: a. Held at most marine laboratory libraries  
b. Free  
c. 4  
d. ICES Sub-area VI  

Reference Type: Journal Article  
Record Number: 13  
Author: Nickell, L A; Sayer, M D J  
Year: 1998  
Title: Occurrence and activity of mobile macrofauna on a sublittoral reef: diel and seasonal variation  
Journal: Journal of the Marine Biological Association (UK)  
Volume: 78  
Pages: 1061-1082  
Notes: a. held at most marine biological libraries  
b. free  
c. 3  
d. ICES sub-area VIa  

Reference Type: Journal Article  
Record Number: 287  
Author: Nielsen, J. G.; Hureau, J. C.  
Year: 1980  
Title: Revision of the ophidiid genus *Spectrunculus* Jordan & Thompson, 1914, a senior synonym of *Parabassogigas* Nybelin, 1957 (Pisces, Ophidiiformes)  
Journal: Steenstrupia  
Volume: 6  
Pages: 149-169  
Notes: a. held at most marine laboratory libraries  
b. Free  
c. 3  
d. ICES Sub-area VI  

Reference Type: Journal Article
Record Number: 48
Author: Patterson, KR
Year: 1998
Title: Assessing fish stocks when catches are misreported: model, simulation tests, and application to cod, haddock, and whiting in the ICES area
Journal: ICES Journal of Marine Science
Volume: 55
Pages: 878-891
Keywords: stock assement, cod, haddock, whiting
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 288
Author: Pemberton, R.
Year: 1976
Title: Sea trout in North Argyll Sea lochs, population, distribution and movements
Journal: Journal of Fish Biology
Volume: 9
Pages: 157-179
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 289
Author: Pemberton, R.
Year: 1976
Title: Sea trout in North Argyll sea lochs: II.diet
Journal: Journal of Fish Biology
Volume: 9
Pages: 195-208
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 96
Author: Pierce, GJ; Boyle, PR; Hastie, LC; Shanks, AM
Year: 1994
Title: Distribution and abundance of the fished populations of Loligo forbesi in UK waters - analysis of fishery data
Journal: Fisheries Research
Volume: 21
Pages: 193-216
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VI
**Reference Type:** Journal Article  
**Record Number:** 32  
**Author:** Poxton, MG; Eleftheriou, A; McIntyre, AD  
**Year:** 1983  
**Title:** The food and growth of 0-group flatfish on nursery grounds in the Clyde Sea area  
**Journal:** Estuarine, Coastal and Shelf Science  
**Volume:** 17  
**Pages:** 319-337  
**Notes:**  
- a. held at most marine biological libraries  
- b. free  
- c. 3  
- d. ICES sub-area VIa  

**Reference Type:** Journal Article  
**Record Number:** 161  
**Author:** Raitt, D. F. S.; Mason, J.  
**Year:** 1968  
**Title:** The distribution of Norway Pout in the North sea and adjacent waters  
**Journal:** Marine Research  
**Volume:** 1968(4)  
**Pages:** 19pp  
**Notes:**  
- a. Held at most marine laboratory libraries  
- b. Free  
- c. 3  
- d. ICES Sub-area VI  

**Reference Type:** Journal Article  
**Record Number:** 290  
**Author:** Raitt, D. F. S.  
**Year:** 1968  
**Title:** Synopsis of biological data on the blue whiting *Micromesistius poutassou* (Risso,1810)  
**Journal:** FAO Fisheries Synopsis  
**Volume:** No34 Rev.1  
**Notes:**  
- a. Held at most marine laboratory libraries  
- b. Free  
- c. 3  
- d. ICES Sub-area VI  

