#### DR. KEVIN STOKES - Curriculum Vitae

### **PERSONAL DETAILS**

Full Name: Terence Kevin Stokes D.O.B.: 1st. February 1957 Nationality: British, New Zealand

Ethnicity: European

Place of Birth: Chirk, Denbighshire, Wales

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### PRESENT POSITION

### April 2009 to present

Director of stokes.net.nz Ltd, a private company working internationally and offering scientific, management and policy services, primarily, but not exclusively, in the field of fisheries management science.

### May 2012 to present

Director of Shoal Ltd, a private company owned by four separate consulting companies and specialising in a range of fisheries and marine environmental disciplines, including economics, science, policy, business development, certification, planning, and review.

#### PREVIOUS EMPLOYMENT

### September 2000 to April 2009

Employer: The New Zealand Seafood Industry Council Ltd. (SeaFIC), Private Bag 24901,

Wellington, New Zealand

**Post:** Chief Scientist, responsible for research and development policy for the New Zealand

seafood industry, oversight of and involvement in stock assessment and related processes, wide-ranging scientific services provision for many New Zealand and

overseas clients.

#### April 1985 to August 2000

**Employer:** CEFAS Lowestoft Laboratory, Pakefield Road, Lowestoft, NR33 0HT, United Kingdom

Post: CEFAS (an "Executive agency", equivalent to a New Zealand Crown Research

Institute), operated a matrix style management system. I therefore had a set of roles,

rather than a single job. Those included:

 Senior Fisheries Science Adviser, with personal responsibility for representation and advice related to all finfish stocks and fisheries for England and Wales;

- Contract Leader for large (80 staff contributing 40 staff years) fisheries assessment and advisory contract with overall responsibility for all finfish stock monitoring, assessment, and advice;
- Team Leader of the Fisheries Systems Modelling Team, working on R&D contracts, commercial contracts and various large government-funded non R&D projects;
- Contract Leader for a range of government R&D contracts, European Community projects, and various consulting jobs for foreign governments and commercial companies.

### **CAPABILITY**

I have extensive experience of participation in and management of technical processes; development of science and fisheries policy; provision of complex advice to Ministers and senior officials, especially at the interface between science, policy and operations; chairing multi-sector management, and multi-disciplinary science, processes; and review of technical, operational and management regimes. I am very familiar with a wide range of stock assessment and related techniques and issues, with particular interest in the development and testing of management strategies/procedures. I have a long background in the development and implementation of harvest strategies, both from a technical and an operational perspective. I have a long-standing interest in the development of ecosystem approaches to fisheries management, including ecological risk assessment. I have extensive experience of fisheries certification, involving scheme development, application and review. In addition, I have experience and abiding interest in governance issues.

### **CONSULTING EXPERIENCE**

I have extensive consulting experience in a personal capacity or on behalf of previous (CEFAS, SeaFIC) employers. I have consulted for various governments (*inter alia* Australia, USA, UK, New Zealand), the EU, ICES; private companies in the UK (Marine Stewardship Council [MSC], Tesco, Unilever, Moody (Intertek) Marine, Marine Resources Assessment group [MRAG]), New Zealand (numerous), Australia (numerous), the USA, and elsewhere; and non-governmental organisations in New Zealand (Te Ohu Kai Moana) and elsewhere (*inter alia* WWF, Sustainable Fisheries Partnership [SFP], Conservation International [CI]). I have provided services spanning stock assessment and technical advice to strategic policy, strategy development, governance analysis and design, process analysis and design, and operational fisheries management review and advice.

Previous work has included, *inter alia*, technical reviews of Alaska Pollock, Atlantic deepwater fish stocks, North Sea and Baltic stocks, Hawaiian Deep Slope fish stocks, numerous east and west coast USA fish stocks, and Australian Orange Roughy fish stocks; chairing an EU review of Atlantic bluefin tuna stock assessments; review of the North Pacific Management Council's F<sub>40</sub> policy; review of the Gulf of Mexico Red Snapper Management; review of scientific advice on fisheries-marine-mammal interactions in Alaska; advice on sustainable global fish supplies; review of MSC certification assessments; pre-assessment of fisheries against the MSC and other third party standards, advice to MSC on revision both of certification guidelines and processes; contracted participation in international research planning and coordination; advising the European Commission on science advisory and cost recovery processes; economic analyses of New Zealand deepwater fisheries; provision of services to underpin adaptive management programmes in New Zealand inshore fisheries; and management procedure evaluation to develop generic harvest strategies for low information stocks.

