

CURRICULUM VITAE – Manfred Dorninger

Dr. Manfred Dorninger
born on 10 June 1965
Austrian citizen

Current Position

Assistant Professor at the Department of Meteorology and Geophysics,
University of Vienna, Austria
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Academic Degrees

1992 Diploma in Meteorology, University of Vienna, Austria
1997 Doctoral degree in natural sciences, University of Vienna, Austria

Scientific Career

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| since 2014 | Member of the project committee of MesoVICT (Mesoscale verification inter-comparison in complex terrain) - an official project of JWGFVR |
| since 2014 | Member of the joint working group for forecast verification research (JWGFVR) within WMO |
| 2011-2013 | Associate Editor of Meteorologische Zeitschrift for the second special issue on COPS |
| 2009-2011 | Associate Editor of Quarterly Journal of Royal Meteorological Society for the special issue "Advances in the understanding of convective processes and precipitation over low-mountain regions through the Convective and Orographically-induced Precipitation Study (COPS)" |
| 2007 | Participation in the COPS field campaign, responsible for all scientific surface networks |
| 2005-2010 | Member of UNESCO International Hydrological Programme Working Group on "Climatic variability and land cover change impacts on flooding and low flows - at what scales?" |
| 2005-2009 | Chairman of working group on verification within MAP D-PHASE |
| 2005-2008 | Guest editor of the international journal Meteorology and Atmospheric Physics Special Issue on RISK-AWARE |
| 2005-2007 | supersite coordinator of supersite "Stuttgart" within COPS |
| 2005-2009 | Steering Committee member of D-PHASE (Demonstration of Probabilistic Hydrological and Atmospheric Simulation of Flooding Events in the Alpine region) a Forecast and Development Project (FDP) of the WWRP |
| Since 2004 | Assistant Professor at Department of Meteorology and Geophysics, University of Vienna |
| 2001 | Research affiliate at Yale University, Connecticut, USA |
| 1999 | Participation in the MAP field campaign |
| 1996-1999 | member of the Coordination and Implementation Group (CIG) in MAP (Mesoscale Alpine Programme) |
| 1993-2004 | University assistant at Department of Meteorology and Geophysics, University of Vienna |

1992-1997	PhD study at the University of Vienna
1990-1992	Research assistant at Department of Meteorology and Geophysics, University of Vienna
1984-1992	Diploma in Meteorology at the University of Vienna

