

## REFERENCES

- ABPmer** (2002). Potential effects of offshore wind developments on coastal processes. ETSU W/35/00596/00/REP.
- Adams, J.A.** (1986). Zooplankton investigations in the Firth of Clyde., *Proceedings of the Royal Society of Edinburgh B*, 90:239-254.
- Adams, J.A.** (1987). The primary ecological sub-divisions of the North Sea: some aspects of their plankton communities. In: *Developments in Fisheries Research in Scotland* (Ed. R.S. Bailey and B.B. Parrish), pp.165-181. London: Fishing News Books.
- Adams, J.A. and Martin, J.H.A.** (1986). The hydrography and plankton of the Moray Firth. *Proceedings of the Royal Society of Edinburgh B*, 91:37-56.
- Anatec** (2005). Beatrice Windfarm – Phase 1 Ship Collision Study. Prepared by Anatec UK Ltd. on behalf of Talisman Energy (UK) Limited. June 2005. Report No. A1385-TE-CR-1.
- Anderson, J.J.** (1992). Assessment of the risk of pile driving to juvenile fish. Report by the Fisheries Research Institute, University of Washington to the Deep Foundations Institute, Seattle, Washington. 11pp.
- Andrews I.J., Long D., Richards P.C., Thomson A.R., Brown S., Chesher J.A., and McCormac** (1990). *United Kingdom Offshore Regional Report: The geology of the Moray Firth*. HMSO, London.
- AURIS** (1992). *Environmental Survey of the Beatrice Field, Block 30/11* (unpublished report for BP Exploration).
- Bach, S., Teilmann, J., and Henriksen, O.D.** (2000). VVM-redegrelse for havmleparker ved Rdsand. Teknisk rapport vedrørende marrsvin. Rapport til SEAS. 41pp.
- Band, W.** (2000). Windfarms and birds: calculating a theoretical collision risk assuming no avoidance behaviour. Scottish Natural Heritage Report.
- Band, W.** (2005). Methodology for assessing the effects of wind farms on ornithological interest. Scottish Natural Heritage Report.
- Barne, J.H., Robson, C.F., Kaznowska, S.S., Doody, J.P., Davidson, N.C., and Buck, A.L. (Eds.)** (1996). *Coasts and Seas of the United Kingdom. Region 3: North-east Scotland: Cape Wrath to St. Cyrus*. Coastal directory series, Joint Nature Conservation Committee, Peterborough, England.
- Barton, C. and Pollock, C.** (2004). Review of divers, grebes and seaduck distribution and abundance in the SEA 5 area. Report to the DTI as part of SEA 5, 62pp plus appendices.
- Basford, D.J., Eleftheriou, A. and Raffaelli, D.** (1989). The Epifauna of the Northern North Sea (56° – 61°N). *Journal of the Marine Biological Association*, 69:387-407.
- Basford, D.J., Eleftheriou, A. and Raffaelli, D.** (1990). The Infauna and Epifauna of the Northern North Sea. *Netherlands Journal of Sea Research* 25 (1/2):165-173.
- Bell, N. and Smith, J.** (1999). Coral growing on North Sea Oil Rigs. *Nature* 402, p602, London.

**BirdLife International**, (2003). Windfarms and Birds: An analysis of the effects of windfarms on birds, and guidance on environmental assessment criteria and site selection issues. Report written by BirdLife International (R.H.W. Langston & J.D. Pullan, RSPB, UK.) on behalf of the Bern Convention on the Conservation of European Wildlife and Natural Habitats Standing Committee.

**BMT Cordah** (2003). Beatrice Field environmental supporting data. A report for Talisman Energy (UK) Limited, October 2003.

**BMT Cordah** (2004). Environmental Statement for the decommissioning of the North West Hutton facilities. A report for BP Exploration.

**Booij, J.** (2004). Improving the Dutch part of the North Sea as a cetacean habitat. North Sea Foundation.

**Brookes, K., McAdam, B., Lusseau, D. and Thompson, P.M.** (2005). AU4: Impact of windfarms on fine-scale foraging distribution and behaviour of seabirds. Report of the EU-supported DOWNVInD project. Lighthouse field Station, University of Aberdeen, 11 pp.

**Butler, J.R.A.** (2004). Moray Firth Seal Management Plan: A pilot project for managing interactions between seals and salmon in Scotland. Spey District Salmon Fishery Board.

**CCW (Countryside Council for Wales)**, (2001). Guide to Best Practice in Seascape Assessment by Brady Shipman Martin, University College Dublin, 2001.

**Chapman, C.J.** (2004). Northern North Sea Shellfish and Fisheries. Technical Report produced for SEA 5.

**Chesher, J.A. and Lawson, D.** (1983). *The geology of the Moray Firth*. Report of the Institute of Geological Science, No. 83/5.

**Chew, G.L. and Brown, G.E.** (1989). Orientation of rainbow trout (*Salmo gairdneri*) in normal and null magnetic fields. *Canadian Journal of Zoology*, 67:641-643.

**Christensen T. K., Hounisen J. P., Clausager I., and Petersen I. K.** (2003). Visual and radar observations of birds in relation to collision risk at the Horns Rev offshore wind farm. Annual status report 2003. Report commissioned by Elsam Engineering A/S 2003, 2004.

**CMACS** (2003). *A baseline assessment of electromagnetic fields generated by offshore wind farm cables*. A report prepared by the Centre for Marine and Coastal Studies for COWRIE, Report EMF-01-2002 66.

**Conway, W.R.** (1984). Vertical distribution and seasonal and diurnal migration of *Calanus helgolandicus* in the Celtic Sea. *Marine Biology*, 79:63-73.

