



*******ADVISORY*******

**Australia HIMI Mackerel Icefish Fishery
*Nominations for Peer Reviewers of MSC Assessment Report***

In partial fulfillment of the MSC requirements for fishery evaluations, Scientific Certification Systems, Inc. (SCS) is required to nominate and take comment from stakeholders on potential peer reviewers for draft fishery reports. This notice is to provide the names of 4 potential peer reviewers for reports on the HIMI Mackerel Icefish fishery.

The 4 scientists SCS is nominating as potential peer reviewers are:

Dr. John Pope	NRC (Europe) Ltd., United Kingdom (CV Attached)
Dr. Jack Tagart	Tagart Consulting (retired Washington Dept. Fish and Wildlife (CV Attached)
Dr. Andre Punt	University of Washington and CSIRO (CV Attached)
Dr. D. Lee Alverson	NRC Ltd., Seattle, Washington (Bio attached)

Comment should be submitted by 18 February 2005 to Chet Chaffee, Scientific Certification Systems. Any specific objections should be supported with an explanation of the reason for the objection.

Scientific Certification Systems, Inc.
Chet Chaffee, Manager, Marine Fisheries Certification Program

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By letter to:

**2000 Powell Street
Suite 1350
Emeryville
CA 94608**

J G POPE: CURRICULUM VITAE

NAME: John George Pope
DATE OF BIRTH: 14 May 1943
PLACE OF BIRTH: Kingston upon Thames, Surrey, England.
NATIONALITY: British.
MARITAL STATUS: Married, three children.
EDUCATION / QUALIFICATIONS:

1961-1965 Imperial College, University of London
BSc (Special Degree in Mathematics 3rd class honours)
ARCS (Associate of Royal College of Science.)
1992 Chartered Mathematician.

HONOURS

1997 OBE

CONTRIBUTIONS TO EDUCATION:

External Examiner to Ph.D. Students:

1976 Philip Sluzanowski. Imperial College Univ. London
1985 Mike Bergh. University of Cape Town.
1993 Greame Parkes. Imperial College. Univ. London
1999 Mathew Dunn University of Portsmouth

External examiner for the Fisheries and Ecology MSc course at the University of Aberdeen.

Internal Supervisor to PhD Students:

Kevin Sullivan (New Zealand)
Carlos Rochas (Brazil)
Susan Singh (Trinidad and Tobago)

Lectures and Courses at:

University of East Anglia.
Newcastle University.
Universitetet i Tromsø

Lectures/Training Courses to Staff of Foreign Fisheries Institutes in:

Canada, USA, Mexico, Uruguay, Peoples Republic of China,
Thailand, Scotland.

LEISURE INTERESTS: Beccles book club, Parochial Church Council, gardening and restoring old house.

LANGUAGES: Spanish (South American) Slight and very rusty.
Norwegian Slight but actively learning.

EMPLOYMENT:

1965-1968 Statistician at the Epidemiology Research Laboratory, Central Public Health Laboratory, Public Health Laboratory Service. "Work on large vaccination trials (Measles, Whooping cough, and on disease outbreaks".

1968-1970 Statistician at AGB Research, " Market Research Modelling and Data Analysis ".

1970-to 1997 Ministry of Agriculture, Fisheries and Food. Directorate of Fisheries Research (Later CEFAS), Fish Stock Management Division, Lowestoft, Suffolk, UK. "Most aspects of fisheries research".

Final Position Head of Fish Stock Management 1 (Areas of Responsibilities have included, North Sea Assessments, North Sea Surveys, Multispecies and Ecosystem Modelling, Fish Diseases, Marine Mammals, Salmon and Freshwater Fisheries), Fish Diseases, Western Stock Assessment.

Duty Away From DFR

9 month of consultancies with Canadian Government 1974 and FAO (1976,1980) in Philippines, Thailand and Sri Lanka (Teaching and designing appropriate multispecies models for developing countries)

1992-- Visiting Professor of Multispecies Fisheries (Herek Chair) Universitetet i Tromso. Norway.

1998--Director NRC(Europe)Ltd.

1999- -Member of Canadian Govt's Fisheries Resource Conservation Council.

Some Important Consultancies

- To Canadian Minister of Fisheries, (Hon. T. Siddons). as part of the Alverson Panel (1988) and the Harris Panel (1991) to advise on the critical state of the Northern cod stock of Newfoundland.
- To Icelandic Minister of Fisheries, (T. Palsson) 1992 to advise on the state of the Icelandic cod stock.
- To Argentinean Government to review assessments of the Argentinean hake stock.
- To Faroese Government to review effort management.
- To National Research Council of USA to assist with the review of summer flounder Assessments.

INTERNATIONAL REPRESENTATION: (major activities only)

1974-76	Member of ICNAF Research and Statistics Committee, (temporary chair of statistics committee).
1976-1978	Member of the International Council for the Exploration of the Sea (ICES) North Sea Roundfish Working Group.
1982-1984	Chair of ICES Industrial Fisheries Working Group.
Occasional	Member of ICES Arctic Working Group.
1983-to present	Member of ICES <i>ad hoc</i> Working Group on Multispecies Assessment.
1983-1988	Chair of ICES Multispecies Assessments Working Group.
1983-	Member of ICES Methods of Fish Stock Assessment Working Group.
1983- 1997	UK Member of ICES Statistics Committee.
1986-1988	Chair of ICES Statistics Committee.
1988-1990	Chair of EC Scientific and Technical Committee's Working Group on Improvements of the Exploitation Pattern of North Sea Fish Stocks.
1989-1991	Chair of ICES Consultative Committee. (senior Scientific Committee of ICES).
1989-1991	Ex Officio Member of ICES Advisory Committees on Fisheries Management.
1989-1991	Ex Officio Member of ICES Advisory Committees on Marine Protection.
1989-1991	Ex Officio Member of ICES Bureau.(Management Board).
1989 to 1994	UK Member of EC Scientific, Technical and Economics Committee for Fisheries
1992 to present	Member of ICES Ecosystems Effects of Fishing Activities Working Group.
1994 to 1997	Chair of EC Scientific, Technical and Economics Committee for Fisheries
1994 to 1997	UK Delegate to ICES Council.
1995 to 1997	A Vice President of ICES and Member of ICES Bureau