**Reference Type:** Journal Article  
**Record Number:** 97  
**Author:** Rankine, PW; Cargill, LH; Morrison, JA  
**Year:** 1990  
**Title:** Variation in hatching length of spring spawned larvae (*Clupea harengus* L) on Ballantrae Bank on the Firth of Clyde  
**Journal:** Journal du Conseil  
**Volume:** 46  
**Pages:** 333-339  
**Notes:**  
- a. held at most marine biological libraries  
- b. free  
- c. 3  
- d. ICES sub-area VIa
**Reference Type:** Journal Article  
**Record Number:** 291  
**Author:** Ratz, H. J.  
**Year:** 1984  
**Title:** Qualitative und quantitative Untersuchungen der Ichthyozönose in der archibenthischen Zone des Rockall-Grabens und umliegender Bänke (Westbritische Gewässer)  
**Journal:** Mitteilungen aus dem Institut für Seefischerei  
**Volume:** No 34  
**Pages:** 152 pp  
**Notes:** a. Held at most marine laboratory libraries  
  b. Free  
  c. 3  
  d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 292  
**Author:** Reinsch, H. H.  
**Year:** 1981  
**Title:** Untersuchungen am Blauleng, Molva dypterygia  
**Journal:** Informationen für die Fischwirtschaft  
**Volume:** 28  
**Pages:** 123-127  
**Notes:** a. Held at most marine laboratory libraries  
  b. Free  
  c. 3  
  d. ICES Sub-area VI

**Reference Type:** Journal Article  
**Record Number:** 98  
**Author:** Richardson, CA; Taylor, AC; Venn, TJ  
**Year:** 1982  
**Title:** Growth of the queen scallop Chlamys opercularis in suspended cages in the Firth of Clyde  
**Journal:** Journal of the Marine Biological Association of the United Kingdom  
**Volume:** 62  
**Pages:** 157-169  
**Notes:** a. held at most marine biological libraries  
  b. free  
  c. 3  
  d. ICES sub-area VIa

**Reference Type:** Journal Article  
**Record Number:** 99  
**Author:** Roberts, JM; Harvey, SM; Lamont, PA; Gage, JD  
**Year:** 2000  
**Title:** Seabed photography, environmental assessment and evidence for deep-water trawling on the continental margin west of the Hebrides  
**Journal:** Hydrobiologia  
**Volume:** 441  
**Pages:** 173-183  
**Notes:** a. held at most marine biological libraries  
  b. free
Reference Type: Journal Article
Record Number: 293
Author: Sahrhage, D.
Year: 1988
Title: Commercially important grenadiers of the North Atlantic
Journal: Canadian Translations Fisheries and Aquatic Sciences
Volume: no. 5376
Pages: 91
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 8
Author: Sarno, B; Glass, CW; Smith, GW
Year: 1994
Title: Differences in diet and behaviour of sympatric saithe and pollack in a Scottish sea loch
Journal: Journal of Fish Biology
Volume: 45
Issue: Supplement A
Pages: 1-11
Keywords: gadoids, movements, feeding, ecology
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 164
Author: Sarno, B.; Glass, C. W.; Smith, G. W.; Johnstone, A. D. F.; Mojsiewicz, W. R.
Year: 1994
Title: A comparison of the movements of two species of gadoid in the vicinity of an underwater reef
Journal: Journal of Fish Biology
Volume: 45
Pages: 811-817
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 7
Author: Sayer, M D J; Gibson, R N; Atkinson, R J A
Year: 1993
Title: Distribution and density of populations of goldsinny wrasse (Ctenolabrus rupestris) on the west coast of Scotland
Journal: Journal of Fish Biology
Volume: 43 (Suppl A)
Fish species found in the rocky sublittoral during winter months as revealed by the underwater application of the anaesthetic quinaldine

**Title:** Fish species found in the rocky sublittoral during winter months as revealed by the underwater application of the anaesthetic quinaldine

**Journal:** Journal of Fish Biology

**Volume:** 44

**Issue:** 2

**Pages:** 351-353

**Keywords:** rocky subtidal, Scotland

**Notes:** a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

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Growth, diet and condition of goldsinny on the west coast of Scotland

**Title:** Growth, diet and condition of goldsinny on the west coast of Scotland

**Journal:** Journal of Fish Biology

**Volume:** 46

**Pages:** 317-340

**Keywords:** *Ctenolabrus rupestris*

**Notes:** a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

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Seasonal, sexual and geographical variation in the biology of goldsinny (*Ctenolabrus rupestris*), rock cook (*Centrolabrus exoletus*) and corkwing (*Crenilabrus melops*) wrasse on the west coast of Scotland