**Coull, K.A., Johnstone, R., and Rogers, S.I.** (1998). Fisheries Sensitivity Maps in British Waters. UKOOA Ltd.

**Council Directive 79/409/EEC** on the conservation of wild birds (1979).

**Countryside Commission for Scotland** (1978). Scotland's Scenic Heritage. The Countryside Commission.

**Countryside Commission for Scotland and Historic Scotland** (1987). Inventory of gardens and designed landscapes – Volume 3: Highland, Orkney and Grampian.

**Countryside Commission for Scotland and Historic Scotland** (1998). Inventory of gardens and designed landscapes – Supplementary Volume 2: Highlands and Islands.

- Cramp, S. and Simmonds, K.E.L.** (1977). *The birds of the western Palearctic. Vol. 1, Ostrich to ducks*. Oxford University Press, England.
- CRRU (Cetacean Research and Rescue Unit)** (2004). Whale and dolphin Fact files. <http://www.crru.org.uk/education/factfiles/>
- Desholm, M., and Kalhert, J.** (2005). Avian collision risk at an offshore wind farm. *Biology Letters*, doi:10.1098/rsbl.2005.0336.
- Dirksen, S.H. Schekkerman, J. van der Winden, M.J.M. Poot, R. Lensink, L.M.J. van den Burgh and Spaans, A.L.** (1998). Roost migration of black terns and cormorants near the wind turbine at the sluices of Den Oever. Report 98. 57. Bureau Waardenburg, DLO-Onstituut voor Bos-en Natuuronderzoek, Culemborg, Wageningen, (in Dutch).
- Dittman, A.H. and Quinn, T.P.** (1996). Homing in Pacific salmon: mechanisms and ecological basis. *Journal of Experimental Biology*, 199:83-91.
- DTI** (2001a). North Sea Fish and Fisheries. Technical report for SEA 2. Technical Report TR\_003. Prepared by CEFAS.
- DTI** (2001b). Assessment of the effects of noise and vibration from offshore wind farms on marine wildlife. Prepared by University of Liverpool, Centre for Marine and Coastal Studies. ETSU W/13/00566/REP DTI/Pub URN 01/1341.
- DTI** (2001c). Report to the Department of Trade and Industry. Strategic Environmental Assessment of the Mature Areas of the Offshore North Sea SEA 2. Consultation Document, September 2001.
- DTI** (2003). SEA (Phase 1) for offshore wind energy generation: Scoping report by BMT Cordah Limited, February 2003. Report No. DTI.009/2003.
- DTI** (2004a). Strategic Environmental Assessment of parts of the northern and central North Sea to the east of the Scottish mainland, Orkney and Shetland. SEA 5, May, 2004.
- DTI** (2004b). Atlas of UK Renewable energy Resources: Technical Report. Produced by ABPmer, The Met Office, Garrad Hassan, Proudman Oceanographic Laboratory.
- Dunkley, D.A.** (1985). Coastal migration and exploitation of Scottish salmon. In, Proceedings of the 4th British Freshwater Fisheries Conference, 1985.
- EC 1979**. Council Directive 79/409/EEC on the conservation of wild birds (1979) Available from [www.jncc.gov.uk/page-1373](http://www.jncc.gov.uk/page-1373)
- Engas, A., Misund, O.A., Soldal, A.V., Horvei, B., and Solstad, A.** (1995). Reactions of penned herring and cod to playback of original frequency-filtered and time-smoothed vessel sound. *Fisheries Research*, 22: 243-252.
- English Heritage** (2005). Protected historic wrecks: Guidance Notes for Divers and Archaeologists. [http://www.englishheritage.org.uk/upload/pdf/PWALicenseeGuidanceNotes\\_Jan05.pdf](http://www.englishheritage.org.uk/upload/pdf/PWALicenseeGuidanceNotes_Jan05.pdf)
- Erbe, C., and D.M. Farmer** (2000). A software model to estimate zones of impact on marine mammals around anthropogenic noise. *Journal of the Acoustical Society of America*, 108(3):1327-1331.
- ERT** (2005). Benthic investigations at Beatrice wind farm demonstrator sites, Moray Firth. A report to Talisman Energy (UK) Limited, November 2005.

**European Commission** (2005) Nature and Biodiversity. [http://europa.eu.int/comm/environment/nature/nature\\_conservation/eu\\_nature\\_legislation/habitats\\_directive/index\\_en.htm](http://europa.eu.int/comm/environment/nature/nature_conservation/eu_nature_legislation/habitats_directive/index_en.htm)

**Evans, P.G.H., Canwell, P.G. and Lewis E.J.** (1992). An experimental study of the effects of pleasure craft noise upon Bottlenose dolphins in Cardigan Bay, West Wales. In: European research on cetaceans, 6, P.G.H. Evans (Ed.), 43-46. Cambridge, European Cetacean Society.

**Feist, B. E., Anderson, J.J. and Miyamoto, R.** (1996). Potential impacts of pile driving on juvenile pink (*Oncorhynchus gorbuscha*) and chum (*O. keta*) salmon behaviour and distribution. Report No. FRI-UW-9603. Fisheries Research Institute, School of Fisheries, University of Washington, Seattle, WA. 58pp.

**FRS (Fisheries Research Services)**, (2005). Scottish salmon and sea trout catches, 2004. Statistical Bulletin. September 2005.

**FRS (Fisheries Research Services)**, (2002). Statistical Fisheries Data for ICES rectangle 44E6 and 45E5 in 2001. Unpublished data. Supplied by FRS, SEERAD.