ACTIVITIES IN LEARNED SOCIETIES:

Fellow/Member	Royal Statistical Society. The Institute of Mathematics and its Applications. Fisheries Society of Great Britain.
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1988-1990 Challenger Society for Marine Science.
Member of Council of Fisheries Society.
Member of Council of Institute of Mathematics and its
Applications.
1992- present Member of IMA Forum on mathematics applied in medicine
and biology.

EDITORIAL WORK:

1981-1984 Assistant Editor, Journal of Fish Biology.
1984-present Member of Editorial Board of IMA Journal of Mathematics.
applied in Medicine and Biology.
1989-1991 Member of ICES Publication Committee.
General Editing of substantial international working group and
committee reports and co-operative research reports, as a
concomitant of chairmanship of ICES working groups and
committees(see above).

PUBLICATIONS: See separate list.

CURRENT RESEARCH INTERESTS:

Methods of assessment of marine fish stocks (integrated analysis of catch-at-age and catch-per-unit-effort data, multiplicative models, length-based methods, multispecies assessments).

Factors affecting recruitment to marine fish stocks (stock-recruitment relationships, effects of environmental variables, fish larval growth and mortality in relation to food and predator abundance).

Methods of quantifying the ecosystems effects of fisheries (scale of effects, measurement of non target fishing mortality, long-term trends in fishing mortality).

The use of particle size distributions in the marine environment as measures of change and their role in shaping marine ecosystems.

J G POPE: LIST OF PUBLICATIONS

Papers in Refereed Journals and Conference Proceedings, Book chapters etc.

- Pope, J. G., 1972. An investigation of the accuracy of virtual population analysis using cohort analysis. Res. Bull. Int. Commn. N.W. Atlant. Fish. (9): 65-74.
- Garrod, D. J. and Pope, J. G., 1972. The assessment of complex fishery resources pp. 50-82 In: Proceedings of the Internation. Symposium on Economic Aspects of Fish Production, Nov.-Dec. 1971. OECD, Paris.
- Pope, J. G., 1973. An investigation into the effects of variable rates of the exploitation of fishery resources. pp. 23-24. /n: Bartlett, M. S. and Hiorns, R. W. (Eds.) 'The Mathematical Theory of the Dynamics of Biological Populations'. Academic Press, London and N.Y.
- Jones, B. W. and Pope, J. G., 1973. A groundfish survey of Faroe bank. Res. Bull. Int. Commn. N.W. Atlant. Fish. (10), 53-61.
- Pope, J. G. and Garrod, D. J., 1973. A contribution to the discussion of the effects of error on the action of catch quotas and effort quotas. Res. Doc. int. Commn. N.W. Atlant. Fish., 73/110, 29 pp.
- Pope, J. G., 1974. Note on cohort analysis and age-specific fishing mortality. pp, 237-239. /n: 'Workshop on Tuna Population Dynamics'. Nantes. Coll. Vol., Scient. Pap. Int. Commn. Atlant. Tunas, _.
- Dickson, R. R., Pope, J. G. and Holden M.J., 1974. Environmental influence on the survival of North Sea cod. pp. 69-80. In: Blaxter, J. H. S. (Ed.). 'The Early Life History of Fish'. Springer-Verlag, Berlin.
- Pope, J. G., 1974. Note on the mixed species problem. pp. 232-236. In: 'Workshop on Tuna Population Dynamics'. Nantes. Coll. Vol. Int. Commn. Atlant. Tunas, _ . Scient. Pap.
- Pope, J. G. and Garrod, D. J., 1975. Sources of error in catch and effort quota regulations with particular reference to variations in the catchability coefficient. Res. Bull. Int. Commn NW Atlant. Fish. (11):17-30.
- Pope, J. G., 1976. The application of mixed fisheries theory to the cod and redfish stocks of sub-area 2 and Division 3k. Sel. Pap. int. Commn. N.W. Atlant. Fish., (1): 163-169.
- Pope, J. G., 1976. The effect of biological interactions on the theory of mixed fisheries. Sel. Pap. Int. Commn. N.W. Atlant. Fish (1): 157-162.
- Pope, J. G., 1977. Estimation of fishing mortality, its precision and implications for the management of fisheries. pp. 63-76. In: Steele, J. H. (Ed.) 'Fisheries Mathematics'. Academic Press, London 8 New York
- Pope, J. G., 1979. Population dynamics and management: current status and future trends. Invest. Pesq., 43, 199-221.
- Pope, J. G., 1979. Stock assessment in multispecies fisheries, with special reference to the trawl fishery in