Recent and current work (2009-15) includes technical reviews for the Australian and USA governments, research on low information management approaches for the California Department of Fish and Game, research planning and governance advice for the NZ Ministry of Fisheries, policy development for the Australian Fisheries Management Authority, process review for the New Zealand Seafood Industry Council (SeaFIC) working with the NZ Ministry of Fisheries, Chairing the Research Advisory Committee for Seafood Innovations Ltd, certification assessment for Tavel pty (Canada), Intertek Moody Marine (UK) Ltd, and MRAG Ltd, development of Ecological Risk Assessment methods with NIWA (New Zealand), strategy development for Conservation International's Global Tuna Initiative, and numerous confidential client support and advisory services for commercial companies and NGOs.

## **CERTIFICATION EXPERIENCE**

I was involved with the MSC Quality and Standards project, particularly with development of the Fisheries Assessment Methodology FAM version 2, and have made numerous inputs to MSC following certification-related jobs. I have undertaken MSC assessments in Australia, New Zealand and the Maldives, and have organised, designed and undertaken multiple pre-assessments against the MSC standard (more than 50 separate stocks/UoA) for a range of clients including industry and certification bodies. I have additionally peer reviewed multiple MSC assessments as part of the formal assessment process under contract to a variety of Conformity Assessment Bodies (CAB). I have further advised clients internationally on specific certification problems and have acted to help

reconcile opinions and interpretations of standards. I have advised clients on MSC scheme changes and consultations. I have also reviewed developing certification schemes and fish buying policies for a number of environmental organisations and major retailers.

I have provided client support for Friends of the Sea assessments and have reviewed or undertaken due diligence on other certification schemes for a range of NGO and retail clients. In 1998, prior to the MSC becoming established I developed an independent fish buying scheme for a major seafood company based on the FAO Code of Conduct (as a potential alternative to the emerging MSC).

# PROGRAM and PROJECT EVALUATION

From 1989 to 2000 I was responsible on behalf of the UK Ministry of Agriculture, Fisheries and Food (MAFF) for program and project development and evaluation of the Natural Environment Research Council (NERC) Sea Mammal Research Unit (SMRU) as well as acting as *ad hominem* member of the NERC Special Committee on Seals (SMRU) and on both Research and Management Committees for the SMRU. During the 1990s I was a member of the NERC Marine and Atmospheric Research Grants Committee and undertook multitudinous research project evaluations during that time. During that period I chaired NERC thematic program development groups and was part of a joint research council team (NERC and SERC, Science and Engineering Research Council) tasked with developing a program for UK-wide coastal zone management programs.

In New Zealand in 2001 I was on the NZ Royal Society evaluation team for Centres for Research Excellence proposals (Biological space) and have twice (2005 and 2009) served on FoRST evaluation panels for ECO projects. I have chaired the Seafood Innovations Ltd (SIL) Research Advisory Group since its inception in 2004, covering program direction and project evaluation. Between 2004 and 2007 I chaired the Advisory Committee for the Centre for Marine Environmental and Economic Research at the Victoria University of Wellington and between 2006 and 2009 was a member of the Governance Group for NIWA Outcome Based Investment for Coasts and Oceans.

### PROJECT MANAGEMENT

As noted above, at CEFAS I filled multiple roles including Senior Fisheries Science Adviser (finfish), Contract Leader for large (80 staff contributing 40 staff years and budget of approx. M£4.5 in 2000) fisheries assessment and advisory contract, Team Leader of the Fisheries Systems Modelling Team (20+ staff), and contract leader for a wide range of other contracts (R&D and consulting). The portfolio of roles was large and diverse including delivery and customer liaison but principally management of staff and projects. I have experience from CEFAS of project management from small scale (within year, single staff, few tens of thousand £) to large (multi-year, multiple staff, many M£) projects to customers ranging from commercial, through national governments to multi-national organisations.

