

11 March 2015

List of publications

Inverse chronological order, abstracts of presentations at scientific conferences are not included.

Google Schollar: h-index = 24, i10 index: 57, total citations: 2128 (11.03.2015)

Mikhail Sofiev

Monographs

1. Sofiev M. (1994) Program complexes for the analysis and reduction of uncertainties during the development of scenarios for the emission reduction of the airborne pollutants. *PhD Thesis, Institute of Program Systems, Russian Academy, Moscow*, 158 pp. In Russian.

Books

2. Sofiev, M., Bergman, K.C. (2012) Allergenic pollen. A review of the production, release, distribution and health impacts. M.Sofiev, K.C.Bergman (eds.), XI + 247 pp., ISBN 978-94-007-4881-1, Springer.

Articles in international scientific journals with referee practise

3. Sofiev, M., Vira, J., Kouznetsov, R., Prank, M., Soares, J., Genikhovich, E. (2015) Construction of an Eulerian atmospheric dispersion model based on the advection algorithm of M.Galperin: dynamic cores v.4 and 5 of SILAM v.5.5, *Geosci.Model Developm. Discuss.*
4. Sofiev, M., Berger, U., Prank, M., Vira, J., Arteta, J., Belmonte, J., Bergmann, K.-C., Chéroux, F., Elbern, H., Frieze, E., Galan, C., Gehrig, R., Khvorostyanov, D., Kranenburg, R., Kumar, U., Marécal, V., Meleux, F., Menut, L., Pessi, A.-M., Robertson, L., Rittenberga, O., Rodinkova, V., Saarto, A., Segers, A., Severova, E., Sauliene, I., Siljamo, P., Steensen, B. M., Teinemaa, E., Thibaudon, M., Peuch, V.-H. (2015) MACC regional multi-model ensemble simulations of birch pollen dispersion in Europe. *Atmosph. Chem and Phys. Discuss.*
5. 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. G., Drouin, A., Elbern, H., Emili, E., Engelen, R. J., Eskes, H. J., Foret, G., Frieze, E., Gauss, M., Giannaros, C., 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., Rouil, L., Schaap, M., Segers, A., Sofiev, M., Thomas, M., Timmermans, R., Valdebenito, A., van Velthoven, P., van Versendaal, R., Vira, J., Ung, A. (2012) A regional air quality forecasting system over Europe: the MACC-II daily ensemble production. *Atmosph. Chem. Phys. Discussion*.
6. Soares, J., Sofiev, M., Hakkarainen, J. (2015) Uncertainties of wild-land fires emission in AQMEII phase 2 case study. *Atmosph. Environ.*, in press.
 7. Buters, J.T., Prank, M., Sofiev, M., Pusch, G., Albertini, R., Annesi-Maesano, I., Antunes, C., Behrendt, H., Berger, U., Brandao, R., Selenk, S., Galan, C., Grewling, L., Jackowiak, B., Kennedy, R., Rantio-Lehtimaaki, A., Reese, G., Sauliene, I., Smith, M., Thibaudon, M., Weber, B. Cecchi, L. (2015) Variation of the group 5 grass pollen allergen content of airborne pollen in relation to geographical location and time in season. *J of Allergology and Clinical Immunology*, in press.
 8. Vira, J., Sofiev, M. (2015) Assimilation of surface NO₂ and O₃ observations into the SILAM chemistry transport model, *Geosci. Model Dev.*, **8**, 191–203, www.geosci-model-dev.net/8/191/2015/, doi:10.5194/gmd-8-191-2015.
 9. Kukkonen, J., Nikmo, J., Sofiev, M., Riikonen, K., Petäjä, T., Virkkula, A., Levula, J., Schobesberger, S. and Webber, D.M., (2014). Applicability of an integrated plume rise model for the dispersion from wild-land fires. *Geosci. Model Dev.* **7**, pp. 2663-2681, doi:10.5194/gmd-7-2663-2014.
 10. Sofiev, M., Prank, M. (2014, in press) Impacts of Climate Change on Aeroallergen Dispersion, Transport and Deposition. *Chapter 4 in book : Impacts of Climate Change on Allergens and Allergic Diseases. Editor : P.Beggs*, Cambridge University Press.
 11. Ring, J; Akdis, C; Lauener, R; Schappi, G; Traidl-Hoffmann, C; Akdis, M; Ammann, W; Behrendt, H; Bieber, T; Biedermann, T; Bienenstock, J; Blaser, K; Braun-Fahrlander, C; Brockow, K; Buters, J; Cramer, R; Darsow, U; Denburg, J A; Eyerich, K; Frei, R; Galli, S J; Gutermuth, J; Holt, P; Koren, H; Leung, D; Muller, U; Muraro, A; Ollert, M; O'Mahony, L; Pawankar, R; Platts-Mills, T; Rhyner, C; Rosenwasser, L J; Schmid-Grendelmeier, P; Schmidt-Weber, C B; Schmutz, W; Simon, D; Simon, H U; Sofiev, M; van Hage, M; van Ree, R (2014) Global Allergy Forum and Second Davos Declaration 2013 Allergy: Barriers to cure - challenges and actions to be taken. *Allergy*, **69**, 8, 978-982, doi: 1-1111/all.12406.
 12. Simpson, D., Andersson, C., Christensen, J.H., Engardt, M., Geels, C., Nyiri, A., Posch, M., Soares, J., Sofiev, M., Wind, P., Langner, J. (2014), Impacts of climate and emission changes on nitrogen deposition in Europe: a multi-model study, *ACP*, **14**, 13, 6995 - 7017, <http://www.atmos-chem-phys.net/14/6995/2014/>.
 13. Sofiev, M. (2013) Wildland Fires: Monitoring, Plume Modelling, Impact on Atmospheric Composition and Climate. Chapter 21 in *Matyssek, R., Clarke, N., Cudlin, P., Mikkelsen, T.N., Tuovinen, J.-P. Wieser, G., Paoletti, E. Climate Change, Air Pollution and Global Challenges. Developments in Environmental Science, vol. 13*. ISBN: 978-0-08-098349-3 ISSN: 1474-8177, Elsevier & Book Aid Intern., pp.451-474.
 14. Hernandez-Ceballos, M. A. Soares, J., Garcia-Mozo, H., Sofiev, M., Bolivar, J. P., Galan, C. (2013) Analysis of atmospheric dispersion of olive pollen in southern Spain using SILAM and HYSPLIT models, *Aerobiologia*, DOI 10.1007/s10453-013-9324-0.

