

258. TITLE **The effects on marine fish, diving mammals and birds of underwater sound generated by seismic surveys: consultancy report.**
- YEAR 1994
- AUTHOR TURNPENNY, A.W.H., & NEDWELL, J.R.
- ORGANISATION Fawley Aquatic Research Laboratories Ltd.
- ABSTRACT Collates existing literature relevant to understanding the effects on marine vertebrates of sound emitted by seismic survey operations. Reviews critically the scientific quality of studies, assesses the validity of findings with respect to shallow water applications and identifies present deficiencies in our understanding of seismic survey effects in shallow waters. Deals with the effects of airguns, focusing on species found in North Atlantic and the coastal waters. (Bibliographies, Marine ecology)
- LOCATION P
- NOTES 40p. & appendices. Bibliog. Southampton.
- 259 TITLE **Beyond the shelf edge: deep ocean sciences research in the Natural Environment Research Council.**
- YEAR 1994
- AUTHOR SUMMERHAYES, C., & PELTON, C.
- ORGANISATION Natural Environment Research Council (NERC)
- ABSTRACT Describes the role of NERC research in the strategic management of the deep ocean, and its collaboration with European and international bodies. Also describes strategies for the development of deep sea science and several Community Research Projects. (Marine ecology, Marine pollution, Oceanography, Water quality)
- LOCATION P
- NOTES 17p. Swindon. Date of publication guessed.
260. TITLE **Environmental implications of offshore oil and gas development in Australia - seismic surveys: the findings of an independent scientific review.**
- YEAR 1994
- AUTHOR McCAULEY, R.D.
- ORGANISATION Australian Petroleum Exploration Association (APEA) & Energy Research and Development Corporation (ERDC)
- ABSTRACT Comprises Part 2, Sections 4 and 5 only. Considers the effects of seismic air gun arrays on fish, marine mammals, marine invertebrates, penguins and plankton. (Marine ecology)
- LOCATION P
- NOTES iv. (var. pag.). Townsville (Aus.).
- 261 TITLE **State of the Arctic environment: report on underwater noise: Finnish initiative on protection of the Arctic environment.**
- YEAR 1990
- AUTHOR DAVIS, R.A., and others
- ABSTRACT Consists of an executive summary covering the following: sources of underwater noise; ambient noise on Arctic waters; noise source levels; sound propagation; sounds produced by marine mammals; marine

- mammal hearing; marine mammal reactions to noise and disturbance; zones of influence; examples of noise exposure; possible mitigation measures.
- LOCATION P
NOTES 13p. No place of publication given.
262. TITLE **Symposium ECSA 21 on marine and estuarine gradients: final programme.**
YEAR 1991
ORGANISATION Estuarine and Coastal Science Association (ECSA), Gent University. Institute of Zoology & Institute of Nature Conservation (Hasselt)
ABSTRACT Contains abstracts of spoken papers concerning the biological and physical characteristics of estuaries and coastal waters.
LOCATION P
NOTES 1v. (var. pag.). Gent (Belgium)
263. TITLE **Linked mass and energy fluxes at ridge crests (SCOR Working Group 99) and BRIDGE research results.**
YEAR 1996
AUTHOR PARSON, L.M., & SINHA, M., eds.
ORGANISATION Southampton Oceanographic Centre & International Council of Scientific Unions (ICSU). Scientific Committee on Ocean Research (SCOR)
ABSTRACT Contains abstracts of scientific contributions to the 23rd General Meeting of the Scientific Committee on Oceanographic Research. Aims to serve as a benchmark in current activity in ridge processes and to provide contact points for relevant research groups. (Oceanography)
LOCATION P
NOTES 45p. Southampton. Report No. 3
264. TITLE **Research group report, 1990-1992.**
YEAR 1992
AUTHOR VESSEM, J. van
ORGANISATION International Waterfowl and Wetlands Research Bureau (IWRB)
ABSTRACT Summarises the activities carried out by the IWRB Research Group network in the field of waterbird and wetlands conservation and management. (Wildfowl)
LOCATION P
NOTES 68p. Slimbridge. IWRB Research Group report no. 2.