At SeaFIC, as Chief Scientist, I was again responsible for delivery but also commissioning and management of all projects, both internally funded and also provided on a consulting basis primarily to industry groups in New Zealand but also to the New Zealand and overseas governments. I have negotiated a very large number of contracts both as a purchaser and as a provider and have also subcontracted numerous international consultants to provide services.

Since operating as stokes.net.nz Ltd I have managed numerous contracts to approaching a hundred separate clients, spanning industry and NGO groups to national governments, and ranging in size from single days to many months delivered over extended durations. Projects have ranged from technical and R&D, to major policy or process analyses/reviews, and strategy development. During 2009-10 I was contracted by the New Zealand seafood industry to work jointly with government to review and redesign the New Zealand fisheries science planning, procurement and contracting processes.

### **GOVERNANCE EXPERIENCE**

As a senior manager at SeaFIC between 2000 and 2009 I was a regular contributor to bi-monthly SeaFIC Board meetings, developing reports and advisory papers and participating in discussions where appropriate. From 2002 to 2004 I was instrumental in developing Seafood Innovations Ltd (SIL) as a SeaFIC Company to promote research by industry, drawing on FRST Consortium funding. Since,

its inception, I have chaired the Advisory Committee to the SIL Board. I was a member of the Governing Group for the NIWA Coasts and Oceans Outcome Based Investment (OBI) from 2006 until 2009.

My role as chair of the National Rock Lobster Management Group (NRLMG) from 2001 to 2009 involved me working as independent chair in a contentious multi-sector environment with responsibilities to provide credible annual advice directly to the Minister of Fisheries. This was an experience fully aligned with my interests in the way in which different arrangements can be used to enhance multi-stakeholder decision-making relating to both strategic and operational management. This interest has been the foundation of much of my research over the past two decades and has influenced strongly my perspective on what research should be undertaken to support robust resource management. My recent research projects in fisheries (SIL and SeaFIC funded work on management strategy evaluation and California Department of Fish and Game funded work on managing low information resources) incorporate strong governance elements. During 2010 I worked with the Ministry of Fisheries in a review of NRLMG governance arrangements with a view to advising the Minister on future governance options.

I was a member of the New Zealand Institute of Directors (IoD) between 2005 and 2011 and I have taken advantage of opportunities to undertake relevant IoD training courses (Governance for Senior Management, Introduction to Directorship in New Zealand, The Company Directors Course, Strategy Essentials). I am a past member of the New Zealand Society for Risk Management.

I am currently Director two New Zealand companies: stokes.net.nz Ltd and Shoal Ltd.

# **EDUCATION AND QUALIFICATIONS**

UNIVERSITY	DATES	SUBJECTS
University of Stirling, Scotland	1975 - 1979	B.Sc. (Hons), Joint in Biology & Psychology
Strathclyde University, Scotland	1981 - 1985	Ph.D. Applied Physics

## **POSITIONS HELD**

- Chair of Research Advisory Committee, Seafood Innovations Ltd. (2004 present)
- Member of Governance Group for NIWA Outcome Based Investment for Coasts and Oceans (2006 2009)
- Advisory Member of FRST Ecosystem Reference Panel (2005, 2009)
- Editorial Board member of Marine Ecosystems and Management (2007 present)
- Chair of Advisory Committee for the Centre for Marine Environmental and Economic Research, Victoria University of Wellington (2004 – 2007)
- Chair of the New Zealand National Rock Lobster Management Group (2001 present)
- Past U.K. Delegate to the ICES (International Council for the Exploration of the Sea) ACFM (Advisory Committee on Fishery Management) (1997 – 2000)
- Chair of the EC (European Commission) STECF (Scientific, Technical and Economic Committee on Fisheries) (1997)
- U.K. Member of the ICES Resource Management Committee (1997 2000)
- Ad Hominem member of NERC (Natural Environment Research Council) Special Committee on Seals (1990 – 2000)
- Member of NERC Science Review Panel for the Sea Mammal Research Unit (1996 2000)
- Member of the NERC Management Audit panel for the Sea Mammal Research Unit (1999 2000)
- Member of NERC, Marine and Atmospheric Sciences Research Grant and Training Awards Committee (1995 – 1998)
- U.K. Alternate Commissioner to the IWC (International Whaling Commission) (1992 1996)
- Head of U.K. delegation to the Scientific Committee of the IWC (1990 1996)

