

## THE IMPACT OF OIL SPILLS ON SEABIRDS

Much has been published on the effects of oil on seabirds, but the literature on the impact of oil spills on seabird *populations* is not so extensive as one might expect. This list must be seen as a first attempt to get an overview of published material. Any additions, or comments are welcomed. The key studies should be identified and preferably be made available on the internet or otherwise for consultation as part of the manuals written for future impact assessments. The first list contains general titles, the later lists address specific spills within Europe.

### General references

- Anne Hoover-Miller, Keith R. Parker & John J. Burns 2001. A reassessment of the impact of the Exxon Valdez oil spill on Harbor Seals (*Phoca vitulina*) in Prince William Sound, Alaska. *Mar. Mamm. Sc.* 17: 111-135.
- Anonymous 1998. The environmental impact of the Sea Empress oil spill. Sea Empress Environmental evaluation Committee, The Stationary Office, London, 135pp.
- Bourne W.R.P. 1994. Special review: the impact of the Gulf War. *Sea Swallow* 43: 84-85.
- Bourne W.R.P. 1979. The Impact of Torrey Canyon and Amoco Cadiz Oil on North French Seabirds. *Mar. Poll. Bull.* 10(5): 124.
- Butler, R. G., A. Harfenist, F. A. Leighton & D. B. Peakall 1988. Impact of sublethal oil and emulsion exposure on the reproductive success of Leach's storm petrels: short and long term effects. *J. Appl. Ecol.* 25: 125-143.
- Cadiou B., E. Cam, M. Fortin, J-Y. Monnat, G. Gélinaud, J. Cabelguen & A. Le Roch 2003. Impact de la marée noire de l'Erika sur les oiseaux marins migrateurs: détermination de l'origine et de la structure des populations par la biométrie. Rapport Bretagne Vivante-SEPNB, DIREN Bretagne, 56pp.
- Cadiou B., L. Riffaut, K.D. McCoy, J. Cabelguen, M. Fortin, G. Gélinaud, A. Le Roch, C. Tirard & T. Bouludier 2004. Ecological impact of the " Erika" oil spill: Determination of the geographic origin of the affected common guillemots. *Aquat. Living Resour.* 17: 369-377.
- Campbell L. 1980. The impact of an oilspill in the Firth of Forth on great crested grebes. *Scott. Birds.* 11: 43-48.
- Camphuysen C.J. 1991. The interpretation of data derived from Beached Bird Surveys: monitoring the impact of chronic oil pollution. In: Camphuysen C.J. & J.A. van Franeker (eds). *Oil pollution, Beached Bird Surveys and Policy: towards a more effective approach to an old problem.* Proc. Int. NZG/NSO workshop, 19 April 1991, Rijswijk, Sula 5 (special issue): 19-21.
- Camphuysen C.J., J. Chardine, M. Frederiksen & M. Nunes 2005. Review of the impacts of recent major oil spills on seabirds. In: Anonymous (ed.) Report of the Working Group on Seabird Ecology, Texel, 29 March - 1 April 2005. Oceanography Committee, ICES CM 2005/C:05, Ref. ACME+E, International Council for the Exploration of the Sea, Copenhagen, Denmark.
- Chardine J.W. 1992. Seabirds: victims and monitors of marine oil pollution. In: Ryan P.M. (ed.) *Managing the environmental impact of offshore oil production:* 29-34. Proc. 32nd meeting Can. Soc. Env. Biol.
- Clark N.A., P.F. Donald, T.M. Mawdesley & R.J. Waters 1990. The impact of the Mersey oil spill of August 1989 on the populations and distributions of waterfowl. BTO Research Report No. 62: 1-107.
- Clark R.B. 1984. Impact of oil pollution on seabirds. *Environ. Pollu. Ser. A.* 33: 1-22.
- Clotouche E. & Schaecken P. 1982. L'accident pétrolier survenu en Basse-Meuse liegeoise en 1981 et son impact sur l'avifaune. *Aves* 19(1): 47-57.
- Crawford R.J.M., Davis S.A., Harding R.T., Jackson L.F., Leshoro T.M., Meyer M.A., Randall R.A., Underhill L.G., Upfold L., van Dalsen A.P., van der Merwe E., Whittington P.A., Williams A.J. & Wolvaardt A.C. 2000. Initial impact of the Treasure oil spill on seabirds off western South Africa. *S. Afr. J. mar. Sci.* 22: 157-176.
- Davies J.M. & Topping G. (eds) 1997. *The Impact of an Oil Spill in Turbulent Waters: The Braer.* The Stationary Office Ltd, Edinburgh.
- Elmslie K. & F. Wiese 2004. Evaluation and prevention of the impact of deliberate oil discharges on seabirds in the Canadian North Atlantic. Abstracts poster presentations 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations: 23. King's College Conference Centre, Aberdeen University, 2-4 April 2004, Aberdeen.
- Evans M.I. & G.O. Keijl 1993. Impact of Gulf War oil spills on the wader populations of the Saudi Arabian Gulf coast. *Sandgrouse* 15: 85-105.
- Evans M.I., C.W.T. Pilcher & P. Symens 1991. Impact of the Gulf War on birds. *Ornithological Society of The Middle East Bulletin* No. 27: 1-6.

