

DTI STRATEGIC ENVIRONMENTAL ASSESSMENT AREA 8 (SEA8)

Benthos

Compiled by: Carolyn Voisey

Assisted by: Deborah Tyrrell

Other Contributors: Dr. Keith Hiscock¹

¹The Marine Biological Association of the UK
Plymouth

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Acknowledgements

In addition to the authors, many scientists and workers in the marine industry contributed references to the database and their contributions are gratefully acknowledged.

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1 Introduction

This report describes work commissioned by the Department of Trade and Industry (DTI) to prepare an inventory of benthos metadata for the Strategic Environmental Assessment area 8 (SEA8) in terms of data type, location, quality and availability.

The SEA8 region lies between 48° and 52°N, 2°E and 10°W and is presented in Figure 1. The area includes the DTI UK Continental Shelf Designated Area from Dover through the English Channel to the edge of the continental shelf in the Celtic Sea; the southern Irish Sea south of Milford Haven; and the Bristol Channel.

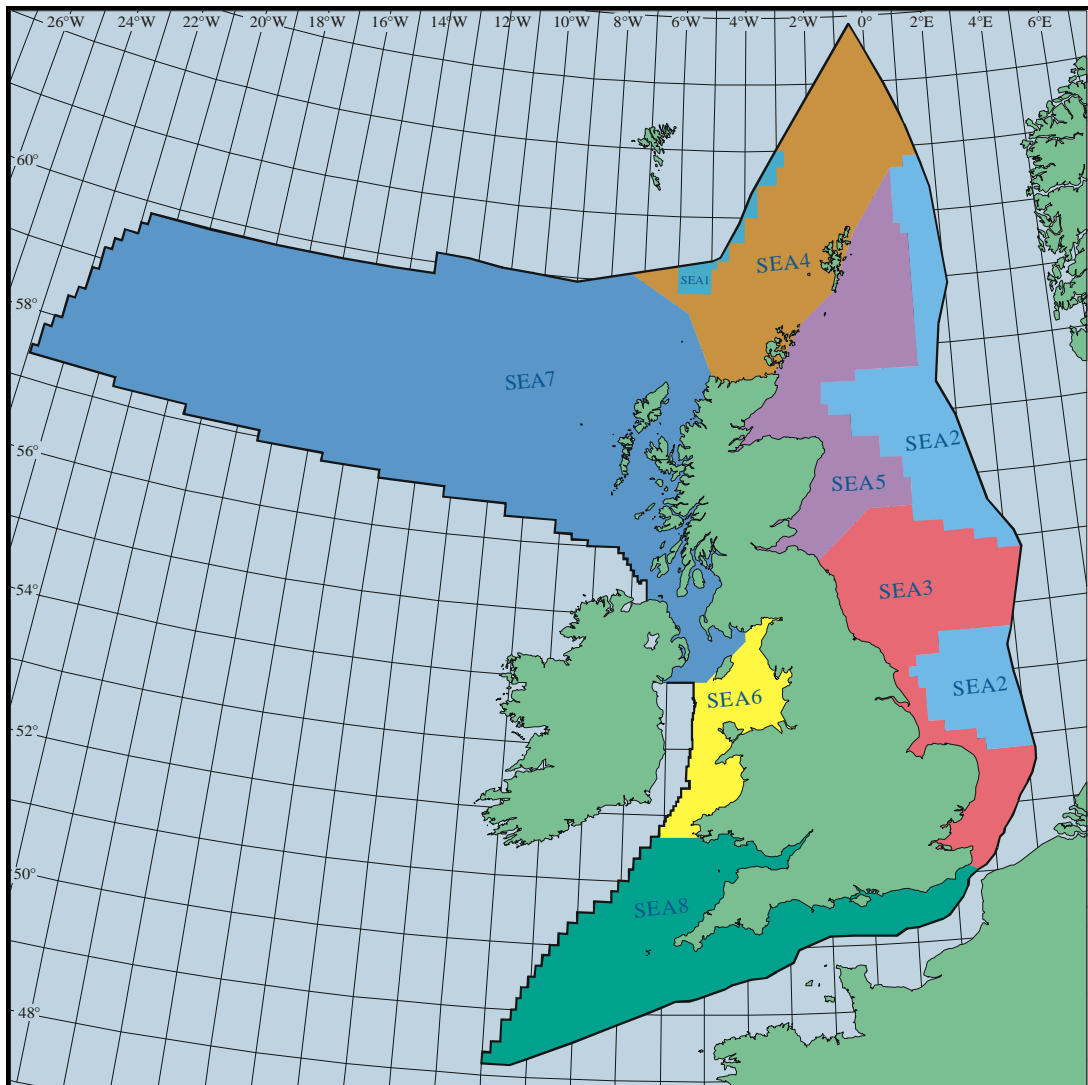


Figure 1 Strategic Environmental Assessment Areas

In accordance with the scope of work the report includes:

- A description of the study area with a synopsis of the benthic communities and distribution;
- A listing of international, national and local organisations and contacts who are active in the subject area or hold information and associated initiatives and data sets.
- The meta-data inventory, comprising a comprehensive list of references and other sources of information including:
 - i. whether published (white and grey), unpublished, public domain, private etc.
 - ii. notes and graphics showing spatial and temporal extent;
 - iii. format (book chapter, paper, dataset etc);
 - iv. location;
 - v. accessibility.

The main body of the inventory was compiled in June 2003. The database has been produced in an Endnote® database which contains 934 entries and is provided on compact disk in Appendix 2.

2 Description of the Study Area

2.1 Introduction

One of the most recent and comprehensive accounts reviewing the current knowledge of benthic marine ecosystems of Great Britain and the north-east Atlantic is detailed in a series of reports prepared by the Marine Nature Conservation Review (MNCR) team in 1991. The following synopsis has been drawn from a report by Keith Hiscock in 1998 entitled “Marine Nature Conservation Review. Benthic marine ecosystems of Great Britain and the north-east Atlantic, Chapter 1 - Introduction and Atlantic-European perspective”.

2.2 The English Channel

Few studies extend to the offshore areas of the English Channel. The most detailed undertaken is that of Holme (1961, 1966) who sampled 311 stations by anchor dredge throughout the Channel. Holme identified seven animal communities, described their

