

Short Curriculum Vitae for Einar Svendsen**Date of birth:** 19th November 1951, **Nationality:** Norway**Present position:** Research director at the Institute of Marine Research (IMR)**Degree:** Cand.Real (1979) (cand.real. + one year of professional research is equivalent to PhD)**Research activities and fields of interest:** 31 years experience in research on physical oceanography, remote sensing and marine ecology in arctic and sub-arctic regions. Of special interest is the development and use of NORWECOM (the Norwegian Ecological Model system, operational from 1994) for studying links between physics (climate) and lower trophic level biology and fish recruitment prediction. The model has also been used for quantification of long distant transports of nutrients, organic matter and pollution in relation to Norwegian (SFT) and international (OSPAR) management tasks. Has published about 50 scientific review articles and taken part in 17 larger expeditions (several as chief scientist) in the Arctic, Antarctic and the Northern Seas.**Recent experience in directing research:**

2009- National representative of the Scientific Committee of the International Council of the Exploration of the Seas (ICES)

2007- Research director at IMR

2004-2006 chairman of the ICES Oceanography Committee and member of the ICES Consultative Committee.

2000-2003 leading the development of the AMOEBE Plan, a plan for a huge joint effort on cross-disciplinary research and development to understand and quantify the dynamics of our northern marine ecosystems.

1998-2005 member of the IMR board representing the scientific staff.

1997-2003 head of the Section for Physical Oceanography at IMR

1995-1998 Chairman of the ICES Working Group of Shelf Seas Oceanography

At the IMR, originator and leader for several projects, some with extensive national and/or international (EU) external funding for research. All commitments has been satisfactorily met within specified times and budgets.

Member of the SKAGEX Steering Group responsible for the coordination of physical oceanography including data from 17 ships.**Some selected publications from 2000-**P. Brasseur, N. Gruber, R. Barciela, K. Brander, A. J. Hobday, M. Huret, P. Lehodey, C. Moulin, R. Murtugudde, I. Senina, **E. Svendsen**, R. Matear. (2009). Integrating biogeochemistry and ecology into ocean data assimilation systems. *Oceanography* Vol.22, No.3, 206-215.Solfrid Saetre Hjoello, Ph.D.; Morten D Skogen; **Einar Svendsen** (2009). Exploring currents and heat within the North Sea with a numerical model. Accepted in *Journal of Marine Systems***Svendsen E.**, M. Skogen, P. Budgell, G. Huse, B. Ådlandsvik, F. Vikebø, J.E. Stiansen, L. Asplin, S. Sundby (2006). An Ecosystem Modelling Approach to Predicting Cod Recruitment. *Deep Sea Research II*, 54, 2810-2821).J.A.Johannessen, B. Hackett, **E. Svendsen**, H. Sjøiland, L. P. Røed, N. Winther, J. Albrechtsen, D. Danielssen, L. Pettersson, M. Skogen, and L. Bertino, (2006), Monitoring the Norwegian Coastal Zone Environment –The MONCOZE Approach. *European Operational Oceanography: Present and future, In Proceedings of 4th International Conference on EuroGOOS*, Ed. by H. Dahlin, N. C. Flemming, P. Marchand and S. E. Petersson, European Communities, Brussels, Belgium, pp 809-815.

Edwards M., D.G. Johns, S.C. Leterme, **E. Svendsen**, A.J. Richardson. (2006): Regional climate change and harmful algal blooms in the north east Atlantic. *ASLO Limnology and Oceanography*, Vol. 51(2)

Hackett, B., J. Albretsen, L.P. Røed, J.A. Johannessen and **E. Svendsen**, 2006: The MONCOZE Pilot Ocean Monitoring System (POMS); A Tool for Marine Environmental Monitoring. European Operational Oceanography: Present and future. In *Proceedings of 4th International Conference on EuroGOOS*, Ed. by H. Dahlin, N. C. Flemming, P. Marchand and S. E. Petersson, European Communities, Brussels, Belgium, pp. 242-247.

Skogen M. D., H. Søliland and **E. Svendsen**, (2004): Effects of changing nutrient loads to the North Sea. *Journal of Marine Systems*, 46, 23-38.