- the Gulf of Thailand. S. China Sea, Fish. Develop. Coord. Prog., Doc. SCS/EV179/19: 106 pp.
- Pope, J. G., 1980. Some consequences for fisheries management of aspects of the behaviour of pelagic fish. Rapp. P.-v. Reun. Cons. int. Explor. Mer, 177: 466-476.
- Pope, J. G., 1980. Assessment of multispecies resources. pp. 93-137. *In: CIDA/FAO/CECAF Selected Lectures from the seminar on fishery resources evaluation. Casablanca, Morocco, 6-24 March 1978. Rome, FAO, Canada Funds-in-Trust, FAO/TFANT 180(c) (CAN) Suppl. 1980.*
- Pope, J. G., 1982. Letter to editor. J. Cons. int. Explor. Mer, (4): 306.
- Pope, J. G., 1982. Background to scientific advice on fisheries management. Lab. Leaflet, MAFF Direct. Fish. Res., Lowestoft, (54): 24 pp.
- Pope, J. G. and Shepherd, J. G., 1982. A simple method for the consistent interpretation of catch-at-age data. J. Cons. int. Explor. Mer, 40: 176-184.
- Pope, J. G. and Knights, B. J., 1982. Simple models of predation in multi-age multispecies for considering the estimation of fishing mortality and its effects. Can. Spec. Publ. Fish. Aquat. Sci., (S9): 64-69.
- Pope, J. G. and Knights, B. J., 1982. Comparison of length distribution of combined catches of all demersal fishes in surveys in the North Sea and at Faroe Bank. Can. Spec. Publ. Fish. Aquat. Sci., (59): 116-118.
- Bakun, A., Beyer, J., Pauly, D., Pope, J. G. and Sharp, G. D., 1982. Ocean sciences in relation to living resources. Can. J. Fish. Aquat. Sci., 39: 1059-1070.
- Pope, J. G., 1983. Fisheries resource management theory and practice. pp. 56-62 *In: Taylor, J. L. and Baird, G. G. (Eds.) 'New Zealand finfish Fisheries: the Resources and their Management. Trade Publications, Auckland.*
- Dyer, M. F., Pope, J. G., Fry, P. D., Law, R. J. and Portmann, J. E., 1983. Changes in fish and benthos catches off the Danish coast in September 1981. J. mar. biol. Ass. U.K., 63: 767-775.
- Pope, J. G., 1983. Analogies to the *status quo* TACs: their nature and variance. Can. Spec. Publ. Fish. Aquat. Sci., (66): 99-113.
- Pope, J. G. and Gray, D., 1983. An investigation of the relationship between the precision of assessment data and the precision of total allowable catches. Can. Spec. Publ. Fish. Aquat. Sci., (66): 151-157.
- Pope, J. G., 1984. Notes on the scientific problems of TAC management. FAO Fish. Rep., (289), Suppl. 2: 129-147.
- Pope, J. G., 1984. Statistics and survey design: subject group L. Rapp. P.-v. Reun. Cons. int. Explor. Mer, 1U: 128-133.
- Shepherd, J. G., Pope, J. G. and Cousens, R. D., 1984. Variations in fish stocks and hypotheses concerning their links with climate. Rapp. P.-v. Reun. Cons. int. Explor. Mer, 185: 255-267.
- Pope, J. G. and Shepherd, J. G., 1985. A comparison of the performance of various methods for tuning VPAS using effort data. J. Cons. int. Explor. Mer, 42, 129-151.

- Pope, J. G., 1987. Multispecies fisheries: getting to the guts of fisheries management problems. *Fishg Prospects*, MAFF Direct. Fish Res., Lowestoft and DAFS Mar. Lab., Aberdeen, (1987): 2941.
- Rosenberg, A. A and Pope, J. G., 1987. Comments on age-length vs length-age relationships. pp. 305-309. *In: Pauly, D. and Morgan, G. R. (Eds.). 'Length Based Methods in Fisheries Research'. ICLARM, Conference Proceedings, (13). (ICLARM, Manilla, Philippines and Kuwait Institute for Scientific Research, Safat, Kuwait.)*
- Pope, J. G. and Jiming, Y., 1987. Phalanx analysis: an extension of Jones' length cohort analysis to multispecies cohort analysis. pp. 177-191. *In: Pauly, D. and Morgan, G. R. (Eds.). 'Length Based Methods in Fisheries Research'. ICLARM, Conference Proceedings (13). (ICLARM, Manilla, Philippines and Kuwait Institute for Scientific Research, Safat, Kuwait.)*
- Pope, J. G., 1987. Two methods for simultaneously estimating growth, mortality and cohort size parameters from time series of catch-at-length data from research vessel surveys. pp. 103-111. *In: Pauly, D. and Morgan, G. R. (Eds.). 'Length Based Methods in Fisheries Research'. ICLARM Conference Proceedings, (13). (ICLARM, Manilla, Philippines and Kuwait Institute for Scientific Research, Safat, Kuwait.)*
- Pope, J. G., Stokes, T. K., Murawski, S. A. and Idoine, S. I., 1988. A comparison of fish size -composition in the North Sea and on Georges Bank. pp. 146-152. *In: Wolff, W., Soeder, C. J. and Drepper, F. R. (Eds.) 'Ecodynamics: Contributions to Theoretical Ecology'. Springer-Verlag, Berlin, Heidelberg, New York and London.*
- Pope, J. G., 1988. Collecting fisheries assessment data. pp. 63-82. *In: Gulland, J. A. (Ed.). 'Fish Population Dynamics. The Implications for Management'. 2nd Edn. Wiley - Interscience, Chichester and New York.*
- Pope, J. G., 1989. Multispecies extensions to age-structured assessment models. *Symp. Am. Fish. Soc.*, (6): 102-111.
- Pope, J. G. and Stokes, T. K., 1989. Use of multiplicative models for separable (VPA), integrated analysis, and the general VPA tuning problem. *Symp. Am. Fish. Soc.*, (6): 92-101.
- Pope, J. G., 1989. Fisheries research and management for the North Sea: the next hundred years. *Dana*, 8: 33-43.
- Pope, J. G. and Macer, C. T., 1991. Multispecies virtual population analysis of North Sea predators for the years 1963-1987. *ICES. Mar. Sci. Symp.*, 193: 46-49.
- Pope, J. G., 1991. The ICES Multispecies Assessment Working Group: Evolution insights, and future problems. *ICES Mar. Sci.*, *Symp.*, 193: 22-33.
- Rice, J. G., Daan, N., Pope, J. G. and Gislason, H., 1991. The stability of estimates of suitabilities in MSVPA over four years of data from predator stomachs. *ICES Mar. Sd., Symp.*, 193: 34-45.
- MacLennan, D. W., Shepherd, J. G., Pope, J. G., and Gislason, H., 1991. Fishing mortality and the variation of catches: a time series approach. *ICES Journal of Marine Science* 49 (4) 425-430.
- Shepherd, J. G. and Pope, J. G., 1993. Alternative methods for the estimation of immigration to the Icelandic cod stock. *Fish. Oceanogr.* 2:3/4, 254-259.
- Pope, J. G., Shepherd, J. G. and Webb, J., 1994. Successful surf-riding on size spectra: the secret of

survival in the sea. *Philosophical Transactions of the Royal Society Biological Sciences* 343 (1303) 41-49

