

PERSONAL INFORMATION

Henning Wehde

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WORK EXPERIENCE

01/05/2014–Present

Head of Research and Advice Programme North Sea

Institute of Marine Research, Bergen (Norway)

2009–30/04/2014

Senior Scientist

Institute of Marine Research, Bergen (Norway)

2006–2009

Senior Researcher

Norwegian Institute of Water Research, Bergen (Norway)

2003–2006

Researcher

GKSS Research Centre (Nowadays HZG), Geesthacht (Germany)

1997–2003

Scientist

Institute of Oceanography, University of Hamburg, Hamburg (Germany)

EDUCATION AND TRAINING

1997–2001

Dr. rer. nat.

University of Hamburg, Hamburg (Germany)

1990–1996

Diploma in Oceanography

University of Hamburg, Hamburg (Germany)

PERSONAL SKILLS

Mother tongue(s)

German

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Norwegian	C2	C2	C2	C2	C2
French	A2	B1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

Good communication skills obtained via the participation in several EU projects and presentations at

severaal international conferences and meetings

Organisational / managerial skills

Lead of the Research and Advice Programme North Sea
Lead of the NOOS collaboration

ANNEXES

- PUBLICATIONS.pdf

PUBLICATIONS.pdf

PUBLICATIONS:

Backhaus, JO, Wehde, H (1997): Convection in the Baltic Sea – a numerical process study -. In: Özsoy E, Mikaelyan A (Editoren) NATO ASI-series: Sensitivity to change: Black Sea, Baltic Sea and North Sea. Kluwer Academic Publ, Dordrecht, 295-309.

Wolf, S, Wehde, H, L'Heveder, B, Quadfasel, D (1997): Valdivia Cruise V165 during Spring 1997. ESOP II newsletter 9/97, 2-3.

Wehde, H, Backhaus, JO (1999): Oceanic Convection and Carbon Uptake in the Greenland Sea. In: The Thermohaline Circulation in The Greenland Sea–Final scientific report– ESOP II Section C2.

Backhaus, JO, Wehde, H, Nøst Hegseth, E, Kämpf, J (1999): 'Phyto-convection': the role of oceanic convection in primary production. *Mar Ecol Prog Ser* 189, 77-92.

Backhaus, JO, Nøst Hegseth, E, Wehde, H, Hatten, K, Logemann, K, Nedderhut, H, Arndt, C (2000): Cruise Report: Phyto - Convection, VALDIVIA cruise 176, Hamburg – Thorshavn, 26. Feb-20.Mar 1999, VALDIVIA cruise 178, Thorshavn - Reykjavik, 08. Apr - 26. Apr 1999

Wehde H, Backhaus, JO (2000): The fate of Lagrangian tracers in oceanic convective conditions: on the influence of oceanic convection in primary production. *Nonlinear Analysis: Real World Applications* 1, 3-21

Wehde, H, Backhaus, JO, Nøst Hegseth, E (2001) The Influence of Oceanic Convection in Primary Production. *Ecological Modelling* 138, 115-126.

Wehde, H (2001): Phytokonvektion im offenen Ozean – Feldexperimente und numerische Prozessstudien -, Dissertation, Berichte aus dem Zentrum für Meeres- und Klimaforschung, Reihe B, Nr. 38, 144 pp.

Ivanov, LI, Backhaus, JO, Oszoy, E, Wehde, H, (2001): Convection in the Black Sea during cold winters. *J. Mar. Syst.*, 31/1-3, 65-76.

Semovski, S., Popovskaya, G. I., Backhaus, J., Wehde, H. and Schrum, C. (2001): Intensive late summer coastal bloom in North Baikal hydrodynamic control of Cyanobacteria growth in low nutrient conditions. Conf proceed. 9th International Conference on the Conservation and Management of Lakes. P 25-27

Wehde, H, Heyen, S, Janout, M, Kaletzky, A, Mohn, C, Quast, G, Pestel, J, Rabe, B, Rinas, K, Trumm, F, Vaessen, B, (2002): Cruise report: RV ARANDA Cruise FRAMZY, leg C, Tromsø – Tromsø, 2. Apr – 14. Apr 2002

Backhaus J.O., Nøst Hegseth, E., Wehde, H., Irigoien, X., Hatten, K., and Logemann, K.,(2003): Convection and primary production in winter. *Mar Ecol Prog Ser* 251, 1-14.

Wehde, H. (2003): On the Influence of mixed-layer depth variations on primary production Hydrobiological Variability in the ICES Area 1990-1999. ICES Marine Science Symposia series, Vol 219, 393-395.

