**Professor Jacqueline Myriam McGlade**
Executive Director, European Environment Agency
Kongens Nytorv 6
1050 Copenhagen K
Denmark
http://www.eea.europa.eu

## Education

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|---|---|
| 1974-77 | BSc (Joint Honours) Marine Biology, Biochemistry and Soil Science, University College of North Wales |
| 1977-80 | PhD Aquatic Sciences and Zoology, University of Guelph, Canada |

## Honorary Degrees

Doctor of Science, University of Kent (UK)
Honorary Fellow, University of Wales, Bangor (UK)
Honorary Professor, University of Warwick (UK)

## Employment

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|---|---|
| 2003- | Executive Director, European Environment Agency (Denmark) |
| 2003 | Professor, Department of Mathematics, University College London (UK) |
| 2000-03 | NERC Professorial Fellow, Mathematics & CoMPLEX, University College London (UK) |
| 1998-00 | Director, NERC Centre for Coastal & Marine Sciences (UK) |
| 1992-98 | Professor, Biological Sciences, University of Warwick (UK) |
| 1988-92 | Director, Theoretical Ecology, FZ Jülich (Germany) |
| 1987-90 | Adrian Fellow, Darwin College, Research Associate, Univ. Cambridge (UK) |
| 1987-88 | Associate Professor, IERC, Cranfield Institute of Technology (UK) |
| 1987-92 | Scholar, International Federation of Institutes of Advanced Studies (Netherlands) |
| 1981-87 | Senior Scientist, Fisheries & Oceans Canada (Canada) |

## Secondments

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|---|---|
| 1984-90 | National Oceanographic and Atmospheric Administration (USA); Canadian International Development Agency; Government of Indonesia; Royal Thai Government; Xerox PARC (USA) |

## Public & Scientific Non-stipendiary Appointments

| | |
|---|---|
| 2012 | UN Secretary General UN Ocean Compact, Member of Expert Group |
| 2011- | Open Geospatial Consortium, Board Member (International) |

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| 2010- | EU-Russia Environmental Dialogue, Co-Chair, Working Group on Convergence of Monitoring and Observing Systems |
| 2010 | Green Growth Council, Member (DK) |
| 2010-11 | UNECE Assessment of Assessments for the State of the Environment Report, Co-Chair, Ad-hoc Steering group |
| 2010-11 | Earthwatch UK, Trustee (UK) |
| 2010 | Aristotle Onassis Prize, Committee Member |
| 2009 | European Green Capital Award, Jury Member |
| 2008- | UNEP The Economics of Ecosystems and Biodiversity (TEEB), Advisory Board Member |
| 2008 - | Volvo Environment Prize, Jury Member |
| 2008- | UNEP International Resource Panel, Member |
| 2007-09 | UNGA Regular process for Global Reporting and Assessment of the State of the Marine Environment including Socio-economic aspects, Co-Chair Group of Experts |
| 2007-08 | UNEP GEO-4 Intergovernmental Advisory Panel, Co-Chair |
| 2007-08 | Calouste Gulbenkian International Prize for Biodiversity respect and Environmental Protection, Jury Member |
| 2006- | Resilience Alliance, Scientific Committee (International) |
| 2006-11 | Environmental Change Institute, Scientific Advisory Committee Member (UK) |
| 2006-11 | International Institute for Industrial Environmental Economics, Lund University, Academic Board Member |
| 2006- | St Andrews Environment Prize, Trustee (International) |
| 2005- | European Bank for Reconstruction and Development, Environmental and Social Advisory Council, Member |
| 2005-07 | Helmholtz Association Senate, Member (Germany) |
| 2004-06 | MERSEA 6th Framework Programme, Advisory Group Member (EU) |
| 2003-07 | Zuckerman Institute for Connective Environmental Research, Advisory Board Member (UK) |
| 2003-06 | Nansen Environmental and Remote Sensing Center, Scientific Council (Norway) |
| 2002 | People's Earth Summit, World Summit on Sustainable Development, Co-ordinator (SA) |
| 2002-10 | Natural History Museum, Trustee (UK) |
| 2002-04 | MSc Coastal Zone Management, University of Bournemouth, External Examiner (UK) |
| 2001-03 | Earth Centre Charitable Trust, Chair Board of Trustees (UK) |
| | Millennium Ecosystem Assessment, Scientific Committee (International) |
| | UNEP/GEF Global International Waters Assessment, Advisor |
| 2000 | Foundation for S&T, International R&D Review Committee Chair (Portugal) |
| 2000 | Oceanology International 2000, Conference Chair (UK) |
| 1999 | Women of the Year, Society of the Protection of Children (UK) |
| 1999-02 | Marine Foresight Panel, DTI, Member & associated task forces (UK) |
| | UK-China Forum Member, Science, Technology & Environment Group (UK) |
| | UK-Japan 21st Century Group, Member (UK) |
| | Joint Infrastructure Fund, International Scientific Advisory Board, Member (UK) |
| 1998-03 | Environment Agency, England and Wales, Board Member (UK) |
| | DGXII Environment, Energy & Sustainable Development, External Advisory Group Member |
| | Save British Science, Committee Member (UK) |
| | Shoals of Capricorn, Scientific Committee, Royal Geographical Society (UK) |
| | Darwin Initiative, DEFRA, Committee Member (UK) |
| 1997 | CGIAR System Review Committee, Member (International) |
| | EU Presidential Conference, Science Representative (Netherlands) |
| 1996 | G7 Summit "IT for Developing Countries", UK Representative (South Africa) |