### **TRAINING**

- 1982 Mathematical Ecology, International Centre for Theoretical Physics, Trieste, Italy
- 1985 Management Training, MAFF Staff Training Branch, London
- 1987 Job Appraisal Interviewing, MAFF Staff Training Branch, London
- 1987 Survival at Sea, Lowestoft College
- 1989 Chairing Meetings, Civil Service College, London
- 1990 Small Boat Handling, Lowestoft College
- 1992 Environmental Policy, Foreign and Commonwealth Office, London
- 1992 Face the Cameras, Westminster University, London
- 1994 Design and Analysis of Distance Sighting Surveys, University of St. Andrews, Scotland
- 1995 Marketing, Lowestoft
- 1996 Equal opportunities, Lowestoft
- 1998 Policy Analysis, Lowestoft
- 1999 Investors in People, Lowestoft
- 2005 Governance for Senior Management, Institute of Directors, New Zealand
- 2006 Introduction to Directorship in New Zealand, Institute of Directors, New Zealand
- 2007 The Company Directors Course, Institute of Directors, New Zealand
- 2008 Strategy Essentials, Institute of Directors, New Zealand

### **PUBLICATIONS**

- Bentley, N. and **K. Stokes** (2009) Contrasting Paradigms for Fisheries Management Decision Making: How Well Do They Serve Data-Poor Fisheries? *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* **1**:391-401.
- Bentley, N. and **K. Stokes** (2009) Moving fisheries from data poor to data sufficient: evaluating the costs of management versus the benefits of management. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* **1**:378-390.
- Blythe, S.P. and T.K. Stokes (1988) Biological attractors, transients and evolution, pp309-318
   In Wolff,W., Soeder, C.-J. and F.R. Drepper (Eds.) Ecodynamics: Contributions to Theoretical Ecology. Research Reports in Physics, Springer-Verlag, Berlin.
- Blythe, S.P. and T.K. Stokes (1990) Some consequences of size-selective harvesting on fitness and on yield. IMA Jour. Mathematics Applied in Medicine & Biology 7:41-53
- Blythe, S.P. and **T.K. Stokes** (1991) Evolutionary dynamics: variable attractor or infinite transient? *Chaos, Solitons and Fractals* **1**:195-197.
- Blythe, S.P. and T.K. Stokes (1993) Size-selective harvesting and age-at-maturity I: some theoretical implications for management of evolving resources. pp 222-231 In Stokes, T.K., McGlade, J.M. and R. Law (Eds.) The Exploitation of Evolving Resources. Lecture Notes in Biomathematics 99, Springer-Verlag, Berlin.
- Bravington, M.V., C.M. O'Brien and **T.K. Stokes** (1999) Sustainable recruitment: the bottom line. ICES C.M. 1999/P:01
- Bravington, M.V., **T.K. Stokes** and C.M. O'Brien (2000) Guidelines for calculating indicators of sustainable fishing. *Marine and Freshwater Research* **51:** 465-475
- Bucke, D and T.K. Stokes (1988) Fish disease monitoring on the 1987 North Sea groundfish survey. ICES C.M.1988/E:7
- Butterworth, D.S., N. Bentley, J. A. A. De Oliveira, G. P. Donovan, L. T. Kell, A. M. Parma, A. E. Punt, K. J. Sainsbury, A. D. M. Smith and T. K. Stokes (2010) Purported flaws in management strategy evaluation: Fundamental problems or misinterpretations? *ICES Journal of Marine Science* 67:000-000
- Dunn, M., Cordue, P., Langley, A. and Stokes, K. (Submitted) Review of data and potential stock assessment approaches for orange roughy on the Challenger Plateau (ORH 7A). New Zealand Fisheries Assessment Report 201X/XXX
- Gibbs, N., **Stokes, K.** (In Press). Implications of Reallocation: Examples from New Zealand (paper presented to Sharing the Fish Conference, Fremantle, Australia, 2007, to be published by FAO).
- Haist, V, Francis, C and T.K. Stokes (2006) Management Strategy Evaluation for New Zealand Hoki Fisheries: Results of Initial Analyses New Zealand Fisheries Assessment Reports 2006/31.