The Atlantic

265. TITLE **The harbour porpoise in the North Atlantic: a case for conservation.**
YEAR 1995
AUTHOR HUTCHINSON, J., SIMMONDS, M., & MOSCROP, A.
ORGANISATION Greenwich University. Conservation Research Group & Stichting Greenpeace Council

- ABSTRACT Reviews the status of the harbour (or common) porpoise (*Phocoena phocoena*) in the North Atlantic and the threats to populations and makes recommendations for their conservation.
- LOCATION P
- NOTES ii. 90p. Bibliog. London.
266. TITLE **Marine Nature Conservation Review: marine biological survey of Rockall, 28 and 29 June, 1988; field report.**
- YEAR 1988
- AUTHOR LAFFOLEY, D., & HISCOCK, K.
- ORGANISATION Nature Conservancy Council (NCC). Chief Scientist Directorate
- ABSTRACT Studies littoral and sublittoral communities and lists the location of sites surveyed together with brief details of the habitats included. Survey results strengthen the view that the small size, isolation and extreme wave exposure of Rockall reduce the diversity of its species. Initial findings indicate a reduced species diversity compared to other exposed sites such as St. Kilda or Foula. The super-exposed nature of Rockall has resulted in a displacement of algal and faunal community structure. This factor, in conjunction with the apparent lack of habitat diversity and the isolation of the site has contributed to the unique floral and faunal assemblages recorded for Rockall and its associated reefs as a result of this survey. (Marine ecology, Marine fauna, Marine flora)
- LOCATION P
- PERMLOAN Permanent Loan: Maritime Team
- NOTES ii, 20p. Bibliog. Peterborough.

The North Sea

267. TITLE **A North Sea view: Birdlife International's recommendations to 4th International Conference on the Protection of the North Sea; Esbjerg, Denmark, 8-9 June 1995.**
- YEAR 1995
- ORGANISATION Birdlife International
- ABSTRACT Calls on North Sea States to address the problems created for species and habitats by inadequate fisheries management, the lack of protection for marine sites and pollution from shipping. (Marine nature conservation, Marine pollution)
- LOCATION P
- NOTES 55p. Bibliog. Cambridge. NS Report/NP/9640
268. TITLE **Establishing the nutrient status of the coastal waters: the JONUS programme.**
- YEAR 1994
- AUTHOR DICKSON, B., ROCHE, M., & FABER, N.
- ORGANISATION Ministry of Agriculture, Fisheries and Food (MAFF). Directorate of Fisheries Research
- ABSTRACT Contains an interim review of progress in the JONUS (Joint Nutrition Study) project. JONUS was set up in response to international pressures to limit the risks of pollution due to excess nutrients entering

- the North Sea via the Humber, Wash and Thames. This brochure intends to justify the extension of the JONUS programme into a second phase. (Estuaries, Marine pollution, Water pollution)
- LOCATION P
NOTES 31p. Lowestoft. Place of publication guessed.
269. TITLE **Grey seals in the North Sea and their interactions with fisheries: final report.**
YEAR 1994
AUTHOR HAMMOND, P. S., & FEDAK, M. A., eds
ORGANISATION Natural Environment Research Council (NERC). Sea Mammal Research Unit & Ministry of Agriculture, Fisheries and Food (MAFF).
ABSTRACT Describes the work conducted from 1991-1994 on interactions between seals and sea fisheries off the northeast coast of England. Quantifies the summer diet of grey seals; estimates summer numbers; investigates range, movements and foraging behaviour and assesses the extent of interactions. (Halichoerus grypus).
LOCATION P
NOTES v. 157p. Bibliog. Cambridge. Contract No. MF 0503.
270. TITLE **An assessment of human hazards to seabirds in the North Sea.**
YEAR 1993
ORGANISATION World Wide Fund for Nature (WWF)
ABSTRACT Summarises a report written by Dr. R. W. Furness, which reviews threats to seabirds and predicts population trends. Identifies six types of hazard, namely human exploitation, predation, fisheries, pollution, disturbance and habitat change. Comes to conclusions and makes recommendations. The report is part of the *Conservation of Seabirds in the North Sea* project.
LOCATION P
NOTES 4p. WWF International Executive Summary.
271. TITLE **Meeting commitments? A progress review of the UK's pledge to reduce North Sea inputs of Red List substances by 50%.**
YEAR 1995
AUTHOR LYONS, G.
ORGANISATION World Wide Fund for Nature (WWF)
ABSTRACT Seeks to evaluate whether the Government will achieve its commitment to reduce inputs of each of the 23 Red List substances or groups by 50% by 1995, taking 1985 as a baseline. Critically appraises the monitoring undertaken, summarises the range of initiatives proposed and outlines reductions achieved to date. (Marine pollution, Toxic chemicals)
LOCATION P
NOTES 69p. Bibliog. No place of publication given.
272. TITLE **Post development environmental survey of the Amethyst gas field, July 1992.**
YEAR 1993
AUTHOR HOBBS, G., & SMITH, J.