- Hall A., J. Watkins & L. Hiby 1996. The impact of the 1993 Braer oil spill on grey seals in Shetland. *Sci. Total Environ.* 186: 119-125.
- Hanssen O.J. 1982. Impact on the local breeding population of Common Eider, Red-breasted Merganser and Black Guillemot in the Østfold Archipelago after an Oil spill 1978 (I). In: Myrberget S. (ed.). *Negative Faktorer for Sjøfugl, NKV's Møte Høvikodden 1981*. Viltrapport 21: 51-55.
- Heubeck M. 1997. The long-term impact of the Esso Bernicia Oil Spill on numbers of common loons *Gavia immer* wintering in Shetland, Scotland. *Effects of Oil on Wildlife, proceedings 5th Int. Conf. Monterey, California, 3-6 November 1997*: 110-122.
- Heubeck M. 1997. The direct effect of the Braer Oil Spill on seabird populations & an assessment of the role of the Wildlife Response Centre. In: Davies J.M. & Topping G. (eds) *The Impact of an Oil Spill in Turbulent Waters: The Braer*: 73-90. The Stationary Office Ltd, Edinburgh.
- Heubeck M., Camphuysen C.J., Bao R., Humple D., Sandoval A., Cadiou B., Bräger S. & Thomas T. 2003. Assessing the impact of major oil spills on seabird populations. *Mar. Poll. Bull.* 46: 900-902.
- IPIECA 2004. A guide to oiled wildlife response planning. IPIECA Report series, Vol 13, International Petroleum Industry Environmental Conservation Association, London.
- Isaksen K. & Bakken V. 1995. Seabirds in the northern Barents Sea. Source data for the impact assessment of the effects of oil drilling activity. *Meddelelser Nr. 135, Norsk Polarinstitut*, 134 pp.
- Kingston P.F., Dixon I.M.T., Hamilton S. & Moore D.C. 1995. The impact of the Braer oil spill on the macrobenthic infauna of the sediments off the Shetland Islands. *Mar. Poll. Bull.* 30(7): 445-459.
- Lindén O., Elmgren R. & Boehm P. 1979. The Tsesis oil spill: Its impact on coastal ecosystems of the Baltic Sea. *Ambio* 8(6): 244-253.
- Lorentsen S.-H., Anker-Nilssen T., Kroglund R.T. & Østnes J.E. 1993. Konsekvensanalyse oljesjøfugl for petroleumsvirksomhet i norsk del av Skagerrak. NINA forskningsrapp. 39: 1-84. Maki A.W. 1991. The Exxon Valdez oil spill: Initial environmental impact assessment. *Environ. Sci. Technol.* 25(1): 24-29.
- Mosbech A. 2000. Predicting Impacts of Oil Spills - Can Ecological Science Cope? A case study concerning birds in Environmental Impact Assessments. Ph-D. Thesis, Roskilde University, published by National Environmental Research Institute, Denmark, 126 pp.
- Myrberget S. & Røy N. 1982. Behov for konsekvensanalyser oljeboring/sjøfugl. *Vår Fuglefauna* 5(2): 134-137.
- Nadeau R.J. 1977. Assessing the biological impact of oil spills: a new role for EPA biologists. In: Fore PL (ed) 1977. *Proceedings of the 1977 Oil Spill Response Workshop*: 55-60. US Fish & Wildl.Serv., Biol.Serv.Progr. FWS/OBS/77-24, National Space and Technology Laboratories, Mississippi.
- Nel D.C., Crawford R.J.M. & Parsons N. 2003. The conservation status and impact of oiling on the African Penguin. In: Nel D.C. & Whittington P.A. (eds) *Rehabilitation of oiled African Penguins: a conservation success story*: 1- 7.
- BirdLife South Africa and Avian Demography Unit, Cape Town. Nijkamp H., Conroy J., Clumpner C. & Thomas T. 2004. *Guidelines for Oiled Wildlife Response Planning - Results Athens Workshop*. Sea Alarm Foundation, Brussels.
- Piatt J.F., C.J. Lensink, W. Butler, M. Kendziorek & D.R. Nysewander 1990. Immediate impact of the 'Exxon Valdez' oil spill on marine birds. *Auk* 107: 387-397. Piatt J.F., Lensink C.J., Butler W., Kendziorek M. & Nysewander D.N. 1990. Immediate impact of the "Exxon Valdez" oil spill on marine birds. *Auk* 107(2): 387-397.
- Ramos A., M. Dopico, R. Bao, M. Heubeck, D. Humple, C.J. Camphuysen & Antonio Sandoval Rey 2004. The Prestige incident: assessing the impact of a major oil spill. Abstracts poster presentations 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations": 39. King's College Conference Centre, Aberdeen University, 2-4 April 2004, Aberdeen.
- Rehfishch, M., S. Warbrick, N. A. Clark, R. H. W. Langston & S. Delany 1992. The impact of the Severn oil spill of February 1991 on the populations and distributions of waterfowl. *BTO Research Report No. 81*: 1-141.
- Riffaut L., K.D. McCoy, C. Trirard, V.L. Friesen & T. Boulinier 2004. Oil spill and seabird conservation: using population genetics to assess the geographic impact of the Erika oil spill on Common Guillemot populations. Abstracts poster presentations 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations": 39. King's College Conference Centre, Aberdeen University, 2-4 April 2004, Aberdeen.
- Rikardsen, F., W. Vader, R. Barrett, K. B. Strann & H. M. Iversen 1987. Environmental impact study: oil/seabirds, Troms 2. *Troms Naturvitenskap No. 56*: 1-135.
- SEO/BirdLife 2003. The disaster of Prestige oil tanker and its impact on seabirds. Third report: january-February 2003. SEO/BirdLife, Madrid.
- Simmonds M. 1991. The wildlife impact of Exxon Valdez. Unpublished preliminary report.
- Stienen E.W.M., Van de Walle M. & Courtens W. 2004. Inschatting van de impact van het Tricolor-incident op de aantallen en soorten watervogels in Belgische wateren op lange termijn. In: Stienen E.W.M., Courtens W. &