- Haist, V and **T.K. Stokes** (In Prep) Management Strategy Evaluation for New Zealand Southern Blue Whiting Fisheries. (to be submitted to ICES Journal of Marine Science)
- Hicks, A.C., Hilborn R., Punt, A.E. and T.K. Stokes (In Press) A meta-analysis of nonlinearity in the relationship between catch-per-unit-effort and abundance in orange roughy (Hoplostethus atlanticus) stock assessments. Canadian Journal of Fisheries and Aquatic Sciences
- Gurney, W.S.C., Blythe, S.P. and Stokes, T.K. (1999) Delays, demography and cycles: a forensic study. Advances in Ecological Research 28:127-144.
- Harwood, J. and Stokes, T.K. (2003) Coping with uncertainty in ecological advice: lessons from fisheries. Trends in Evolution and Ecology 18:617-622
- Hilborn, R., Stokes, T.K., Maguire, J-J, Smith, T., Botsford, L.W., Mangel, M., Oresanz, L., Parma, A. Rice, J., Bell, J., Cochrane, K., Garcia, S., Hall, S.J., Kirkwood, G.P., Sainsbury, K., Stefansson, G., Walters, C. (2004) When can Marine Protected Areas Improve Fisheries Management? Ocean and Coastal Management 47:197-205.
- Hilborn, R. and Stokes, T.K. (2010) Defining Overfished: Have We Lost the Plot? Fisheries
   35:113-120.
- Holland, D. and **Stokes, T.K**. (2006) Comment: Fishing and the impact of marine reserves in a variable environment. *Canadian Journal of Fisheries and Aquatic Sciences* **63**:1183-1185.
- Jodice, L.W., Sylvia, G., Harte, M., Hanna, S. and K. Stokes (Eds.) (2003) Training Managers for 21<sup>st</sup> Century Fisheries. Agricultural Experimental Station, Oregon State University, Special report 1045.
- Kell, L.T., M.T. Smith and **T.K. Stokes** (1996) Evaluating and Comparing Management Procedures. ICES C.M./P:10
- Kell, L.T. and T.K. Stokes (1995) FiFi A framework for modelling management under uncertainty. ICES C.M. 1995/G:26
- Kell, L.T., C.M. O'Brien, M.T. Smith, T.K. Stokes and B.D. Rackham (2000) An evaluation of Management procedures for the Implementation of the Precautionary approach in the ICES Context: A North Sea plaice example. ICES Journal of Marine Science 56(6): 834-845
- Law, R. and T.K. Stokes (2005) Evolutionary Impacts of Fishing on target Species. In E. Norse and L Crowder (eds.) Marine Conservation Biology: The Science of Maintaining Biodiversity, Island Press.
- Marchal, P., Lallemand, P., and Stokes, K., (2009). The relative weight of traditions, economics and catch plans in New Zealand fleets dynamics. *Canadian Journal of Fisheries* and Aquatic Sciences 66:291-311.
- Marchal, P., Lallemand, P., Stokes, K., and Thébaud, O. (2009). A comparison of the fisheries management systems in the European Union and in New Zealand. *Aquatic Living Resources* 22:461-483.
- Marchal, P., Francis, C., Lallemand, P., Lehuta, S., Mahévas, S., Stokes, K., and Vermard, Y. (2008) TAC allocation in mixed-fisheries: a bio-economic modelling investigation applied to the New Zealand hoki fishery. ICES CM2008/I:10.
- Marchal, P., Francis, C., Lallemand, P., Lehuta, S., Mahévas, S., Stokes, K. and Vermard, Y. Catch-quota balancing in mixed-fisheries: a bio-economic modeling approach applied to the New Zealand hoki (Macruronus novaezelandiae) fishery. *Aquatic Living Resources* 22:483-498.
- Myers, R.A. and T.K. Stokes (1989) Density-dependent habitat utilisation of groundfish and the improvement of research surveys. ICES. C.M. 1989/D:15
- Nicholson, M.D., Stokes, T.K. and A.B.Thompson (1991) The interaction between fish distributions, survey design and analysis. ICES. C.M. 1991/D:11
- Nisbet, R.M., Blythe, S.P., Gurney, W.S.C., Metz, J.A.J. and T.K. Stokes (1989) Avoiding chaos. Trends in Evolution and Ecology 4:238-239.
- Patterson, K.R., Pitcher, T.J. and **T.K. Stokes** (1993) A stock collapse in a fluctuating environment: the chub mackerel *Scomber japonicus* (Houttuyn) in the eastern central Pacific. *Fisheries Research* **18**:199-218.
- Pope, J.G., Stokes, T.K., Murawski, S.A. and S.I. Idoine (1988) A comparison of fish size-composition in the North Sea and on Georges Bank, pp146-152 In Wolff, W., Soeder, C.-J. and F.R. Drepper (Eds.) Ecodynamics: contributions to theoretical ecology. Research Reports in Physics, Springer-Verlag, Berlin.

