

Curriculum Vitae
Svetlana Milutinović

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FORMAL EDUCATION AND QUALIFICATIONS

- 06/2011:** Ph.D.; Major field: Oceanography. Geophysical Institute, University of Bergen, Norway. Thesis available online at <http://hdl.handle.net/1956/4819>.
05/1999: M.Sc.; Concentration: Biology; Major field: Ecology; Grade point average: 4.51/5.00. Faculty of Science and Mathematics, University of Zagreb, Croatia.

PROFESSIONAL EXPERIENCE

- 01/2012 – present:** Postdoctoral researcher. Department of Earth and Environmental Science, University of Pennsylvania, Philadelphia, PA, USA.
- Studying the dynamics of ocean phytoplankton size composition using satellite observations and an ecological model.
- 06/2011 – 12/2011:** Postdoctoral research assistant. Nansen Environmental and Remote Sensing Center, Bergen, Norway.
- Compared the estimates of marine algae productivity from an ecosystem model with analogous estimates derived from satellite data and with *in situ* measurements.
- 01/2005 – 06/2011:** Ph.D. candidate. Nansen Environmental and Remote Sensing Center, Bergen, Norway. (Affiliated with the Geophysical Institute and Bjerknes Centre for Climate Research, Bergen, Norway.)
- Evaluated uncertainties in the remotely sensed values of photosynthetic productivity in the world ocean.
- 01/2003 – 12/2004:** Scientific assistant. Nansen Environmental and Remote Sensing Center, Bergen, Norway.
- Investigated capacities for environmental monitoring, forecasting and mitigation of natural and man-made hazards. Extensively participated in writing reports for projects funded by the EU and Norway.
- 02/2001:** Substitute teacher in biology and natural science. *Voltino* primary school, Zagreb, Croatia.

REFEREED PUBLICATIONS

- 2011:** Milutinović, S. and L. Bertino: Assessment and propagation of uncertainties in input terms through an ocean-color-based model of primary productivity, *Remote Sensing of Environment*, 115(8), 1906-1917, doi:10.1016/j.rse.2011.03.013.
2009: Milutinović, S., M. J. Behrenfeld, J. A. Johannessen, and T. Johannessen: Sensitivity of remote sensing-derived phytoplankton productivity to mixed layer

depth: Lessons from the carbon-based productivity model, *Global Biogeochemical Cycles*, 23, GB4005, doi:10.1029/2008GB003431.

NON-REFEREED PUBLICATIONS

- 2011:** Milutinović, S.: Uncertainty in a Model for Estimating Euphotic Depth from Satellite Observations of Chlorophyll. *NERSC Special Report, No. 88*, Nansen Environmental and Remote Sensing Center, Bergen, Norway.
- 2005:** Pettersson, L. H., S. Milutinović and A. G. Strøm-Erichsen: The Role of Local Authorities in Responding to Major Oil Spills. Technical report for the Committee on Sustainable Development of the Chamber of Local Authorities under the Council of Europe, Strasbourg, France. *NERSC special report no. 77*, Nansen Environmental and Remote Sensing Center, Bergen, Norway.
- 2004:** Johannessen, J. A., L. H. Pettersson and S. Milutinović: Policy foundations review (C1). Report for the project “Real Time Ocean Services for Environment and Security” (GSE ROSES). *ESA ESRIN Contract no. 17066/03/I- IW*. Nansen Environmental and Remote Sensing Center, Bergen, Norway.
- 2004:** Johannessen, J. A., L. H. Pettersson and S. Milutinović: Method compendium (S2). Report for the project “Real Time Ocean Services for Environment and Security” (GSE ROSES). *ESA ESRIN Contract no. 17066/03/I-IW*. Nansen Environmental and Remote Sensing Center, Bergen, Norway.
- 2004:** Johannessen J. A., Pettersson L. H. and S. Milutinović: Science review (U3). Report for the project “Real Time Ocean Services for Environment and Security” (GSE ROSES). *ESA ESRIN Contract no. 17066/03/I-IW*. Nansen Environmental and Remote Sensing Center, Bergen, Norway.