- Van de Walle M. (eds) Interacties tussen antropogene activiteiten en de avifauna in de Belgische zeegebieden: 39-49. Rapport IN A.2004.136, Instituut voor Natuurbehoud, Brussel.
- Symens P. & A. Suhaibani 1993. Impact of Gulf War oil spills on wintering seabird populations along the northern Arabian Gulf coast of Saudi Arabia, 1991. *Sandgrouse* 15: 37-43.
- Symens P. & M. I. Evans 1993. Impact of Gulf War oil spills on Saudi Arabian breeding populations of terns *Sterna* in the Arabian Gulf, 1991. *Sandgrouse* 15: 18-36.
- Wilhelm S.I., Robertson G.J., Ryan P.C. & Schneider D.C. 2005. A comparison of two estimates of the number of seabirds at risk from the Terra Nova FPSO oil spill. Post presentation The 8th International Effects of Oil on Wildlife Conference, St Johns, Canada.
- Zydelis R. & Dagys M. 1997. Winter period ornithological impact assessment of oil related activities and sea transportation in Lithuanian inshore waters of the Baltic Sea and in the Kursiu Lagoon. *Acta Zool. Lituanica* 6: 45-65.

### **Amoco Cadiz**

- Bourne W.R.P. 1979. The Impact of Torrey Canyon and Amoco Cadiz Oil on North French Seabirds. *Mar. Poll. Bull.* 10(5): 124.
- Conan G. 1982. The long-term effects of the Amoco Cadiz oil spill. *Phil. Trans. R. Soc. London (B)* 297(1087): 323-334.
- Gundlach E.R., Boehm P.D. Marchand M. Atlas R.M. Wand D.M. & Wolfe D.A. 1983. The Fate of Amoco Cadiz Oil. *Science* 221: 122-129.
- Guyomar'ch J.P. & Monnat J.-Y. 1978. Caractéristiques et comportement du pétrole déversé à la mer. In: *La marée noire de l'Amoco Cadiz*: 339-360. *Penn. ar Bed. Special issue* 11: 229-310.
- Jones P.H., Monnat J.-Y., Cadbury C.J. & Stowe T.J.S. 1978. Birds oiled during the Amoco Cadiz incident: An interim report. *Mar. Poll. Bull.* 9(11): 307-310.
- Jones P.H., Monnat J.-Y. & Harris M.P. 1982. Origin, age and sex of auks (*Alcidae*) killed in the 'Amoco Cadiz' oiling incident in Brittany, March 1978. *Seabird* 6: 122-130.
- Lawler G.C., Holmes J.P., Adamkiewicz D.M., Shields M.I., Monnat J.-Y. & Laseter J.L. 1981. Characterization of petroleum hydrocarbons in tissues of birds killed in the Amoco Cadiz oil spill. In: Anonymous (ed.). *Amoco Cadiz: Fates and Effects of the Oil Spill*: 573-583. *Proc. Int. Symp.* 19-22 Nov. Centre Océan. Bretagne, Brest.
- Mead C. 1978. Amoco Cadiz oil disaster. The ringing recoveries. *BTO News* 93: 1-2.
- Monnat J.-Y. 1978. Mortalités d'oiseaux a la suite du naufrage du pétrolier Amoco Cadiz. *Penn. Ar. Bed.* 11: 339-360.
- Penicaud P. 1979. La marée noire de l'Amoco Cadiz et les oiseaux de mer. *Le Courrier de la Nature* No. 61: 1-6.
- Penicaud P. 1979. The seabird community of Sept-Iles Reserve, Brittany, France. *Terre et la Vie* 33(4): 591-610.

### **Braer**

- Anonymous 1993. The ecological steering group on the oil spill in Shetland: an interim report on survey and monitoring, May 1993. The Scottish Office (Environm. Dept.), Edinburgh.
- Davies J.M. & Topping G. (eds) 1997. *The Impact of an Oil Spill in Turbulent Waters: The Braer*. The Stationary Office Ltd, Edinburgh.
- Edgell N. 1994. The Braer tanker incident: some lessons from the Shetland Islands. *Mar. Poll. Bull.* 29(6-12): 361-367.
- Elferink A.O. 1993. Liability and compensation of oil pollution damage to the environment: is the existing international regime satisfactory?. *North Sea Monitor* March 93: 8-11.
- Ewins P.J. & Heubeck M. 1995. Monitoring the effects of a major oil spill on an inshore seabird: Black Guillemots (*Cepphus grylle*) in Shetland. Abstracts of the Joint Conference of the Colonial Waterbird Society and the Pacific Seabird Group, 8-12 November 1995: 47-48. Victoria, B.C.
- Furness R.W. 1994. Gizzard contents of seabirds collected after the Braer oil spill. *Seabird Group Newsl.* 67: 5-6.
- Gjerde K.M. 1993. Particularly sensitive sea areas: protecting them from maritime threats. *North Sea Monitor* March 93: 4-8.