distribution and recognised a number of faunistic boundaries in the Channel including separation of the Channel Isles fauna from that of the English side of the Channel and of abrupt boundaries associated with headlands, particularly Start Point, St Alban's Head and the Cotentin Peninsula with the main faunistic boundary identified with the boundary between the summer-stratified waters of the western Channel with the unstratified waters of the eastern Channel. Offshore areas of the English Channel were further investigated using towed video and still cameras by Holme & Wilson (1985). The area studied, about 37km south of the Dorset coast, was predominantly of hard substrata often with transitory sand cover.

Marked biogeographic changes occur between the eastern and western ends of the English Channel, illustrated from large-scale surveys of common shore species (Crisp & Southward 1958) and of benthic communities (Holme 1961, 1966; Cabioch et al. 1977). Changes in physical conditions along the Channel, most notably temperature and substratum, give rise to a boundary in the Solent/Isle of Wight area where many littoral and sublittoral species with a southern distribution reach their eastern limit

2.3 The Eastern English Channel

The coastline of the eastern English Channel is predominantly of rock or shingle. Extensive intertidal chalk platforms occur to the east of the coastal sector dominated by algae or scoured by mobile flints and other substrata. The lower parts of these shores and adjacent subtidal areas are colonised by species boring into the rocks especially the worm *Polydora ciliata*, *piddocks* and *phoronid* worms. Algae extend to a few metres below low water level below which rocks are colonised by sponges, erect bryozoans and ascidians. Intertidal sediments are rare and sublittoral sediment communities are poorly recorded on this part of the coastline. Extensive areas of pebbles and cobbles occur in tide-swept areas off the coast often consolidated by the tube-building worm *Sabellaria spinulosa* and the ascidian *Dendrodoa grossularia* and providing a substratum for a wide variety of epifauna species. To the west of Selsey Bill, the Solent system which includes the Southampton Water and several smaller estuaries which feed into it as well as extensive shallow harbours of Langstone, Chichester and Portsmouth has a wide range of estuarine habitats. Several lagoons also occur along this coastline including ones harbouring rare species. The Solent area has been colonised by a large number of non-native species which constitute a significant proportion of the communities present in some areas. West of the Solent, Christchurch Harbour has a restricted range of

brackish communities whilst Poole Harbour has extensive sediment flats colonised by high biomass but low diversity communities with tidal channels colonised by extensive featherduster worm *Sabella pavonina* colonies with associated species.