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| | WWF-Unilever Marine Stewardship Council, Drafting Committee (UK) |
| 1996-01 | Forum for the Future, Advisory Board Member (UK) |
| 1995 | EU Representative 4th ASEAN Science and Technology Congress (Thailand) |
| 1994-98 | NERC Marine Science and Technology Board, Member (UK) |
| 1994-97 | BBSRC Engineering and Physical Sciences Committee, Member (UK) |
| 1994-97 | BBSRC Training and Awards Panel, Member (UK) |
| 1992-97 | International Centre for Living Aquatic Resources Management, Board Member (Philippines) |
| 1992-93 | UFZ Leipzig, Founding Committee Member (Germany) |
| 1992 | World Fisheries Congress, Co-Chair (Greece) |
| 1990- | The Earth Centre Charitable Trust, Trustee & Advisory Council Member (UK) |
| 1989-91 | World Bank Study of International Fisheries Research, Advisory Committee Member (USA) |
| 1989-90 | South West Atlantic Advisory Group Member (UK) |
| 1987-90 | British Antarctic Survey, Graduate Advisor (UK) |
| 1985-90 | International Council for the Exploration of the Seas, Assessment Working Groups |
| 1984-87 | United Nations University, Project Leader (Japan) |
| 1982-84 | Canadian Society for Environmental Biologists, National Executive Member (Canada) |
| 1975 | Univ. Coll. N. Wales Senate, Student Representative (UK) |

## Professional Affiliations & Certification

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|---|---|
| 2005- | EU/UK CAA Private Pilot Licence (A) (UK) |
| 1198- | Linnaean Society (Fellow) (UK) |
| 1997- | Royal Society for the Encouragement of Arts, Manufacture & Commerce (Fellow) (UK) |
| 1992- | British Ecological Society (Member) (UK) |
| 1989-06 | Royal Institution of Chartered Surveyors (Fellow) (UK) |
| 1976- | Board of Trade and Industry/Royal Yachting Association, Coastal Skipper (UK) |
| 1974-86 | Shellfish Association of Great Britain (Elected Member) (UK) |
| 1974- | British Sub-Aqua Club (Professional Diver)/PADI Advanced Diver (UK) |

## Editorial Boards

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|---|---|
| 2007- | Europe's World, Sustainable Europe Section Associate Editor |
| 1994-99 | Editorial Board, J. of Dynamical Systems (UK) |
| 1993-97 | Editorial Board, International Journal of Biosciences and the Law (UK) |
| 1987-90 | Editorial Board, Canadian Journal of Fisheries and Aquatic Sciences (Canada) |

## Research Interests

Analysis of risk and uncertainty in complex systems. Development & implementation of enviroinformatics, including definition of metadata structures, semantic nets and data analysis. Fuzzy-logic expert systems for environmental management and environmental forecasting. Ecological economics. Evolutionary ecology, with special reference to systematics of fishes and marine organisms. Marine ecosystems analysis. Application of earth observation data to ecosystem analysis and management. Modelling the spatio-temporal dynamics of terrestrial and aquatic systems. Nonlinear dynamics in biology. Artificial ecologies. Development of integrated fisheries management models. Development of a theory of governance for natural resources, with particular reference to sustainable development, global food security and the changing forms of political order.

