

# Published material related to the MATCH modelling system

Updated: 2020-05-08 (Camilla Andersson)  
Updated: 2018-05-31 (Magnuz Engardt)

Total peer reviewed articles (1987-2019): 111  
Last 5 years (2014-2019): 38  
Total book chapters: 6  
Total technical reports: 99  
Degree projects: >11  
PhD Thesis: 4

## Peer reviewed articles:

### 2021

Ekland, J., Olsson, D., Forsberg, B., Andersson, C. and Orru, H. 2021. The effect of current and future maternal exposure to near-surface ozone on preterm birth in 30 European countries – an EU-wide health impact assessment. *Environmental Research Letters*, 16:5.

### 2020

Lars Gidhagen, Jonas Olsson, Jorge H. Amorim, Christian Asker, Danijel Belusic, Ana C. Carvalho, Magnuz Engardt, Yeshewatesfa Hundecha, Heiner Körnich, Petter Lind, David Lindstedt, Esbjörn Olsson, Jörgen Rosberg, David Segersson, Lena Strömbäck, 2020. Towards climate services for European cities: Lessons learnt from the Copernicus project Urban SIS, *Urban Climate* 31, 100549.

Gramsch, E., Muñoz, A., Langner, J., Morales, L., Soto, C., Pérez, P., Rubio, M.A., 2020. Black carbon transport between Santiago de Chile and glaciers in the Andes Mountains. *Atmospheric Environment* 232, 117546.  
<https://doi.org/10.1016/j.atmosenv.2020.117546>.

Langner, J., Gidhagen, L., Bergström, R., Gramsch, E., Oyola, P., Reyes, F., Segersson, D. and Aguilera, C. (2020). Model Simulated Source Contributions to PM2.5 in Santiago and in the Central Region of Chile. *Aerosol Air Qual. Res.* 20: 1111-1126.  
<https://doi.org/10.4209/aaqr.2019.08.0374>

### 2019

Ciarelli, G., Colette, A., Schucht, S., Beekman, M., Andersson, C., et al. Long-term health impact assessment of total PM2.5 in Europe during the 1990-2015 period. *Atmospheric Environment* 3, 100032. 2019  
<https://doi.org/10.1016/j.aeaoa.2019.100032>

Ciarelli, G. Theobald, M., Vivanco, M., Beekmann, M., Aas, W., Andersson C. Bergström, R., Manders-Groot, A., Couvidat, F., Mircea, M., Tsyro, S., Fagerli, H., Mar, K., Raffort, V., Roustan, Y., Pay, M.-T., Schaap, M., Kranenburg, R., Adani, M., Briganti, G., Cappelletti, A., D'Isidoro, M., Cuvelier, C., Cholakian, A., Bessagnet, B., Wind, P. and Colette, A. Trends of inorganic and organic aerosols and precursor

- gases in Europe: insights from the EURODELTA multi-model experiment over the 1990–2010 period. *Geosci. Model Dev.* 12, 4923-4954. 2019
- Orru, H., Åström, C., Andersson, C., et al. Ozone and heat-related mortality in Europe in 2050 significantly affected by changes in climate, population and greenhouse gas emission. *Environmental research letters*, 14 (7) 074013. 2019
- Theobald, M., Vivanco, M.G., Aas, W., Andersson, C., et al. 2019. An evaluation of European nitrogen and sulfur wet deposition and their trends estimated by six chemistry transport models for the period 1990-2010. *Atmospheric Chemistry and Physics* 19, 379-405, doi: 105194/acp-19-379-2019.

## 2018

- Kahnert, M. 2018. Information constraints in variational data assimilation. *Q. J. R. Meteorol. Soc.* 144, 2230-2244.
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- Vivanco, M.G., Theobald, M.R., Garcia-Gomez, H., Garrido, J.L., Prank, M., Aas, W., Adani, M., Alyuz, U., **Andersson, C.**, et al. 2018. Modelled deposition of nitrogen and sulfur in Europe estimated by 14 air quality model-systems: Evaluation, effects of changes in emissions and implications for habitat protection. *Atmos. Chem. Phys.*, 18, 10199-10218, <https://doi.org/10.5194/acp-18-10199-2018>.

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