- Pope, J.G. and **T.K. Stokes** (1989) Use of multiplicative models for separable virtual population analysis (VPA), Integrated analysis, and the general VPA tuning problem. *American Fisheries Society Symposium* **6**:92-101.
- Rocha, C.A.S., Stokes, T.K., Pope, J.G. and L.T.Kell (1991) Defining species specific effort. ICES. C.M. 1991/D:32
- Rocha, C.A.S., Stokes, T.K. and Pope, J.G. (1995) Application of principle component analysis to the study of multispecies fisheries. *Jour. Brazilian Association for the Advancement* of Science 47:66-75
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   Jour. Fish Biology 35A:335-337.
- Smith, A.D.M., A.E. Punt, S.E. Wayte, P.J.Starr, R.I.C.C. Francis, T.K. Stokes, R. Hilborn and A. Langley (2002) Stock Assessment of the Northeast Chatham Rise Orange Roughy for 2001, New Zealand Fisheries Assessment Report 2002/25.
- Smith, T.D. and **T.K. Stokes** (1993) Requirements for the Revised Management Scheme. IWC SC/45/Mg11, 20pp.
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  of the Scientific Committee, Annex O. Statements on Monitoring and the RMS, Annex O1.
  Minority statement. The need to include monitoring requirements in the RMS. Rep. int. Whal.
  Commn 44, 191-192.
- Smith,T; Polacheck,T; Stokes, T.K; Schweder,T; Fowler,C; Swartz,S; Kasuya,T (1994): Report
  of the Scientific Committee, Annex O. Statements on monitoring and the RMS, Annex O2.
  Response to Annex O1. Rep. int. Whal. Commn 44, 192.
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- Stokes, T.K. (1986) Assessing the effect of age-dependent natural mortality, changes in selection at age and discards using the method of Jones (1961). ICES C.M. 1986/G:16
- Stokes, T.K. and J.G.Pope (1987) The detectability of catchability trends from catch-at-age and commercial effort data. ICES C.M. 1987/D:14
- **Stokes, T.K.**, Gurney, W.S.C., Nisbet, R.M. and S.P. Blythe (1988) Parameter evolution in a laboratory insect population. *Theoretical Population Biology* **34**:248-265
- Stokes, T.K. (1992) Complex dynamics and predictability in marine systems. In Horwood, J. and Griffith, D. de G. Management Strategies and Objectives for Fisheries. Privately published, pp.38.
- **Stokes, T.K.** (1992) An overview of the North Sea multispecies modelling work in ICES. *South African Journal of Marine Science* **12**:1051-1060.
- **Stokes, T.K.** (1997) Proactive Approaches to Fishery Management the Role of Science. *Marine Environmental Management Review of 1996 and Future Trends 1997*, Vol **4**:63-66
- **Stokes**, **T**.K., N. Gibbs and D. Holland (2006) New Zealand's cost recovery regime for fisheries research services: an industry perspective. *Bulletin of Marine science*.
- **Stokes, T.K**; Hammond,P; Smith,T (1992): Report of the sub-committee on management procedures, Appendix 11. Rationale for selection and recommendation of a core RMP. Rep. int. Whal. Commn 42, 134.
- Stokes, T.K; Hammond,P; Smith,T (1992): Report of the sub-committee on management procedures, Appendix 13. Concerning the approach based on `design criteria' in Appendix 12. Rep. int. Whal. Commn 42, 135.
- **Stokes, T.K**; Hammond,P; Smith,T (1992): Report of the sub-committee on management procedures, Appendix 13. Concerning the alternative approach based on `design criteria' in Appendix 12. Rep. int. Whal. Commn 42, 135.
- Stokes, T.K. and L.T. Kell (1996) Multiple Objectives and Fisheries Management: An Approach to Decision Making. ICES C.M. /P:9
- Stokes, T.K. and R. Law (2000) Fishing as an evolutionary force. *Marine Ecology Progress* Series 208:307-309.
- **Stokes, T.K.**, McGlade, J.M. and R. Law (Eds.) (1993) The Exploitation of Evolving Resources. *Lecture Notes in Biomathematics* **99**, Springer-Verlag, Berlin pp264.