## Public Funded Research Grants & Contracts

| | |
|---|---|
| 2003 | Depart of Trade and Industry Interactive System for Flood Management (£20k) |
| 2001-03 | EU Information Society DGX12 Virtu@lis (£88k) |
| 2001 | MAFF Broad-scale modelling review (£6k) |
| 2000-03 | NERC Professorial Fellowship (£250k) |
| 2000- | US Office of Naval Research Mine Burial Expert System ($50k) |
| 2000 | Ministry of Science & Technology, People's Republic of China, Travel award (£3k) |
| 2000 | UNEP Ecosystem approach to managing the marine environment (£2k) |
| 1999- | UNIDO Environmental challenge & assessment for industry (various) |
| 1998-00 | EU DGXII INCO Envifish S.Africa, Namibia & Angola (£80k) |
| 1997- | UNDP/GEF/NOAA/IUCN Gulf of Guinea and other Large Marine Ecosystems (various) |
| 1997 | EU DGVIII West African Ministerial research meeting at Warwick (£16k) |
| 1997 | Chevron Oil, Habitat assessment of the Angolan coast (£12k) |
| 1996-97 | NOAA, implementation of SIMCOAST into USA regional advisory councils (£17k) |
| 1996 | Worldwide Fund for Nature, Recovery plans for the North Sea (£9.5k) |
| 1996 | Unilever/Innovation Ecological effects of industrial fishing in the North Sea (£7k) |
| 1996- | GEOS Ltd Industrial sponsorship and joint research in forecasting |
| 1996-99 | EU DG XIV FAIR BY-CARE catch of small cetaceans in fisheries (£90k) |
| | EU DG XII INCO EU-ASEAN SimCoast™ (£320k) |
| 1996-98 | EU DG XII INCO programme for Gulf of Guinea (£210k) |
| 1996 | EU DG XII Communication network design, Initiative on Agricultural R & D (£8k) |
| | Isaac Newton Institute for Mathematics Symposium on Modelling Plankton Dynamics (£40k) |
| 1996-99 | Darwin Award for MSc scholarships (UK) (£160k) |
| 1996 | EU DG VIII Integrated Data Base for ACP scientists (£6k) |
| 1995-98 | BBSRC Biomathematics (UK) (£28k) |
| 1995 | BBSRC MRes studentships (15) (UK) (£120k) |
| 1995 | Gatsby Trust, European Business Network, Gaia Foundation studentships (various) |
| 1995 | EU DGVIII Development (various grants & contract £100k) |
| 1994 | EU MAST Short Course on Data Acquisition and Monitoring (£35k) |
| 1994-95 | EC DG XII S&T for Developing Countries (various contracts and grants £250k) |
| 1994-98 | NERC Special Topic on Testable models for aquatic systems (UK) (£82k) |
| 1993-96 | NERC Modelling in ecological systems (UK) (£78k) |
| 1993-96 | SERC Nonlinear dynamics in biological systems (UK) (£112k) |
| 1992-95 | Ministerial Conference for Africa on Fisheries Cooperation (west Africa) |
| 1991 | Biodiversity Project, Swedish Academy of Sciences (Sweden) (£10k) |
| | EU DGXIV Fisheries Governance of fisheries and aquaculture (£70k) |
| 1991-93 | Deutsche Forschungsanstalt für Luft und Raumfahrt (FRG)(£40k) |
| 1990 | Federal Government of Canada (Canada) (£5k) |
| | Commission of European Communities (DG XIV Fisheries) (£35k) |
| | Commission of European Communities (DG VIII Development) (£5k) |
| | Chalmers University (Sweden)(£25k) |
| | Greenpeace (UK) (£5k) |
| 1989 | Asian Development Bank (Indonesia)(£4k) |
| 1989 | NATO Advanced Workshop (Italy) (£40k) |
| 1988-92 | BMFT Theoretical ecology and modelling (Germany) (£2.5m) |
| 1987-88 | Canadian International Development Agency (Canada) (£10k) |
| 1987-89 | International Federation of Institutes for Advanced Study (The Netherlands)(£100k) |

1987-88 The Royal Society (UK)(£3k)
1984-87 United Nations University (Japan)(£100k)
1977 Woods Hole Oceanographic Institute Operating Grant (USA)(£2k)