Alverson, D. L., Freeberg, M. H., Marawski, S. A., and Pope, J.G., 1994, A global assessment of fisheries bycatch and discards, FAO Fisheries Technical Paper. No 339. Rome, FAO. 1994. 233p.

Dann, N., Heessen, H. and Pope, J. G., 1994, Changes in the North Sea cod stock during the twentieth Century. *ICES. mar. Sci. Symp.*, 198:229-243.1994

Nilssen, E. M., Pedersen, T., Hopkins, C. C. E., Thyholdt, K. and Pope, J.G., 1994, Recruitment variability and growth of North east Arctic cod: Influence of physical environment, demography and predator- prey energetics. *ICES mar. Sci. Symp.* 198: 449-470. 1994.

Pope, J.G. and Darby, C. (In press), Shall there be life without the comfort blanket of VPA?: Estimation of vital parameters where catch-at-age data are missing or corrupted. *Proceedings of Mare Nor conference*, Dec. 1994.

Pope, J.G. and Macer, C.T., An evaluation of the stock structure of North Sea cod, haddock, and whiting since 1920, together with a consideration of the impacts of fisheries and predation effects on their biomass and recruitment. *ICES Journal of Marine Science.* 53, 1157-1169.

Pope, J.G, Large, P and Jakobsen T., (In Press) Nilssen et al 1994 Revisited: A consideration of the influences of parent stock, temperature and predation on the recruitment of the North East Arctic cod stock from the 1930's to the present. *ICES Journal of Marine Science (Baltimore Recruitment Symposium)*.

Mimeographs, Newspaper Articles etc.

Pope, J. G., 1974. Contribution to the problem of designing length sampling schemes for the New England silver hake. *Res. Doc. int. Commn. N.W. Atlant. Fish.*, 74/83, 3 pp.

Pope, J. G., 1974. A possible alternative method to virtual population analysis for the calculation of fishing mortality from catch-at-age data. *Res. Doc. int. Commn. N.W. Atlant. Fish.*, 74/20, 17 PP

Pope, J. G. and Harris, O. C., 1975. The South African pilchard and anchovy stock complex: an example of the effects of biological interactions between species on management strategy. *Res. Doc. Int. Commn. N.W. Atlant. Fish.* (133): 7pp., Figs. (mimeo).

Pope, J. G. and Knights, B. J., 1975. Sources of variation in catch-at-age and the optimal use of age reading effort. *ICES CM 1975/F:20*, 10 pp. (mimeo).

Pope, J. G., 1976. An approach to mixed fisheries theory using a modified Leslie matrix. *ICES CM 1976/D:5*, 5 pp., tables, figs. (mimeo).

Pope, J. G., 1977. Note on the problem of the capture of immature gadoids in the North Sea. *ICES CM 1977/F:46*, 8 pp. (mimeo).

Garrod, D. J., Pope, J. G. and Knights, B. J., 1977. The ICES stock evaluation course: an experiment in replicate assessments. *ICES CM 1977/F:20*, 12 pp. (mimeo).

Pope, J. G., 1979. A modified cohort analysis in which constant natural mortality is replaced by estimates of predation levels. *ICES CM 1979/H:16*, 5 pp. (mimeo).

- Pope, J. G., Shepherd, J.G., Cushing, D.H. and Horwood, J.W., 1979. A new relationship between recruitment and parent stock. ICES CM 1979/G:33, 8 pp. (mimeo).
- Pope, J. G., 1980. Phalanx analysis: an extension of Jones' length cohort analysis to multispecies cohort analysis. ICES CM 1980/G:19, 5 pp, append., tables. (mimeo).
- Shepherd, J. G. and Pope, J. G., 1980. A preliminary analysis of species - directivity of effort in the UK fisheries. ICES CM 1980/D:9, 3 pp., tables. (mimeo).
- Pope, J. G., 1981. Practical guidelines for the precision of assessment data. ICES CM 1981/G:13, 6 pp., figs., tables, (mimeo).
- Pope, J. G. and Woolner, L. G., 1981. A simple investigation into the effects of predation on recruitment to some North Sea fish stocks. ICES CM 1981/G:14, 4 pp., tables (mimeo).
- Shepherd, J. G., Pope, J. G. and Cousens, R. D., 1982. Variations in fish stocks and hypotheses concerning their links with climate. ICES CM 1982/Gen:6, mini symposium, 22 pp.
- Pope, J. G., 1982. User requirements for the precision and accuracy of acoustic surveys. ICES Symposium on Fisheries Acoustics, Bergen, 21-24 June 1982, Contribution No. 55, 8 pp., tables (mimeo).
- Pope, J. G., 1982. Shortcut formulae for the estimation of coefficients of variation of *status quo* TACs. ICES CM 1982/G:12, 11 pp., tables (mimeo).
- Pope, J. G. and Portmann, J. E., 1982. Unusually low fish catches west of Jutland - September 1981. ICES CM 1982/E:12, 4 pp., figs., tables (mimeo).
- Woolner, L. and Pope, J. G., 1983. English North Sea groundfish surveys, 1977-81: a preliminary analysis. ICES CM 1983/G:14, 6 pp., figs., tables (mimeo).
- Pope, J. G. and Shepherd, J.G., 1983. A comparison of the performance of various methods for tuning VPAs using effort data. ICES CM1983/G:9, 17 pp, tables. (mimeo).
- Pope, J. G. and Shepherd, J. G., 1984. On the integrated analysis of catch at age data and groundfish survey on CPUE data. ICES CM 1984/G:16, 12 pp., append., figs., tables (mimeo).
- Pope, J. G. and Woolner, L., 1984. An investigation of the precision of the 1983 Western mackerel egg survey. ICES CM 1984/H:70, 10 pp., figs., tables (mimeo).
- Pope, J. G., 1984. The performance of short cut methods for catch forecasts. ICES CM 1984/D:3, 9 pp., tables (mimeo).
- Pope, J. G., 1984. Short-cut and *status quo* TACs: an overview. ICES 'Methods' Working Group Background Paper, 18 pp. (mimeo).
- Pope, J. G. and Hunton, J. K., 1985. Further analysis of the ICES 1981 stomach sampling data. ICES CM 1985/G:51, 6 pp., tables (mimeo).
- Pope, J. G. and Woolner, L.E., 1985. Improving the sampling design of Western Mackerel Egg Surveys. ICES CM1985/D:11, 6 pp., tables, fig., (mimeo).
- Pope, J. G., 1985. A note on the relationship of long-term yield effects to some assumptions about natural

