

9 March 2026

Mikhail Sofiev

List of publications

Inverse chronological order, abstracts of presentations at scientific conferences are not included. Peer-reviewed: 230.

Google Scholar: h-index = 68, i10 index: 193, total citations: 18390

WebOfScience: h-index: 53, total citations: 10203

ORCID ID 0000-0001-9542-5746

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. Cole, R., Luque-García, L., Flower, G., De La Cruz Libardi, A., Sofiev, M., Masselot, P., Gasparrini, A., 2026. Tree pollen and asthma-related hospital admissions in England: a national case time series analysis. *Environment International* 208, 110130. <https://doi.org/10.1016/j.envint.2026.110130>
4. Kouznetsov, R., Sofiev, M., Uppstu, A., Hänninen, R., 2026. Deposition velocity concept does not apply to fluxes of ambient aerosol. *Geosci. Model Dev.* 19, 1833–1847. <https://doi.org/10.5194/gmd-19-1833-2026>
5. Salokas, J., Sofieva-Rios, S., Paatero, J., Asmi, E., Karppinen, A., Sofiev, M., 2026. Evaluation of commercial kits and purification approaches for DNA extraction from atmospheric samples for 3rd generation sequencing without amplification. *Sci Rep* 16, 8402. <https://doi.org/10.1038/s41598-026-38534-3>
6. Bousquet, J., Sousa-Pinto, B., Vieira, R.J., Schünemann, H.J., Zuberbier, T., Bognanni, A., Togias, A., Samolinski, B., Valiulis, A., Williams, S., Bedbrook, A., Czarlewski, W., Torres, M.J., Shamji, M.H., Morais-Almeida, M., Canonica, G.W., Vecillas, L.D.L., Dykewicz, M.S., Jacomelli, C., Klimek, L., Leemann, L., Lourenço, O., Palamarchuk, Y., Papadopoulos, N.G., Pereira, A.M., Saviouré, M., Toppila-Salmi, S.K., Ventura, M.T., Yepes-Nuñez, J.J., Cruz, A.A., Ciprandi, G., Gemicioglu, B., Giovannini, M., Gradauskiene, B., Jartti, T., Jeseňák, M., Kuna, P., Kvedariene, V., Larenas-Linnemann, D.E., Latiff, A.H.A., Mohammad, Y., Ohta, K., Mahesh, P.A., Pali-Schöll, I., Pfaar, O.,