**Title:** Seasonal, sexual and geographical variation in the biology of goldsinny (*Ctenolabrus rupestris*), rock cook (*Centrolabrus exoletus*) and corkwing (*Crenilabrus melops*) wrasse on the west coast of Scotland

**Editor:** Sayer, MDJ; Treasurer, JW; Costello, MJ

**Book Title:** Wrasse: Biology and use in Aquaculture

**City:** Oxford

**Publisher:** Blackwell Scientific

**Notes:** a. available from most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa
Reference Type: Journal Article
Record Number: 4
Author: Sayer, M D J; Gibson, R N; Atkinson, R J A
Year: 1996
Title: Growth, diet and condition of corkwing wrasse and rock cook on the west coast of Scotland
Journal: Journal of Fish Biology
Volume: 49
Pages: 76-94
Keywords: Crenilabrus melops, Centrolabrus exoletus; growth; diet gonadosomatic index; hepatosomatic index
Notes: a. held at most marine biological libraries
b. Free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 294
Author: Schmidt, J.
Year: 1906
Title: On the larval and post-larval development of the argentinies (Argentina silus [Ascan.] and Argentina sphyraena Linne) with some notes on Mallottus villosus
Journal: Meddelelser Komm Hav. Serie Fiskeri
Volume: 2
Pages: 20pp
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 295
Author: Schmidt, J.
Year: 1906
Title: On the pelagic post-larval stages of the lings (Molva molva [Linne] and Molva byrkelange [Walbaum])
Journal: Meddelelser fra Kommissionen for Havundersogelser; Serie: Fiskeri
Volume: Bind II
Issue: Nr 3
Pages: 15pp
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 100
Author: Secombes, CJ; White, A; Fletcher, TC; Stagg, R; Houlihan, DF
Year: 1995
Title: Immune parameters of plaice Pleuronectes platessa, L along a sewage sludge gradient in the Firth of Clyde
Journal: Ecotoxicology
Volume: 4
Pages: 329-340
Keywords: Firth of Clyde, plaice
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 47
Author: Stratoudakis, Y; Fryer, RJ; Pierce, GJ; Cook, RM
Year: 1997
Title: Differences in life history features of long rough dab Hippoglossoides platessoides within Scottish waters
Journal: Marine Ecology Progress Series
Volume: 158
Pages: 303-306
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 69
Author: Stratoudakis, Y.; Gallego, A.; Morrison, J. A.
Year: 1998
Title: Spatial distribution of developmental egg ages within a herring Clupea harengus spawning ground
Journal: Marine Ecology Progress Series
Volume: 174
Pages: 27-32
Keywords: Atlantic herring, spatial distribution
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 49
Author: Stratoudakis, Y; Fryer, RJ; Cook, RM; Pierce, GJ
Year: 1999
Title: Fish discarded from Scottish demersal vessels: Estimators of total discards and annual estimates for targeted gadoids
Journal: ICES Journal of Marine Science
Volume: 56
Pages: 592-605
Keywords: Scotland, discard sampling, gadoids
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 50
Author: Stratoudakis, Y; Fryer, RJ; Cook, RM; Pierce, GJ; Coull, KA
Year: 2001
Title: Fish bycatch and discarding in Nephrops trawlers in the Firth of Clyde
Journal: Aquatic Living Resource
Volume: 14
Pages: 283-291
Keywords: Firth of Clyde, bycatch, fish discards
Notes: a. held at most marine biological libraries
b. free
c. 3
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 296
Author: Swan, S. C.; Gordon, J. D. M.
Year: 2001
Title: A review of age estimation in macrourid fishes with new data on age validation of juveniles
Journal: Fisheries Research
Volume: 51
Pages: 177-195
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 297
Author: Swinney, G. N.; Holmes, M.; Blackadder, J. S.; Pye, S. E.
Year: 1999
Title: A long-finned specimen of Beryx decadactylus caught in the North-eastern Atlantic off Rockall
Journal: Journal of Fish Biology
Volume: 54
Pages: 208-212
Notes: a. Held at most marine laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 1
Author: Treasurer, JW
Year: 1994
Title: The distribution, age and growth of wrasse (Labridae) in inshore water of west Scotland
Journal: Journal of Fish Biology
Volume: 44
Pages: 905-918
Keywords: Labridae, Ctenolabrus rupestris, Centrolabrus exoletus, Crenilabrus melops, Labrus bergylta
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Thesis
Record Number: 79
Author: Tuck, ID
Year: 1993
Title: Nephrops abundance in relation to environmental factors and fishing pressure
University: University of London
Notes: a. University of London
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 101
Author: Tuck, ID; Atkinson, RJA; Bailey, N; Smith, RSM
Year: 1997
Title: A comparison of methods for stock assessment of the Norway lobster, Nephrops norvegicus in the Firth of Clyde.
Journal: Fisheries Research
Volume: 32
Pages: 89-100
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 102
Author: Tuck, ID; Chapman, CJ; Atkinson, RJA
Year: 1997
Title: Population biology of the Norway lobster, Nephrops norvegicus (L) in the Firth of Clyde, Scotland. I. Growth and density
Journal: ICES Journal of Marine Science
Volume: 54
Pages: 125-135
Keywords: trawl survey, stock assessment techniques
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa

