

Curriculum Vitae

Nataliya A. Marchenko

- **D.B.: 30.06.1966**
- **Status:** Married, three children (26, 20 and 18 y. o.)
- **Nationality:** Russian
- **Home address:** Longyearbyen, Vei. 238-23B-H0101, Norway – 9170
- **Work Address:** Department of Arctic Technology
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Current occupation:

Since 2011 - Research Associate; UNIS, Arctic Technology department,

Current projects:

SAMCoT - Sustainable Arctic Marine and Coastal Technology - <http://www.ntnu.edu/samcot>

SMIDA -Safety of Maritime operation and sustainable industrial development in the Arctic -

http://www.unis.no/20_RESEARCH/2050_Arctic_Technology/Smida/homepage.htm

MARPART - Maritime preparedness in the high north – institutional partnership and coordination

Education:

1983-1988 BS/MS (Geography), Moscow State University, Faculty of Geography

1988-1991 Post-Graduate Course, Pacific Ocean Institute of Geography Far East Branch of Russian Academy of Science, (Vladivostok)

Qualifications:

1988 - BS/MS National Diploma in Geography.

1992 - PhD. (Environmental and Land use), Institute of geography of Russian Academy of Science and Higher Classification Board under the Council of Ministers of the USSR. Thesis:" "Estimation of forest fire danger on the base of analysis of natural territorial complexes state"

2006 – The qualification of teacher of highest category

Work Experience:

1988-1991 Junior Researcher, Laboratory of Explosion and Fire Securing,
Institute of Applied Mathematics, Far Eastern Branch of Academy Science of the USSR, Vladivostok.

1991- 2006 Scientific Researcher, Faculty of Geography, Moscow State University, Moscow

2007 -2010 Scientific Assistant; Arctic Technology department. UNIS, PetroArctic project.

2008 -2010 Project secretary; UNIS, Arctic Technology department, NFR Cooperation Program with Russia projects.

Field Work Experience:

1986, 1987 – expeditions for the study of mountain regions on Russia (Caucasus, Yakutia, etc)

1990, 1991 – expeditions in Sikhote-Alin for forest fire condition and effects investigation.

2000 - 2006 - expeditions in Central Russia for landscape-ecological studies.

2008 – per now – Sea Ice research on Svalbard

Teaching Experience:

1992-2006 – lecturer and practical educator on introduction in geography and landscape study, leader of landscape field practice for students on Faculty of Geography, Moscow State University (MSU)

2001-2006 – supervisor of pedagogical practice of students of Faculty of Global processes, (MSU)

2000-2006 – lecturer and practical educator on geography and geographical information systems on college of Faculty of Geography of (MSU)

2003-2006 – lecturer and practical educator, supervising of course and diploma student works, on Faculty of Geography and Faculty of Global processes, (MSU)

Honours:

1992 - 1997 - Stipend of the President of Russian Federation for young outstanding scientists

Grants:

“Estimation of forest fire danger in Far East of Russia” (1989-1991)

“Evolution of man-landscapes interaction in Moscow region in the second millennium a.d” (Russian foundation of fundamental researches, 1999-2001)

«Ecological problem of antropogenic landscape genesis in Central Russia (historical aspect)» (Universities of Russia foundation, 2000-2001)

«Landscape-geoecological investigation for optimization of historical-culture areas” (Integration of University and Academic Science, 2001)

«The main principles of formation and evolution of structure of cultural-historical landscapes of Central Russia» (Russian foundation of fundamental researches, 2005-2007)

Scientific Interests:

- Arctic environment
- Geographical information systems
- Numerical modelling
- Landscape study and landscape ecology

List of recent publication:

- Marchenko NA (2014) Northern Sea Route. Modern State and Challenges. Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering. OMAE2014. 06-10 June, 2014, San Francisco, US, ISBN 978-0-7918-4556-1
- Marchenko NA (2014) Floating Ice Induced Ship Casualties. Proceeding of 22nd IAHR International Symposium on Ice, Singapore, 11-15 August, 2014, ISBN: 978-981-09-0750-1
- Marchenko NA, Brazhnikov D, Marchenko AV, Finseth J, (2014) Monitoring of sea currents and waves in Spitsbergen fjords, Geophysical Research Abstracts, Vol. 16, EGU2014-12294, EGU General Assembly, Vienna, Austria, 27 April – 02 May, 2014, eISSN-1607-7962.
- Marchenko NA (2014) Geo-information system for Arctic technologies on Svalbard // Complex investigations of the Svalbard and offshore nature: proceeding of the International Scientific Conference. Murmansk, Russia, 6-8 November 2014, Issue 12. – Moscow: GEOS, ISBN 978-5-89118-668-2. p. 205-210.
- Abramova A.S., Marchenko N.A., Terskaja E.V. (2014) Studies on contamination of the snow cover around the towns of Longyearbyen and Barentsburg (Svalbard) in 2013 // Complex investigations of the Svalbard and offshore nature: proceeding of the International Scientific Conference. Murmansk, Russia, 6-8 November 2014, Issue 12. – Moscow: GEOS, ISBN 978-5-89118-668-2. p. 7-13
- Marchenko NA (2013) International collaboration for education of future Arctic experts. Proc. Of the Annual conference "society for research in Higher Education, Newport, England, 12-14 December, 2013.
- Marchenko NA et al (2013) Safety of Maritime Operation and Sustainable Industrial Development in the Arctic (SMIDA). In: Proceedings of the 11th International Conference and Exhibition for Oil and Gas Resources Development of the Russian Arctic and CIS Continental Shelf (RAO / CIS Offshore 2013) RAO/CIS Offshore, St.Petersburg, Russia, 9-12 September 2013. ISBN 978-5-93808-219-9. p.451-456
- Marchenko NA (2013) Navigation in the Russian Arctic. Sea Ice Caused Difficulties and Accidents Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering. OMAE2013. Nantes, France, June 19-24, 2013, ISBN: 978-0-7918-5540-9
- Marchenko NA (2013) Geographical Informational Systems for Sustainable Arctic Technology. Proceedings of the 22nd International Conference on Port and Ocean Engineering under Arctic Conditions. Espoo, Finland, June 9-13, 2013. ISBN 978-952-60-3635-9;
- Marchenko NA (2012) Russian Arctic Seas. Navigational conditions and accidents. Springer – XXII, 274 p. 113 illus. ISBN 978-3-642-22125-5
- Marchenko NA (2011) Dangerous ice conditions and accidents in Russian Arctic. In: Proceedings of the 21th international conference on port and ocean engineering under Arctic conditions, Montreal, Canada, 10–15 July 2011 ISSN 0376-6756
- Marchenko NA (2010) The data base ‘Shipwrecks and other accidents in the Russian Arctic Seas’. In: Proceedings of State Oceanographic Institute, Vol.212, Moscow, 212:272–300 ISBN 978-5-9900791-6-8

Marchenko NA (2009a) Experiences of Russian Arctic navigation. In: Proceedings of the 20th international conference on port and ocean engineering under Arctic conditions, Luleå, Sweden, 9–12 June 2009 ISSN 2077-7841

Marchenko NA (2009b) Ice conditions and human factors in marine accidents in the Arctic. Marine navigation and the safety of sea transport. In: Proceedings of the 8th international navigational symposium, Gdynya, Poland, 17–19 June 2009. CRC, Boca Raton, FL ISBN: 978-0-415-80479-0