

ROBIN COOK: CURRICULUM VITAE

QUALIFICATIONS

1973 BSc(hons) Zoology, Durham University

1977 D.Phil, Oxford University. Thesis title: 'Searching behaviour of various insect predators and parasites'.

EMPLOYMENT

- 1979-1987 Stock assessment scientist, Department of Agriculture and Fisheries for Scotland, Marine Laboratory, Demersal fish section.
- 1987-1989 Section Leader, Population Studies section, DAFS Marine Lab.
- 1989-1998 Head of Fish Resources Team, SOAEFD Marine Laboratory.
- 1998-2001 Programme Manager, Fisheries Management, FRS Marine Laboratory
- 2001-2002 Marine Fisheries Advisor, FRS Marine Laboratory
- April 2002- 2009: Chief Executive and Director, Fisheries Research Services
- April 2009 – 2011 Head of Science Marine Scotland
- August 2011 - Executive Secretary of the European Fisheries and Aquaculture Organisation (EFARO).
- September 2011- Senior Research Fellow, MASTS Population Modelling Group, University of Strathclyde, Glasgow

HONORARY POSITIONS

Professor in the School of Biological Sciences, University of Aberdeen

SELECTED GOVERNMENT POSITIONS

- Chair of the UK Co-ordinator of Fisheries R&D working group on fish stock recruitment modelling,
- Chair of the Sustainability working group of the Ministerial Sea Fisheries Strategy Advisory Group
- Scottish Government member of the UK Marine Science Coordination Committee
- Member of Marine Fisheries Science Advisory Group for the UK Department of the Environment and Rural Affairs (Defra)

ADVISORY WORK ON FISHERIES

- UK Member of the Advisory Committee on Fishery Management (ACFM) 1995-1997.
- Chair of the Working group on the assessment of demersal stocks in the North Sea and Skagerrak, 1992-1994.
- Chair of the study group on the use of selectivity measurements in stock assessment.

- Member of the Scientific, Economic and Technical Committee on Fisheries (STECF), 1992-1995, the independent group of experts which advises the Commission on fisheries management
- Chair of the STECF working group on the improvement of exploitation pattern of North Sea Fisheries, 1993.
- A member of the Center for Independent Experts, University of Miami, Florida, conducting annual external reviews of United States fish stock assessments.

INTERNATIONAL CONFERENCES

- Speaker at World Fisheries Conference, Edinburgh, 2012
- Keynote Speaker, OCEANS 2007 conference Aberdeen, 2007
- Host and organiser of the ICES Annual Science Conference, Aberdeen 2005
- Co-convener, ICES symposium on the Influence of Climate Change on North Atlantic Fish Stocks, Bergen, 2004.
- Invited speaker, FAO Symposium on Responsible Fisheries in the Marine Ecosystem, Reykjavik, 2001
- Invited speaker, Integrating Ecosystem considerations into Fisheries Management, Scotland week, Brussels, 2001

MODELLING SOFTWARE EXPERIENCE

FORTRAN and NAG numerical libraries
 AD Model builder
 WinBUGS/OpenBUGS
 R
 SPSS

STOCK ASSESSMENT MODELLING EXPERIENCE

Extended Survivors Analysis (XSA) as used by ICES
 Time Series Analysis (TSA)- State-space modelling using time series methods on UK demersal stocks
 Bayesian age structured assessment models using survey data only
 Bayesian state-space models applied to demersal stocks that include seal, predation interactions.
 Working knowledge of Stock Synthesis, ADAPT and related methods

SELECTED PUBLICATIONS

Fernandes, P.G. and **Cook, R.M.**(in press). Reversal of fish stock decline in the North East Atlantic. Current Biology, to appear

Cook, R.M. (2013). A fish stock assessment model using survey data when estimates of catch are unreliable. Fisheries Research 143:1– 11

Henrik Sparholt and **Robin M. Cook** (2009). Sustainable exploitation of temperate

fish stocks. *Biology Letters*, published online 9 September 2009
doi:10.1098/rsbl.2009.0516

Cook, R.M. and M.R. Heath. (2005). The implications of warming climate for the management of North Sea demersal fisheries. *ICES Marine Science* 62:1322-1326.

Cook, R.M. (2003). The magnitude and impact of by-catch mortality by fishing gear. In Sinclair M and G. Valdimarsson (eds), *Responsible Fisheries in the Marine Ecosystem*, FAO and CABI publishing, Rome and Oxford.

Stratoudakis, Y, R.J. Fryer, **R.M. Cook**, G.J. Pierce and K.A. Coull (2001). Fish bycatch and discarding in Nephrops trawlers in the Firth of Clyde (west of Scotland). *Aquatic Living Resources*, 14: 283-291.

Kenneth Patterson, **Robin Cook**, Chris Darby, Stratis Gavaris, Laurence Kell, Peter Lewy, Benoît Mesnil, André Punt, Victor Restrepo, Dankert W. Skagen & Gunnar Stefánsson, (2001) Estimating uncertainty in fish stock assessment and forecasting. *Fish and Fisheries*, 2:125–157.

Cook, R. M. 2000. A rough guide to population change in exploited fish stocks. *Ecology Letters*, 3:394-398.

Cook, R.M. 1998. A sustainability criterion for the exploitation of North Sea cod. *ICES Journal of Marine Science*, 55: 1061-1070.

Cook, R.M. 1997. Stock trends in six North Sea stocks as revealed by an analysis of research vessel surveys. *ICES Journal of Marine Science*, 54:924-933.

Cook, R.M., A. Sinclair, G. Stefansson, 1997. Potential collapse of North Sea cod stocks. *Nature*, 385:521-522.