- mortality. ICES 'Methods' Working Group Background Paper, 8 pp., Figs., Tables (mimeo).
- Pope, J. G., 1986. An integrated analysis on data for which only one age is disaggregated. ICES CM 1985/D:6, 5pp., figs., tables. (mimeo).
- Pope, J. G., 1986. A possible use of the Kalman filter for making routine updates of recruitment indices. ICES CM 1986/D:5, 6 pp., tables (mimeo).
- Pope, J. G., 1987. The guts of fish stock management. Fishg News, (3868), 4.
- Stokes, T. K and Pope, J. G., 1987. The detectability of catchability trends from catch at age and commercial effort data. ICES CM 1987/D:14, 4 pp., figs. (mimeo).
- Pope, J. G., 1990. Interview with John Pope, ICES/Ciem Information (16): 5-6.
- Bromley, P., Last, J. and Pope, J. G., 1990. A Steady-state trophic model of the North Sea (Poster). ICES CM 1990/L:47, 2 pp. (mimeo).
- Pope, J. G., 1991. Quotas - a scientist speaks out. *Toilers of the Deep*, 105 (876), 16.
- Pope, J. G., Nicholson, M. D. and Brown, C. G., 1991. The method for Estimating the Quantity of catch discarded and its application to the fishery for *Nephrops* off the north-east coast of England ICES CM 1991/K:17, 7 pp. (mimeo).
- Pope, J. G., 1992. ICES Statutory Meeting: a personal view. ICES Information 19: 3-9.
- Pope, J. G., 1992. A Re-appraisal of the 1992 Assessment of the Icelandic Cod Stock. Report commissioned by the Icelandic Government.
- Rocha, C. A. S., Stokes, T. K., Pope, J. G. and Kell, L. T., 1992. Defining species specific effort. ICES CM 1991/D: 32, 6 pp. figs. (mimeo).
- MacDonald, D. S., Pope, J. G., Daan, N. and Reynolds, J. D., 1994. Impact of fishing on non-target species. Report to the Commission of the European Communities. MAFF Directorate of Fisheries, R.I.V.O and The University of East Anglia.(20 May, 1994)

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Jack V. Tagart, Ph.D.

Qualifications: Thirty one years of experience as a professional fisheries scientist: seven years with salmonid fisheries, 24 years with marine fish; 17 years as a scientific advisor to the North Pacific Fishery Management Council (NPFMC), 15 years on NPFMC Scientific and Statistical Committee, 6 years as committee Vice-Chair. Technical expertise in quantitative analysis, population dynamics, and experimental design.

Professional experience Nov. 2003-present Tagart Consulting Olympia, WA
Fisheries Scientist

- Provide professional advice on fisheries science and management issues
- Assist clients in development of policy positions
- Provide technical reviews and comments
- Conduct independent research and analysis

Jun 1976-Oct 2003 WA. Dept. Fish & Wildlife Olympia, WA
Fisheries Research Scientist 2

- Last position held was Lead Scientist for Marine Fish Science Unit
 - Supervised a staff of 14 professional scientists and technicians
 - Administered annual budgets of \$1.5 million
 - Developed research plans and secured funding to address scientific questions arising from critical management needs.
 - Proposed short and long-term changes in marine resources management policy to compliment best available science.
 - Provided specialized technical advice to the Director or his designee regarding management, life history, population dynamics, economics, and fisheries for resources managed by the Pacific and North Pacific Fishery Management Councils.
 - Acted as technical advisor to the Governor's Distant Water Committee
 - Conducted analyzes of and provided technical input and policy recommendations for Federal legislation and administrative rules affecting management of Pacific and North Pacific Fisheries.

