

Curriculum vitae with track record (for researchers)

Role in the project Project manager (Co-PI) Project partner

Personal information

First name, Surname:	Eirik Malnes		
Date of birth:	08.02.1967	Sex:	M
Nationality:	Norwegian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	ORCID: 0000-0001-9824-9696		
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Education

Year	
1994	Dr.scient , <i>Physics dept. University of Tromsø, Norway</i>
1991	Cand.scient,, <i>Physics dept. University of Tromsø, Norway</i>

Positions - current and previous

(Academic sector/research institutes/industrial sector/public sector/other)

Year	Job title – Employer - Country
2019-	Senior scientist, NORCE, Norway
2014-2017	Senior scientist, Norut, Norway
2001-2019	Part time employed (20%) at GlobeSAR AS, Norway
1997-2001	Senior scientist, Forsvarets forskningsinstitutt, Norway
1997	Engagement as associate professor in physics at University of Tromsø (6 months)
1995-1996	NFR Postdoc at Univ. Tromsø, including a 1-year research visit to CEPHAG, Univ. Grenoble, France.
1991-1994	Ph.D. stipendiat for the Norwegian Research Council at the University of Tromsø and Cornell University (6 months)

Career breaks

Year	Reason
	N/A

Project management experience

(Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)

Year	Project owner - Project - Role - Funder
2003-2005	Project leader, SnowMan, NFR.
2003-2005	Coordinator, Envisnow, EU FP5-project
2005-2006	Coordinator, FloodMan, EU FP5-project
2011-2014	WP manager, CryoLand, EU FP7-project
2019-	Project leader of Cryosphere Virtual Laboratory, funded by the European Space Agency

Supervision of students

(Total number of students)

Master's students	Ph.D. students	University/institution - Country
5	0	University of Tromsø, Norway

Other relevant professional experiences

(E.g. institutional responsibilities, organisation of scientific meetings, membership in academic societies, review boards, advisory boards, committees, major research or innovation collaborations, other commissions of trust in public or private sector)

Year	Description - Role
2006-2013	Member of the Mission Assessment Group for the candidate Earth Explorer Mission CoreH2O (Cold Regions Hydrology High Resolution Observatory), European Space Agency (ESA).
2007-2010	Member of the board, Norut, Norway
1988-1990	Student member of the board for the University of Tromsø, Norway.

Track record

- The total number of publications during the career: 135 (google scholar), 122 (Research gate)

A list of up to ten publications:

- Riseth J.Å., H.Tømmervik, E.Helander-Renvall, N.Labba, C. Johansson, E. Malnes, J.W. Bjerke, C.Jonsson, V.Pohjola, L-E. Sarri, A. Schanche, T. V. Callaghan,, "Snow and Ice – Climate Change Effects on Reindeer Pasturing", Polar Record, 47, 202-217. Cambridge University Press 2011.
- Bjerke, J. Karlsen, S., Høgda, K., Malnes, E., Jepsen J., Lovibond S., Vikhamar-Schuler D., Tømmervik H. « Record-low primary productivity and high plant damage in the Nordic Arctic Region in 2012 caused by multiple weather events and pest outbreaks" , Environmental Research Letters, 9,2014, doi:10.1088/1748-9326/9/8/084006.

3. Malnes, E., Buanes, A., Nagler, T., Bippus, G., Gustafsson, D., Schiller, C., Metsämäki, S., Pulliainen, J., Luojus, K., Larsen, H.E. and Solberg, R., 2015. User requirements for the snow and land ice services–CryoLand. *The Cryosphere*, 9(3), pp.1191-1202.
4. Malnes, E., Eckerstorfer, M. and Vickers, H., 2015. First Sentinel-1 detections of avalanche debris. *The Cryosphere Discussions*, 9(2), pp.1943-1963.
5. Eckerstorfer, M., Bühler, Y., Frauenfelder, R. and Malnes, E., 2016. Remote sensing of snow avalanches: Recent advances, potential, and limitations. *Cold Regions Science and Technology*, 121, pp.126-140.
6. Vickers H., Eckerstorfer M., Malnes E. and Hindberg H., “A method for automated snow avalanche debris detection through use of Synthetic Aperture Radar (SAR) imaging: Automated avalanche detection”, *Earth and Space Science*, 3, doi:10.1002/2016EA000168.
7. Malnes, E., Karlsen, S., Johansen, B., Bjerke, J., and Tømmervik, H. “Snow season variability in a boreal-Arctic transition area monitored by MODIS data” , *Environ. Res. Lett.* 11 (2016) 125005, <http://dx.doi.org/10.1088/1748-9326/11/12/125005>.
8. Eckerstorfer, M., Malnes, E. and Müller, K., 2017. A complete snow avalanche activity record from a Norwegian forecasting region using Sentinel-1 satellite-radar data. *Cold regions science and technology*, 144, pp.39-51.
9. Vickers, H.; Karlsen, S.R.; Malnes, E. A 20-Year MODIS-Based Snow Cover Dataset for Svalbard and Its Link to Phenological Timing and Sea Ice Variability. *Remote Sens.* 2020, 12, 1123. DOI: 10.3390/rs12071123
10. Malnes E., Vickers H., Karlsen SR., Saloranta T., Killie M.A., Van Pelt W., Pohjola V., Zhang J., Stendardi L., Notarnicola C. 2021, Satellite and modelling based snow season time series for Svalbard: Inter-comparisons and assessment of accuracy. <https://doi.org/10.5281/zenodo.4294072>