**FRS (Fisheries Research Services)**, (2005). Statistical Fisheries Data for ICES rectangle 44E6, 44E7, 45E6 and 45E7 in 2004. Unpublished data. Supplied by FRS, SEERAD.

**Garthe, S. and Hoppop, O.** (2004). Scaling possible adverse effects of marine wind farms on seabirds: developing and applying a vulnerability index. *Journal of Applied Ecology*, 41:724-734.

**Geoteam** (1981). The British National Oil Corporation. Well Site Survey for Proposed Location 11/30-8. Report No. 0573.01, September 1981.

**Geoteam** (1990). BP Shandwick Bay to Beatrice 'A' 16 inch Pipeline and Beatrice Infield Pipelines. 1990 ROV Sonar Survey. Report. No. 1095.5, June 1990.

**Geoteam** (1991). Beatrice Pipelines 1991 ROV Sonar Survey Interpretation Report. No. 1121.12, July 1991 prepared for BP Exploration.

**Gill, A.B. and Taylor, H.** (2002). The potential effects of electromagnetic fields generated by cabling between offshore wind turbines upon elasmobranch fishes. Report to the Countryside Council for Wales. Report No. 488.

**Gill, A.B., Gloyne-Phillips, I., Neal, K.J. and Kimber, J.A.** (2005). The potential effects of electromagnetic fields generated by sub-sea power cables associated with offshore wind farm developments on electrically and magnetically sensitive marine organisms – a review. Report No. COWRIE-EM FIELD 2-06-2004. Centre for Marine and Coastal Studies and Institute of Water and Environment Joint Report.

**Grastrup, H., Gaarde, J.K., Svenson, J.M. and Pederson, P.H.** (2000). Environmental Impact Assessment of the first four offshore wind farms in Denmark. Report by *ELSAMPROJEKT A/S* and *SEAS Distribution AmbA*.

**Gridley, T.** (2005). Combining acoustic and visual survey techniques to determine the factors affecting marine mammal distribution in the outer Moray Firth (NE Scotland). MRes thesis, Marine and Fisheries Science, University of Aberdeen, August 2005.

**Guillemette, M., Larsen, J.K., and Clausager, I.** (1998). Impact assessment of an offshore wind park on sea ducks. NERI technical report No. 227. [Available from: [www.dmu.dk](http://www.dmu.dk)].

**Hammond, P.S., Berggren, P., Benke, B., Borchers, D.L., Buckland., S.T., Collet, A., Heide-Jørgensen, M.P., Hiemlich-Boran, S., Hiby, A.R., Leopold, M.F., and Øien, N.** (2002). Abundance of harbour porpoise and other cetaceans in the North Sea and adjacent waters. *Journal of Applied Ecology*, 39:361-376.

- Hammond, P.S., Northridge, S.P., Thompson, D., Gordon, J.C.D., Hall, A.J., Sharples, R.J., Grellier, K. and Matthiopoulos, J.** (2004). Background information on marine mammals relevant to Strategic Environmental Assessment 5. Report by the Sea Mammal Research Unit, University of St. Andrews.
- Harding-Hill, R.** (1993). *The Moray Firth Review. North-west Region*. Scottish Natural Heritage, Inverness, 257pp.
- Hartley Anderson, (2000)**. Synthesis of the Environment of the Moray Firth. Report prepared for Talisman Energy (UK) Limited.
- Hartley, J.P. and Bishop, J.D.D.** (1986). The macrobenthos of the Beatrice Oilfield, Moray Firth. Scotland. *Proceedings of the Royal Society of Edinburgh B*, 91:221–245.
- Hastie, G, Barton, T.R., and Thompson, P.M.** (2001). The Distribution Of Bottlenose Dolphins Around The Beatrice Pipeline. A report published by the University of Aberdeen for Talisman Energy (UK) Ltd.
- Hastie, G.D., Barton, T.R., Grellier, K., Hammond, P.S., Swift, R.J., Thompson, P.M. and Wilson, B.** (2003). Distribution of small cetaceans within a candidate Special Area of Conservation; implications for management. *Journal of Cetacean Research and Management*, 5(3):261-266.
- Hay W.J., Hislop J.R.G. and Shanks A.M.** (1990). North Sea Scyphomedusae: summer distribution, estimated biomass and significance particularly for 0-group gadoid fish. *Netherlands Journal of Sea Research*. 25:113-130.
- Heath M.R., Leaver M., Matthews A. and Nicoll N.** (1989). Dispersal and feeding of larval herring (*Clupea harengus L.*) in the Moray Firth during September 1988. *Estuarine and Coastal Shelf Science*, 28:549-566.
- Heath, M.R., Adams, R.D., Brown, F., Dunn, J., Fraser, S., Hay, S.J., Kelly, M.C., Macdonald, E.M., Robertson, M.R., Robinson, S. and Wilson, C.** (1999). Plankton monitoring off the east coast of Scotland in 1997 and 1998. *Fisheries Research Services Report*, No. \*/99
- Heath M.R., Fraser J.G., Gislason A., Hay S.J., Jonasdottir S.H., and Richardson K.** (2000). Winter distribution of *Calanus finmarchicus* in the northeast Atlantic. *ICES Journal of Marine Science*, 57:1628–1635
- Heathershaw, T., Ward, P. and David, A.** (2002). The environmental impact of underwater sound. *Journal of Defence Science*, 7(2):123-130.
- Henriksen, O.D., Teilmann, J., Dietz, R., and Miller, L.** (2001). Does underwater noise from offshore wind farms potentially affect seals and harbour porpoises? Poster presented to the 14th biennial conference on the biology of marine mammals, Vancouver, Canada.
- Hildebrand, J.** (2004). Impacts of anthropogenic sound on cetaceans. International Whaling Commission. IWC/SC/56/E13.
- Hirche H.J.** (1983). Overwintering of *Calanus finmarchicus* and *C. helgolandicus*. *Marine Ecology Progress Series*, 11:281–290.
- Historic Scotland** (2003). Coastal Archaeology and Erosion in Scotland. Conference Proceedings. T. Dawson, (Ed.). Ancient Monuments Division, Historic Scotland.
- Holmes R., Bulat J., Fraser J., Gillespie E., Holt J., James C., Kenyon N., Leslie A., Musson R., Pearson S., and Stewart H.** (2004). Superficial Geology and Processes.