15. Prank, M., Chapman, D.S., Bullock, J.M., Belmonte Soler, J., Berger, U., Dahl, A., Jäger, S., Kovtunen, I., Magyar, D., Niemelä, S., Rantio-Lehtimäki, A., Rodinkova, V., Sauliene, I., Severova, E., Sikoparija, B., Sofiev, M. (2013) An operational model for forecasting ragweed pollen release and dispersion in Europe. *Agriculture and forest meteorology* doi: 10.1016/j.agrformet.2013.08.003, **182–183**, 43–53.
16. Virkkula, A., Levula, J., Pohja, T., Aalto, P. P., Keronen, P., Schobesberger, S., Clements, C. B., Pirjola, L., Kieloaho, A.-J., Kulmala, L., Aaltonen, H., Patokoski, J., Pumpanen, J., Rinne, J., Ruuskanen, T., Pihlatie, M., Manninen, H. E., Aaltonen, V., Junninen, H., Petäjä, T., Backman, J., Dal Maso, M., Nieminen, T., Olsson, T., Grönholm, T., Aalto, J., Virtanen, T. H., Kajos, M., Kerminen, V.-M., Schultz, D. M., Kukkonen, J., Sofiev, M., De Leeuw, G., Bäck, J., Hari, P., and Kulmala, M. (2014) Prescribed burning of logging slash in the boreal forest of Finland: emissions and effects on meteorological quantities and soil properties, *Atmos. Chem. Phys.*, **14**, 4473-4502, doi:10.5194/acp-14-4473-2014.
17. Sofiev, M., Vankevich, R., Ermakova, T., Hakkarainen, J. (2013) Global mapping of maximum emission heights and resulting vertical profiles of wildfire emissions. *Atmos. Chem. Phys.*, **13**, 7039-7052, doi. 10.5194/acp-13-7039-2013, <http://www.atmos-chem-phys.net/13/7039/2013/>.
18. Meinander, O., Kazadzis, S., Arola, A., Riihelä, A., Räisänen, P., Kivi, R., Kontu, A., Kouznetsov, R., Sofiev, M., Svensson, J., Suokanerva, H., Aaltonen, V., Manninen, T., Roujean, J.-L., and Hautecoeur, O. (2013) Spectral albedo of seasonal snow during intensive melt period at Sodankylä, beyond the Arctic Circle, *Atmos. Chem. Phys.*, **13**, 3793-3810, doi:10.5194/acp-13-3793-2013. <http://www.atmos-chem-phys.net/13/3793/2013/acp-13-3793-2013.html>
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21. Langner J, Engardt M, Baklanov A, Christensen J.H, Gauss M, Geels C, Hedegaard G.B, Nuterman R, Simpson D, Soares J, Sofiev M, Wind P, Zakey A. (2012) A multi-model study of impacts of climate change on surface ozone in Europe. *Atmos. Chem. Phys.*, **12**, 10423-10440, doi:10.5194/acp-12-10423-2012, 2012
22. Klein T., Kukkonen J, Dahl Å., Bossioli E., Baklanov A., Vik A. F., Agnew P., Karatzas K. D., Sofiev M. (2012) Interactions of Physical, Chemical, and Biological Weather Calling for an Integrated Approach to Assessment, Forecasting, and Communication of Air Quality. *Ambio, A journal of the Human Environment*, DOI 10.1007/s13280-012-0288-z, <http://www.springerlink.com/content/10g673264542519j/>.
23. Sofiev, M., Siljamo, P., Ranta, H., Linkosalo, T., Jaeger, S., Rasmussen, A., Rantio-Lehtimäki, A., Severova, E., Kukkonen, J. (2012) A numerical model of birch pollen emission and dispersion in the atmosphere. Description of the emission module.