Reference Type: Journal Article
Record Number: 103
Author: Tuck, ID; Atkinson, RJA; Chapman, CJ
Year: 2000
Title: Population biology of the Norway lobster, Nephrops norvegicus (L.) in the Firth of Clyde, Scotland. II: fecundity and size at onset of sexual maturity
Journal: ICES Journal of Marine Science
Volume: 57
Pages: 1227-1239
Keywords: Nephrops norvegicus, fecundity
Notes: a. held at most marine biological libraries
b. free
c. 4
d. ICES sub-area VIa
Reference Type: Journal Article
Record Number: 298
Author: Vas, P.; Gordon, J. D. M.
Year: 1988
Title: Trace metal concentrations in the scyliorhinid shark *Galeus melastomus* from the Rockall Trough
Journal: Marine Pollution Bulletin
Volume: 19
Pages: 396-398
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 299
Author: Vas, P.
Year: 1991
Title: Trace metal levels in sharks from British and Atlantic waters
Journal: Marine Pollution Bulletin
Volume: 22
Pages: 67-72
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 300
Author: Vas, P.; Gordon, J. D. M.
Year: 1993
Title: Trace Metals in Deep-sea Sharks from the Rockall Trough
Journal: Marine Pollution Bulletin
Volume: 26
Pages: 400-402
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 301
Author: Vas, P.; Gordon, J. D. M.; Fielden, P. R.; Overnell, J.
Year: 1993
Title: The trace metal ecology of ichthyofauna in the Rockall Trough, north-eastern Atlantic
Journal: Marine Pollution Bulletin
Volume: 26
Pages: 607-612
Notes: a. Held at most marine laboratory libraries
b. Free
c. 4
d. ICES Sub-area VI
Reference Type: Journal Article
Record Number: 165
Author: Walsh, M.
Year: 1976
Title: Mackerel spawning to the west of the British Isles
Journal: ICES CM
Volume: 1976/H:33
Pages: 10
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 166
Author: Walsh, M.; Martin, J. H. A.
Year: 1986
Title: Recent changes in the distribution and migrations of the western mackerel stock in elation to hydrographic changes
Journal: ICES CM
Volume: 1986/H:17
Pages: 7pp
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Journal Article
Record Number: 167
Author: Warburton, K.; Hutcheon, J. R.
Year: 1980
Title: The abundance, density distribution and population structure of blue whiting to the West of Britain during April 1980
Journal: ICES CM
Volume: 1980/H:42
Pages: 6
Notes: a. Held at most fishery laboratory libraries
b. Free
c. 3
d. ICES Sub-area VI

Reference Type: Book
Record Number: 168
Author: Wheeler, A.
Year: 1969
Title: The Fishes of the British Isles and North-West Europe
City: Macmillan
Publisher: London
Number of Pages: 613pp
Notes: a. Held at most marine laboratory libraries
b. Free