2.4 The Western English Channel

The coastline from Durlston Head in Dorset to Cape Cornwall and the Isles of Scilly includes habitats which range from those in the extreme shelter of many inlets to the most severely exposed to wave action in south-west Britain. The Fleet, which lies behind Chesil Beach in Dorset, is the largest lagoon in England and Wales. Estuarine habitats are especially well developed in some of the marine inlets, especially the Tamar and Exe estuaries whilst those typical of wave-sheltered coasts but where full salinity prevails are found on the outer parts of flooded river valleys or ria inlets such as Salcombe Harbour, parts of Plymouth Sound, the Fal and Helford. The Fal is especially notable for the presence of a well-developed and extensive bed of maerl, *Phymatolithon calcareum*. Most of the open coast is rocky but extensive sediment areas occur in the Isles of Scilly and hold rich intertidal communities and extensive beds of sea grass *Zostera marina*. Rocky intertidal and subtidal communities include many southern species in a wide range of habitats.

2.5 The Bristol Channel and approaches

The coastline of the Bristol Channel and its approaches includes a great variety of different habitats and associated communities. These range from the distinctive biota of sandy surf beaches and nearshore areas in North Cornwall and the west coast of North Devon, through communities characteristic of the turbid waters, strong tidal streams and low salinity of the Bristol Channel and the Severn Estuary then northwards past the rocky coasts and offshore islands of Pembrokeshire characterised by open coast communities. Local features which result in the development of particular assemblages of species include the limestone rocks of the Gower which attract species boring into the rock, the extensive rocky habitats in Milford Haven and the Daugleddau with species and communities characteristic of ria conditions. Some of the communities of offshore islands are especially rich in species including rare species or ones at the northern limits of their distribution.

2.6 The Celtic Sea

The Celtic Sea is the area to the south of Ireland and west of Cornwall in south-west England. The most extensive published survey of the benthic fauna of the Celtic Sea is that undertaken in 1974 and 1975 by the Field Studies Council Oil Pollution Research Unit (Hartley & Dicks 1977; Hartley 1979). The fauna at most sites was typical of a 'deep Venus community' as described by Mackie (1990). At the edge of the Celtic Deep, the communities were typical of a 'boreal deep mud association' and included the brittlestars *Amphiura chiajei* and *Amphiura filiformis*, the bivalves *Nucula sulcata*, *Nucula tenuis*, *Thyasira flexuosa* and *Abra nitida*, and polychaetes *Myriochele heeri*, *Lagis* (now *Pectinaria*) *koreni* and *Amphicteis gunneri*. Bryozoan species occurring on hard substratum in depths of 159 to 1582 m are recorded by Hayward & Ryland (1978).

2.7 The Western approaches

In the western approaches, there are clear changes in distribution of species brought about by the distribution of oceanic and coastal water masses as well as the local conditions in the Bristol Channel. These changes in species characteristics of the coast were brought together as a conclusion to the NCC-commissioned survey of sublittoral benthic ecosystems in south-west Britain (Hiscock 1981).

3 Methodology

The information compiled for this report was primarily based on the contractors' personal experience of estuarine and coastal oceanographic and marine environmental surveys, and supplemented by information from personal contacts and comprehensive on-line literature searches.

The online literature searches were conducted by interrogation of two databases published by the National Information Services Corporation (NISC), which are accessed through the Web search service BiblioLine:

- **Marine, Oceanographic & Freshwater Resources (MOFR)** is an exclusive combination of global bibliographic databases on marine, oceanographic, and related freshwater resources. It provides comprehensive coverage of over 1,000,000 records on international marine and oceanic information, as well as substantial coverage of estuarine, brackish water, and freshwater environments.