**Houlsby, G.T.** (2005). Foundation design using suction caissons. Report to Talisman Energy (UK) Limited by Oxford University Consulting, report reference 2525, April 2005.

**HSE** (1999). Effective Collision Risk Management, HSE 1999.

**HSE** (2003). Ship/Platform Collision Incident Database (2001). Prepared by Serco Assurance. HSE research report 053, 2003.

[http://www.mcsuk.org/basking\\_sharks/recent\\_sightings.php](http://www.mcsuk.org/basking_sharks/recent_sightings.php)

[http://www.scotland.gov.uk/about/CS/UNASS/00015997/grey\\_seals.aspx](http://www.scotland.gov.uk/about/CS/UNASS/00015997/grey_seals.aspx)

<http://www.scotland.gov.uk/library/pan/pan45-00.asp>

<http://www.scotland.gov.uk/library3/planning/nppg/nppg6.pdf>

<http://www.scottishexecutive.gov.uk/Publications/1999/01/nppg14>

[http://www.sei.ie/uploads/documents/upload/Assessment\\_Methodology\\_Birds\\_Ireland.pdf](http://www.sei.ie/uploads/documents/upload/Assessment_Methodology_Birds_Ireland.pdf)

**ICES** (2003). ICES Advisory Committee on Fishery Management report.

**IUCN** (2004). *2004 IUCN Red List of Threatened Species*. [www.redlist.org](http://www.redlist.org).

**Jensen, F. B., W. A. Kuperman, M. B. Porter, and H. Schmidt** (1994). *Computational Ocean Acoustics*. American Institute of Physics, Woodbury, NY, 1994.

**JNCC** (1999). Seabird vulnerability in UK Waters: Block Specific Vulnerability, 1999.

**JNCC** (2000). JNCC seabird colony register <http://www.jncc.gov.uk/page-1549>.

**JNCC** (2001). Available from: <http://www.jncc.gov.uk/page-1592>

**JNCC** (2002). Natura 2000 in UK Offshore Waters: Advice to support the implementation of the EC Habitats and Birds Directives in UK offshore waters. JNCC Report 325. <http://www.jncc.gov.uk/page-2412>

**JNCC** (2003). Seabird use of waters adjacent to colonies: Implications for seaward extensions to existing breeding seabird colony Special Protection Areas. Report No. 329. <http://www.jncc.gov.uk/page-2342>

**JNCC** (2004). Protected sites/The UK SPA network/Guidance for establishing monitoring programmes for some Annex II species. <http://www.jncc.gov.uk/>

**JNCC** (2005). Marine SACs. <http://www.jncc.gov.uk/page-1445>

**Kalejta-Summers, B.** (2004). Moray Firth Monitoring: Winter 2003/04. RSPB, March 2004.

**Kenney, R.D., Mayo, C.A., and Winn, H.E.** (2001). Migration and foraging strategies at varying spatial scales in western North Atlantic right whales. *Journal of Cetacean Research and Management* (special issue), 2:251-260.

**Ketten, D.R.** (1998). Marine mammal auditory systems: A summary of audiometric and anatomical data and its implications for underwater acoustic impacts. NOAA Technical Memorandum NMES NOAA-TM-NMFS-SWFSC-256, September 1998. US Department of Commerce, in association with NOAA, National Marine Fisheries Service and Southwest Fisheries Science Center, 72pp.