POSTERS AND SELECTED PRESENTATIONS

- 22/07/2013:** The 2013 Ocean Carbon and Biogeochemistry (OCB) Summer Workshop, Woods Hole Oceanographic Institution, Woods Hole, MA, USA. Poster title: “Partitioning Phytoplankton Carbon Biomass into Three Size Groups Using Satellite Ocean Colour Observations”.
- 14/05/2013:** The 45th International Liège Colloquium, Liège, Belgium. Poster title: “Partitioning Phytoplankton Carbon Biomass into Three Size Groups Using Satellite Ocean Colour Observations”.
- 16/07/2012:** The 2012 Ocean Carbon and Biogeochemistry (OCB) Summer Workshop, Woods Hole Oceanographic Institution, Woods Hole, MA, USA. Poster title: “Assessment and propagation of uncertainties in input terms through an ocean-colour-based model of primary productivity”.
- 12/03/2012:** Colloquium at the Department of Earth and Environmental Science, University of Pennsylvania, Philadelphia, PA, USA. Presentation title: “Uncertainties in estimating ocean phytoplankton productivity from space”.
- 23/02/2012:** 2012 Ocean Sciences Meeting, Salt Lake City, UT, USA. Poster title: “Assessment and Propagation of Uncertainties in Input Terms through an Ocean-colour-based Model of Primary Productivity”.
- 10/06/2011:** Presentation and defence of Ph.D. thesis at Nansen Environmental and Remote Sensing Center, Bergen, Norway: “The Influence of Input Uncertainties on Remotely Sensed Estimates of Ocean Primary Productivity”.

- 08/10/2010:** Trial lecture for Ph.D. at the University of Bergen, Norway: “The carbon cycle’s role in the high latitude and Arctic regions (An Earth system perspective)”.
- 29/06/2010:** European Space Agency Living Planet Symposium, Bergen, Norway. Poster title: “Sensitivity of Ocean-Colour-Based Phytoplankton Productivity Estimates to Mixed Layer Depth”.
- 23/06/2010 – 26/06/2010:** COCOS Workshop on Combining Water Column Data with Sediment Trap and Satellite Observations for Improved Marine Carbon Export Estimates, Bergen, Norway. Poster title: “Assessment and propagation of uncertainties in input terms through the Vertically Generalized Productivity Model”.
- 08/11/2007:** Scientific Council Meeting at the 21st anniversary of Nansen Environmental and Remote Sensing Center, Bergen, Norway. Presentation title: “Influence of mixed layer depth on estimates of phytoplankton productivity”.
- 19/03/2007 – 21/03/2007:** North Atlantic Subpolar Gyre Workshop, Kiel, Germany. Poster title: “The sensitivity of primary productivity to mixed layer depth in the North Atlantic subpolar gyre”.
- 30/11/2005:** University of Bergen, Norway – Geophysical Institute. Presentation title: “Satellite-derived estimates of marine primary production - introduction to a PhD project”.
- 08/2005:** The 2nd International SOLAS Summer School, Cargèse, Corsica, France. Poster title: “Satellite-derived estimates of net primary production in global surface ocean - introduction to a PhD study”; Presentation title: “Satellite-derived estimates of net primary production in global surface ocean”.

AWARDS

Project Funding

- Grant term: Sep. 2013 – Aug. 2014
Project title: “Ocean algae: evolution under future climate change” (PI Irina Marinov)
Agency: University Research Foundation at the University of Pennsylvania
Amount: 50,000.00 US\$
- Grant term: Feb. 2013 – Jan. 2016
Project Title: “Seasonal, interannual and interdecadal variability in global phytoplankton community size structure derived from ocean color remote sensing and IPCC-class ecosystem models” (PI Irina Marinov, Co-PI Tihomir S. Kostadinov)
Agency: National Aeronautics and Space Administration
Amount: 658,228.00 US\$
- Grant term: Jan. 2007 – Dec. 2008
Project Title: “Satellite-derived estimates of marine primary productivity in the North Atlantic” (under the guidance of Johnny A. Johannessen, Truls Johannessen, Christoph Heinze and Michael J. Behrenfeld)
Agency: Research Council of Norway
Amount: 663,000.00 Norwegian kroner

Fellowships / Scholarships

06/2007 – 09/2007: Project fellowship by the Meltzer Foundation (L. Meltzers Høyskolefond), Norway.

- Awarded for collaboration with the group of Michael J. Behrenfeld at Oregon State University, Corvallis, OR, USA.

06/2003 – 12/2004: Research fellowship by Nansen Environmental and Remote Sensing Center, Bergen, Norway.

- Granted for participation in environmental research projects funded by the EU.

01/2003 – 05/2003: Research fellowship by the Research Council of Norway.

- Given for contribution to a research of Norwegian coastal environment.

11/2000 – 01/2001: Research scholarship by the Austrian Ministry of Education, Science and Culture.

- Provided for conducting an ethological research of TV advertisements at the Institute of Anthropology, University of Vienna, Austria.

UNDERGRADUATE ADVISING AND TEACHING

Summer 2013: Advised two undergraduate students during a summer project in phytoplankton ecological modelling.

Autumn 2012: Guided an undergraduate student through a semester project based on ocean colour remote sensing.

31/10/2012: Guest lecturer in the Global Climate Change course (ENVS 204-001) at the University of Pennsylvania). Lecture title: “Viewing our planet from space”.