- **Aquatic Biology, Aquaculture & Fisheries Resources (ABAFR)** combines all relevant portions of Aquatic Sciences & Fisheries Abstracts (ASFA) with FISHLIT, CABI and AGRIS Fisheries & Aquaculture subsets, Fisheries Review, Fish & Wildlife Reference Service. All taxa have been expanded - from genus to subkingdom - using the National Oceanographic Data Center (NODC) and FISHLIT taxonomic codes.

The database records include scientific journals and periodicals, monographs, proceedings of conferences and symposia, government reports, books, theses and dissertations, and other relevant documents. Many are rare, unpublished, or not indexed by other databases.

The literature searches were conducted using the subject matter keyword of 'Benth*' in combination with geographical keywords which are presented in Table 1 below. The keyword Benth* was specifically chosen to identify all the records with the terms benthos and benthic in any part of the reference.

Large Scale Areas		
Straits of Dover	English Channel	South-West Approaches
Celtic Sea	Bristol Channel	St Georges Channel
Coastal and Offshore Areas		
Goodwin Sands	Nympe Bank	Celtic Deep
Cockburn Bank	Great Sole Bank	Haddock Bank
Melville Knoll	Jones Bank	Whittard Canyon
King Arthur Canyon	Goban Spur	Labadie Bank
Bullock Bank	Haig Fras Basin	Scilly Isles
Estuaries and Harbours		
Rye Bay	Pagham Harbour	Chichester Harbour
Langstone Harbour	Portsmouth Harbour	The Solent
Southampton Water	Christchurch Harbour	Poole Bay
Lyme Bay	Exe Estuary	Teign Estuary
Tor Bay	Dart Estuary	Plymouth Sound
Fal Estuary	Falmouth Bay	Camel Bay
Taw-Torridge Estuary	Severn Estuary	

Table 1 List of Keywords for SEA8 literature search

A number of additional data searches were conducted to supplement the information retrieved from the online literature searches. Specific organisations and individuals were contacted by a combination of visits, telephone calls, and emails. A list of contacts is presented in Section 4.

4 Sources of Metadata

4.1 Principal Contributors

The Marine Biological Association (MBA): www.mba.ac.uk

There are two main metadatabases at the MBA:

- **The Marine Life Information Network for Britain and Ireland (MarLIN)** was established in 1997 by the Marine Biological Association of the UK in collaboration with JNCC and major holders and users of marine biological data and information in Britain and Ireland. Information includes: descriptions of where particular habitats, communities and species occur; descriptions of the features of those habitats, communities and species, and their sensitivity in relation to natural events and human activities. MarLIN provides a structure for linking available data on marine life around Britain and Ireland, which provides the marine node to the National Biodiversity Network (NBN). There are two national datasets accessed through MarLIN which are the National Marine Monitoring Programme (data held by the Environment Agency), and the CEFAS benthic trawl work 1998. You can search and view MarLIN datasets by species or by location using the maps. The data displayed shows species counts, abundance or presence absence as well as any physical data (e.g. depth or substratum where provided). www.marlin.ac.uk/
- **National Biodiversity Network (NBN):** there is a direct link to the database and mapping interface which includes the same data as the MERMAID database accessed through JNCC website. The site is maintained by JNCC and the Centre for Ecology and Hydrology (CEH) (NERC funded group of labs). The NBN is a national project that is building the UK's first network of biodiversity information. It is a union of organisations that are collaborating to create a biodiversity information network available through the internet. It is used in the same way as a normal search engine to help find biodiversity information which has been published on the websites of NBN partners. However, it is much more than a search engine and allows access to raw biodiversity datasets on species, habitats and sites. (www.nbn.org.uk, www.searchnbn.net)

The MBA are also conducting a new campaign to map biotopes for the National Biodiversity Network. Contact DTI Aberdeen (Paul Bloor) for further info.