- Koop, B.** (1997). Bird migration and wind energy planning: examples of possible effects from the Plon district. *Naturschutz und Landschaftspanung*, 29:202-207.
- Koschinski, S., Culik, B.M., Henriksen, O.D., Tregenza, N., Ellis, G., Jansen, C., and Kathe, C.** (2003). Behavioural reactions of free-ranging porpoises and seals to the noise of a simulated 2MW windpower generator. *Marine Ecology Progress Series*, 265:263-273.
- Künitzer, A., Basford, D., Craeymeersch, J.A., Dewarumez, J.M., Dörjes, J., Duineveld, C.A., Eleftheriou, A., Heip, C., Herman, P., Kingston, P., Niermann, U., Rachor, E., Rumohr, H., and de Wilde, P.A.J.** (1992). The Benthic Infauna of the North Sea: Species Distribution and Assemblages. *ICES Journal of Marine Science*, Vol. 49.
- Laidre, K., Henriksen, O.D., Teilmann, J. and Dietz, R.** (2001). Satellite tracking as a tool to study potential effects of an offshore wind farm on seals at Rodsand. Technical report for the Ministry of the Environment and Energy, Denmark.
- Larsen, J.K. and Madsen, J.** (2000). Effects of wind turbines and other physical elements on field utilization by pink-footed geese: a landscape perspective. *Landscape Ecology*, 15:755-764.
- Le Fèvre, J.** (1986). Aspects of the biology of frontal systems. *Advances in Marine Biology*, 23:163-299.
- Leaper G.M., Webb A., Benn S., Prendergast H.D.V., Tasker M.L. and Schofield R.** (1988). Seabird studies around St Kilda, June 1987. Nature Conservancy Council, CSD Report 804, Peterborough.
- Lloyd, C., Tasker, M.L., and Penkrige, K.** (1991). *The Status of Seabirds in Britain and Ireland*, published by T. & A. D. Poyser, London, 355pp.
- Lusseau, D., Bailey, H., and Thompson, P.M.** (2005). AU 1: Sensitive area for marine mammals. Report for the EU-supported DOWNVInD project. Lighthouse Field Station, University of Aberdeen.
- Mavor, R.A., Parsons, M., Heubeck, M. and Schmitt, S.** (2005). Seabird numbers and breeding success in Britain and Ireland, 2004. Peterborough, Joint Nature Conservation Committee. (UK Nature Conservation, No. 29).
- MCA** (2004). Available from: [http://www.mcga.gov.uk/c4mca/mcga-environmental/mcga-dops\\_row\\_receiver\\_of\\_wreck/mcga-dops-row-protected-wrecks.htm](http://www.mcga.gov.uk/c4mca/mcga-environmental/mcga-dops_row_receiver_of_wreck/mcga-dops-row-protected-wrecks.htm)
- McAdam, B.J.** (2005). A Monte-Carlo model for bird/wind turbine collisions. MSc Thesis, University of Aberdeen, August, 2005.
- McAdam, B.J., Thomson, P.M., and Corkrey, R.** (2005). Quantifying effects of bird flight height and wind conditions on the mortality risk from wind farms (in prep.).
- McCauley, R.D.** (1994). Seismic surveys. In: Swan, J.M., Neff, J.M., Young, P.C. (Eds.) *Environmental Implications of Offshore Oil and Gas Development in Australia – the findings of an independent scientific review*. APEA, Sydney.
- McIntyre, A.D.** (1958). The ecology of Scottish inshore fishing grounds: 1. The bottom fauna of east coast grounds. *Marine Research*, 1:1-24.
- McIveen, F.** (1999). Ross and Cromarty landscape character assessment. Prepared for SNH.
- MCS** (2005). [http://www.mcsuk.org/basking\\_sharks/recent\\_sightings.php](http://www.mcsuk.org/basking_sharks/recent_sightings.php)

**MCS** (2005). Basking shark watch 1987-2004 report. [http://www.mcsuk.org/basking\\_sharks/basking\\_shark.php?title=figures+and+maps+of+sightings](http://www.mcsuk.org/basking_sharks/basking_shark.php?title=figures+and+maps+of+sightings)

**Metcalfe, J.D., Holford, B.H. and Arnold, G.P.** (1993). Orientation of plaice (*Pleuronectes platessa*) in the open sea: evidence for the use of external directional clues. *Marine Biology*, 117:559-566.

**Mills, D., and Graesser, N.** (1992). *The Salmon Rivers of Scotland*. Ward Lock, London

**Mitchell, P. I, Newton, S. F., Ratcliffe, N. and Dunn, T. E.** (2004). *Seabird populations of Britain and Ireland*. Published by T. & A. D. Poyser, London, May 2004.

**Mudge G.P., and Crooke C.H.,** (1986). Seasonal changes in the numbers and distribution of seabirds in the Moray Firth, northeast Scotland. *Proceedings of the Royal Society of Edinburgh*, B 91:81-104.

**Mudge G.P., Crooke C.H., and Barret, C.F.** (1984). The offshore distribution and abundance of seabirds in the Moray Firth. Report to BritOil (unpublished), 212pp.

**Mullarney, K., Svensson L., Zetterstrom D., and Grant P.J.** (1999). *Collins Bird Guide*, Harper Collins.

**Nedwell, J.R. and Howell, D.M.** (2004). A review of offshore windfarm related underwater noise sources. Subacoustech Report Reference: 544R0308, November 2004, to COWRIE.

**Nedwell, J.R. and Turnpenny, A.W.H.** (1998). The use of a generical weighted frequency scale in estimating environmental effect. Proceedings of the workshop on seismics and marine mammals, 23-25 June 1998, London, UK.

**Nedwell, J.R., Edwards, B. and Needham, K.** (2001). Noise measurements during pipeline laying operations around the Shetland Islands for the Magnus EOR project. A report for BP, Subacoustech Report Reference: 473R0112.

**Nedwell, J.R., Turnpenny, A.W.H., Lovell, J.M., Langworthy, J.W., Howell, D.M. and Edwards, B.** (2003). The effects of underwater noise from coastal piling on salmon (*Salmo salar*) and brown trout (*Salmo trutta*). Subacoustech Report Reference 576R0113.

**Nedwell, J.R., Langworthy, J., and Howell, D.** (2004a). Assessment of sub-sea acoustic noise and vibration from offshore wind turbines and its impact on marine wildlife; initial measurements of underwater noise during construction of offshore windfarms, and comparison with background noise. Subacoustech Report Reference: 544R0424, November 2004, to COWRIE.

**Nedwell, J.R., Edwards, B., Turnpenny, A.W.H., and Gordon, J.** (2004b). Fish and marine mammal audiograms: A summary of available information. Subacoustech Report Reference: 534R0214, September 2004.

**Nedwell, J.R., Workman, R., and Parvin, S.J.** (2005) The assessment of likely levels of piling noise at Greater Gabbard and its comparison with background noise, including piling noise measurements made at Kentish Flats. Subacoustech Report Reference: 633R0115.

