

BIOGRAPHICAL SKETCH

JOHN H. ANNALA

Chief Scientific Officer
Gulf of Maine Research Institute
350 commercial St.
Portland, ME 04101

EDUCATION

B.Sc., Biology, University of Maine, 1968
Ph.D., Zoology (Marine Ecology), University of New Hampshire, 1974

PROFESSIONAL EXPERIENCE

Chief Scientific Officer, Gulf of Maine Research Institute, 2004 - present
Chief Scientist, NZ Ministry of Fisheries, 2000 – 2004
Manager Operational Policy, New Zealand Ministry of Fisheries, 2000
Chief Scientist, New Zealand Ministry of Fisheries, 1995 - 2000
Research Scientist, New Zealand Ministry of Fisheries, 1981 - 1995
Post doctoral fellow (Marine Policy), Woods Hole Oceanographic Institute, 1980 - 1981
Scientist, New Zealand Ministry of Fisheries, 1977 - 1980
National Research, Post doctoral fellow, New Zealand Ministry of Fisheries, 1974 - 1977

SELECTED PUBLICATIONS OVER THE PAST THREE YEARS

Annala, J., M. Clark, G. Clement, and J. Cornelius. 2006. Management of New Zealand orange roughy fisheries – a deep learning curve. *In* Shotton, R. (Ed.) Deep Sea 2003: Conference on the Governance and Management of Deep-sea Fisheries. Part 1. Conference reports. Queenstown, New Zealand, 1 – 5 December 2003. *FAO Fisheries Proceedings. No. 3/1*. Rome, FAO. 2005. 718p.

Annala, J. and M. Clark. 2006. Issues in the management of high seas orange roughy fisheries in the New Zealand region. *In* Shotton, R. (Ed.) Deep Sea 2003: Conference on the Governance and Management of Deep-sea Fisheries. Part 2. Conference poster papers and workshop papers. Queenstown, New Zealand, 1 – 5 December 2003 and Dunedin, New Zealand, 27 – 29 November 2003. *FAO Fisheries Proceedings. No. 3/2*. Rome, FAO. 2005. 487p.

Hilborn, R., J. Annala, and D.S. Holland. 2006. The cost of overfishing and management strategies for new fisheries on slow-growing fish: orange roughy (*Hoplostethus atlanticus*) in New Zealand. *Canadian Journal of Fisheries and Aquatic Sciences*. 63:2149 – 2153.

Reid, D.G., J. Annala, S. Rosen, M. Pol, S.X. Cadrin, and S.J. Walsh. 2007. Current status of mobile and static sampling gears used in resource surveys. *ICES Journal of Marine Science*. 64(8):1607-1609.

OTHER SELECTED PUBLICATIONS

Annala, J. and R. Shotton. 2004. Deep Sea 2003, an international conference on governance and management of deep-sea fisheries. *FAO Fisheries Report No. 772*.

Annala, J.H. 1991: Factors influencing fecundity and population egg production of *Jasus* species, pp. 301–315 *In* Wenner, A. and Kuris, A. (Eds.), "*Crustacean Issues 7, Crustacean Egg Production*", A.A. Balkema, Rotterdam.

Annala, J.H. and Breen, P.A. 1989: Yield– and egg–per–recruit analyses for the New Zealand rock lobster, *Jasus edwardsii*. *N.Z. Journal of Marine and Freshwater Research*. 23: 93–105.

Annala, J.H. and Esterman, D.B. 1986: Yield estimates for the New Zealand rock lobster fishery, pp. 347–358. *In* G. Jamieson and N. Bourne (Eds.) North Pacific workshop on

stock assessment and management of invertebrates. *Canadian Special Publication of Fisheries and Aquatic Sciences* 92.

Gilbert, D.J., J.H. Annala, and K. Johnston. 2000: Technical background to fish stock indicators for state-of-environment reporting in New Zealand. *Marine and Freshwater Research*. 51:451-464.

SYNERGISTIC ACTIVITY

(1) Jul 1997 - present – Chair of the Stock Assessment Group of the Commission for the Conservation of Southern Bluefin Tuna

(2) Sep 1997 - May 1998 – Member of the United States National Research Council study committee to review the application of Individual Transferable Quotas in US fishery management systems

(3) Dec 1997 – Consultant to the Government of Argentina to review the Argentinean fisheries research, stock assessment, and fishery management processes and systems

(4) Jan 1999 – Participant in the FAO Technical Consultation on Fisheries Sustainability Indicators, Sydney, Australia

(5) Jun/Jul 1999 – Member of the Great Barrier Marine Park Authority review panel to review the impacts of fishing on the Great Barrier Reef.

(6) Jan 2001 – Sep 2004 – Member of the Technical Working Group on the Management of Deepwater Fisheries Resources of the Southern Indian Ocean

(7) Oct 2001 – Co-leader of the New Zealand delegation to the FAO Conference on Responsible Fisheries in the Marine Ecosystem

(8) Jan 2002 – Invited speaker in the Bevan Lecture Series on Sustainable Fisheries at the University of Washington, Seattle, Washington, USA

(9) Mar 2003 - present – Member of the FAO Technical Advisory Committee on the Management of Tuna Fishing Capacity

(10) Oct 2003 – Sep 2004 – New Zealand representative to the APEC Fisheries Working Group

(11) Dec 2003 – Convenor of DeepSea 2003 – an international conference on the governance and management of deepwater fisheries

(12) Jun 05 – present – GMRI representative on the Regional Association for Research on the Gulf of Maine (RARGOM) (Chair since January 2008)

(14) Jan 06 – present – Member of the Aquaculture and Marine Technology Board of the Maine Technology Institute

(15) Jan 08 – present – Member of the Science & Statistical Committee of the New England Fishery Management Council

COLLABORATORS (PAST 48 MONTHS)

R. Shotton (FAO, Rome), J. Majkowski (FAO, Rome), R. Hilborn (Univ. of Washington), J. Ianelli (NMFS, Seattle), A. Parma (Centro Nacional Patagonico, Argentina), J. Pope (consultant, England), K. Stokes, N. Gibbs (NZ Seafood Industry Council), P. Starr (consultant, British Columbia), M. Clark, C. Francis (NIWA, New Zealand), S. Harley, K. Sullivan, J. Peacey (NZ Ministry of Fisheries), Y. Chen, J. Runge, J. Wilson (UMaine), L. Incze (USM), L. Mercer (Maine DMR), R. Stephenson (DFO), W. Overholtz (NMFS, Woods Hole), M. Lutcavage (UNH), P. Sullivan (Cornell), G. Sherwood, J. Stockwell (GMRI)

RESEARCH MANAGEMENT EXPERIENCE

As Chief Scientific Officer at GMRI, manages a scientific staff of 9, including 4 Scientists and 5 Research Technicians and a current annual research budget of US \$2.0 million. While Chief Scientist at the NZ Ministry of Fisheries managed a scientific staff of 25, including 15 Scientists (Principal, Senior, and Research) and 10 Research Technicians and an annual research budget of US \$17.5 million.