

Biographical Sketch - Larry Mahrt

A. Vital Statistics:

Present Position: Senior Research Scientist
NorthWest Research Associates

B. Education

B.S. (1967) - Meteorology, University of Wisconsin
Ph.D. (1972) - Meteorology (Minor: Mathematics), University of Wisconsin

C. Professional Employment

1971-1972: Postdoctoral fellow, Advanced Study Program, National Center for Atmospheric Research, Boulder, Colorado.
1972 - 2004: Professor, College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, Oregon.
2004 - present: Professor Emeritus, College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, Oregon.
2004 - present: Senior Research Scientist, NorthWest Research Associates, Redmond, WA.

D. Other Employment

2013: Research Scientist, University of Stockholm
2010: Research Scientist, University of Stockholm
2009: Research Scientist, Universitat de les Illes Balears, Spain
2002: Research Scientist, University of Uppsala, Sweden
1996: Research Scientist, Land Resources Research Centre, Agriculture Canada
1995: Research Scientist, Risø National Laboratory, Denmark

1995: Research Scientist, European Centre, Reading

1992 - : Affiliate Scientist, MMM, National Center for Atmospheric Research, USA
1988: Research Scientist. Geofysisk Institutt, Universitet Bergen and the Bergen Scientific Centre.
1980: Research Scientist, EERM, Paris
1979-1980: Research Scientist, Risø National Laboratory, Denmark
1977: Research Scientist, Risø National Laboratory, Denmark
1974-1975: Research Scientist, National Center for Atmospheric Research, Boulder, Colorado.

E. Publications in Past Five Years

- Mahrt L. (2017). Stably stratified flow in a shallow valley. *Boundary-Layer Meteorol.*, 162, 1–20.
- Mahrt, L. (2017). Lee mixing and nocturnal structure over gentle terrain, *J. Atmos. Soc.*, 74, 1989–1999.
- Mahrt, L. (2017). Heat flux in the strong-wind nocturnal boundary layer. *Boundary-Layer Meteorol.*, 163, 161–177.
- Mahrt, L. (2017). Directional shear in the nocturnal surface layer. *Boundary-Layer Meteorol.*, 165, 1–7.
- Mahrt, L. (2017). The near-surface evening transition. *Quart. J. Roy. Met. Soc.*, 143, 2940–2948.

- Mahrt, L. and S. Miller, T. Hristov, J. Edson (2018). On estimating the surface wind stress over the sea. *J. Physical Oceanography*, 48, 1533–1541.
- Mahrt, L. and Christoph K. Thomas, Andrey A. Grachev, P. Ola G. Persson (2018). Near-surface vertical flux divergence in the stable boundary layer. *Boundary-Layer Meteorol.*, 169, 373–393.
- Mahrt, L. (2018). Microfronts in the nocturnal boundary layer. *Quart. J. Roy. Met. Soc.*, 145, 546–562.
- Mahrt, L. and L. Pfister, C. K. Thomas (2019). Small-scale variability in the nocturnal boundary layer. *Boundary-Layer Meteorol.*, 174, 81–98.
- Mahrt L. and Erik Nilsson, Anna Rutgersson, Heidi Pettersson (2020). Sea-surface stress driven by small-scale non-stationary winds. *Boundary-Layer Meteorol.*, 176, 3–33,
- L. Mahrt (2020). Time-space variations of temperature in the nocturnal boundary layer. *Quart. J. Roy. Met. Soc.*, doi = 10.1002/qj.3815
- L. Mahrt and Elie Bou-Zeid (2020). Non-stationary boundary layers. *Boundary-Layer Meteorol.*, 177, 189–204.
- L. Mahrt, D. Belušić, and O. Acevedo (2021). Small-scale spatial variation of the nocturnal wind field. *Boundary-Layer Meteorol.*, 180, 225–245.
- L. Mahrt, H. J. S Fernando, and O. Acevedo (2021). The influence of the wind field and stratification on the nocturnal surface air temperature over modest topography. *J. Appl. Meteorol. and Clim*, 60, 1347–1360.
- L. Mahrt, E. Nilsson, A. Rutgersson and H. Pettersson (2022). Vertical divergence of the atmospheric momentum flux near the sea surface at a coastal site. *J. Physical Oceanography*, 51, 3529–3537.
- L. Mahrt and O. Acevedo (2022). Types of vertical structure of the nocturnal boundary layer. *Boundary-Layer Meteorol.*
- L. Mahrt (2022). Horizontal Variation of Nocturnal Temperature and Turbulence over Microtopography. *Boundary-Layer Meteorol.*, 184, 401–422,
- L. Mahrt, E. Nilsson and A. Rutgersson (2022). *J. Physical Oceanography*