- ORGANISATION Field Studies Council. Oil Pollution Research Unit (OPRU)
 ABSTRACT Aims to obtain current information upon the nature of the sediment, the distribution of contaminants and the composition of the macrobenthic fauna in the vicinity of four drilling platforms and to make a realistic assessment of the environmental effects of development drilling in the Amethyst field. (Marine ecology, Marine pollution, Oil pollution)
- LOCATION P
 NOTES Iv. (var. pag.). Bibliog. Pembroke.
273. TITLE **Coastal zone management and the North Sea Ministerial Conferences.**
 YEAR 1993
 AUTHOR GUBBAY, S.
 ORGANISATION Marine Conservation Society & World Wide Fund for Nature (WWF)
 ABSTRACT Considers the international dimension of Coastal Zone Management (CZM) and the opportunity to progress the idea through the International Conferences on the Protection of the North Sea (North Sea Ministerial Conferences). Recommends that the next Declaration should include: an explicit statement of support for, and commitment to, integrated coastal and sea use planning and management; a statement of common objectives for CZM programmes; and agreement that States should co-operate in helping achieve the objectives of their own CZM programmes; an agreement to prepare a North Sea Management Report, to parallel the Quality Status Report. This should be used to identify management issues which would benefit from joint action and encourage integrated planning and management in the North Sea. (Coast protection, Coastal ecology, Protection of the environment)
- LOCATION P
 NOTES 17p. Bibliog. Ross-on-Wye.
274. TITLE **The biogeochemistry of nitrogen in the southern North Sea: the development of a mathematical model based on the results of the NERC - North Sea Programme surveys in 1988 and 1989: final report.**
 YEAR 1997
 AUTHOR HYDES, D.J., and others
 ORGANISATION Southampton Oceanography Centre & Department of the Environment (DOE)
 ABSTRACT This project has developed a mathematical model of the processes involving dissolved nitrogen in the southern North Sea and analysed newly available data. The model was used as an aid to understanding these processes and also to predict what would happen to the production of algae in the southern North Sea if inputs of nitrogen from human sources were reduced. It was shown that most of the variation in levels of nutrients throughout the year in the southern North Sea could be accounted for by a normal seasonal cycle, which the model accurately reproduced. Using both model estimates and available field data, annual budgets for nitrogen and silicon in the southern North Sea were drawn up. For most nutrients, maximum concentrations were

confined to coastal regions. On an annual basis the most significant sources of new nitrogen to the North Sea are from rivers and the atmosphere. Budgets indicated that algal production depended more on the re-cycling of nutrients within the southern North Sea than on inputs from rivers and the Atlantic. Recycling of nitrogen between water and plankton during a single growing season varied between two times off the UK coast and five times off the Dutch and German coasts. This is probably on the effect of relatively high turbidity caused by coastal erosion off the English coast. The availability of light energy is more important in limiting photosynthetic production in this area than the supply of nitrogen. The model estimated that, if the input of nitrogen from rivers to the North Sea was cut by 50%, annual algal production would fall by up to 18%. The model gave support to the idea that the North Sea is an overall sink for nitrogen. (Marine pollution)

LOCATION
NOTES

P
89p. Bibliog. Southampton. Report No. 5. on North Sea Nutrient Model. Contract No. PECD 7/8/179.

275. TITLE

Southern North Sea sediment transport study: literature review and conceptual sediment transport model.