## Publications

### Journal articles in refereed publications


1. McGlade, J.M. and H.R.MacCrimmon (1979) Taxonomic congruence in three populations of Quebec brook trout, Salvelinus fontinalis (Mitchill). *Can. J. Zool.* 52:1998-2009.
2. McGlade, J.M. (1981) Charrs. Salmonid fishes of the genus Salvelinus. *Q.Rev. Biol*. 211-212.
3. Ihssen, P.E., M.E.Booke, J.M.Casselman, J.M.McGlade, N.R.Payne and F.M.Utter (1981) Stock identification: materials and methods. *Can. J. Fish. Aquat. Sci*. 38:1838-1855.
4. McGlade, J.M. and S.Smith (1983) Principal components methods for exploratory data analysis of commercial length-frequency data. *Can. Spec. Publ. Fish. Aquat. Sci.* 66:235-239.
5. McGlade, J.M., M.C.Annand and T.J.Kenchington (1983) Electrophoretic identification of *Sebastes* and *Helicolenus* in the northwestern Atlantic. *Can. J. Fish. Aquat. Sci.* 40:1861-1870.
6. McGlade, J.M. and P.M. Allen (1985) The fishing industry as a complex system. p. 209-216 In: R.Mahon [ed.] Towards the inclusion of fishery interactions in management advice. *Can. Tech. Fish. Aquat. Sci.* No. 1347.
7. McGlade, J.M. (1986) Selected articles on fish genetics: introduction. *Can. J. Fish. Aquat. Sci*. 43:1027.
8. McGlade, J.M. and P.M.Allen (1986) Evolution of multifunctionalism in enzymes. *Can. J. Fish. Aquat. Sci.* 43:1052-1058.
9. McGlade, J.M. and E. Boulding (1986) The truss: a geometric and statistical approach to morphometrics in fishes. *Can. Tech. Fish. Aquat. Sci.* 1457.
10. Allen, P.M. and J.M.McGlade (1986) The dynamics of discovery and exploitation: the case of the Scotian Shelf groundfish fisheries. *Can. J. Fish. Aquat. Sci.* 43: 1187-1200.
11. Halliday, R.G., J.McGlade, R.Mohn, R.N.O'Boyle and M.Sinclair (1986) Resource and fishery distributions in the Gulf of Maine Area in relation to the Subarea 4/5 Boundary. *North Atlantic Fisheries Organisation Sci. Council Studies* 10: 67-92.
12. McGlade, J.M. (1987) The influence of Gulf stream gyre activity on recruitment variability in pollock. In I.Perry and K.Frank [eds.] Environmental Effects on Recruitment. *Can. Tech. Fish. Aquat. Sci*. 1556: 30 - 40.
13. Allen, P.M. and J.M.McGlade (1987) Modelling complex human systems: a fisheries example. *Eur. J. Op. Res.* 30(2):147-167.
14. Allen, P.M. and J.M. McGlade (1987) Evolutionary drive: The effects of microscopic diversity, error-making and noise. *Foundations of Physics* 17: 723-738.
15. McGlade, J.M. (1989) Integrated marine resource management: understanding the limits to exploitation*. Am. Fish. Soc. Symp.* 6 :139-165.
16. Hogg, T., B.A. Huberman and J.M.McGlade (1989) The stability of ecosystems. *Proc. R. Soc. Lond. B* 237: 43 - 51.