**Noer, H., Christensen, T.K., Clausager, I., and Petersen, I.K.** (2000). Effects on birds of an offshore wind park at Horns Rev: Environmental Impact Assessment. Report by NERI to Elsamprojekt A/S 2000.

**North Sea Task Force** (1993). *Quality Status Report of the North Sea 1993*.

- Northridge, S.P., Tasker, M.L., Webb, A. and Williams, J.M.** (1995). Distribution and Relative Abundance of Harbour Porpoises (*Phocoena phocoena* L.), White-beaked Dolphins (*Lagenorhynchus albirostris* Gray), and Minke Whales (*Balaenoptera acutorostrata* Lacepede) around the British Isles. *ICES Journal of Marine Science*, 52(1):55-66.
- Norton, M. P.** (1989). *Fundamentals of noise and vibration analysis for engineers*, Cambridge University Press, Cambridge.
- OSPAR** (2000). *Quality Status Report 2000 for the North-East Atlantic*. OSPAR Commission, London 2000.
- OSPAR** (2003). Background document on problems and benefits associated with the development of offshore windmill farms (draft). A report to the meeting of the biodiversity committee (BDC). BDC 03/4/2-E, 11pp.
- Painter, A., Little, B., and Lawrence, S.** (1999). Continuation of bird studies at Blythe Harbour wind farm and the implications of offshore wind farms. DTI ETSU Report No. W/13/00485/00/00.
- Pennycuick, C.J.** (1997). Actual and optimum flight speeds: Field data reassessed. *Journal of Experimental Biology*, 200:2355-2361.
- Pennycuick, C.J.** (2001). Speeds and wingbeat frequencies of migrating birds compared with calculated benchmarks. *Journal of Experimental Biology*, 204:3283-3294.
- Percival, S.M.** (1998). Birds and wind turbines – managing potential planning issues. In, S. Powles (Ed.). British Wind Energy Association. Bury St. Edmunds, Cardiff.
- Percival, S.M.** (2001). Assessment of the effects of offshore wind farms on birds. Report to the DTI by ETSU, Report Reference W/13/00565/REP; DTI/Pub URN 0/1434.
- Percival, S.M.** (2003). Birds and wind farms in Ireland: a review of potential issues and impact assessment.
- Percival, S.M., Band, B. and Leeming, T.** (1999). Assessing the ornithological effects of wind farms: developing a standard methodology. Proceedings of the 21st British Wind Energy Association Conference.
- Petterson J. and Stalin T.** (2003). Influence of offshore windmills on migration birds in southeast coast of Sweden. Report to GE Wind Energy.
- Pingree R.D., Pugh P.R., Holligan P.M., and Forster G.R.** (1975). Summer phytoplankton blooms and red tides along tidal fronts in the approaches to the English Channel. *Nature*, 258:672–677.
- Popper, A.N., Ketten, D., Dooling, R., Price, J.R., Brill, R., Erbe, C., Schusterman, R., and Ridgeway, S.** (1998). Effects of anthropogenic sounds on the hearing of marine mammals. Presented at the workshop on the effects of anthropogenic noise in the marine environment, 10-12th February 1998.
- Quinn, T.P. and Brannon, E.L.** (1982). The use of celestial and magnetic clues by orienting Sockeye salmon smolts. *Journal of Comparative Physiology*, 147:547-552.
- Reid J.B., Evans P.G.H., and Northridge S.P. (Eds.)**, (2003). *Atlas of Cetacean Distribution in North-west European Waters*. JNCC, Peterborough.
- Richards, J.** (1999). Inverness district landscape character assessment. Prepared for SNH.
- Richardson, W.J., Greene, C.R., Malme, C.I., and Thomson, D.H.** (1995). *Marine Mammals and Noise*: Academic Press, San Diego and London.

**RSPB et al.**, 2002. *Birds of Conservation Concern*. RSPB, Sandy. RSPB, BirdLife International, British Trust for Ornithology, Countryside Council for Wales, English Nature, Game Conservancy Trust, Hawk and Owl Trust, Joint Nature Conservation Committee, National Trust, Scottish Natural Heritage, Wildfowl and Wetlands Trust and the Wildlife Trusts.

**Sanders-Reed, C.A., Hammond, P.S., Grellier, K and Thompson, P.M.** (1999). *Development of a population model for Bottlenose dolphins*. Research, Survey and Monitoring Report No 156.

**SCOS** (2004). Scientific advice on matters related to the management of seal populations: 2004. A report by the Special Committee on Seals.

**Scottish Office Environment Department** (2000). National Planning Policy Guideline 6 (NPPG 6): Renewable Energy.

**Scottish Office Environment Department** (2000). National Planning Policy Guideline 14 (NPPG 14): Natural Heritage.

**Scottish Office Environment Department** (2002). Planning Advice Note 45 (PAN 45): Renewable Energy Technologies.

**Shearer, W.M.** (1992). *The Atlantic Salmon: Natural History, Exploitation and Future Management*. Fishing News Books, Oxford.

**Simmonds, M.P., and Dolman, S.** (1999). A note on the vulnerability of cetaceans to acoustic disturbance. International Whaling Commission. IWC51/E15.

**Sims, D.W., Southall, E.J., Quayle, V.A., and Fox, A.M.** (2000). Annual social behaviour of basking sharks associated with coastal front areas. *Proceedings of the Royal Society of London B*, 267(1455):1897 – 1904.

**Sims, D.W., Southall, E.J., Richardson, A.J., Reid, P.C., and Metcalfe, J.D.** (2003). Seasonal movements and behaviour of basking sharks from archival tagging: no evidence of winter hibernation. *Marine Ecology Progress Series*, 248:187–196.