Wehde, H., Petersen, W., Petschatnikov, M., Schroeder, F., and Colijn, F., (2003): Development and distribution of plankton observed with a FerryBox system for monitoring coastal waters. ICES CM 2003/L11.

Schiller, H., Krasemann, H. L., and Wehde, H., (2003): Application of Autoassoziative NN's for Monitoring and for Model Inversion. 2nd IEEE Workshop on Advanced Environmental Sensing and Monitoring Technology. 29-33.

Petersen, W., Petschatnikov, M., Schroeder, F., and Wehde, H., (2004): Application of a ferrybox: Automatic measurements in the north sea. in Proc.MTS/IEEE Techno-Oceans'04, Kobe, Japan.

Romeiser, R., Ufermann, S., Androssov, A., Wehde, H., Mitnik, L., Kern, S., and Rubino, A., (2004): On the remote sensing of oceanic and atmospheric convection in the Greenland Sea by synthetic aperture radar. J Geophys. Res. Vol. 109, C03004, doi:10.1029/2003JC001975.

Petersen, W., Petschatnikov, M., Wehde, H., and Schroeder, F., (2005): FerryBox- Real-Time Monitoring of Water Quality by Ferryboats, Environmental Research, Engineering and Management, 3, 12–17.

Wehde, H., Sørensen, K., Schroeder, F., Petersen, W., and Loeng, H., (2006) Operational Oceanography of the North Sea/Skagerrak and Norwegian Sea by Ferrybox systems: From one line to a coordinated network of Ferryboxes. ICES CM/E14

Mills, D.K., Rees, J.M., Malcolm, S., Fox, C.J., Edwards, M., Laane, R., Bot, P., Ridderinkhof, H., Colijn, F., Petersen, W., Schroeder, F., Wehde, H., Johannessen, J., Svendsen, E., and Hackett, B., (2006): Towards a European Marine Ecosystem Observatory (EMECO). IMAREST publications. ISBN 1902536541.

Colijn, F., Petersen, W., Wehde, H., and Schroeder, F., (2006): Automated Measuring System for Monitoring of Coastal Waters: Synthesis of results of the EU funded FerryBox Project. ICES CM 2006/E: 04

Mills, D.K., Walker, P.A., Rees, J.M., Malcolm, S., Fox, C.J., Edwards, M., Laane, R., Bot, P., Ridderinkhof, H., Colijn, F., Petersen, W., Schroeder, F., Wehde, H., Johannessen, J., Svendsen, E., and Hackett, B., (2006): Towards a European Marine Ecosystem Observatory (EMECO), ICES CM 2006/E:10

Uriansrud, F., Dahl, I., Skei, J., Wehde, H., and Mortensen, T., (2006): Miljøovervåking, strømundersøkelser, sedimentkartlegging og vurdering av sedimenttildekking. Fase 2 kartlegging ved U-864 høsten 2006. NIVA rapport 5279/2006. ISBN 82-577-5007-7.

Larsen L.-H., Pedersen, G., and Wehde, H., (2006): Miljørisikoanalyse for skip-til-skip (STS) omlasting av kondensat i Repparfjorden, Kvalsund kommune, Finnmark APN-3780.01, 48 pp

Hydes, D. J., Barger, C.P., Kelly-Gerrein, B.A., Wehde, H., Peterersen, W., Kaitala, S., Flemming, V., Sorensen, K., Magnusson, J., Lips, I., and Lips, U., (2007): Comparison of eutrophication processes and effects in different European marine areas based on the results of the EU FP-5 FerryBox Project. In: European Operational Oceanography: Present and Future, eds. H. Dahlin, N. C. Flemming and S. Petersson. Proceedings of the 4th EuroGOOS Conference, Brest, France, 6-9 June 2005, 101-107.

Wehde, H., Schroeder, F., Colijn, F., Callies, U., Reinke, S., Petersen, W., Schrum, C., Plüß, A., and Mills, D., (2007): FerryBox observations in the Southern North Sea- Application of numerical models for improving the significance of the FerryBox data-. In: European Operational Oceanography: Present and Future, eds. H. Dahlin, N. C. Flemming and S. Petersson. Proceedings of the 4th EuroGOOS Conference, Brest, France, 6-9 June 2005, 169-173.