The **JNCC** is providing marine survey data sets from their Marine Nature Conservation Review (MNCR), which through Marine Recorder will link into the NBN to allow the information to be disseminated widely. www.jncc.gov.uk/

The **National Marine Biological Library** serves PML, MBA and SAHFOS which are based in Plymouth. It contains one of the world's major collections of literature on aquatic sciences and fisheries and acts as a marine biological science resource for the United Kingdom. You need to be a member of MBA to use the National Marine Biological Library www.mba.ac.uk/nmb/

Biomor - Ongoing benthic sampling and geophysical studies in the Bristol Channel by the Welsh Assembly and BGS. Contact Andy Mackie. - Team leader (Wales) on the INTERREG South West Irish Sea Survey (BIOMÔR).

www.nmgw.ac.uk/biosyb/marinebiodiversity/staff.en.shtml

The **Environment Agency** holds a very large amount of data and reports relating to the inshore waters. Benthic data are mainly collected on behalf of Water Companies in support of applications for the discharge of wastewater, or on behalf of developers, Port Authorities or any others requiring permissions for marine works. The Tidal Waters Group (Environment Agency South West) maintains a database of marine reports for the south west region (from Christchurch following the coastline to Bristol). Contact debbie.tyrrell@environment-agency.gov.uk.

Also contact david.lothian@environment-agency.gov.uk for benthic data collected along the south coast. www.environment-agency.gov.uk

'**Neptune**' is a geo-referenced meta-database of marine environmental research around the British Isles. The database was prepared by CEFAS and BGS in the late 1990s for DETR (now DEFRA) and is described in Rowlatt *et al.* (1999). www.cefas.co.uk

Southern Water hold number of reports and data relating to the treatment and discharge of wastewater to the marine environment in support of applications to the

Environment Agency for consent to discharge. If the report is required for non-Southern Water purposes, then a charge may be made.

simon.burgess@southernwater.co.uk

Titan Environmental Surveys hold a large amount of data relating to contamination of water and sediments from marine studies conducted along the southern Welsh coast and the Bristol Channel. For a small administration fee, the data is available from Titan provided permission has been granted from the client who commissioned the work.

www.titansurveys.com/

4.2 General Web Searches

British Oceanographic Data Centre (BODC). The BODC is located at Bidston, Merseyside and houses the largest and most comprehensive marine datasets in the UK (BODC Directory of Marine Environmental Data Sets). All data is available to the public without cost and can be downloaded or ordered from the website www.bodc.ac.uk/ BODC Projects include the following:

English Nature (contact Roger Covey) charged with the production of two Marine Natural Area Profile reports for the Mid and Eastern English Channel. The reports were prepared by Robert Irving (Seascope marine environmental consultancy 01398 332267). www.english-nature.org.uk/

The Britain and Ireland Association of Aquatic Sciences Libraries and Information Centres (BIASLIC), was founded in Plymouth in 1969, and brings together librarians and information workers in marine biology, oceanography, fisheries, aquatic ecology and freshwater scientific and technological research. (www.ife.ac.uk/biaslic/)

UK Marine Special Areas of Conservation (SACs) Project: is a partnership between English Nature, Scottish Natural Heritage, Countryside Council for Wales, Environment and Heritage Service DoE Northern Ireland, Joint Nature Conservation Committee and the Scottish Association for Marine Science. The aim of the project is to satisfy the requirement of the Habitats Directive to set up protected areas in the marine

environment presents new challenges for wildlife conservation. www.english-nature.org.uk/uk-marine/

The Marine and Land Based Inputs to Sea (MLIS) research programme is commissioned by Marine, Land and Liability division of DETR to support the development of UK marine environmental policy and its co-ordination with marine science. The programme particularly supports the development of the UK input to the work of the Assessment and Monitoring Committee (ASMO) set up under the 1992 Convention for the Protection of the Marine Environment of the North East Atlantic (the OSPAR Convention), www.ospar.org. The full list of research projects that have been funded by the Department as part of the MLIS Research Programme, since the programme's inception in 1988 can be found at:

www.defra.gov.uk/environment/marine/mlis/rplist.htm

The Irish Marine Data Centre (ISMARÉ, Dublin) has an electronic database (Extended EDMED for Ireland) (www.marine.ie).