**Skov, H., Durinck, J., Leopold, M.F., and Tasker, M.L.** (1995). *Important bird areas for seabirds in the North Sea*. BirdLife International, Cambridge.

**SML** (2005). Analysis of four years' radar data on fishing boat movements in the Beatrice field area. Report to Talisman Energy (UK) Limited by SML.

**Smith, G.W., Johnstone, A.D.F., Wilson, M.J. and Phillips, T.C.** (1995). The movements of Atlantic salmon (*Salmo salar* L.) in the estuary of the Aberdeenshire Dee in relation to environmental factors. ICES Report CM 1995/M:45.

**SNH** (1993). The Moray Firth Review. Scottish Natural Heritage North-West and North-East Regions.

**SNH** (1997). Inner Moray Firth landscape character assessment. Prepared by Sarah Fletcher.

**SNH** (1998). Caithness and Sutherland landscape character assessment.

**SNH** (1999). Ross and Cromarty landscape character assessment.

**SNH** (1999). Inverness District landscape character assessment.

- SNH** (2000). Natura casework guidance: Consideration of proposals affecting SPA and SAC. Scottish Natural Heritage Guidance Notes Series.
- SNH** (2001). Guidelines on the Environmental Impact of Windfarms and Small Scale Hydroelectric Schemes, Scottish Natural Heritage, 2001.
- SNH** (2002). Wilderness in Scotland's countryside. Scottish Natural Heritage Policy Statement No. 02/03
- SNH** (2002). *A Handbook on Environmental Impact Assessment*. Scottish Natural Heritage, Perth.
- SNH** (2002). Visual Assessment of Windfarms: best Practice, University of Newcastle, 2002. Scottish Natural Heritage commissioned Report F01AA303A.
- SNH** (2003). A review of possible marine renewable energy development projects and their natural heritage impacts from a Scottish perspective. Scottish Natural Heritage Commissioned Report F02AA414.
- SNH** (2004). Marine Renewable Energy and the Natural Heritage: An Overview and Policy Statement. Scottish Natural Heritage Policy Statement No. 04/01, June 2004.
- SNH and The Countryside Agency** (2002). Landscape character assessment for England and Scotland.
- Souza, J.J., Poluhowich J.J. and Guerra, R.J.** (1988). Orientation responses of American eels, *Anguilla rostrata*, to varying magnetic fields. *Comparative Biochemistry and Physiology*, A 90(1):57-61.
- Spaven, M.** (2005). Beatrice Demonstrator wind farm. Report on Aviation and Telecommunications Impacts. A report for Talisman Energy (UK) Limited, September 2005.
- Stanton, C.** (1998). Caithness and Sutherland landscape character assessment. Prepared for SNH.
- Stone, C.J., Webb, A., Barton, C., Ratcliffe, N., Reed, T.C., Tasker, M.L., Camphuysen, C.J. and Pienkowski, M.W.** (1995). *An atlas of seabird distribution in north-east European waters*. JNCC, Peterborough.
- Symonds Group Ltd.** Visual and landscape effect of WTG units: The CCW contract science report No. 631. Studies to inform advice on offshore renewable energy developments: visual perception versus photomontage.
- Talisman** (2000). Environmental Statement for the Beatrice Pipeline Replacement Project. Report No. D/1125/2000, Talisman Energy (UK) Limited.
- Talisman** (2001). Beatrice Field offshore wind farm development: Review of environmental impacts, issues and consents. Report for Talisman Energy (UK) Limited by Metoc plc, October 2001.
- Talisman** (2003). Environmental report for Beatrice Field. Talisman Environmental Report Series, August 2003. Report No. HSE-RPT-BEA-001, Talisman Energy (UK) Limited.
- Talisman** (2004). Beatrice Field Decommissioning Programme. Submitted to the UK DTI by Talisman Energy (UK) Limited
- Talisman** (2005). Beatrice wind farm demonstrator project scoping report. A report prepared by Talisman Energy (UK) Limited.
- Tasker, M.L.** (1996). Seabirds. In: J.H. Barne, C.F. Robson, S.S. Kaznowska, J.P. Doody, N.C. Davidson, A.L. Buck, (Eds.). *Coasts and seas of the United Kingdom. Region 3 North-east Scotland: Cape Wrath to St Cyrus*. Joint Nature Conservation Committee, Peterborough, pp.112-115.

**Tasker, M.L.** (1997). Seabirds. In: JH Barne, CF Robson, SS Kaznowska, JP Doody, NC Davidson, A.L. Buck (Eds.). *Coasts and seas of the United Kingdom. Region 1 Shetland*. Joint Nature Conservation Committee, Peterborough, pp.108-113.

**Taylor, P.B.** (1986). Experimental evidence for geomagnetic orientation in juvenile salmon (*Oncorhynchus tshawytscha* Walbaum). *Journal of Fish Biology*, 28:607-623.

**The Highland Council** (2000). The south and east Sutherland local plan.

**The Highland Council** (2001). The Highland Structure Plan: Written statement. March 2001. [http://www.highland.gov.uk/plintra/devplans/pdf/sp2001cover\\_contents\\_foreword.pdf](http://www.highland.gov.uk/plintra/devplans/pdf/sp2001cover_contents_foreword.pdf)

**The Highland Council** (2002). The Caithness local plan. September, 2003. <http://www.highland.gov.uk/plintra/devplans/caith/adopted/adopted.htm>

**The Landscape Institute and the Institute of Environmental Assessment (LI & IEA)** (2002). *Guidelines for Landscape and Visual Impact assessment – 2nd edition*.