- Hall A., J. Watkins & L. Hiby 1996. The impact of the 1993 Braer oil spill on grey seals in Shetland.. *Sci. Total Environ.* 186: 119-125.
- Heubeck M. 1994. The impact of the Braer oil spill on Shetland's breeding seabirds. *Seabird Group Newsl.* 67: 3-5.
- Heubeck M. 1997. The direct effect of the Braer Oil Spill on seabird populations & an assessment of the role of the Wildlife Response Centre. In: Davies J.M. & Topping G. (eds) *The Impact of an Oil Spill in Turbulent Waters: The Braer: 73-90.* The Stationary Office Ltd, Edinburgh.
- Heubeck M. 2000. Population trends of Kittiwake *Rissa tridactyla*, Black Guillemot *Cepphus grylle* and Common Guillemot *Uria aalge* in Shetland, 1978-98. *Atlantic Seabirds* 2(3/4): 227-244.
- Heubeck M., Harvey P. & Uttley J. 1995. Dealing with the wildlife casualties of the Braer Oil spill, Shetland, January, 1993. *Shetland Oil Terminal Envir. Adv. Group & Aberdeen University Research and Industrial Services Ltd, Aberdeen, 83pp.*
- Hill R.W.F. 1993. The Shetland oil spill. *Mar. Poll. Bull.* 26(3): 115-116.
- Monaghan P. & Burns M.D. 1994. Sub-lethal effects of crude oil on the breeding and foraging performance of seabirds. Final Report NERC grant GR3/9020A. In: Ritchie & O'Sullivan (eds). *The environmental impact of the wreck of the Braer.* Scottish Office, Glasgow.
- Osborn K. 1996. The Braer - The effects on breeding seabirds. <http://www.wildlife.shetland.co.uk/braer/Part10.html>.
- Proctor R., Elliot A.J. & Flather R.A. 1993. Forecast and hindcast simulations of the Braer oil spill. *Mar. Poll. Bull.* 28(4): 219-229.
- Tasker M.L. & Heubeck M. 1993. Shetland oil spill, impact on birds. *Seabird Group Newsletter No. 64: 2.*
- Turrell W.R. 1993. Modelling the Braer oil spill - a retrospective view. *Mar. Poll. Bull.* 28(4): 211-218.
- Weir D.N., R.Y. McGowan, A.C. Kitchener, S. McOrist, B. Zonfrillo & M. Heubeck 1995. Iceland Gulls from the 'Braer' disaster, Shetland 1993.. *Brit. Birds.* 88: 15-25.
- Wolff G.A., Preston M.R., Harriman G. & Rowland S.J. 1993. Some preliminary observations after the wreck of the oil tanker Braer in Shetland. *Mar. Poll. Bull.* 26(10): 567-571.

### Ekofisk Bravo

- Anonymous 1977. Foreløpig rapport om aksjonen i forbindelse med ukontrollert utblåsning på produksjonsplattform Ekofisk Bravo. Unpublished Internal Report, Norway.
- Audunson T. 1977. Bravoutblåsingen: Feltobservasjoner, analyseresultater og beregninger tilknyttet oljen på sjøen. *Cont. Shelf Institute, Trondheim, Publ. 90.*
- Langhelle G. 1977. Sjøfuglregistreringer i forbindelse med Bravoulykken, Ekofisk april 1977, Del II. *Min. Environm., Norway. Mimeogr. 16pp.*
- Mead C. 1977. Ten years after Torrey Canyon. *BTO News* 87: 1-2.
- Mehlum F. 1977. Sjøfuglregistreringer i forbindelse med Bravoulykken, Ekofisk april 1977, Del I. *Min. Environm., Norway. Mimeogr. 28pp.*
- Mehlum F. 1980. Seabirds and the Bravo blow-out at Ekofisk North Sea. *Acta Orn.* 17(10):119-126.

### Erika

- Anonymous 2000. Un triste record! L'Oiseau Hors-Série 1(4), Spécial marée noire de l'Erika: 50-51.
- Boulinier 2001. Genetic study of Guillemots to trace the origin of seabirds killed in the Erika oilspill. *Seabird Group Newsletter* 87: 2-3.
- Cadiou B., Chenesseau D. & Joslain H. 2002. Immediate impact of the Erika oil spill on birds. Oral presentation MEDMARAVIS International conference on oil pollution and conservation of biodiversity, Porto Torres (Sardinia), 17-20 October 2002.
- Cadiou B., Chenesseau D. & Joslain H. 2003. Marée noire de l'Erika \_ Contribution à l'étude de l'impact sur l'avifaune. Bilan national des échouages et de la mortalité des oiseaux (BNEMO). Rapport Bretagne Vivante-SEPNB, LPO Loire-Atlantique, Observatoire des marées noires, DIREN Bretagne, 96 p.
- Cadiou B. & Dehorter O. 2003. Marée noire de l'Erika - Contribution à l'étude de l'impact sur l'avifaune Analyse des reprises/contrôles de bagues. Rapport Bretagne Vivante-SEPNB, CRBPO, DIREN Bretagne, 23 pp.