17. Mayo, R.K., J.M.McGlade and S.H.Clark (1989) Patterns of exploitation and biological status of pollock (*Pollachius virens* L.) in the Scotian Shelf, Georges Bank and Gulf of Maine area. *J. Northw. Atl. Fish. Sci.* 9: 13 - 36.
18. Dublin, H. T., A.R.E.Sinclair and J.McGlade (1990) Elephants and fire as causes of multiple stable states in the Serengeti-Mara woodlands. *J. Anim. Ecology* 59: 1147 - 1164.
19. McGlade, J. M. (1990) Ecological economics. *Trends Ecol. Evol.* 5: 396-397.
20. Lister, A.M., J.M. McGlade and A.J.Stuart. 1990 The early Pleistocene vertebrate fauna from Little Oakley, Essex. *Phil. Trans. R. Soc. Lond.B* 328: 359 - 385.
21. Adams, J.M., H.Fauré, L. Fauré-Denard, J.M. McGlade and F.I. Woodward (1990) Glacial-interglacial changes in terrestrial carbon storage. *Nature* 348: 711-714
22. Baird, D., J.M. McGlade and R.E. Ulanowicz (1990) The comparative ecology of six marine ecosystems. *Phil. Trans. Roy. Soc. Lond. B*. 333: 15 - 29
23. Rubec, P.J., J.M.McGlade, B.L. Trottier and A.Ferron (1991) Evaluation of methods for separation of Gulf of St. Lawrence beaked redfishes, *Sebastes fasciatus* and *S. mentella*: malate dehydrogenase patterns compared to gasbladder muscles and fin ray counts. *Can. J. Aquat. Fish. Sci.* 48: 640 - 660
24. Månsson, B. and J.M.McGlade (1993) Ecology, thermodynamics and H.T. Odum's conjectures. *Oecologia* 93: 582 - 596
25. Bauer, P., S.Gaito, J.M.McGlade and D.Winter (1993) Estimation of net photosynthetically available radiation over oceans from satellite data: application to a dynamical model of a plankton bloom in the Atlantic Ocean. *Photogrammetric Engineering & Remote Sensing* 59: 323 – 329
26. McGlade, J.M. 1993 Alternative ecologies. New Scientist. February 13:14 – 16
27. McGlade, J.M. and A.R.G.Price (1993) Mutidisciplinary modelling: an overview and practical implications for the governance of the Gulf region. *Mar. Pollut. Bull.* 27: 361-377
28. Rand, D.A., H.Wilson and J.M.McGlade (1994) Dynamics and evolution: evolutionarily stable attractors, invasion exponents and phenotype dynamics. *Phil. Trans. Roy. Soc. Lond. B.*343: 261 - 283.
29. McGlade, J.M. (1994) Chaos and its implications for marine resources science. *Marine Environmental Management* 1: 57-60
30. McGlade, J.M. (1994) Ecology, bureaucracy and differential equations. *Mathematics Review* 4:8 - 11
31. Hendry, R.J. and J.M.McGlade (1995) The role of memory in ecological systems. *Proc. R.Soc. B* 259:153-159
32. Hendry, R., J.M.McGlade & J. Weiner (1996) A coupled map lattice model of the growth of plant monocultures. *Ecol. Modelling* 84: 81-90
33. Keeling, M.J., Mezic, I., Hendry, R.J. McGlade, J.M. & D.A.Rand (1997) Characteristic length scales of spatial models in ecology via fluctuation analysis *Phil. Trans. Roy. Soc.*B 352: 1589-1601
34. Hendry, R., Bacon, P.J., Moss, R., Palmer, S.C.F. & J.McGlade (1997) A two-dimensional individual-based model of territorial behaviour: possible population consequences of kinship in Red Grouse. *Ecol. Modelling* 105:23-39
35. Novello-Hogarth, A. & J.McGlade (1997) Sustainable management of coastal resources: SimCoast™ a fuzzy-logic rule-based expert system. *Hydro International* 1:6-9

36. Bees, M, I.Mezic & J.M.McGlade (1998) Plankton interactions and chaotic advection in Langmuir circulation. *Mathematics & Computers in Simulation* 44:1-18
37. Cole, J.F.T. and J.McGlade (1998) Temporal and spatial patterning of sea surface temperature in the northern Benguela upwelling system: possible environmental indicators of clupeoid production. *South African Journal of Marine Science* 19: 143-157
38. Cole, J. and J.McGlade (1998) Clupeoid population variability, the environment and satellite imagery in coastal upwelling systems. *Reviews in Fish Biology and Fisheries* 8: 445-471
39. Hogarth, A.N. and J.McGlade (1998) Development of SimCoast . *Tambuli* 4:34-35 ISSN 01 18-4687
40. Anon. (1999) Fuzzy logic to manage coastal regions. SimCoast solves planning and development problems. *International Ocean Systems Design* 3: 4-7
41. Baird, M.E., S. Emsley & J.M. McGlade (2001) Modelling the interacting effects of nutrient uptake, light capture and temperature on phytoplankton growth. *J. Plankton Res.* 23: 829-840
42. Baird, M.E., S. Emsley & J.M.McGlade (2001) Using a phytoplankton growth model to predict the fractionation of stable carbon isotopes. *J. Plankton Res.* 23:841-848
43. Koranteng, K.A. & J.M. McGlade (2001) Climatic trends in continental shelf waters off Ghana and in the Gulf of Guinea, 1963-1992. *Oceanologica Acta* 24:187-198
44. McGlade, J.M. (2002) Governance of transboundary pollution in the Danube River. *Aquatic Ecosystem Health Management Sciences* 5(1): 95-110
45. McGlade, J.M. (2002) Primacy of Nature: earth democracy. *Resurgence* 214:40-41
46. McGlade, J.M. (2003) A diversity based fuzzy systems approach to ecosystem health assessment. *Aquatic Ecosystem Health Management Sciences* 6:205-216
47. Hardman-Mountford, N. and J.M.McGlade (2003) Seasonal and interannual variability of oceanographic processes in the Gulf of Guinea: an investigation using AVHRR sea surface temperature data. *Int. J. Remote Sensing* 24:2785-2809
48. van den Hove, S., McGlade, J. and M.H. Depledge (2011) European innovation: a means to an end. *Nature* 474: 161
49. van den Hove, S., McGlade, J., Mottet, P., and M.H. Depledge (2012) The Innovation Union: a perfect means to a confused ends? *Environmental Science and Policy* 16: 73 80.
50. UNEP (2012) *Measuring water use in a green economy*, A Report of the Working Group on Water Efficiency to the UNEP International Resource Panel. McGlade, J. (Lead Author); (Contributors) Werner, B., Young, M., Matlock, M., Jefferies, D., Sonnemann, G., Aldaya, M., Pfister, S., Berger, M., Farell, C., Hyde, K., Wackernagel, M., Hoekstra, A., Mathews, R., Liu, J., Ercin, E., Weber, J.L., Alfieri, A., Martinez-Lagunes, R., Edens, B., Schulte, P., von Wirén-Lehr, S., Gee, D. ISBN 978-92-807-3220-7 87p