Fisheries Research Services, Marine Laboratory, Aberdeen www.marlab.ac.uk

The Scottish Association for Marine Science (SAMS) at Dunstaffnage Marine Laboratory, Oban, holds a large amount of relevant data, some of which are unpublished. Membership is required for access to the SAMS library. www.sams.ac.uk

CoastNET is the UK's national network that supports those who care for and manage our diverse coastline. It was established in 1995 and has evolved to provide a practical network for the exchange of information, ideas and expertise in the sustainable management of the coastal and marine environment. www.coastnet.org.uk

UK Marine Information Council (UKMIC) www.ukmarine.org is another potential source of information.

Inter-Agency Committee on Marine Science and Technology (IACMST): Maintains an overview of marine activities across Government. It encourages links between Government and the national marine community, the wider application of marine

science and technology, optimum use of major UK marine facilities, training and education and international links. www.marine.gov.uk/iacmst_publications.htm

Aquatic Science and Fisheries Abstracts (ASFA) partners: The NMBL is the UK national [ASFA partner](#) preparing and co-ordinating input to the marine sciences database Aquatic Sciences and Fisheries Abstracts ([ASFA](#)).

www.fao.org/fi/asfa/partners.asp

European Association of Aquatic Sciences Libraries and Information Centres (EURASLIC): [EURASLIC](#) exists to provide a European forum for discussion in the aquatic science information field, and to build discussion links between the member institutions.

International Association of Marine Sciences Libraries and Information Centres (IAMSLIC): [IAMSLIC](#)'s objectives are similar to those of EURASLIC but have a world-wide scope. It also maintains its own discussion list which facilitates communication between members and non-member via e-mail.

Plymouth Marine Science Partnership: www.pml.ac.uk/pmsp/contact.htm

Offshore benthic sampling data for SEA8 is sparse, however, some data are held by **Dr. Jason Hall-Spencer** (Plymouth University Biological Sciences Dept).

Unpublished work by **Alan J. Southward** B.Sc., Ph.D., D.Sc. (Research Fellow) at the MBA

Other institutions include:

Aberdeen Marine Laboratory, Aberdeen.

Port Erin Marine Laboratory (Isle of Man)

School of Ocean Sciences (Menai Bridge, University of Wales Bangor)

University of Liverpool (Irish Sea)

University College Galway

4.3 Addresses of Relevant Contacts and Organisations

Dr Keith Hiscock, Alan Southward, Jon Parr, Emma Woolaston (library)

The Marine Biological Association of the UK

Citadel Hill,

Plymouth,

PL1 2PB

Tel: +44 (0)1752 633336

Fax: +44 (0)1752 633102

marlin@mba.ac.uk

Steve Widdicombe

Plymouth Marine Laboratory

Prospect Place

Plymouth

PL1 3DH

Tel: 01752 633423

Email: s.widdicombe@pml.ac.uk

Professor John Gage

Scottish Association for Marine Science

Dunstaffnage Marine Laboratory,

Dunbeg,

Oban,

Argyll,

Scotland.

Tel: 01631 559000

Fax: 01631 559001

Email: mei@dml.ac.uk

www.sams.ac.uk

Steve Rowlatt

The Centre for Environment, Fisheries and Aquaculture Science (CEFAS)

Burnham Laboratory

Remembrance Avenue

Burnham-on-Crouch

Essex

CN0 8HA

Tel: 01621 78 72 00

Direct: 01621 78 72 44

S.M.Rowlatt@CEFAS.co.uk

CEFAS Weymouth Laboratory

The Nothe, Barrack Road

Weymouth

Dorset DT4 8UB

Tel: +44 (0) 1305 206600

Fax: +44 (0) 1305 206601

www.cefasc.co.uk/

Dr Nigel Thomas, Steve Bellew

Emu Ltd.