- Cadiou B., E. Cam, M. Fortin, J-Y. Monnat, G. Gélinaud, J. Cabelguen & A. Le Roch 2003. Impact de la marée noire de l'Erika sur les oiseaux marins migrateurs: détermination de l'origine et de la structure des populations par la biométrie. Rapport Bretagne Vivante-SEPNB, DIREN Bretagne, 56pp..
- Cadiou B., L. Riffaut, K.D. McCoy, J. Cabelguen, M. Fortin, G. Gélinaud, A. Le Roch, C. Tirard & T. Boulinier 2004. Ecological impact of the " Erika" oil spill: Determination of the geographic origin of the affected common guillemots. *Aquat. Living Resour.* 17: 369-377.
- Cadiou B., Cloérec P., Le Noc C., Pourreau J. & Desmots D. 2003. Marée noire de l'Erika \_ Contribution à l'étude de l'impact sur l'avifaune. Suivi des populations d'oiseaux marins et littoraux nicheurs. L'eider à duvet dans le golfe de Gascogne, bilan 2000-2002. Rapport Bretagne Vivante-SEPNB, LPO, DIREN Bretagne, 9 p.
- Cadiou B., Le Floc'h P. & Siorat F. 2003. Marée noire de l'Erika \_ Contribution à l'étude de l'impact sur l'avifaune. Suivi des populations d'oiseaux marins et littoraux nicheurs. Le guillemot de Troïl en Bretagne, bilan 2000-2002. Rapport Bretagne Vivante-SEPNB, LPO, DIREN Bretagne, 10 p.
- Castège I., G. Hémerly, N. Roux, J. d'Elbée, Y. Lalanne, F. D'Amico & C. Mouchès 2004. Changes in abundance and at-sea distribution of seabirds in the Bay of Biscay prior to & following the " Erika" oil spill. *Aquat. Living Resour.* 17: 361-367.
- Dréan-Quénech'hdu S. le & L'Hostis M. 2001. Recherches mises en place sur les oiseaux mazoutes lors de naufrage de l'Erika. Service de parasitologie, zoologie appliquée/Centre de Soins et de sauvegarde, Ecole Nationale Vétérinaire de Nantes, Nantes, 70pp.
- Dubrac B. 2000. Retour sur un désastre. *L'Oiseau Hors-Série* 1(4), Spécial marée noire de l'Erika: 8-9.
- Ferlaux C. 2001. Traitement des oiseaux mazoutes de la marée noire de l'Erika au centre de soins de l'Ecole Nationale Veterinaire de Nantes. Ph.D.-thesis, Faculté de Médecine de Nantes, Nantes, 301pp.
- Grantham M. 2004. Winter distribution of British and Irish Guillemots and the oil spill threat. Abstracts oral presentations 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations: 25. King's College Conference Centre, Aberdeen University, 2-4 April 2004, Aberdeen.
- Grantham M. 2004. Age structure and origins of British & Irish Guillemots recovered in recent European oils spills. *Atlantic Seabirds* 6(3): 95-108.
- Le Dréan-Quénech'hdu S. 2001. Recherches mises en place sur les oiseaux mazoutes lors du naufrage de l'Erika. Ecole Nationale Vétérinaire de Nantes, Nantes, 70pp.
- Mustoe S. 2001. The Erika oil spill. In: Cresswell G. & Walker D. (eds) A report on the whales, dolphins and seabirds of the Bay of Biscay and English Channel: 96-100. ORCA No. 1, Organisation Cetacea (ORCA), St. Neots, Cambs. U.K. <http://www.orcaweb.org.uk/downloads/Erikaoilspill.doc>.
- Riffaut L., K.D. McCoy, C. Trirard, V.L. Friesen & T. Boulinier 2004. Oil spill and seabird conservation: using population genetics to assess the geographic impact of the Erika oil spill on Common Guillemot populations. Abstracts poster presentations 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations: 39. King's College Conference Centre, Aberdeen University, 2-4 April 2004, Aberdeen.
- Stienen E.W.M., Van de Walle M., Courtens W. & Kuijken E. 2004. Strandingen van vogels langs de Belgische kust in de winter 2003-2004. In: Stienen E.W.M., Courtens W. & Van de Walle M. (eds) Interacties tussen antropogene activiteiten en de avifauna in de Belgische zeegebieden: 6-19. Rapport IN A.2004.136, Instituut voor Natuurbehoud, Brussel.
- Votier S.C., B.J. Hatchwell, A. Beckerman, R.H. McCleery, F.M. Hunter, J. Pellatt, M. Trinder & T.R. Birkhead 2005. Oil pollution and climate have wide-scale impacts on seabird demographics. *Ecology Letters* 8: 1157-1164.

### Esso Bernicia

- Ewins P.J. & Heubeck M. 1995. Monitoring the effects of a major oil spill on an inshore seabird: Black Guillemots (*Cephus grylle*) in Shetland. Abstracts of the Joint Conference of the Colonial Waterbird Society and the Pacific Seabird Group, 8-12 November 1995: 47-48. Victoria, B.C.
- Foxton P. & Heubeck M. 1995. Response to the Esso Bernicia oil spill. *Proc. Roy. Soc. Edinb.* 103B: 233-245.
- Heubeck M. 1997. The long-term impact of the Esso Bernicia Oil Spill on numbers of common loons *Gavia immer* wintering in Shetland, Scotland. *Effects of Oil on Wildlife*, proceedings 5th Int. Conf. Monterey, California, 3-6 November 1997: 110-122.
- Heubeck M. & Richardson M.G. 1980. Bird mortality following the Esso Bernicia oil spill Shetland December 1978. *Scott. Birds* 11(4): 97-108.
- Heubeck M., Richardson M.G., Lyster I.H.J. & McGowan R.Y. 1993. Post-mortem examination of Great Northern Divers *Gavia immer* killed by oil pollution in Shetland, 1979. *Seabird* 15: 53-59.

- Richardson M.G. 1979. The environmental effects of the 'Esso Bernicia' fuel oil spill, Sullom Voe, Shetland, January 1979. Unpubl. Report Nature Conservancy Council.
- Richardson M.G., Dunnet G.M. & Kinnear P.K. 1981. Monitoring seabirds in Shetland. Proc. Roy. Soc. Edinb. 80B: 157-179.

### **Borcea**

- Baptist H.J.M. 1988. Vogelconcentraties in de Voordelta tijdens en voorafgaande aan het 'Borcea-incident', december 1987-januari 1988. Sula 2(1): 21-23.
- Camphuysen C.J., Hart S. & Zandstra H.S. 1988. Zeevogelsterfte na olie-lekkage door de ertscarrier MS Borcea voor de Zeeuwse kust januari 1988. Sula 2(1): 1-12.
- Jong F. de 1988. De ramp met de Borcea; milieuwetgeving in theorie en praktijk. Springtij 87-4/88-1: 10-11.
- Zandstra H. 1991. Opvangplan "olie-" vogels (1982). In: Camphuysen C.J. & J.A. van Franeker (eds). Oil pollution, Beached Bird Surveys and Policy: towards a more effective approach to an old problem. Proc. Int. NZG/NSO workshop, 19 April 1991, Rijswijk, Sula 5 (special issue): 37-40.