**Books and Edited Volumes**

1. McGlade, J.M. and J.Shepherd [eds.] (1992) Techniques for biological assessment in fisheries management. Berichte aus der Ökologischen Forschung Vol. 9 63p ISBN 3-89336-091-3

2. Stokes, T.K., J.M.McGlade & R.Law [eds.] (1993) The exploitation of evolving resources*. Lecture Notes in Biomathematics* 99. Springer Verlag, Heidelberg. ISBN 3-540-57242-2
3. McGlade, J.M. [ed.] (1999) Advanced Ecological Theory, Blackwell Science 353p ISBN 0-86542-734-8
4. McGlade, J.M., K.Koranteng, P.Cury & N. Hardman-Mountford [eds.] (2002) The Gulf of Guinea Ecosystem. Elsevier, Amsterdam
5. European Environment Agency (2005) The European Environment: State and Outlook 2005 [contributing author] 570p EEA Copenhagen, ISBN 92-9167-776-0
6. European Environment Agency (2010) The European Environment: State an Outlook 2010 Synthesis [contributing author] 222p EEA Copenhagen, ISBN 978-92-9213-114-2
7. European Environment Agency (2011) Europe's Environment: An Assessment of Assessments [contributing author] 197p EEA Copenhagen, ISBN 978-92-9213-217-0

**Peer reviewed book chapters and reports**

1. McGlade, J.M. (1988) The evolution of spatial heterogeneity in marine populations. pp 29 - 39 In W. Wolff, C.J.Soeder and F.Drepper [eds.] Ecodynamics. Berlin, Springer-Verlag
2. Allen, P.M. and J.M. McGlade (1989) Optimality, adequacy and the evolution of Complexity. pp 1 - 24 In A.Holden [ed.] Nonlinear Science Theory and Applications, Manchester University Press
3. McGlade, J. and J.M.McGlade (1989) Modelling the innovative component of social change. pp 281 - 299. In S.Van der Leeuw and R.Torrence [eds] What's new? A closer look at the process of innovation. Hyman and Unwin, London
4. McGlade, J. M. (1990) The impact of global climate change on marine ecosystems. pp 165 - 184. In G.MacDonald and L.Sertorio [eds.] Model Ecosystems and Climate Change. Pergamon Press, New York
5. McGlade, J.M. (1991) The seas and shoreline as part of the European biosphere. pp.47 - 57. In S. Parkin and D. Fernbach [eds] Green Lights on Europe, Heretic Books, London
6. McGlade, J.M. and R.McGarvey (1992) Integrated fisheries management models. pp. 194 - 232. In H.D.Smith [ed.] Advances in the science and technology of ocean management. Routledge, London
7. McGlade, J.M. (1994) Dynamics of complex ecologies. pp 251-268. In E. Mosekilde and O. Mouritsen [eds.] Dynamical Phenomena in Living Systems, Springer Series in Synergetics
8. McGlade, J.M. (1999) Individual-based models in ecology. pp 1 – 22. (Chapter 1) In McGlade, J.M. [ed.] Advanced Ecological Theory. Principles and applications. Blackwell Science, Oxford
9. McGlade, J.M. (1999) Ecosystem analysis and the governance of natural resources. pp 309-341. (Chapter 11) In McGlade, J.M. [ed.] Advanced Ecological Theory. Principles and applications. Blackwell Science, Oxford
10. McGlade, J.M. (1999) Bridging disciplines: the role of scientific advice, especially biological modelling. pp 175-185 In Kooiman, J., van Vliet, M., and S. Jentoft [eds.] Creative Governance: Opportunities for Fisheries in Europe. Ashgate, Aldershot
11. McGlade, J. and K. Metuzals (2000) Options for the reduction of by-catches of harbour porpoises (*Phocoena phocoena*) in the North Sea. pp332-353. In Kaiser, M. and V de