Wehde H., Høgåsen, T., Larssen, T., and Wright, R.F., (2007): EIF-Air Environmental Impact Factor for emissions to air: impacts of nitrogen deposition to the sea. NIVA rapport 5378/2007. ISBN 978-82-577-5113-5

Petersen, W., Wehde, H. Krasemann, H., Colijn, F., and Schroeder, F., (2008): FerryBox and MERIS - Assessment of Coastal and Shelf Sea Ecosystems by Combining In-situ and Remote Sensed Data. Estuarine Coastal and Shelf Science, Vol 77, Issue 2, 296-307.

Skaare, B.B., Wehde, H., and Sundfjord, A., (2008): Kirkebukten –Konsentrasjoner av metaller og organiske miljøgifter i sedimentene, avgrensning av tiltaksområde og vurdering av risiko for rekontaminering. NIVA rapport 5530/2008. ISBN 978-82-577-5265-1

Wehde, H., Leloup M., and Durand, D., (2008): Forundersøkelser i forbindelse med tiltak i Puddefjorden. Fase 2: Mobilitet av miljøgifter i Puddefjorden. NIVA rapport 5655/2008

Folkestad, A., Nygaard, K., Molvær, J., Oug, E., Kaste, Ø., Kroglund, T., Wehde, H., Skaare, B.B., Jantsch, T.G., Selvik, J.R., Jørgensen, N.M. og Larsen, L.H. (2008). A pilot study of knowledge gaps and availability of data for the North Sea – focus on discharges. Kunnskapsstatus og kunnskapsbehov – hovedfokus på tilførsler . SFT-report TA-2399-2008. ISBN 978-82-577-5315-3

Molvær, J., Barret, K., Barkved, L., Iosjpe, M., Jantsch, T.G., Kaste, Ø., Saloranta, T., Selvik, J.R., Skaare, B. B. og Wehde, H., 2008. Tilførsler av olje og miljøfarlige kjemikalier til norske havområder, fase II; Discharges of oil and environmentally dangerous chemicals to Norwegian marine areas, phase II. Statens forurensingstilsyn TA-2364/2008, ISBN 978-82-577-5359-7

Wehde, H., Braathen, O.-A., Heldal, H. E., Iosjpe, M., Klungsøyr, J., Måge, A., Rudjord, A. L., Aas, W., Green, N., Kaste, Ø., and Molvær, J., (2009): Tilførselsprogrammet fase III: Sammenstilling av grunnlagsdata for overvåking. The Discharge program phase III: Summary of basic data for monitoring. Statens forurensingstilsyn TA-2509/2009. ISBN 978-82-577-5532-4

Sørensen, K., Durand, D., Folkestad, A., Magnusson, J., and Wehde, H., (2010): Operational high-frequency observations from Ferrybox. In: Coastal to Global operational Oceanography: Achievements and challenges. Proceedings of the fifth International Conference on EuroGOOS. 130-136

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Hydes, D.J., Kelly-Gerreyn, B., Colijn, F., Petersen, W., Schroeder, F., Mills, D., Durand, D., Wehde, H., Sørensen, K. and Morrison, G., (2010). "The Way Forward in Developing and Integrating Ferrybox Technologies" in Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2), Venice, Italy, 21-25 September 2009, Hall, J., Harrison, D.E. & Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.46

Folkestad, A., Sørensen, K., Wehde, H., Kaitala, S., and Durand, D., (2010): Real time Quality Control of biogeochemical measurements My Ocean document. Adoption as EuroGOOS recommendation paper under assessment

Hammarklint, T., Kassis, D. Wehde, H., and Rickards, L., (2010): Real Time Quality Control of Current measurements. My Ocean document. Adoption as EuroGOOS recommendation paper under assessment

Von Schuckmann, K., Garau, B., Wehde, H., Gies, T., Durand, D., and Reseghetti, F., (2010), Real Time Quality Control of temperature and salinity measurements, MyOcean document. Adopted as EuroGOOS recommendation paper

Hackett, B, Bertino, L., Breivik, L.-A., Durand, D., and Wehde, H., (2012): Monitoring and Forecasting the Arctic Ocean: Norway and MyOcean. Submitted

Barthel, K., Daewel, U., Pushpadas, D., Schrum, C., Svendsen, S.W., Årthun, M., and Wehde, H., (2012): Resolving frontal structures: On the computational costs and pay-off using a less diffusive but computational more expensive advection scheme. *Ocean Dynamics* 62, 1457-1470. DOI 10.1007/s10236-012-0578-9

V. Lien, S. Hjøllo, M. Skogen, E. Svendsen, H. Wehde, L. Bertino, F. Counillon, M. Chevallier, and G. Garric, 2016, An assessment of the added value from data assimilation on modelled Nordic Seas hydrography and ocean transports, *Ocean Modelling*, 99, 43–59.

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