- Stokes, T.K. and S.P. Blythe (1993) Size-selective harvesting and age-at-maturity II: real populations and management options. pp232-241 In Stokes, T.K., McGlade, J.M. and R. Law (Eds.) The Exploitation of Evolving Resources. Lecture Notes in Biomathematics 99, Springer-Verlag, Berlin.
- Stokes, T.K., M.V. Bravington and C.M. O'Brien (1999) Guidelines for Calculating Sustainability Indicators in Marine Capture Fisheries. *FAO Technical Consultation Paper* to FAO-Australia 1999, Technical Consultation on Sustainability Indicators in Marine Fisheries (Sydney, January, 1999)
- **Stokes, T.K.,** D.S. Butterworth, R.L. Stephenson, A.I.L. Payne (1999) Introduction Confronting Uncertainty in the Evaluation and Implementation of Fisheries Management systems. *ICES J. Mar. Sci.* 56: 795-796.
- Stokes, T.K., (2002) Meeting Ecological Objectives in Fisheries Management Seafood Vol 10, No 10. 23-24.

# **CONFERENCES, LECTURES & VISITS**

(\* denotes giving presentation; \$ denotes conference organiser; ^ denotes rapporteur and/or session chair. NB Not including many hundreds of working groups, advisory groups etc of *inter alia* IWC, ICES, EC, NEAFC, CCSBT, New Zealand Ministry of Fisheries, etc.)