Skogen, M.D., Søliland, H. & **Svendsen, E.** (2003). Eutrophication issues attacked by a numerical model of the North Sea/Skagerrak. ICES C.M. 2003/P:6

Skogen, M.D., Søliland, H. & **Svendsen, E.** (2003). Eutrophication scenaria from Reduced Nutrient loads to the North Sea. ICES C.M. 2003/W:1

Svendsen, E. (ed.). 2002. The AMOEBE Plan. ISBN: 82-7461-054-7, pp. 250. http://www.imr.no/sok?search_mode=simple&action=Search&sort_mode=total_score&at_least_one_query=amoebe

Iversen, S.A., Skogen, M.D. & **Svendsen, E.** (2002). Availability of horse mackerel *Trachurus trachurus* in the north eastern North Sea, predicted by the transport of Atlantic water. *Fisheries Oceanography*, 11: 245-250

Aure, J., Danielssen, D., Skogen, M., **Svendsen, E.**, Søliland, H. and Petterson, L. (2002). Environmental conditions during the *Chattonella* bloom in the North Sea and Skagerrak in May 1998. pp. 82-85 in: *Proceedings of the 9th. Int. Conf. on Harmful Algal Blooms, Hobart, Australia, 2000*. Hallegraeff, G.M, B., Blackburn, S.I., Bolch, C.J. and Lewis, R.J. (Eds), Intergovernmental Oceanographic Commission of UNESCO, Paris.

Reid, C., Borges, F, **Svendsen E.** (2001). A regime shift in the North Sea circa 1988 linked to changes in the North Sea horse mackerel fishery. *Fisheries Research* 50, 163-171

Durand, D., L.H. Pettersson, O.M. Johannessen, **E. Svendsen**, H. Søliland and M. Skogen, 2001. Satellite observation and model prediction of toxic algae bloom. In: EuroGOOS (Editor), *Second International Conference on Operational Oceanography: Extending the limits of predictability*. Elsevier Oceanography series , The Netherland.

Lasse H. Pettersson, Dominique Durand, Ola M. Johannessen, Thomas Noji, Henrik Soiland, **Einar Svendsen**, Steve Groom and Peter Regner, 2001: Monitoring and Model Predictions of Harmful Algae Blooms in Norwegian Waters . In *proceedings from IGRASS'01, Sydney, Australia, July*.

Durand, D., L.H. Pettersson, M. Skogen, **E. Svendsen** and H. Søliland, 2000. Monitoring of the *Chattonella* bloom in the North Sea and the Skagerrak in May 1998. In *Proceedings of the 25th EGS General Assembly*, Nice, France, European Geophysical Society, (on CDROM).

Pettersson, L.H., D. Durand, O.M. Johannessen, **E. Svendsen**, H. Søliland, and P. Regner 2000. Satellite observations and model predictions of toxic algae bloom in coastal waters. In *Proceedings of the 28th Int. Symposium on Remote Sensing of Environment*, Cape Town, South Africa, 27-31 March 2000.

Pettersson, L.H., D. Durand, O.M. Johannessen, **E. Svendsen**, H. Søliland, 2000. Satellite observations and model predictions of toxic algae bloom in coastal waters. In *Proceedings of the Oceans from Space – Venice 2000 symp.* Venice, Italy, 9-13 October 2000, European Commission, EUR 19661 EN, pp. 12.

Some selected older publications

Berntsen, J., **Svendsen, E.** 1999. Using the Skagex dataset for evaluation of ocean model skills. *Journal of Marine Systems* 18, 313-331.

Svendsen, E., Berntsen, J., Skogen, M., Ådlandsvik, B., Martinsen, E. 1996. Model Simulation of the Skagerrak Circulation and Hydrography during Skagex. *Journal of Marine Systems* 8, 219-236.

Svendsen, E., A. Aglen, S.A. Iversen, D.W. Skagen and O. Smestad (1995). Influence of climate on recruitment and migration of fish stocks in the North Sea. *In: R.J. Beamish (ed.) Climate change and northern fish populations. Can. Spec. Publ. Fish. Aquat. Sci. 121: 641-653.*

Skogen M., **E. Svendsen**, J. Berntsen, D. Aksnes and K. Ulvestad, (1995). Modeling the primary production in the North Sea using a coupled 3-dimensional physical chemical biological ocean model. *Estuarine, Coastal and Shelf Science, 41, 545-565.*

Svendsen, E., R. Sætre and M. Mork. (1991). Features of the northern North Sea Circulation. *Continental Shelf Research. Vol. 11, No. 5: 493-508.*

Svendsen E., K. Kloster, B. Farrelly, O.M. Johannessen, J.A. Johannessen, W.J. Campbell, P. Gloersen, D. Cavalieri and C. Maetsler (1983): Norwegian Remote sensing Experiment: Evaluation of the Nimbus 7 SMMR for sea ice research. *Journal of Geophysical Research, vol. 88, no. C5, March 30, 1983.*