### **Mystery spill 1969, Wadden Sea**

- Jager S. de & Belterman T. 1970. Treatment of oiled eider duck in Holland. Mar. Poll. Bull. 1: 156-157.
- Spaans A.L. 1969. De massale sterfte van zeevogels door olie in februari 1969 in het Waddengebied. Waddenbull. 4(2): 7-8.
- Swennen C. & Spaans A.L. 1970. De sterfte van zeevogels door olie in februari 1969 in het Waddengebied. Het Vogeljaar 18: 233-245.

### **Pallas**

- Fleet D.M. & Reineking B. 2000. Beached Bird Surveys. Wadden Sea Newsletter 2000(2): 26-28.
- Fleet D.M., Gaus S., Hartwig E., Potel P., Reineking B. & Dieckhoff M.S. 1999. Pallas-Havarie und Seevögelsterben dominieren Spülsaumkontrollen im Winter 1998/99. Seevögel 20(3): 79-84.
- Reineking B. 1998. Status report on the average of the bulkcarrier MS Pallas, 9 November 1998. Unpubl. report Wadden Sea Secretariat, 10-11-1998, Wilhelmshaven.
- Reineking B. 1998. Brand aan boord van het vrachtschip Pallas: opnieuw een olie-incident in de Noordzee. Sula 12(3): 105-109.
- Schneider U. 2002. Pallas, Erika, Prestige usw.... Seevögel 23: 82.

### **Prestige**

- Alvarez D. & Pajuelo M.A.F. 2004. Differential migration in a wintering population of Common Guillemots *Uria aalge* affected by the Prestige oil spill. *Ardeola* 51(2), 2004, 451-454.
- Arcos J.M., D. Alvarez, P.M. Leyenda, I. Munilla & A. Velando 2004. Seabird mortality caused by the Prestige oil spill: preliminary insights from a drift blocks experiment. Abstracts poster presentations 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations: 10. King's College Conference Centre, Aberdeen University, 2-4 April 2004, Aberdeen.
- Bao R., D. Bigas, J. Castelló, L. García, M. Dopico, M. Fernández Boán, A. Ramos & C. J. Camphuysen 2005. Edad, sexo y origen de los Frailecillos Atlánticos (*Fratercula arctica*) afectados por la marea negra del Prestige en A Coruña. Oral presentation VI Congreso Galego de Ornitología e V Jornadas Ornitológicas Cantábricas, in Viveiro, Lugo (Spain), 29th-31st October, 2005.
- Camphuysen C.J., Heubeck M., Cox S., Bao R., Humple D., Abraham C. & Sandoval A. 2002. The Prestige oil spill in Spain. *Atlantic Seabirds* 4(3): 131-140.
- Cousteau J-M. . Nunca Mais. Ocean Futures Society, Santa Barbara.

- Dopico M., A. Ramos & C.J. Camphuysen 2005. Dieta invernal de la población de Arao Común (*Uria aalge*) afectada por el vertido del petrolero Prestige en la provincia de A Coruña. Oral presentation VI Congreso Galego de Ornitoloxía e V Jornadas Ornitológicas Cantábricas, in Viveiro, Lugo (Spain), 29-31 Oct, 2005.
- Fernández Boán M., L. García, A. Ramos, M. Dopico, D. Bigas, J. Castelló, R. Bao & C.J. Camphuysen 2005. Características generales de la población de Arao Común (*Uria aalge*) afectada por el accidente del petrolero Prestige en la costa de A Coruña. Oral presentation VI Congreso Galego de Ornitoloxía e V Jornadas Ornitológicas Cantábricas, in Viveiro, Lugo (Spain), 29th-31st October, 2005.
- García L., Viada C., Moreno-Opo R., Carboneras C., Alcalde A. & González F. 2003. Impacto de la marea negra del "Prestige" - sobre las aves marinas. SEO/BirdLife, Madrid, 126pp.
- Grantham M. 2004. Winter distribution of British and Irish Guillemots and the oil spill threat. Abstracts oral presentations 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations: 25. King's College Conference Centre, Aberdeen University, 2-4 April 2004, Aberdeen.
- Grantham M. 2004. Age structure and origins of British & Irish Guillemots recovered in recent European oils spills. *Atlantic Seabirds* 6(3): 95-108.
- Heubeck M., Camphuysen C.J., Bao R., Humple D., Sandoval A., Cadiou B., Bräger S. & Thomas T. 2003. Assessing the impact of major oil spills on seabird populations. *Mar. Poll. Bull.* 46: 900-902.
- Nijkamp H. & Conroy J. 2003. The activities of the Sea Alarm foundation in the aftermath of the Prestige incident. Sea Alarm Foundation, Brussels, 22pp.
- Ramos A., M. Dopico, M. Fernández Boán, L. García, D. Bigas, J. Castelló, R. Bao & C.J. Camphuysen 2005. Caracterización de las poblaciones de Alca torda L., 1758 afectadas por el vertido del petrolero Prestige y comparación con otras mareas negras. Oral presentation VI Congreso Galego de Ornitoloxía e V Jornadas Ornitológicas Cantábricas, in Viveiro, Lugo (Spain), 29th-31st October, 2005.
- Ramos A., M. Dopico, R. Bao, M. Heubeck, D. Humple, C.J. Camphuysen & Antonio Sandoval Rey 2004. The Prestige incident: assessing the impact of a major oil spill. Abstracts poster presentations 8th Intern. Seabird Group Conference "North Atlantic Seabird Populations: 39. King's College Conference Centre, Aberdeen University, 2-4 April 2004, Aberdeen.
- SEO/BirdLife 2003. The disaster of Prestige oil tanker and its impact on seabirds. Third report: January-February 2003. SEO/BirdLife, Madrid.
- Varela M. 2005. El arao común el caso del Prestige. Unpublished analysis autopsy data, University of La Coruña.
- Velando A., D. Alvarez, J. Mouriño, F. Arcos & A. Barros 2005. Population trends and reproductive success of the European shag *Phalacrocorax aristotelis* on the Iberian Peninsula following the Prestige oil spill. *J. Orn.* 146(2): 116-120.
- Velando A., Munilla I. & Leyenda P.M. ms. Short-term indirect effects of the Prestige oil spill on a marine top predator: changes in prey availability for European Shags. MS Dept. Ecol. Biol. Anim., Univ. Vigo, Spain.
- Votier S.C., B.J. Hatchwell, A. Beckerman, R.H. McCleery, F.M. Hunter, J. Pellatt, M. Trinder & T.R. Birkhead 2005. Oil pollution and climate have wide-scale impacts on seabird demographics. *Ecol. Lett.* 8: 1157-1164.

