

Curriculum Vitae

Jon Helge Vølstad

Leader, Fishery Dynamics Research Group, Principal Research Scientist

Address/Affiliation:

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Education:

- Dr.Scient. (Ph.D.) Quantitative Fisheries Biology (Biometrics), University of Bergen (Norway), 1990. (Dissertation: Some Aspects of the Design and Analysis of Marine Abundance Surveys).
- British Council Fellow, Biomathematics/Statistics, Oxford University (U.K.), 1987.
- Cand.real. (M.Sc.) Fisheries Biology including Management, University of Bergen, 1985.
- Cand.mag. (B.S.) Double majors in Mathematics/Statistics and Biology, University of Bergen, 1982.

Key Qualifications:

Statistical Survey Methods to Assess Fisheries Resources and the Environment; Quantitative Fisheries Biology & Modeling with Quantification of Uncertainty; Methods for Small Scale, Recreational, and Commercial Fisheries Monitoring & Assessment; Ecological and Environmental Statistics; Biological Indicators and Biocriteria for Environmental Assessments.

Employment History:

- 2010- Research group leader, Fishery Dynamics, and Principal Scientist, Institute of Marine Research, Bergen, Norway.
- 2007-2009 Senior Research Scientist, Institute of Marine Research, Bergen, Norway.
- 1999-2007 Principal Biometrician and Program Manager, Versar, Inc., Columbia, Maryland, USA.

- 2003-2006 Adjunct Faculty , University of Maryland, College Park, Graduate School, Department of Animal and Avian Sciences, Biometrics Group.
- 1996-1999 Scientific Advisor, Fisheries Research Institute (IIP), Maputo, Mozambique, & Senior Scientist, Institute of Marine Research, Bergen, Norway (On leave of absence from Versar, Inc.)
- 1994-1996 Senior Scientist, Versar, Inc., Columbia, Maryland, USA.
- 1992-1994 Post-doc. (Applied Mathematician/Statistician), University of Maryland, Center for Environmental and Estuarine Studies, Chesapeake Biological Laboratory, Maryland, USA.
- 1990-1992 Senior Research Scientist, Institute of Marine Research, Bergen, Norway. (Fellowship from the Norwegian Research Council.)
- 1987-1990 Research Scholar, Institute of Marine Research, Bergen, Norway (PhD fellowship from the Norwegian Research Council.)
- 1985-1987 Research Scholar, Institute of Marine Research, Bergen, Norway.

Recent International Committee Work:

Chair (with Mike Armstrong, UK), The Second Workshop on practical implementation of statistical sound catch sampling programs (WKPICS2), Copenhagen, Denmark, 6-9 November 2012

Chair (with Mike Armstrong, UK), The Workshop on practical implementation of statistical sound catch sampling programs (WKPICS), Bilbao, Spain, 8-10 November 2011

Convener (with David A. Van Voorhees, U.S. , Claus Reedtz Sparrevohn, Denmark , Jeremy Lyle, Australia, Maggie Sommer, Scotland). Symposium: Improving Survey Methods for Monitoring Recreational Fishing Effort and Catch, American Fisheries Society Annual Meeting 2011, Seattle, USA.

Co-chair (with Mike Armstrong, UK), The Joint ICES-STEFCF Workshop on methods for merging fleet métiers for fishery based sampling [WKMERGE], ICES HQ, January 19-22, 2010.

Chair (with Sondre Aanes, Norway), Workshop on Methods to Evaluate and Estimate the Precision of Fisheries Data used for Assessment (WKPRECISE), ICES HQ, 8–11 September 2009.

Chair (with Michael Pennington, Norway), Workshop on Methods to Evaluate and Estimate the Accuracy of Fisheries Data used for Assessment (WKACCU), 27–30 October 2008, Bergen, Norway.

Convener (with Dave Van Voorhees, USA, and Patrick Berthou, France), Symposium on Small-scale & Recreational Fisheries Surveys, Assessment, and Management at the 2008 ICES annual science conference in Halifax.

Peer Reviews:

Reviewer for scientific journals:

Aquatic Living Resources; Bull. Mar. Sci.; Can. J. Fish. Aquat. Sci.; Fish. Bull.; Fish. Res. ICES J. Mar. Sci.; ICES Mar. Sci. Symp.; Nature, New Zealand Journal of Marine & Freshwater Research; North Am. J. Fish Management; Sequential Analysis; Trans. Am. Fish. Soc.; Journal of the American Benthic Society (JNABS)

Reviewer for agencies:

- Contracted by the Center of Independent Experts (CIE) as reviewer of the eastern Bering Sea crab and groundfish bottom trawl surveys conducted by the Alaska Fisheries Science Center (AFSC). The data from this survey are used in more than 25 stock assessments conducted by the AFSC as well as the State of Alaska and the International Pacific Halibut Commission. April, 2012.
- Contracted by ICES as expert reviewer of the EU COST project, 'Common tool for raising and estimating properties of statistical estimates derived from the Data Collection Regulation Studies and Pilot projects for carrying out the common fisheries policy', Project no SI2.467814. May 2009.
- Center of Independent Expert (CIE) reviewer for a joint Canada-U.S. Pacific hake / whiting Stock Assessment Review (STAR) Panel meeting, Seattle, Washington, February 3-6, 2009. The Panel operated under the U.S. Pacific Fishery Management Council's Terms of Reference for the Groundfish Stock Assessment and Review Process for 2009-2010.
- Contracted by the National Marine Fisheries Services (USA) to serve on the expert review panel for the Ground fish Assessment Review Meeting (GARM III). Northeast Fisheries Science Center, Woods Hole, USA, October 29-Nov 2, 2007.
- Member of expert panel invited by Northeast Fisheries Science Center (NEFSC) to review planned experiments to calibrate NOAA research vessel R/V Henry B Bigelow relative to R/V Albatross IV. Woods Hole, MA, April 25-27, 2007
- Member of an expert panel to review the Atlantic States Cooperative Statistics Program in the US. This review, conducted in Baltimore from September 19-21, 2006, was by invitation from the American Fisheries Society, Marine Fisheries Section.

- CIE reviewer on the Stock Assessment Review (STAR) Panel assembled to review new assessments for US West Coast stocks of English sole, petrale sole, and starry flounder. Northwest Fisheries Science Center, Seattle, WA, 18-22 April 2005
- CIE reviewer on SEDAR (South East Data, Assessment and Review) workshops on Gulf and South Atlantic King mackerel (SEDAR 5), SEFSC Laboratory in Miami Florida, February 16-19, Miami, USA, 2004.
- CIE reviewer on SEDAR (South East Data, Assessment and Review) workshops to evaluate assessments of the Status of the Stocks of Vermilion Snapper, and Black Sea Bass from the south east of the U.S. in 2003. Raleigh, NC, February 25-28, 2003.
- Reviewed the Artisanal Fisheries Monitoring Program conducted by IIP-Instituto Nacional de Investigação Pesqueira (Mozambican Fisheries Research Institute), contracted by IIP. Maputo, Mozambique, August 29 to September 13, 2004.
- Member of an expert review team selected by the American Fisheries Society's Marine Fisheries Section to assess Atlantic States Cooperative Statistics Program (ACCSP) pilot survey of for-hire fisheries (i.e., charter and party/head boats) on the U.S. Atlantic Coast. 2002.
- CIE reviewer on the first Groundfish Assessment Review Meeting (GARM) for 20 northeast USA stocks managed under the Northeast Multispecies Fishery Management Plan (Multispecies FMP). Woods Hole, Massachusetts from October 8-11, 2002

5 recent publications:

Weber, Edward D., Jon Helge Vølstad , Mary C. Christman , Danny Lewis & Jodi R. Dew-Baxter. 2013. Application of a Demographic Model for Evaluating Proposed Oyster-Restoration Actions in Chesapeake Bay, Human and Ecological Risk Assessment: An International Journal, DOI:10.1080/10807039.2013.767110

Hirst, D., Storvik, G., Rognebakke, H., Aanes, S., and Vølstad, J.H. 2012. A modeling approach to the estimation of catch-at-age of commercial fish species. Canadian Journal of Fisheries and Aquatic Sciences 69: 1–13. doi:10.1139/CJFAS-2012-0075

Ring Kleiven, A., E. Moland Olsen, J.H. Vølstad. 2012. Total catch an order of magnitude above reported catches for a red-listed marine species. PLoS ONE 7(2): e31216. doi:10.1371/journal.pone.0031216

Kleiven, A. R., Olsen, E. M. and Vølstad, J. H. 2011. Estimating recreational and commercial fishing effort for European lobster *Homarus gammarus* by strip transect sampling. Marine and Coastal Fisheries 3: 383–393. Link: <http://www.tandfonline.com/doi/full/10.1080/19425120.2011.638798>

Vølstad, J. H., Korsbrekke, K., Nedreaas, K. H., Nilsen, M., Nilsson, G. N., Pennington, M., Subbey, S., and Wienerroither, R. 2011 Probability-based surveying using self-sampling to estimate catch and effort in Norway's coastal tourist fishery. – ICES Journal of Marine Science, 68: 1785-1791. <http://dx.doi.org: 10.1093/icesjms/fsr077>

5 selected additional papers

Vølstad, J.H., J. Dew, and M. Tarnowski. 2008. Estimation of annual mortality rates for eastern oysters (*Crassostrea virginica*) in Chesapeake Bay based on box counts and application of those rates for projection of population growth of both *C. virginica* and the Asian oyster (*C. ariakensis*). *J. Shellfish Research* 27:1-9.

Sharov, A.F., J.H. Vølstad, G.R. Davis, B.K. Davis, R.N. Lipcius, and M.M. Montane. 2003. Abundance and exploitation rate of the blue crab (*Callinectes sapidus*) in Chesapeake Bay. *Bulletin of Marine Science* 72 (2): 543–565.

Pennington, M. and J.H. Vølstad. 1994. Assessing the effect of intra-haul correlation and variable density on estimates of population characteristics from trawl surveys. *Biometrics* 50: 725-732.

Polacheck, T. and J.H.Vølstad. 1993. Analysis of spatial variability of George Bank haddock (*Melanogrammus aeglefinus*) from trawl survey data using a linear regression model with spatial interaction. *ICES Journal of Marine Science* 50: 1-8.

Pennington, M. and J.H. Vølstad. 1991. Optimum size of sampling unit for estimating the density of marine populations. *Biometrics* 47: 717-723.