Other positions held include Fisheries Biologist 2, 3, 4 and Fisheries Research Scientist 1

- Served as Biologist 2 in the Steelhead Research Unit from 1976-1980
- Served as Biologist 3 – Fisheries Research Scientist 2 for Marine Fish Division 1980-1999, and 2001-2003

- Served as FRS2 in the Intergovernmental Policy Division 1999-2001
- Duties included
 - The majority of my service has been in the area of scientific research and technical support for Marine Fish Managers.
 - Twenty-three years of marine fish population monitoring, collection of demographic data, catch monitoring, fishery trend analysis, population dynamics including estimation of population size, recruitment and acceptable levels of catch.
 - Conducted independent research typically in collaboration with other scientists and technicians, most recent work involving development of video strip transect survey methodologies.
 - Provided quantitative consultation services to WDFW Marine Fish staff including development of survey sampling schemes, fisheries monitoring and experimental design.
 - Four years conducting steelhead life history research, monitoring in-stream fish density at select sampling stations, marking and releasing upstream and downstream migrants, conducting spawning ground surveys.
 - Nine years as PacFIN Data Committee representative Groundfish Committee
 - Two years in the development of agency policy positions for Puget Sound and coastal marine fish and their fisheries

Sep 1975-Jun 1976 US Fish & Wildlife Olympia, WA
 Fisheries Biologist (GS 7)

- Capture, tag and mark sample southern Puget Sound chinook, coho and chum salmon in order to determine “terminal area” population abundance and river escapement.
- Crew a purse seiner, tag fish, sample the fishery for tag recovery, conduct spawning ground surveys, and compile and analyze tag recovery data.

Jun, 1973 – Aug, 1975 University of Washington Seattle, WA
 Research Assistant

- Conduct research on the effects of logging on salmon and trout populations.
- Investigate the survival from egg deposition to emergence of coho salmon, correlating that survival with environmental variables such as gravel composition, dissolved oxygen supply, intra-gravel permeability, stream flow, and the extent of logging.
- Electrofish to determine density of salmon and steelhead in representative reaches of study tributaries

Education	<p>1968 Shoreline Community College Seattle, WA Associate in Applied Arts and Science/Marine Science Technician</p> <p>1973 University of Washington Seattle, WA Bachelor of Science/Fisheries Emphasis on Fisheries Management</p> <p>1976 University of Washington Seattle, WA Master of Science/Fisheries Thesis: The Survival from egg deposition to emergence of coho salmon in the Clearwater River, Jefferson County, Washington.</p> <p>1991 University of Washington Seattle, WA Doctor of Philosophy/Fisheries Thesis: The population dynamics of yellowtail rockfish (<i>Sebastes flavidus</i>) stocks in the northern California to southwest Vancouver Island region</p>
Professional memberships	<p>American Fisheries Society</p> <p>American Institute of Fisheries Research Biologists</p>
Clients (2004)	<p>Alaska Crab Coalition</p> <p>Aleutian Spray Fisheries</p> <p>Blue North Fisheries</p> <p>Central Bering Sea Fisherman's Association</p> <p>Fishing Vessel Owners Association</p> <p>Freezer Longline Conservation Cooperative</p> <p>Icicle Seafoods</p> <p>Marine Conservation Alliance</p> <p>Pacific Seafood Processors Association</p> <p>United Catcher Boats</p> <p>University of Washington on behalf of the Washington Department of Natural Resources, Cooperative Monitoring Evaluation and Research Committee</p>
Select Publications	<p>Tagart, J.V. 1991. Population dynamics of yellowtail rockfish (<i>Sebastes flavidus</i>) stocks in the northern California to southwest Vancouver Island region. Ph.D. Thesis, Univ. of Wash., Seattle, 323 p.</p> <p>Tagart, J.V., J.N. Ianelli, A. Hoffmann, and F.R. Wallace. 1997. Status of the Yellowtail rockfish resource in 1997. <i>In</i>, Appendix to Status of the Pacific Coast Groundfish Fishery Through 1997 and Recommended Acceptable Biological Catches for 1998, Stock Assessment and Fishery Evaluation. 146 p.</p>

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Tagart, J.V., F.R. Wallace, and J.N. Ianelli . 2000. Status of the Yellowtail rockfish resource in 2000. *In*, Appendix to Status of the Pacific Coast Groundfish Fishery Through 2000 and Recommended Acceptable Biological Catches for 2001, Stock Assessment and Fishery Evaluation. 125 p. Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, Oregon 97201, October 2000
<http://wdfw.wa.gov/fish/rockfish/yellowtail.pdf>

Bradbury, A. and J.V. Tagart. 2000. Modeling geoduck, *Panopea Abrupta* (Conrad, 1849) population dynamics II. Natural mortality and equilibrium yield. *Journal of Shellfish Research* 19(1):63-70.

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<http://www.pcouncil.org/groundfish/gfsafe0803/gfsafe0803.html>

Wallace, F. and J. Tagart. 1994. Status of the coastal black rockfish stocks in Washington and northern Oregon in 1994. *In*, Status of the Pacific Coast Groundfish Fishery Through 1994 and Recommended Acceptable Biological Catches for 1995. Volume 2, Appendix F. Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, Oregon 97201, September 1994.

Wallace, F., A. Hoffmann, and J. Tagart. 1999. Status of the black rockfish resource in 1999. Appendix to, Status of the Pacific Coast Groundfish Fishery Through 1999 and Recommended Acceptable Biological Catches for 2000. Pacific Fishery Management Council, 2130 SW Fifth Avenue, Suite 224, Portland, Oregon 97201, September 1999. *In preparation*.

Westrheim, S.J. and J.V. Tagart. 1984. Bathymetric distribution of Pacific cod (*Gadus macrocephalus*) off British Columbia and Washington State. *Int. North Pac. Fish. Comm. Bull. No.* 42:189-199.