1 Mill Court
The Sawmills
Durley
Southampton, SO32 2EJ
Tel: (+44) 1489 - 86 00 50
Fax: (+44) 1489 - 86 00 51
Email: mail@emulimited.com
www.emulimited.com

Phil Bloor

Department of Trade and Industry
Aberdeen

Pauline Simpson

Information Services,
National Oceanographic Library
Southampton Oceanography Centre
Waterfront Campus
European Way
Southampton
SO14 3ZH
Tel 02380 596111
Fax 02380 596115
nol@soc.soton.ac.uk
www.library.soton.ac.uk/nol/

Dr Lesley Rickards

British Oceanographic Data Centre
Bidston Observatory
Bidston Hill, Prenton
Merseyside CH43 7RA, UK
Tel: 0151-653-1510
Fax: 0151-652-3950
e-mail: enquiries@bodc.ac.uk
www.bodc.ac.uk/

Jule Harries

Inter-Agency Committee on Marine Science and Technology (IACMST)
Southampton Oceanography Centre,
European Way,
Empress Dock,
Southampton. SO14 3ZH
Tel: 023 8059 6611
Fax: 023 8059 6395
Email: enquiries@marine.gov.uk
www.marine.gov.uk

Roger Covey
UK Marine SACs Project
English Nature
Northminster House
Peterborough
PE1 1UA
Main Switchboard
Tel: +44 (0)1733 455000
Fax: +44 (0) 1733 568834
Email: enquiries@english-nature.org.uk
john.torlesse@english-nature.org.uk
www.english-nature.org.uk
www.english-nature.org.uk/uk-marine/

Brixham Environmental Laboratory
Freshwater Quarry,
Brixham,
Devon TQ5 8BA
Tel +44 (0)1803 882882
Fax +44 (0)1803 882974
www.brixham.astrazeneca.com/

Dr Peter Jonas
Environment Agency
South West Region
Manley House
Kestrel Way
Sowton Industrial Estate
Exeter EX2 7LQ.
Tel: 01392 444000
Fax: 01392 444238
Email: peter.jonas@environment-agency.gov.uk

David Lothian
Environment Agency,
Southern Region,
Guildbourne House,
Chatsworth Road,
Worthing,
West Sussex, BN11 1LD
Tel: 01903 832000
Fax: 01903 821832
Email: david.lothian@environment-agency.gov.uk

Emma Harris

Environment Agency Wales

Cambria House
29 Newport Road
Cardiff
CF24 0TP

Tel 029 20770088

Fax 029 20798555

Email: emma.harris@environment-agency.gov.uk

Department for Environment Food and Rural Affairs (DEFRA)

Nobel House
17 Smith Square
London SW1P 3JR
Tel: 08459 33 55 77.

Fax: 020 7238 6609

email: defra.library@defra.gsi.gov.uk

www.defra.gov.uk

Dr Mark L. Tasker

Joint Nature Conservancy Council (JNCC)

Dunnet House
7 Thistle Place
Aberdeen
AB1 1UZ

Tel: +44(0) 1224 655701

Fax: +44(0) 1224 621488

Email: mark.tasker@jncc.gov.uk

Joint Nature Conservancy Council (JNCC)

Monkstone House,
City Road,
Peterborough,
PE1 1JY

Tel: +44 (0)1733 562626

Fax: +44 (0)1733 555948

Email: feedback@jncc.gov.uk

Simon Burgess

Southern Water

Southern House
Lewes Road
Falmer
Brighton
East Sussex
BN1 9PY

Tel: 01273 663148

Email: simon.burgess@southernwater.co.uk

Web: www.southernwater.co.uk

Paul McNie

South West Water

Peninsula House, Rydon Lane

Exeter, EX2 7HR

Tel: 01392 446688

Fax: 01392 434966

Email: pmcnie@south-west-water.co.uk

Institut Français de Recherche pour l'exploitation de la Mer (IFREMER)

French Research Institute for Exploitation of the Sea

Technopolis 40

155 rue Jean-Jacques Rousseau

92138 ISSY-LES-MOULINEAUX

Tel 33 (0)1 46 48 21 00

Fax 33 (0)1 46 48 22 48IFREMER

www.ifremer.fr/anglais/

Ian Davis

Fisheries Research Services (FRS)

