CV-Robert Bergström (Robert.Bergstrom@smhi.se) **(20151217 short version; full CV can be sent on request)**

Profession: Researcher

Year of Birth: 1968 **Nationality:** Swedish

Key qualifications: Robert is a chemist and physicist (Ph. D. in Science – specialization Chemistry, and Ph. Lic. in Quantum Chemistry) with 18 years of experience at the Swedish Meteorological and Hydrological Institute (SMHI), mainly within air pollution research, model development and air quality assessments (e.g., for the Swedish Environmental Protection Agency). His current research is mainly focused on modelling of particulate matter from various sources, including biomass combustion, anthropogenic and biogenic VOCs. He is also contributing to the development of the EMEP MSC-W model (one of the key tools within European air pollution policy assessments; used for calculations in support of the Convention of Long Range Transboundary Air Pollution, CLRTAP; see http://www.emep.int/) in collaboration with met.no and the University of Gothenburg.

University Education:

- Physics and Chemistry, Uppsala University (including courses at Vrije Universiteit Amsterdam and Stockholm University) 1988-1992.
- Licentiate Degree, Quantum Chemistry, Uppsala University, 2005.
- Ph. D., Natural Science, specialization in Chemistry, University of Gothenburg, 2015.

Scientific reviewer for:

- FWF - Fonds zur Förderung der wissenschaftlichen Forschung (Austrian Science Fund)
- Atmospheric Chemistry and Physics
- Atmospheric Environment
- Atmospheric Research
- Comptes Rendus de l'Académie des Sciences (Geoscience)
- Environmental Science and Technology
- International Journal of Quantum Chemistry
- Water Air and Soil Pollution

Publication statistics (Researcher-ID: D-6249-2014)**:**

- Total number of peer-reviewed international journal articles: 26
- Total number of citations (WoS): 1346
    - without self-citations: 1285
- h-index (WoS): 18

Publications in peer-reviewed scientific journals:

A regional air quality forecasting system over Europe: the MACC-II daily ensemble production; Marécal, V., Peuch, V.-H., Andersson, C., Andersson, S., Arteta, J., Beekmann, M., Benedictow, A., Bergström, R., Bessagnet, B., Cansado, A., Chéroux, F., Colette, A., Coman, A., Curier, R. L., Denier van der Gon, H. A. C., Drouin, A., Elbern, H., Emili, E., Engelen, R. J., Eskes, H. J., Foret, G., Friese, E., Gauss, M., Giannaros, C., Guth, J., Joly, M., Jaumouillé, E., Josse, B., Kadygrov, N., Kaiser, J. W., Krajsek, K., Kuenen, J., Kumar, U., Liora, N., Lopez, E., Malherbe, L., Martinez, I., Melas, D., Meleux, F., Menut, L., Moinat, P., Morales, T., Parmentier, J., Piacentini, A., Plu, M., Poupkou, A., Queguiner, S., Robertson, L., Rouïl, L., Schaap, M., Segers, A., Sofiev, M., Tarasson, L., Thomas, M., Timmermans, R., Valdebenito, Á., van Velthoven, P., van Versendaal, R., Vira, J., and Ung, A. (2015), Geosci. Model Dev., **8**, 2777-2813, doi:10.5194/gmd-8-2777-2015.

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Visschedijk, A. J. H., Wiedensohler, A., Yttri, K. E., and Bergström, R. (2013), Atmos. Chem. Phys., **13**, 8719-8738, doi:10.5194/acp-13-8719-2013.

Modelling of organic aerosols over Europe (2002–2007) using a volatility basis set (VBS) framework: application of different assumptions regarding the formation of secondary organic aerosol; Bergström, R., Denier van der Gon, H.A.C., Prévôt, A.S.H., Yttri, K.E., Simpson, D. (2012), Atmos. Chem. Phys., **12**, 8499-8527.

Lessons learnt from the first EMEP intensive measurement periods; Aas, W., Tsyro, S., Bieber, E., Bergström, R., Ceburnis, D., Ellermann, T., Fagerli, H., Frölich, M., Gehrig, R., Makkonen, U., Nemitz, E., Otjes, R., Perez, N., Perrino, C., Prévôt, A. S. H., Putaud, J.-P., Simpson, D., Spindler, G., Vana, M., and Yttri, K. E. (2012), Atmos. Chem. Phys., **12**, 8073-8094.

The EMEP MSC-W chemical transport model – technical description; D. Simpson, A. Benedictow, H. Berge, R. Bergström, L. D. Emberson, H. Fagerli, C. R. Flechard, G. D. Hayman, M. Gauss, J. E. Jonson, M. E. Jenkin, A. Nyíri, C. Richter, V. S. Semeena, S. Tsyro, J.-P. Tuovinen, Á. Valdebenito, and P. Wind (2012), Atmos. Chem. Phys., **12**, 7825-7865.

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Other publications:

Co-author of more than 40 other scientific publications (non-peer reviewed technical and scientific reports, book chapters, etc.). Most of the publications cover work within the field of air pollution modelling. A complete list can be sent on request.