Curriculum Vitae: André Eric Punt
NOVEMBER 2004

EDUCATION AND EMPLOYMENT

- 1982 Matriculated Bergvliet High School ('A' aggregate).
- 1983 - 1985 B.Sc. UCT (Distinctions in Applied Mathematics, Computer Science, and Mathematics, and Degree with Distinction).
- 1986 B.Sc. (Hons) UCT (Computer Science - 1st class).
- 1987 - 1988 M.Sc. UCT (Applied Mathematics - Degree with Distinction) Thesis title: Model selection for the dynamics of Southern African hake resources.
- 1989 - 1991 Ph.D. UCT (Applied Mathematics) Thesis title: Management procedures for Cape hake and baleen whale resources.
- 1987 - 1992 Research Officer in the Benguela Resources Population Modeling project of the Benguela Ecology Programme, FRD based in the Department of Applied Mathematics, UCT.
- 1992 - 1994 Research Associate at the School of Fisheries, University of Washington.
- 1994 - Resource Modeller, Division of Marine Research, CSIRO.
- 2001 - Research Associate Professor, School of Aquatic and Fishery Sciences, University of Washington.

TEACHING EXPERIENCE

- 1987 Lectured and set examinations for part of AMA 218S (Introduction to Biological Modeling).
- 1988 Lectured parts of AMA 218S (Introduction to Biological Modeling) and SMS 201F (Calculus of Several Variables and Vector Analysis).
- 1989 - 1990 Lectured part of AMA 218S (Introduction to Biological Modeling).
- 1991 Lectured parts of AMA 218S (Introduction to Biological Modeling) and SMS 201F (Calculus of Several Variables and Vector Analysis).
- 2001 Planned and lectured FISH 512 (Age Structured Models) with Ray Hilborn
- 2002, 2004 Planned and lectured FISH 458 (Fisheries Stock Assessment).
- 2003 Planned and lectured workshops on Visual Basic and AD Model Builder.
- 2003 Planned and lectured FISH 507 (Numerical Computing for Fisheries Assessment and Management).
- 2004 Planned and lectured FISH 507 (Age Structured Models) with Ray Hilborn
- 2004 Acted as faculty mentor for Lucy Flynn who taught FISH 497 (Visual Basic Programming with Excel)

During 2001-2004, I have also given guest lectures / participated in the following courses: FISH 210, 323, 444, 458, 475, 512, 522, 558, 578 and QERM 597.

STUDENTS SUPERVISED

I currently chair the Committees of the following students:

1. Jason Cope: “Stock assessments and emerging fisheries: Population dynamics of Northeast Pacific nearshore fishes as they relate to the goals of U.S. west coast Nearshore Fishery Management Plans” (Ph.D. student: Support: Groundfish NMFS)
2. Melissa A Haltuch: “Modeling human, climate, and habitat impacts on pacific northwest groundfish” (Ph.D. student: Support: NMFS-Sea Grant Population Dynamics Fellowship)
3. Rod. Towell: “Northern fur seal population dynamics on the Pribilof Islands, Alaska” (MS student: Support: Agency agreement)
4. Doug Kinzey: “Multispecies stock assessment with predator-prey interactions” (Ph.D. student: Support: AFSC SAIP)
5. John Brandon: “Incorporating environmental indices in marine mammal stock assessments” (MS student: Support: NMML)

I also co-supervise a Ph.D. student (Mr Bruce Taylor) at the University of Melbourne (2001-) and a Ph.D. student (Ms Robin Thomson) at the University of Tasmania (2004-). I will be major professor for Teresa A’Mar, and Gavin Fay once they establish Committees. I am a member of the Committees of the following UW students:

1. Alex da Silva (Ph.D.) [2001 -
2. Stephani Zador (Ph.D.) [2002 –
3. Ian Stewart (Ph.D.) [2002 –
4. Judith E. Little (MS) [2003 –
5. Lucy Flynn (MS) [2003 –
6. Timothy J. Miller (Ph.D.) [2003 –
7. Juan Valero (Ph.D.) [2003 –
8. Arni Magnusson (Ph.D.) [2003 –

Students with completed degrees

Chaired

1. Gavin Fay: “A Bayesian stochastic metapopulation model for Steller’s sea lions in Alaska” (MS student; SAFS, 2004).
2. Teresa A’Mar: “Quantifying Error and Uncertainty in Fishery Stock Assessment Models” (MS student; QERM, 2004).

Committees

1. Gakushi Ishimura (MS) [2001–2003] (thesis title: “Bioeconomic model approach for a fluctuating fish stock: Bioeconomic assessment of harvest strategies for the Pacific whiting fishery”).
2. Brandon Chasco (MS) [2002–2004] (thesis title: “Run Reconstruction and in-season forecasting of sockeye salmon in Chignik, Alaska”).
3. Carolina Minte-Vera (Ph.D.) [2001–2004] (thesis title: “Meta-Analysis of Density-dependent Somatic Growth”).
4. Trevor A. Branch (Ph.D.) [2001 – 2004] (thesis title: “Individual quotas as a management tool for multispecies fisheries”).

ACADEMIC ADMINISTRATION EXPERIENCE

- 2001 - present Planned and co-ordinated the UW-NMFS mini-workshop series
- 2001 - 2003 University of Washington Faculty Senator
- 2002 - present Quantitative Committee, SAFS
- 2003 Chaired the Marine Ecology Position Search Committee

PROFESSIONAL ACTIVITY

Appointments (major committees)

1. **Member: Scientific Committee of the International Whaling Commission, 1990 – present**
2. **Member: IUCN Standards and Petitions Committee**
3. **Participant: Working Group on Integration of Marine Protected Areas and Fishery Science and Management, 2004 – present.**
4. **Member: Pacific Fishery Management Council Scientific and Statistical Committee, 2001 – present**
5. **Scientific Member: Southern Shark Fishery Management Committee (Australia), 1997 – 2001**
6. **Member: Northern Prawn Fishery Assessment Group, Australia (Australia), 1996 – 2000.**
7. **Chair: Southern Shark Fishery Assessment Group (Australia), 1995 – 2001.**
8. **Editorial Boards: *Fisheries Research*, *Population Ecology***
9. Guest Editor: *Fisheries Research* - Special Issue on GLMs, GAMs and GLMMs in fisheries

Peer reviewer

I review 1-2 papers per month. The journals for which I have reviewed manuscripts since 2001 are: *African Journal of Marine Science*, *AFS Symposium Series*, *Aquatic Living Resources*, *Bulletin of Marine Science*, *Canadian Journal of Fisheries and Aquatic Sciences*, *CCAMLR Science*, *Ecological Modelling*, *Fish and Fisheries*, *Fishery Bulletin*, *ICES Journal of Marine Science*, *Journal of Applied Ecology*, *Journal of Cetacean Research and Management*, *Journal of Northwest Atlantic Fisheries Science*, *Fisheries Research*, *Marine and Freshwater Research*, *New Zealand Journal and Marine and Freshwater Research*, *Population Ecology*, *South African Journal of Marine Science*.