YEAR

1996

ORGANISATION

ABP Research & Consultancy, & Southampton University. Oceanography Department

ABSTRACT

Presents a synthesis of published research and data, together with an overall conceptual view of sediment transport in the southern North Sea as presently understood. The literature reviewed covers published research predominantly undertaken in the last 50 years together with some recent unpublished hypotheses. Includes the following chapters: physical and oceanographic setting; sediment transport; consequences of climate change; potential human impact on sediment transport. (Coastal geomorphology)

LOCATION
PERMLOAN
NOTES

P
Permanent Loan: Maritime Team
1v. (var. pag.). Bibliog. Southampton. Report No. R.546

Author Index

	Item Nº
Abbott, J.A.	115
Adams, B.J.	24, 37
Anderson, F.E.	210
Arnold, H.	208
Baker, J.M.,	253, 254
Baldock, B.M.	20
Ball, J.H.	80
Bamber, R.N.,	79
Barham, P.	4
Baugh, J.	61
Berrow, S.D.	149
Boelens, R.G.V.	217
Brampton, A.H.	83,84
Brickle, C.	9
Bryant, S.	60
Bunker, F.S.P.D.	100
Burd, F.	14
Burt, T.N.	21
Cadee, N.	241
Carpenter, K.	22, 23
Clark, R.B.	253
Clarke, R.T.	153
Cleator, B.	105, 108
Clifton, J.	14
Cole-King, A.	252
Comber, D.P.M.	92, 121, 206
Cook, P.J.	203
Cook, W.	214
Coutinho, L.	239
Cox, W.P.	93
Currans, S.	207
Davies, H.	220, 221, 222, 223, 229
Davis, R.A.	261
Davison, A.J.	216
Davison, D.M.	216
Dearnaley, M.P.	21, 45, 48, 54, 129
De Boer, G.	40
Dickson, B.	268
Doornkamp, J.C. ed.	193
Dunn, N.H.	32
Earll, R.	166
Edwards, P.J.	80
Edwards, S.	167, 168
Evans, C.D.R.	84
Faber, N.	268
Fahy, F.M.	92, 121, 206

Item N^o

Faris, J.	249
Fedak, M.A.	269
Firth, A.	150
Fletcher, S.	191, 192
Flower, R.J.	211
Foster-Smith, J.L., R.L.	30,31
Fowler, S.L.	109
Franklin, P.	12
Gibb, R.	107
Gibson, J.	138
Goodwin, D.C.	95
Goodwin, K.	126
Gramolt, D.W.	13
Gray, A.J.	42
Griffiths, S.	34
Gubbay, S.	273
Haken, I.C.	156
Hall, C.D.	257
Hammond, P.S.	149
Hansom, J.D.	92, 121, 206
Hart, K.	249
Heip, C.	240
Henderson, A.	59
Hesp, J.	142
Hewett, R.	96
Hilgerloh, G.	234
Hill, C.T.	80
Hiscock, K.	113, 114, 135, 266
Hobbs, G.	272
Hobson, J.	173
Holme, N.A.	99
Holmes, P.	163
Hopkins-Murphy, S.R.	255
Houston, J.	236, 237
Howells, S.E.	1
Huggett, D.	164, 172
Hughes, R.	242
Hutchinson, J.	265
Hydes, D.J.	274
Irving, R.	76, 107
Jones, L.	77
Joven, M.	238
King, O.H.	252
King, G.A.	166
Kingston, P.F.	253
Laffoley, D.	266
Lee, E.M.	185, 186
Leggett, D.J.	137, 143

	Item N ^o
Little, A.E.	90
Littlewood, A.H.	123
Lyons, G.	271
McCauley, R.D.	260
MacGarvin, M.	152
MacKenzie, G.	105, 106, 107
McLaren, P.	233
Mclusky, D.S.	210
Maltby, E.	242
Mant, J.	78
Martin, C.J.	104
Mason, S.J.K.	66
Matthews, J.	154
Mayer, S.	146
Millard, K.	188
Morri, C.	245
Moscrop, A.	265
Muirhead, S.J.	157
Murphy, T.M.	255
Murphy, B.	14
Nedwell, J.R.	258
Newbold, C.	242
Nicholson, A.	211
Nowell, D.	168
Nowicki, N.	243
Nowicki, P.	243
Numan, F.	238
Nunney, R.	105, 108
Parson, L.M.	263
Paterson, I.	127
Pelton, C.	259
Pethick, J.S.	2
Phillips, A.W.	120
Pickering, H.	82, 169
Pollard, R.T.	159
Pond, K.	147
Prosser, C.D.	124
Proctor, C.J.	87
Pugh, D.	198
Purnell, R.	196, 197
Pye, K.	117
Raines, P.	108
Rees, G.	147
Rikards, K.	106
Rigg, K.	244
Roberts, W.	48
Roche, M.	268
Roe, H.M.	27