Selected Publications

1. Bauer, H.-S., T. Weusthoff, **M. Dorninger**, V. Wulfmeyer, T. Schwitalla, T. Gorgas, M. Arpagaus, and K. Warrach-Sagi, 2011: Predictive Skill of a Subset of the D-PHASE Multi-Model Ensemble in the COPS Region. COPS Special Issue of the Q. J. R. Meteorol. Soc. 137, 287-305, DOI: 10.1002/qj.715.
2. Bielli S, Grzeschik M, Richard E, Flamant C, Champollion C, Kiemle C, **Dorninger M**, Brousseau P. 2012. Assimilation of water-vapour airborne lidar observations: impact study on the COPS precipitation forecasts. *Q. J. R. Meteorol. Soc.*, 138, 1652-1667, doi:10.1002/qj.1864
3. Blöschl, G., S. Ardoin-Bardin, M. Bonell, **M. Dorninger**, D. Goodrich, D. Gutknecht, D. Matamoros, B. Merz, P. Shand, and J. Szolgay, 2007: At what scales do climate variability and land cover change impact on flooding and low flows? *Hydrol. Process.*, 21, 1241-1247.
4. Corsmeier, U., N. Kalthoff, Ch. Barthlott, A. Behrendt, P. Di Girolamo, **M. Dorninger**, F. Aoshima, J. Handwerker, Ch. Kottmeier, H. Mahlke, St. Mobbs, G. Vaughan, J. Wickert, and V. Wulfmeyer, 2011: Driving processes for deep convection over complex terrain: A multiscale analysis of observations from COPS-IOP 9c. *Q. J. R. Meteorol. Soc.* 137(S1): 137–155, doi:10.1002/qj.754.
5. **Dorninger, M**, T. Gorgas, 2013: Comparison of NWP-model chains by using novel verification methods. *Meteorol. Z.*, 22, 373-393, doi: 10.1127/0941-2948/2013/0488
6. **Dorninger, M.**, C. D. Whiteman, B. Bica, S. Eisenbach, B. Pospichal, and R. Steinacker, 2011: Meteorological Events Affecting Cold-Air Pools in a Small Basin. *Journal of Applied Meteorology and Climatology*, 50, 2223–2234.
7. **Dorninger, M.**, S. Schneider, and R. Steinacker, 2008: On the interpolation of precipitation data over complex terrain. *Meteorol. Atm. Phys* 101, 175-189, doi: 10.1007/s00703-008-0287-6
8. Gorgas T, **Dorninger M.**, 2012a: Concepts for a pattern-oriented analysis ensemble based on observational uncertainties. *Q. J. R. Meteorol. Soc.* 138, 769-784, doi:10.1002/qj.949
9. Gorgas T, **Dorninger M.**, 2012b: Quantifying verification uncertainty by reference data variation. *Meteorol. Z.*, 21, 259-277, DOI 10.1127/0941-2948/2012/0325
10. Rotach, M. W., Ambrosetti, P., Ament, F., Appenzeller, C., Arpagaus, M., Bauer, H.-S., Behrendt, A., Bouttier, F., Buzzi, A., Corazza, M., Davolio, S., Denhard, M., **Dorninger, M.**, Fontannaz, L., Frick, J., Fundel, F., Germann, U., Gorgas, T., Hegg, C., Hering, A., Keil, C., Liniger, M. A., Marsigli, C., McTaggart-Cowan, R., Montani, A., Mylne, K., Ranzi, R., Richard, E., Rossa, A., Santos-Muñoz, D., Schär, C., Seity, Y., Staudinger, M., Stoll, M., Volkert, H., Walser, A., Wang, Y., Werhahn, J., Wulfmeyer, V., Zappa, M., 2009. MAP D-PHASE: Real-time demonstration of weather forecast quality in the Alpine region. *Bull. Amer. Meteor. Soc.* 90, 1321–1336.
11. Steinacker, R., **M. Dorninger**, B. Pospichal, S. Eisenbach, A. M. Holzer, C. D. Whiteman, P. Weihs, E. Mursch-Radlgruber, and K. Baumann, 2007: A Sinkhole Field Experiment in the Eastern Alps. *Bull. Amer. Meteor. Soc.* 88, 701–716.
12. Wulfmeyer, V., A. Behrendt, C. Kottmeier, U. Corsmeier, C. Barthlott, G. C. Craig, M. Hagen, D. Althausen, F. Aoshima, M. Arpagaus, H.-S. Bauer, L. Bennett, A. Blyth, C. Brandau, C. Champollion, S. Crewell, G. Dick, P. Di Girolamo, **M. Dorninger**, Y. Dufournet, R. Eigenmann, R. Engelmann, C. Flamant, T. Foken, T. Gorgas, M. Grzeschik, J. Handwerker, C. Hauck, H. Höller, W. Junkermann, N. Kalthoff, C. Kiemle, S. Klink, M. Köönig, L. Krauss, C. N. Long, F. Madonna, S. Mobbs, B. Neining, S. Pal, G. Peters, G. Pigeon, E. Richard, M. W. Rotach, H. Russchenberg, T. Schwitalla, V. Smith, R. Steinacker, J. Trentmann, D. D. Turner, J. van Baelen, S. Vogt, H. Volkert, T. Weckwerth, H. Wernli, A.

Wieser, and M. Wirth, 2011a: The Convective and Orographically-induced Precipitation Study (COPS): the scientific strategy, the field phase, and research highlights. *Q. J. R. Meteorol. Soc.* 137, 3–30.

13. Zappa, M., M. W. Rotach, M. Arpagaus, **M. Dorninger**, C. Hegg, A. Montani, R. Ranzi, F. Ament, U. Germann, G. Grossi, S. Jaun, A. Rossa, S. Vogt, A. Walser, J. Wehrhan, and C. Wunram, 2008: MAP DPHASE: real-time demonstration of hydrological ensemble prediction systems. *Atmospheric Science Letters*, **9**, 80–87.