Marine Laboratory

PO Box 101

375 Victoria Road

Aberdeen, AB11 9DB

Tel: 01224 876544

Fax: 01224 295511

www.marlab.ac.uk

Mike Thomson/Jim Knight

Titan Environmental Surveys Limited

Penybont STW

Ogmore by Sea

Nr. Bridgend

Mid. Glamorgan, CF32 OQP

Tel: 01656 881221

Fax: 01656 881225

Email: jim.knight@titansurveys.co.uk

www.titansurveys.com/

Countryside Council for Wales

Unit 4,

Castelton Court,

St Mellon's,

CARDIFF. CF3 0LT

Tel: 02920 772400

Fax: 02920 772412

Email: p.williams@ccw.gov.uk

www.ccw.gov.uk/Generalinfo/index.cfm?Subject=Marine&lang=en

Andy Mackie
Head of Marine Biodiversity Section
National Museum & Gallery of Wales
Cathays Park
Cardiff
CF10 3NP
Tel: +44 (0)29 2057-3311
E-mail: andrew.mackie@nmgw.ac.uk
www.nmgw.ac.uk/

Marine Conservation Society
Unit 3
Wolf Business Park
Alton Road
ROSS-ON-WYE
Herefordshire
HR9 5NB

tel: 01989 566017
email: info@mcsuk.org
www.mcsuk.org/

Oakwood Environmental Ltd.
Fisher Lane Farm,
Fisher Lane,
Chiddingfold,
Surrey, GU8 4TB.
United Kingdom
Telephone: +44 1428 684643
Fax: +44 1428 682823
E-mail: info@oakwoodenvironmental.com

5 References

Hiscock, K. 1998. Marine Nature Conservation Review. Benthic marine ecosystems of Great Britain and the north-east Atlantic. Chapter 1 - Introduction and Atlantic-European perspective. p.3-70. Peterborough: Joint Nature Conservation Committee. (Coasts and seas of the United Kingdom MNCR series)

6 Appendices

Appendix 1

Endnote© file (on compact disk)

Lagoonal littorinids: Shell shape and speciation. Source: Journal of Shellfish Research; The 6. International Littorinid Symposium, St. Ann's Parish (Jamaica), 24-31 Jul, 1999; VOL. 20, NO. 1, pp. 469-475. P. J. C. Mill, A.P.; Smith, D.C.; Grahame, J.; Wilding, C.S.; Britton, J. C.; McMahon, R. F.,; National Shellfisheries Association.

Trans-zonal movements in winkles, *Littorina littorea* (L.): Reasons and consequences. Source: Journal of Shellfish Research; The 6. International Littorinid Symposium, St. Ann's Parish (Jamaica), 24-31 Jul, 1999; VOL. 20, NO. 1, pp. 495-499. G. F. B. Warner, J. C.; McMahon, R. F.,; National Shellfisheries Association.

Correlation of morphological diversity with molecular marker diversity in the rough periwinkle *Littorina saxatilis* (Olivi). Source: Journal of Shellfish Research; The 6. International Littorinid Symposium, St. Ann's Parish (Jamaica), 24-31 Jul, 1999; VOL. 20, NO. 1, pp. 501-508. C. S. G. Wilding, J.; Mill, P.J.; Britton, J. C.; McMahon, R. F.,; National Shellfisheries Association.

Abundance and distribution of edible crab larvae around the UK (1981, 1989, 1993). B. Datasets.

Burry Inlet, south Wales cockle survey (1982-). B. Datasets.

Commercial Nephrops in Irish Sea, Porcupine Bank and Aran Grounds. B. Datasets.

Dive Surveys in the Fal Area by Deeble, Nokes, Stone and Gainey. B. Datasets.

Edible crab maturity, fecundity and morphometric data from the southern North Sea and English Channel (1987-1994). B. Datasets.

English Channel Beam Trawl Survey (1988-). B. Datasets.

Fecundity and larval quality of native oysters from the Solent, English Channel (1985-1987). B. Datasets.

Foreshore Surveys Adjacent to Hinkley Point. B. Datasets.

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