Item N^o

Rollinson, N	120
Rostron, D.M.	125
Rowberry, N.	246
Ryland, K.	74
St Joseph, A.	15
Simm, J.D.	91
Simmonds, M.	265
Sinha, M.	263
Sivignon, P.	238
Skinner, L.	198
Smith, J.	272
Smith, T.	35
Smythe-Wright, D.	159
Soulsby, R.L.	177
Southey, J..	35
Spearman, J.R.	48
Stickland, I.W.	156
Stockwell, T.	79
Summerhayes, C.	259
Taussik, J.	165
Thomas, H.	67
Tompsett, P.E.	94, 96, 97, 98, 103
Tonkin, J.M.	122
Tookey, D.J.	115
Tregenza, N.J.C.	149
Turk, S.M.	94, 99
Turnpenny, A.W.H.	176, 258
Vessem, J. van	264
Wark, J.B.	139
Whitehouse, J.W.	155
Whitfield, M.	154
Wilson, B.	207
Wilson, P.	106
Wood, C.J.	130

Organisation Index

Item N°

ABP Research Consultancy	62, 275
Aberdeen University	207, 246
Alaska Fisheries Science Center	249
Association Amenagement-Environnement	243
Association Communautaire de l'Estuarie de la Loire	239
Association of District Council (ADC)	195
Atkins-Setec	72
Australian and New Zealand Environment and Conservation Council (ANZECC)	248
Australian Petroleum Exploration Association Ltd (APEA)	247, 260
Binnie & Partners	32
Biomar	30
Birdlife International	267
Bournemouth University	123, 138
British Aggregate Construction Materials (BACMI)	178
British Geological Survey (BGS)	203
Cambridge University	27
Canterbury City Council	67
Center for Marine Conservation	255
Central Dredging Association	200
Central Electricity Generating Board (CEGB)	155
Chichester Harbour Conservancy	75
Civil & Marine Ltd	20, 21, 116
Coastal Heritage Network (Coast NET)	212
Construction Industry Research and Information Association (CIRIA)	84, 156, 163, 194
Coral Cay Conservation Sub-Aqua Club (CCSA)	105, 106, 107, 108
Cornish Biological Records Unit (CBRU)	88
Cornwall County Council	102
Countryside Council for Wales	213
Crown Estate	194
Delta Institute for Hydrobiological Research	240
Denmark, Ministry of Environment and Energy	230
Department of Energy	157
Department of the Environment (DoE)	64, 118, 179, 193, 217, 274
Department of the Environment for Northern Ireland (DOENI)	215, 216
Department of Trade & Industry (DTI)	153, 176
Devon Wildlife Trust	85, 101
Dolphin Ecological Surveys	74
Eastern Sea Fisheries Joint Committee (ESFJC)	131
Ecosurveys Ltd	35
Ecotec Research and Consulting Ltd	182
Energy Research and Development Corporation	260
English Nature (EN)	7,8,30,31,63,71,77,85,89,91,92,93,94,96,97,98,105,106,107, 108,109,121,124,125,126,127,128,129,144,206
Environment Agency	3,5,6,18,62,67,83,117,127,136
Environmental Tracing Systems Ltd	104
Esso Exploration and Production UK Ltd	135, 219