Since 2001, I have reviewed grant applications for: JIMAR, Pelagic Fisheries Research Program; Natural Environment Research Council, UK; Pacific States Marine Fisheries Commission; and Cooperative Institute for Marine Resources Studies.

Awards

1. **Jamieson Memorial Bursary - awarded on the basis of matriculation symbols (South Africa – 1983).**
2. **Jacob Burlank Scholarship - awarded to the top student in Mathematics II who intends progressing to Mathematics III (South Africa – 1984).**
3. **Roderick Noble Scholarship - awarded to the B.Sc graduate from UCT with the most outstanding academic record throughout his/her undergraduate career (South Africa – 1985).**
4. **Southern Life Book Prize - awarded to the top student in the B.Sc. (Hons) Computer Science class (South Africa – 1986).**

5. **Myer Levinson (EMDIN) Scholarship** - awarded to the UCT student who is most successful in his/her B.Sc. (Hons) degree and who intends furthering his/her research in the year following the award of the scholarship (South Africa – 1986).
6. **Croll Memorial Scholarship** - awarded to the UCT student who is most successful in his/her B.Sc (Hons) degree and who intends furthering his/her research in the year following the award of the scholarship (South Africa – 1986).
7. **South African College Croll Scholarship** - awarded on the basis of examination results to a UCT student who intends furthering his/her research in the year following the award of the scholarship (South Africa – 1988).
8. **S2A3 Medal** - awarded by the South African Association for the Advancement of Science for the best M.Sc. dissertation in the Sciences at UCT (South Africa – 1988).
9. **K. Radway Allen Award** - awarded for an outstanding contribution in fish or fisheries science (Australia - 1999).
10. **COFS Distinguished Teaching Award** (USA – 2003).

Recent (2000-2004) invited talks / keynotes addresses

1. Invited speaker: Stock assessment techniques for hermaphroditic marine fisheries, St Petersburg, September 2000.
2. Invited speaker: DFO Fisheries Management Studies Working Group, Dartmouth, 25-29 June 2001.
3. Invited speaker: Life Histories, Assessment and Management of Crustacean Fisheries, La Coruña, 8-14 October 2001.
4. Invited speaker: DFO Workshop on Implementing the Precautionary Approach in Assessment Advice, Ottawa, 10-14 December 2001.
5. Keynote speaker: Elasmobranch Fisheries: Managing for Sustainable Use and Biodiversity Conversation, 24th Annual NAFO meeting, Santiago de Compostela, 11-13 September 2002.
6. Invited speaker: Oregon Chapter American Fisheries Society, 39th Annual Meeting, Eugene, 26-28 February 2003.
7. Invited speaker: American Fisheries Society, 133rd Annual Meeting, Quebec, 11-13 August 2003.
8. Invited speaker: Pre-conference Workshop on Assessment and Management of Deepsea Fisheries, Dunedin, 27-29 November 2003.
9. Keynote speaker: Deep Sea 2003 Conference, Queenstown, 1-5 December 2003.
10. Invited speaker: World Fisheries Congress, Vancouver, 2-6 May 2004.
11. Keynote speaker: 2004 World Conference on Natural Resource Modelling, Melbourne, 12-15 December 2004.

12.

Bio: Dr. Dayton Lee Alverson

NRC was established in 1980 to meet the need for a comprehensive consulting service dealing with all aspects of marine and inland fisheries and their related resource base. Headquartered at Fishermen's Terminal in Seattle, NRC is a world leader in fisheries research. With 18 years of corporate experience and over 200 years of personnel experience in all aspects of the fishing industry, recreational fishing, and fishery conservation, NRC provides fishery-related products and services to industry and governmental agencies worldwide.

Best known for its work in commercial fisheries of the Northeast Pacific and Bering Sea, NRC and its officers have also done extensive work in fisheries research throughout the United States and the world, including the North Atlantic, Indian Ocean and South Pacific. More recent, NRC has carried out extensive research in the growing areas of fishery/cable interactions, salmon investigations, natural resource damage assessment, port development, aquaculture and recreational fisheries.

Dr. Alverson is Chairman of the Board and Founder of NRC with over 30 years experience in fisheries science and management. Dr. Alverson's accomplishments are well known in the fishing industry, and he is recognized as one of the leading experts on US fisheries with a special emphasis on the North Pacific. As director of the National Marine Fisheries Service Northwest and Alaska Fisheries Center from 1970 to 1980, Dr. Dayton "Lee" Alverson was responsible for planning, managing, administering, and evaluating the NMFS' comprehensive research and development program in the Northeast Pacific Ocean. In this capacity Dr. Alverson coordinated research in the fields of fishery biology, zoology, oceanography, chemistry, physical sciences, engineering, fishery methods, equipment development, and food science.

In addition to his career in U.S. fisheries research and management, Dr. Alverson is an internationally recognized expert in world fisheries. Among other duties, he served for a number of years as member and/or chairman of the Advisory Committee on Marine Resources Research of the Food and Agriculture Organization of the United Nations, the foremost international agency in aiding fisheries of developing countries.