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 26. Buters, J.T.M., Thibaudon, M., Smith, M., Kennedy, R., Rantio-Lehtimäki, A., Albertini, R., Reese, G., Weber, B., Galan, C., Brandao, R., Antunes, C., Jäger, S., Berger, U., Celenk, S., Grewling, L., Jackowiak, B., Sauliene, I., Weichenmeier, I., Pusch, G., Sarioglum, H., Ueffingm, M., Behrendt, H., Prank, M., Sofiev, M., Cecchi, L., The HIALINE working group (2012) Release of Bet v 1 from birch pollen from 5 European countries. Results from the HIALINE study, *Atmosph. Environ.*, doi:10.1016/j.atmosenv.2012.01.054
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 30. Sofiev, M., Siljamo, P., Ranta, H., Linkosalo, T., Jaeger, S., Jaeger, C., Rassmussen, A., Severova, E., Oksanen A., Karppinen, A., Kukkonen, J. (2011) From Russia to Iceland: an evaluation of a large-scale pollen and chemical air pollution episode during April and May, 2006. In: *Clot B, Comtois P, Escamilla-Garcia B (Eds.). 2011. Aerobiological Monographs, Towards a comprehensive vision*. MeteoSwiss (CH) and University of Montreal (CA), Montreal, Canada, ISBN 978-2-8399-0466-7, pp. 95-114.
 31. Ranta, H., Siljamo, P., Oksanen, A., Sofiev, M., Linkosalo, T., Karl- Bergmann, C., Bucher, E., Ekebom, A., Emberlin, J., Gehrig, R., Hallsdottir, M., Jato, V., Jäger, S., Myszkowska, D., Paldy, A., Ramfjord, H., Severova, E., Thibaudon, M. (2011) Aerial and annual variation of birch pollen loads and a modelling system for simulating and forecasting pollen emissions and transport at an European scale. In: *Clot B, Comtois P, Escamilla-Garcia B (Eds.). 2011. Aerobiological Monographs, Towards a comprehensive vision*. MeteoSwiss (CH) and University of Montreal (CA), Montreal, Canada, ISBN 978-2-8399-0466-7, p.115-132.
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