	Item N ^o
Estuarine and Coastal Science Association (ECSA)	262
European Commission	241
European Communities (EC)	242
European Union for Coastal Conservation (EUCC)	238, 244
European Union (EU)	208
Eurotunnel (UK)	73
Farnborough College of Technology	147
Fawley Aquatic Reserach Laboratories Ltd	176, 258
Field Studies Council. Oil Pollution Research Unit (OPRU)	1, 90, 135, 218, 272
Genoa University	245
Gent University	262
GeoData Institute	80, 81
Geomorphological Services Ltd	193
Gibb, Sir Alexander & Partners	119
Glasgow University	92, 121, 206
Great Yarmouth Borough Council	44
Greenpeace	148, 250, 265
Greenwich University	130, 265
HR Wallingford (see also, Hydraulic Research)	18,21,22,23,47,49,50,51,52,53,54,55,5
.....	6,57,58,60,61,83,84,129,139,177,184,185,186,187,188,202
Halcrow, Sir William & Partners	44, 114
Harwich Haven Authority	47, 48, 49,50, 51, 52,53, 54, 55, 56, 57, 58, 61
Helford Voluntary Marine Conservation Area Advisory Group	94, 95, 96, 97, 98, 103
Heriot-Watt University	253
Holderness Borough Council	38
Hull University, Institute of Estuarine & Coastal Studies	2,9,11,14,16,17,19,28,33,39,40,65,183
Hydraulics Research (See also HR Wallingford)	26,64,91,151
Imperial College of Science,Technology and Medicine	132,133,134
Institute of Offshore Engineering	73
Institute of Terrestrial Ecology (ITE)	42, 153
Institution of Civil Engineers	200
Inter-Agency Committee on Marine Science and Technology	198
International Council of Scientific Unions	263
International Waterfowl and Wetlands Research Bureau	264
Ireland, Department of the Environment	217
Irish Sea Forum	220,221,222,223,224,225,226,227,228,229
Joint Nature Conservation Committee (JNCC)	237, 238
Keele University	204
Kelt UK Ltd	33
Kent Wildlife Trust	67
Lancaster University	214
Land Use Consultants	182
London University	13
Lundy Field Society	113
McIntyre Associates	144
MDS Transmodal	172
Marine Biological Association (MBA)	99

Item N^o

Marine Conservation Society (MCS)	76,113,209,273
Marine Forum for Environmental Issues	224
Marine Seen	100
Market and Opinion Research International (MORI)	144
Marine Environmental Protection Association (MEPA UK)	160
Ministry of Agriculture, Fisheries and Food (MAFF) 86,124,129,145,161,171,184,185,186,187,189,190,191,192,196,197,201,204,268,269	
National Coal Board	41
National Coasts and Estuaries Advisory Group	166
National Maritime Museum	256
National Rivers Authority 10,19,22,23,25,29,35,100,132,133,134,137,140,142,143,194	
National Trust	30, 31
National Westminster Bank	103
Natural Environment Research Council (NERC)	154,159,170,175,181,210,259,269
Nature Conservancy Council (NCC)	68,69,70,88,90,110,111,112,205,266
Nature Conservation Bureau Ltd	71, 109
Netherlands, Directorate General for Public Works and Water Management (Rijkswaterstaat)	233
Netherlands, Institute of Ecology	241
Netherlands, Ministry of Transport, Public Works and Water Management	231, 235
Niedersächsisches Waltenmeer	234
North Western and North Wales Sea Fisheries Committee	214
Norwich Union	147
Polytechnic South West	158
Portsmouth University	77,78,82,165,167,169,173,174
Posford Duvivier Environment	199
Reading University	117, 180
Rendel Geotechnics	184,185,186,187
Royal Holloway & Bedford New College	69, 70
Royal Society for Nature Conservation (RSNC)	162
Royal Society for the Protection of Birds (RSPB)	59,164,172
Scientific Committee on Ocean Research	263
Scottish Natural Heritage (SNH)	207,208,246
Scottish Office Agriculture & Fisheries Dept	257
Scottish Wildlife Trust	208
Sea Safety Group (Environment) Ltd	160
Sea Sediments Ltd	41
Shell UK	81
Southampton City Council	80
Southampton Oceanographic Centre	263, 274
Southampton University	80, 81,150,275
Spurn Heritage Project	36
Standing Conference on Problems Associated with the Coastline (SCOPAC)	139,141
Stichting Greenpeace Council	265
Stirling University	210
Subsea Survey	125
Suffolk Wildlife Trust	63
Unicomarine Ltd	43

Item Nº

United Nations Environment Programme (UNEP) 251
University College London 24,37,211
Warren Spring Laboratory 115
Water Resources Board 119
Whale and Dolphin Conservation Society 146
Wildlife Trusts Partnership 162
Wimpey Environment 20,116
World Wide Fund for Nature (WWF) 88,113,152,252,270,271,273
World Wide Fund for Nature (Netherlands) (WWF) 232
World Wide Fund for Nature (UK) (WWF) 94,95,97,98,103