- 1982 Mathematical Ecology. International Centre for Theoretical Physics, Trieste, Italy
- 1982 Mathematical Ecology Group. British Ecological Society, Brighton 1982
- 1983 Evolutionary Ecology. British Ecological Society, Leeds
- 1983 Winter Meeting. British Ecological Society, Southampton
- 1984 Mathematical Ecology Group. British Ecological Society, York \*
- 1984 Mathematics Applied in Medicine and Biology. Institute of Mathematics and its Applications, Oxford
- 1985 ICES Annual Meeting, London
- 1986 Winter Meeting. British Ecological Society, Herriot-Watt University
- 1987 Ecodynamics, Kernforschungsanlage (KFA), Jülich, Germany
- 1988 Mathematics Applied in Medicine and Biology. Institute of Mathematics and its Applications, Oxford\*
- 1989 Fisheries Society of the British Isles, Aberdeen
- 1991 The Evolution of Exploited Populations, KFA, Jülich, Germany \*\*\$^
- 1991 Benguela Ecology Programme Symposium, Cape Town, South Africa
- 1991 Benguela Ecology Programme Seals and Fisheries Meeting, Cape Town, South Africa ^
- 1991 Private visit. Biology Department, Cornell University
- 1992 Fisheries Society of the British Isles, Liverpool
- 1992 Theoretical Ecology Working Group, KFA, Jülich, Germany
- 1992 Life-history Evolution. Royal Society
- 1992 Visit funded by UK and USSR governments. VNIRO, Moscow \*\*\*many\*\*\*
- 1993 Comparing across Marine and Terrestrial Ecosystems. Royal Society
- 1993 ICES Annual Science Meeting, Dublin, Ireland \*
- 1994 Resource Modellers Assocation, Imperial College, London<sup>^</sup>
- 1994 Biology of Marine Mammals in the Northeast Atlantic, Tromso, Norway
- 1995 ICES Annual Science Meeting, Aalborg, Denmark
- 1996 ICES Annual Science Meeting, Rekiavik, Iceland
- 1997 Marine Environmental Management Review of 1996 and Future Trends 1997, London \*
- 1997 Indirect Effects in Marine Ecosystems: Implications for Management, St. Andrews, Scotland
- 1997 ICES Annual Science Meeting, Boston, USA<sup>^</sup>
- 1998 Sustainable Oceans in the 21<sup>st</sup>. Century, Wilton House Special Conference, W.Sussex, U.K.\*
- 1998 No-take Zones the Way Forward, WWF meeting, London
- 1998 Workshop on the Ecosystem Approach to Management, Oslo, Norway (North Sea Intermediate Ministerial Meetings)
- 1998 Seas in Danger, WWF meeting, Belem, Portugal
- 1998 ICES Annual Science Meeting, Cascais, Iceland
- 1998 Confronting Uncertainty in the Evaluation and Implementation of Fisheries Management Systems; ICES Symposium, Cape Town, RSA\*\$^
- 1999 ICES Annual Science Meeting, Stockholm, Sweden \*\*\*^

- 1999 Workshop on Ecological Quality Objectives, Scheviningen, Netherlands Norway (North Sea Intermediate Ministerial Meetings)
- 1999 Fisheries: managing international common resources, Ditchley Park, Oxford, UK
- 1999 FAO Expert consultation on developing guidelines for sustainability indicators
- 2000 International Fishers Forum, Auckland, New Zealand
- 2001 Training Managers for 21<sup>st</sup> Century Fisheries, Queenstown, New Zealand<sup>\$^</sup>
- 2002 ICES Annual Science Meeting, Oslo, Norway
- 2001 FAO consultation on the ecosystem approach to fisheries
- 2001 Bmsy workshop, Wellington, New Zealand\$
- 2001 International workshop on ecosystem modelling, Hobart, Australia\*
- 2002 Aquatic Marine Protected Areas, Cairns, Australia
- 2002 Expert consultation on developing guidelines for an ecosystem approach to fisheries management, Reykjavik, Iceland\*^
- 2002 Institute of Fisheries Economics and Trade, Wellington, New Zealand
- 2003 Australia/Canada workshop on research to underpin an ecosystem approach to fisheries, Nanaimo, Canada\*^
- 2003 Deep Sea 2003, Queenstown, New Zealand\*\$^
- 2003 FAO workshop on assessment and management of deep sea resources, Dunedin, New Zealand \$^
- 2004 SCOR/ICES symposium on Ecosystem Indicators, Paris, France
- 2004 World Fisheries Congress IV, Vancouver, Canada
- 2004 Mote Symposium: Integrating marine and human ecology into fisheries management, Sarasota, USA\*
- 2005 Seachange '05, Auckland, New Zealand\*
- 2006 The Bevan Lecture (invited), University of Washington, Seattle, USA\*
- 2006 Shared Fisheries, Fremantle, WA, Australia
- 2007 ICES Annual Science Meeting, Helsinki, Finland
- 2008 California Department of Fish and Game, workshop on Managing Data-poor Fisheries\*\*
- 2009 Southern Hemisphere MSE Collaboration Workshop, Hobart, Australia\*5
- 2010 RISK Management Standards Seminar, Wellington, New Zealand
- 2010 Annual Seafood Conference, Wellington, New Zealand
- 2011 Annual Seafood Conference, Wellington, New Zealand
- 2011 Trans Tasman Rock Lobster Industry Conference, New Zealand
- 2012 Ecosystem Approaches to Fisheries, Wellington, New Zealand \*\*\$^
- 2013 Biological Reference Points for Fisheries Management under Environmental Change, Shimizu, Japan\*