**The Moray Council** (1999). The Moray Structure Plan. <http://www.moray.gov.uk/downloads/file44284.pdf>

**The Moray Council** (2000). The Moray local plan. <http://www.moray.gov.uk/downloads/file44269.pdf>

**The Wildlife and Countryside Act** (1981). HMSO.

**Thompson, P.M., McConnell, B.J., Tollit, D.J., Mackay, A., Hunter, C., and Racey, P.A.** (1996). Comparative distribution, movements and diet of harbour and grey seals from the Moray Firth, North East Scotland. *Journal of Applied Ecology*, 33:1572-84.

**Thompson, P.M., White, S. and Dickson, E.** (2004). Co-variation in the probabilities of sighting harbour porpoises and bottlenose dolphins. *Marine Mammal Science*, 20(2):322-328

**Tougaard, J., Carstensen, J., Henriksen, O.D., Skov, H., and Teilmann, J.** (2003). Short term effects of the construction of wind turbines on harbour porpoises at Horns Reef. Technical report to Techwise A/S. HME/362-02662.

**Tourism and the Environment Forum** (2004). "Water Recreation at River Spey Generates £13.5 Million". October, 2004.

**Tourism and the Environment Forum** (2005). "Measuring the economic benefits of tourism based on water-based and land-based wildlife activity". July, 2005.

**Tulp, I., Schekkerman, H., Larsen, J.K., van der Windon, J., van de Haterd, R.J.W., van Horssen, P., Dirksen, S., and Spaans, A.L.** (1999). Nocturnal flight activity of seabirds near windfarm Tunø Knob in the Kattegat. IBN-DLO Report No. 99.30.

**UK BAP.** *Biodiversity: The UK Steering Group Report*. Volume II: Action Plans. HMSO, London and also [www.ukbap.org](http://www.ukbap.org)

**UKDMAP** (1998). Version 3.00. Includes supplementary Seabirds and Cetaceans software compiled by JNCC, Aberdeen.

**UKHO (UK Hydrographic Office)** (2005). Protection of historic, dangerous and military wreck sites. Repetition of the former notice: 16/04. [www.ukho.gov.uk/attachments/2005/annual\\_nms/ANM16%202005.pdf](http://www.ukho.gov.uk/attachments/2005/annual_nms/ANM16%202005.pdf)

- UKOOA** (2001). An analysis of U.K Offshore Oil & gas Environmental Surveys 1975-95. Prepared by Heriot Watt University, September 2001. Available from: <http://www.oilandgas.org.uk/issues/ukbenthos/docs/analysissurveys.pdf>
- Vella, G., Rushforth, I., Mason, E., Hough, A., England, R., Styles, P., Holt, T. and Thorne, P.** (2001). Assessment of the effects of noise and vibration from offshore windfarms on marine wildlife. A report for the UK DTI by ETSU, reference W/13/00566/REP: DTI/Pub URN 01/1341.
- Walker, M.M., Kirschvink, G.A. and Diction, A.E.** (1992). Evidence that fin whales respond to the geomagnetic field during migration. *Journal of Experimental Biology*, 171:67-78.
- Watson, E.S.** (1995). *Abandonment of drill cuttings piles*. The Beatrice oilfield. MSc dissertation.
- WCA** (1981). The Wildlife and Countryside Act 1981. HMSO. Available from: [www.naturenet.net/law/wca.html](http://www.naturenet.net/law/wca.html)
- Westerberg, H.** (1999). Impact studies of sea-based windpower in Sweden. Presented at Technische Eingriffe in marine Lebensraume, brundesamt fur Naturschutz, Internationale Naturschutzakademie, Insel Vilm.
- WDCS** (2003). *Oceans of Noise*. Whale and Dolphins Conservation Society Science Report. Edited by Mark Simmons, Sarah Dolman and Lindy Weilgart.
- Whaley, A.R.** (2004). The distribution and relative abundance of the harbour porpoise (*Phocoena phocoena* L.) in the southern outer Moray Firth, NE Scotland. Thesis submitted for the degree of Bachelor of Science, University of Aberdeen.
- Williams, R. and Conway, D.V.P.** (1984). Vertical distribution, and seasonal and diurnal migration of *Calanus helgolandicus* in the Celtic Sea. *Marine Biology*, 79:63-73.
- Williams J.M., Tasker M.L., Carter I.C., Webb A.,** (1994). A method of assessing seabird vulnerability to surface pollutants. *IBIS* 137: S147-S152.
- Wilson, B, Thompson, P, and Hammond, P.S.** (1997). Habitat use by bottlenose dolphins: seasonal distribution and stratified movement patterns in the Moray Firth, Scotland. *Journal of Applied Ecology*, 34:1365-1374.
- Wilson, B., Reid, R.J., Grellier, K., Thompson, P.M and Hammond, P.S.** (2004). Considering the temporal when managing the spatial: a population range expansion impacts protected areas-based management for bottlenose dolphins. *Animal Conservation*, 7:331-338.
- Wilson, J.B.** (1979). The distribution of the coral *Lophelia pertusa* in the north-east Atlantic. *Journal of the Marine Biological Association of the UK*, 59:149-164.
- Wilson, S. and Downie, A.J.** (2003). *A Review of Possible Marine Renewable Energy Development and their Natural Heritage Impacts from a Scottish Perspective*. Commissioned by Scottish Natural Heritage. Report No. F02AA414.
- Yano, A., Ogura, M., Sato, A., Sakaki, Y., Shimizu, Y., Baba, N. and Nagasawa, K.** (1997). Effect of modified magnetic field on the ocean migration of maturing chum salmon, *Oncorhynchus keta*. *Marine Biology*, 129:523-530.