### Sea Empress

- Anonymous 1998. The environmental impact of the Sea Empress oil spill. Sea Empress Environmental evaluation Committee, The Stationary Office, London, 135pp. Anonymous 1998. Effaith amgylcheddol arllwysiad olew y Sea Empress. Sea Empress Environmental evaluation Committee, The Stationary Office, London, 135pp.
- Baines M.E. & Earl S.J. 1996. Breeding seabird survey of south-west Wales, 1996. CCW Sea Empress Contract Report No. 173, Dyfed Wildlife Trust, Pembrokeshire.
- Colombé S., Reid J.B. & Webb A. 1996. Seabird studies off south-west Wales and south-east Ireland following the Sea Empress incident at Milford Haven, February 1996. JNCC Report No. 225, Joint Nature Conservation Committee, Aberdeen, 40pp.
- White I.C. & Baker J.M. 1999. The Sea Empress oil spill in context. Paper presented at the International Conference on the Sea Empress oil spill, 11-13th February 1998, Cardiff, Wales, The International Tanker Owners Pollution Federation, <http://www.itopf.com/seeec.pdf>, accessed 25/4/2005.

### Stylis

- Anker-Nilssen T., Jones P.H. & Røstad O.W. 1988. Age, sex and origins of auks (Alcidae) killed in the Skagerrak oiling incident of January 1981. *Seabird* 11: 28-46.

- Anker-Nilssen T. & Lorentsen S.-H. 1995. Size variation of Common Guillemots *Uria aalge* wintering in the northern Skagerrak. *Seabird* 17: 64-73.
- Anker-Nilssen T. & Røstad O.W. 1981. Oljeskadede sjøfugl Skagerak 1980/81. Direkt Vilt og Ferskvannsfisk, Trondheim.
- Anker-Nilssen T. & Røstad O.W. 1981. Undersøkelser av oljeskadede sjøfugler i forbindelse med oljekatastrofen i Skagerak desember 1980/januar 1981. Viltrapport 16: 1-41.
- Anker-Nilssen T. & Røstad O.W. 1982. Oljekatastrofen i Skagerrak ved årsskiftet 80/81 - omfang og undersøkelser. *Vår Fuglefauna* 5(2): 82-90.
- Baillie S.R. & Mead C.J. 1982. The effect of severe oil pollution during the winter of 1980-81 on British and Irish auks. *Ringling & Migr.* 4: 33-44.
- Blake B.F. 1983. A comparative study of the diet of auks killed during an oil incident in the Skagerrak in January 1981. *J.Zool., London* 201: 1-12.
- Jones P.H. 1981. Skagerrak oiling incident - Flying visit to Oslo. *Seabird Group Newsl.* 31: 12.
- Mead C. & Baillie S. 1981. Seabirds and oil: the worst winter. *Nature* 292 (7): 10-11.
- Norderhaug M. 1981. Sjøfuglulykken i ytre Oslofjord desember 1980-januar 1981. Naturvernsinspektøren for Sør-Norge. Situasjonsrapport 5.1.1981, Oslo. Mimeogr. 16pp.
- Norderhaug M. 1981. Sjøfuglulykken i ytre Oslofjord desember 1980-januar 1981. Naturvernsinspektøren for Sør-Norge. Situasjonsrapport 12.1.1981, Oslo. Mimeogr. 8pp.
- Pehrsson O. 1981. Oljedöden i kustströmmarna - alkfågelnas öde? *Sveriges Natur* 72: 197-201.
- Pehrsson O. 1981. Oljedöden slår till igen på västkusten. *Vår Fågelvärld* 40(1): 69-71.
- Pettersen R. 1981. Oljesøl i Trondheimsfjorden. *Vår Fuglefauna* 4(2): 116-117.
- Uddén J. & Åhlund M. 1984. Sjöfågeldöden och oljan på bohuskusten nyåret 1981. Länsstyrelsen Naturvårdsenheten 1984: 1 Göteborg.

