

Published material related to the MATCH modelling system

Updated: 2024-11-26

Total peer reviewed articles (1987-2023): 130

Last 5 years (2018-2022): 14

Total book chapters: 7

Total technical reports: ~102

PhD Theses: 5

Peer reviewed articles:

2024

- Flood, V. A., Strong, K., Whaley, C. H., Walker, K. A., Blumenstock, T., Hannigan, J. W., Mellqvist, J., Notholt, J., Palm, M., Röhlings, A. N., Arnold, S., Beagley, S., Chien, R.-Y., Christensen, J., Deushi, M., Dobricic, S., Dong, X., Fu, J. S., Gauss, M., Gong, W., Langner, J., Law, K. S., Marelle, L., Onishi, T., Oshima, N., Plummer, D. A., Pozzoli, L., Raut, J.-C., Thomas, M. A., Tsyro, S., and Turnock, S.: Evaluating modelled tropospheric columns of CH₄, CO, and O₃ in the Arctic using ground-based Fourier transform infrared (FTIR) measurements, *Atmos. Chem. Phys.*, 24, 1079–1118, <https://doi.org/10.5194/acp-24-1079-2024>, 2024.
- Lagergren, F., Björk, R. G., Andersson, C., Belušić, D., Björkman, M. P., Kjellström, E., Lind, P., Lindstedt, D., Olenius, T., Pleijel, H., Rosqvist, G., and Miller, P. A.: Kilometre-scale simulations over Fennoscandia reveal a large loss of tundra due to climate warming, *Biogeosciences*, 21, 1093–1116, <https://doi.org/10.5194/bg-21-1093-2024>.

2023

- Eichler, A. Legrande, M., Jenk, T.M., Preunkert, S., Andersson, C., Eckhardt, S., Engardt, M., Plach, A. and Schwikowski, M. 2023. Consistent histories of anthropogenic Western European air pollution preserved in different Alpine ice cores. *The Cryosphere*, 17, 2119-2137. <https://doi.org/10.5194/tc-17-2119-2023>
- Karlsson, P.E., Pleijel, H., Fowler, P., Farahat, E.A., Linderholm, H.W., Engardt, M. and Andersson, C, 2023. Stem growth of Norway spruce in south Sweden in relation to soil moisture, nitrogen deposition, ozone exposure and meteorological variables. *Foreco* 549, 121455.
- Olivares, I., J. Langner, C. Soto, E.A. Monroy-Sahade, A. Espinosa-Calderón, P. Pérez, M.A. Rubio, A. Arellano, E. Gramsch. 2023. Vertical distribution of PM_{2.5} in Santiago de Chile studied with an unmanned aerial vehicle and dispersion modelling. *Atmos. Environ.* 310, 119947, <https://doi.org/10.1016/j.atmosenv.2023.119947>.
- Tornevi, A., Andersson, C., Carvalho, A., Langner, J. and Forsberg, B., 2023. Potential Health Impacts from a Wildfire Smoke Plume over Region Jämtland Härjedalen, Sweden. *Atmosphere* 2023, 14, 1491. <https://doi.org/10.3390/atmos14101491>

Whaley, C. H., Law, K. S., Hjorth, J. L., Skov, H., Arnold, S. R., Langner, J., Pernov, J. B., Bergeron, G., Bourgeois, I., Christensen, J. H., Chien, R.-Y., Deushi, M., Dong, X., Effertz, P., Faluvegi, G., Flanner, M., Fu, J. S., Gauss, M., Huey, G., Im, U., Kivi, R., Marelle, L., Onishi, T., Oshima, N., Petropavlovskikh, I., Peischl, J., Plummer, D. A., Pozzoli, L., Raut, J.-C., Ryerson, T., Skeie, R., Solberg, S., Thomas, M. A., Thompson, C., Tsigaridis, K., Tsyro, S., Turnock, S. T., von Salzen, K., and Tarasick, D. W.: Arctic tropospheric ozone: assessment of current knowledge and model performance, *Atmos. Chem. Phys.*, 23, 637–661, <https://doi.org/10.5194/acp-23-637-2023>, 2023.

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- Frohn, L. Geels, C., Andersen, C., Andersson C., Bennet, C., Christensen, J.H., Im, U., Karvosenoja, N., Kindler, P.A., Kukkonen, J., Lopez-Aparicio, S., Nielsen, O.-K., Palamarchuk, Y., Paunu, V.-V., Smith Plejdrup, M., Segersson, D., Sofiev, M., Brandt, J. 2022. Evaluation of multidecadal high-resolution atmospheric chemistry transport modelling for exposure assessments in the continental Nordic countries. <https://doi.org/10.1016/j.atmosenv.2022.119334>. *Atmos Environ* 290, 119334.
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- Mason, R.E, Craine, J.M., Lany, N.K., Jonard, M., Ollinger, S.V., Groffman, P.M., Fulweiler, R.W., Angerer, J., Read, Q.D., Reich, P.B., Templer, P.H. and Elmore, A.J., 2022. Evidence, causes, and consequences of declining nitrogen availability in terrestrial ecosystems. *Science* 376, 261.
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2021

- Geels, C., Winther, M., **Andersson, C.**, Jalkanen, J.P., Brandt, J., Frohn, L.M., Im, U., Leung, W., Christensen, J.H. 2021. Projections of shipping emissions and the related impact on air pollution and human health in the Nordic region. *Atmos. Chem. Phys.*, 21, 12495–12519, <https://doi.org/10.5194/acp-21-12495-2021>, 2021.
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2020

- Gidhagen, L., 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.
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- 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
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