Groot [eds.] Effects of Fishing on Non-target species and habitats. Blackwell Science, Oxford
12. McGlade, J.M. (2001) Governance of fisheries. pp349-361. (Chapter 19) In Bodungen, B. von and R.K.Turner [ed.] Science & Integrated Coastal Zone Management, Dahlem Conference 86, Dahlem University Press.
13. McGlade, J.M. (2001) State of the Planet: the Sustainability Agenda. In: The New Politics of Economy, Society and the Environment: the Challenge to the Media. St. Catharine's Conference Report 76:4-5. King George and Queen Elizabeth Foundation. ISSN 0955-3517
14. McGlade, J.M. (2002) The North Sea Large Marine Ecosystem. pp339-412. (Chapter 12) In Sherman, K. & G. Hempel (eds.) Large Marine Ecosystems of the North Atlantic, Elsevier, Amsterdam ISBN 0444510117 http://www.elsevier.com/locate/isbn/0444510117
15. Hardman-Mountford, N & J.M.McGlade (2002) Variability of Physical Environmental Processes in the Gulf of Guinea and Implications for Fisheries Recruitment. An Investigation Using Remotely Sensed SST. pp49-66 (Chapter 5) In McGlade, J.M., K.Koranteng, P.Cury & N. Hardman-Mountford [eds.] The Gulf of Guinea Ecosystem. Elsevier, Amsterdam ISBN 0444510281
16. Hardman-Mountford, N. & J.M.McGlade (2002) Defining Ecosystem Structure from Natural Variability: Application of Principal Components Analysis to Remotely Sensed SST. pp67-82 (Chapter 6) In McGlade, J.M., K.Koranteng, P.Cury & N. Hardman-Mountford [eds.] The Gulf of Guinea Ecosystem. Elsevier, Amsterdam ISBN 0444510281
17. Koranteng, K. & J.M.McGlade (2002) Physico-chemical changes in continental shelf waters of the Gulf of Guinea and possible impact on resource variability. pp93-102 (Chapter 8) In McGlade, J.M., K.Koranteng, P.Cury & N. Hardman-Mountford [eds.] The Gulf of Guinea Ecosystem. Elsevier, Amsterdam ISBN 0444510281
18. Lovell, A. & J.M.McGlade (2002) Population structure of two commercially important marine species in and around the Gulf of Guinea, West Africa. pp207-223 (Chapter 18) In McGlade, J.M., K.Koranteng, P.Cury & N. Hardman-Mountford [eds.] The Gulf of Guinea Ecosystem. Elsevier, Amsterdam ISBN 0444510281
19. McGlade, J.M. (2004) The Thames navigation and its role in the development of London, pp153-170 (Chapter 12) In Hunt, J.M. [ed.] London – A sustainable world city. Imperial College Press, London
20. McGlade, J.M. (2004) 'Fish in Spirits of Wine'. Darwin's zoological notebooks pp213-233. In Pauly, D. [ed.] Darwin's Fishes: an Encyclopedia of Ichthyology, Ecology and Evolution, Cambridge University Press, Cambridge ISBN 0521827779
21. Millennium Ecosystem Assessment (2005) Ecosystems and Human Well-being Volume 2 Findings of the scenarios working group Chapter 13 (coordinating lead author); Chapters 4 (lead author) 560p Island Press, Washington DC ISBN 1-55963-390-5

**Legal Documents**

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