### Torrey Canyon

- Bourne W.R.P. 1967. The Torrey Canyon disaster. *Seabird Bull.* No. 3: 4-11.
- Bourne W.R.P. 1970. Special review - After the 'Torrey Canyon' Disaster. *Ibis* 112: 120-125.
- Bourne W.R.P. 1979. The Impact of Torrey Canyon and Amoco Cadiz Oil on North French Seabirds. *Mar. Poll. Bull.* 10(5): 124.
- Bourne W.R.P. & Devlin T.R.E. 1969. Birds and Oil. *Birds* 2(7): 176-178.
- Bourne W.R.P., Parrack J.D. & Potts G.R. 1967. Birds killed in the Torrey Canyon Disaster. *Nature* 215(9): 1123-1125.
- Conder P., Spencer R., Merrin P., Jackson B.S., Williams J.K., & Rook D. 1967. Torrey Canyon: Government action, The effect on birds, R.S.P.B. action, Detergent & Wildlife, To clean or kill, Oil Pollution and the Future. *Birds* 1(10): 201-212.
- Goethe F. 1968. The effects of oil pollution on populations of marine and coastal birds. *Helgol. Meeresunters.* 17: 370-374.
- Hudson R. 1967. Ringed victims of the Torrey Canyon. *BTO News* 23: 7-8.
- Mead C. 1977. Ten years after Torrey Canyon. *BTO News* 87: 1-2.
- Milon P. 1967. La marée noire a frappé les Sept-Iles. *L'Homme et L'Oiseau* (9): 50-53.
- O'Connor R.J. 1967. The Torrey Canyon: A census of Breeding Auks in Cornwall, June 1967. *Seabird Bull.* No. 4: 38-45.
- Phillips N.A. 1967. After the Torrey Canyon: Results of the pollution and census of Cornish breeding seabirds in 1967. *Cornwall Bird-watching and Preservation Society. 1967 Ann. Rep.* 90-129.

### Tricolor

- Camphuysen C.J. 2003. Olie-slachtoffers op de Nederlandse kust, 2002/2003: een trendbreuk in gevonden oliebevuilingspercentages. CSR Consultancy report 2003.01, Oosterend, Texel, 23pp.
- Camphuysen C.J. 2005. The Tricolor oil spill: an incident that should have been prevented. *Atlantic Seabirds* 6(3): 81-84.

- Camphuysen C.J. & M.F. Leopold 2005. The Tricolor oil spill: characteristics of seabirds found oiled in The Netherlands. *Atlantic Seabirds* 6(3): 109-128.
- Grantham M. 2004. Age structure and origins of British & Irish Guillemots recovered in recent European oils spills. *Atlantic Seabirds* 6(3): 95-108.
- Haelters J., F. Kerckhof & E.W.M. Stienen 2003. Het Tricolor incident: de gevolgen voor zeevogels in de Belgische zeegebieden. Rapp. Beh. Math. Model Noordzee (BMM/KBIN), Brussel, 36pp.
- Kerckhof F., Roose P. & Haelters J. 2004. The Tricolor incident: from collision to environmental disaster. *Atlantic Seabirds* 6(3): 85-94.
- Nijkamp H. & Conroy J. 2003. The activities of the Sea Alarm foundation in the aftermath of the Tricolor incident. Sea Alarm Foundation, Brussels, 26pp.
- Ouwehand J., Leopold M.F. & Camphuysen C.J. 2005. A comparative study of the diet of Guillemots *Uria aalge* and Razorbills *Alca torda* killed during the Tricolor oil incident in the south-eastern North Sea in January 2003. *Atlantic Seabirds* 6(3): 147-164.
- Rousseau C., J-C. Burvingt, R. Schallier, M. De Vos & L. Dagorn 2005. Le traitement de l'épave du Tricolor, accident de l'Adamandas. Bulletin d'information du Cedre n°20, CEDRE, Brest.
- Seys J. & Kerckhof F. 2003. De zwarte vloed van de 'Tricolor': gevolgen van een nooit eerder geziene olieramp voor de Belgische kust. *De Grote Rede* Nr. 7: 6-10.
- Stienen E.W.M., Courtens W. & Van de Walle M. 2004. Interacties tussen antropogene activiteiten en de avifauna in de Belgische zeegebieden. Rapport IN A.2004.136, Instituut voor Natuurbehoud, Brussel.
- Stienen E.W.M., Haelters J., Kerckhof F. & Waeyenberge J. van 2004. Three colours of black: seabird strandings in Belgium during the Tricolor incident. *Atlantic Seabirds* 6(3): 129-146.
- Stienen E.W.M., Van de Walle M. & Courtens W. 2004. Inschatting van de impact van het Tricolor-incident op de aantallen en soorten watervogels in Belgische wateren op lange termijn. In: Stienen E.W.M., Courtens W. & Van de Walle M. (eds) *Interacties tussen antropogene activiteiten en de avifauna in de Belgische zeegebieden*: 39-49. Rapport IN A.2004.136, Instituut voor Natuurbehoud, Brussel.
- Stienen E.W.M., Van de Walle M., Courtens W. & Kuijken E. 2004. Strandings van vogels langs de Belgische kust in de winter 2003-2004. In: Stienen E.W.M., Courtens W. & Van de Walle M. (eds) *Interacties tussen antropogene activiteiten en de avifauna in de Belgische zeegebieden*: 6-19. Rapport IN A.2004.136, Instituut voor Natuurbehoud, Brussel.
- Velter C. 2003. De zwarte vloed van de Tricolor. Rapp. Vogelopvang centrum Oostende, 28pp.
- Velter C. & J. Rodts 2003. Tricolor collision and seabird rescue in Belgium. Oral presentation 7th International Conference Effects of Oil on Wildlife, 14-16 October 2003, Hamburg.

Listed by C.J. Camphuysen, 2006

Amendments, additions, corrections welcomed