

## CURRENT RESUME

**Dr. Svetlana N. Losa****Vital Statistics:**

Nationality: *Russian Federation*  
 Date of Birth: *30 December 1970*

Present Position: *Research Scientist*  
 Marital status: *married, 4 children*

**Education:**

Ph.D. in Physics and Mathematics – Russian State Hydrometeorological University, Department of Oceanography, 1998.

M.Sc. (with Honours) in Oceanography – Russian State Hydrometeorological Institute (Department of Oceanography), 1993.

**General Research Interest:**

- numerical modelling of physical/biogeochemical processes in the ocean, (physical-biological interaction, biogeochemical cycling);
- data assimilation (state and parameter estimation) for highly nonlinear systems;
- model assessment, uncertainty analysis.

**Professional Employment:**

Apr 2004 - present	Alfred Wegener Institute for Polar and Marine Research (REKLIM, PhySyn, (AC) <sup>3</sup> ESA SynSenPFT DeMarine Environment EU MERSEA projects)	Research Scientist
Oct 2001 - Mar 2004	Dalhousie University, Department Oceanography, Halifax, Canada	Research Associate
Dec 1999 - Aug 2001	Alfred Wegener Institute for Polar and Marine Research, (EU DIADEM project)	Research Scientist
Dec 1996 - Dec 1999	St.Petersburg Branch, P.P.Shirshov institute of Oceanology, Russian Academy of Sciences	Research Scientist
Dec 1993 - Dec 1996	Russian State Hydrometeorological University, St.Petersburg, Russia	Ph.D. student
Apr 1994 - Dec 1996	St.Petersburg Branch, P.P.Shirshov institute of Oceanology, Russian Academy of Sciences	Research Assistant
Jul 1993 - Apr 1994	Arctic and Antarctic Scientific Research Institute, St.Petersburg, RussiaPhy	Engineer

**IT Experience:**

- 1988 - 1993: Pascal, Fortran; visualization with GRAFER, SURFER;  
 1993 - present: inverse ocean modelling under Unix, Linux, Windows; scientific FORTRAN and C programming;

1998 - present: statistical computing and visualization under MatLab;  
2002 - present: SeaDAS, ocean colour data analysis;  
2001 - present: ocean gcm POP and MITgcm; BSHcmod/HBM.

**Field experience:**

Jul - Aug 1990: Zhigulevskoe Sea (Russia); hydrography, hydrochemistry;  
Oct 1990: Baltic Sea, Ship “Prof. S. Dorofeev”, hydrography,  
hydrochemie, meteorology;  
Jun - Jul 1991: Lake Nero, Lake Plescheevo (Russia), hydrochemie.

**Other**

Aug - Oct 1991: scientific sailing, Baltic Sea, Catamaran “Orient”.  
1989 - 1991: scientific scuba diving.

**Research/academic teaching:** Teaching assistance (“Oceanography” course) and student scientific seminars supervision at the Russian State Hydrometeorological University (Department of Oceanography), 1996.

**Participation in selected research projects and grants:**

- 1) AWI Strategiefonds IPSO, 2015–present;
- 2) ESA SynSynPFT, 2015–2016;
- 3) DeMarine Environment, 2012–2015;
- 4) Research Grant of German Federal Maritime and Hydrography Agency (BSH) Extension of data assimilation system for the North and Baltic Seas, 2011-2013;
- 5) DeMarine Environment, 2008–2010;
- 6) GREEN MERCATOR, French national project (as an expert), 2007–2010.

**Reviewer:**

JGR, Progress in Oceanography, QJRMS, Ocean Modelling, Journal of Marine System, Nonlinear Processes in Geosciences, Ocean Dynamics.