- Regateiro, F.S., Roche, N., Sofiev, M., Taborda-Barata, L., Ulrik, C.S., Rostan, M.V., Viegli, G., Zhang, L., Antó, J.M., Haahtela, T., Cherrez-Ojeda, I., Ivancevich, J.C., Khaltayev, N., Yorgancioglu, A., Abdullah, B., Al-Ahmad, M., Al-Nesf, M.A., Amaral, R., Asllani, J., Bergmann, K., Bernstein, J.A., Blaiss, M.S., Braido, F., Camargos, P., Carreiro-Martins, P., Casale, T., Cecchi, L., Fiocchi, A.G., Giuliano, A.F.M., Christoff, G., Cirule, I., Correia-de-Sousa, J., Costa, E.M., Del Giacco, S., Devillier, P., Dokic, D., Hossny, E., Iinuma, T., Irani, C., Ispayeva, Z., Julge, K., Kaidashev, I., Bennoor, K.S., Kraxner, H., Kull, I., Kulus, M., Kupczyk, M., Kurchenko, A., La Grutta, S., Miculinic, N., Tuyet, L.L.T., Makris, M., Milenkovic, B., Lee, S.M., Montefort, S., Moreira, A., Mullol, J., Nadif, R., Nakonechna, A., Neffen, H.E., Niedoszytko, M., Nyembue, D., O'Hehir, R., Ogulur, I., Okamoto, Y., Olze, H., Palomares, O., Panzner, P., Patella, V., Pawankar, R., Pitsios, C., Popov, T.A., Puggioni, F., Quirce, S., Ramonaité, A., Recto, M., Repka-Ramirez, M.S., Roberts, G., Robles-Velasco, K., Rottem, M., Salapatras, M., Sastre, J., Scichilone, N., Sisul, J.C., Solé, D., Soto-Martinez, M.E., Sova, M., Tantilipikorn, P., Todo-Bom, A., Tsaryk, V., Tsiligianni, I., Urrutia-Pereira, M., Valovirta, E., Van Ganse, E., Vasankari, T., Wallace, D., Wang, D.Y., Worm, M., Yusuf, O.M., Zidarn, M., Gil-Mata, S., Marques-Cruz, M., Mahboub, B., Ansotegui, I.J., Romano, A., Artesani, M.C., Barreto, B., Becker, S., Beghe, B., Bouchard, J., Bourgoïn-Heck, M., Brussino, L., Buhl, R., Calvo-Gil, M., Dahl, V.C., Vizuete, J.A.C., Charpin, D., Chavannes, N.H., Chelmińska, M., Cheng, L., Chkhartishvili, E., Chong-Neto, H.J., Choudhury, D., Chu, D., Cingi, C., Compalati, E., Cvetkovski, B., Da Silva, J., D'Amato, G., Davies, J., Di Bona, D., Dimou, M.V., Teixeira, M.D.C., Doulaptsi, M., Pérez, J.M.F., Gawlik, R., Goksel, O., Gómez, M.R., Gonzalez Diaz, S.N., Gotua, M., Grigoreas, C., Grisle, I., Guzman, M.A., Tan, R.H., Hyland, M., Ierodiakonou, D., Karavelia, A., Kisiel, M., Kosnik, M., Kritikos, V., Lombardi, C., Martini, M., Meço, C., Mesonjesi, E., Mihaltan, F., Moniuszko, M., Naclerio, R., Neisinger, S., Ordak, M., Paoletti, G., Perdomo-Flores, E.A., Pham-Thi, N., Prokopakis, E., Yeverino, D.R., Rolla, G., Romantowski, J., Rouadi, P.W., Rukhadze, M., Sakurai, D., Salameh, L., Sarquis, F.S., Kosak, T.S., Soyka, M., Sozinova, O., Specjalski, K., Tomic-Spiric, V., Vachova, M., Van Hage, M., Koyuncu, I.V., Vichyanond, P., Wagenmann, M., Ko, F.W.S., Werminghaus, P., Xepapadaki, V.P., Xiang, Y., Fonseca, J.A., 2026. Methodology for the Development of the Allergic Rhinitis and Its Impact on Asthma (ARIA)-EAACI 2024–2025 Guidelines: From Evidence-to-Decision Frameworks to Digitalised Shared Decision-Making Algorithms. *Allergy* 81, 427–453. <https://doi.org/10.1111/all.70100>
7. Fauchald, P., Christensen, T.R., Christensen, T., 2026. Climate change impacts on Arctic ecosystems and associated feedbacks. *Front. Environ. Sci.* 13, 1747632. <https://doi.org/10.3389/fenvs.2025.1747632>
 8. Zhang, W., Sofiev, M., Liu, C., Yi, J., Sickel, M., Paatero, J., Ungar, K., Pellerin, E., 2026. Observed Atmospheric ¹³³Xe Concentrations in the Arctic and their relationship to the North Atlantic Oscillation (NAO). *Journal of Environmental Radioactivity* 291, 107854. <https://doi.org/10.1016/j.jenvrad.2025.107854>
 9. Al-Ahdal, T., Barman, S., Alahmad, B., Dafka, S., Gallo, E., Ballester, J., Sofiev, M., Romanello, M., Bärnighausen, T., Gertz, M., Rocklöv, J., 2025. The association of climate-induced stressors on risk of negative sentiment: An analysis from 462 million geotagged tweets in Europe. *iScience* 28, 113933. <https://doi.org/10.1016/j.isci.2025.113933>
 10. Bousquet, J., Sousa-Pinto, B., Vieira, R.J., Schünemann, H.J., Zuberbier, T., Bognanni, A., Togias, A., Samolinski, B., Valiulis, A., Williams, S., Bedbrook, A., Czarlewski, W., Torres, M.J., Shamji, M.H., Morais-Almeida, M., Canonica, G.W., Vecillas, L.D.L., Dykewicz, M.S., Jacomelli, C., Klimek, L., Leemann, L., Lourenço, O., Palamarchuk, Y.,

- Papadopoulos, N.G., Pereira, A.M., Savouré, M., Toppila-Salmi, S.K., Ventura, M.T., Yepes-Nuñez, J.J., Cruz, A.A., Ciprandi, G., Gemicioglu, B., Giovannini, M., Gradauskiene, B., Jartti, T., Jeseňák, M., Kuna, P., Kvedariene, V., Larenas-Linnemann, D.E., Latiff, A.H.A., Mohammad, Y., Ohta, K., Mahesh, P.A., Pali-Schöll, I., Pfaar, O., Regateiro, F.S., Roche, N., Sofiev, M., Taborda-Barata, L., Ulrik, C.S., Rostan, M.V., Vieg, G., Zhang, L., Antó, J.M., Haahtela, T., Cherrez-Ojeda, I., Ivancevich, J.C., Khaltayev, N., Yorgancioglu, A., Abdullah, B., Al-Ahmad, M., Al-Nesf, M.A., Amaral, R., Asllani, J., Bergmann, K., Bernstein, J.A., Blaiss, M.S., Braidó, F., Camargos, P., Carreiro-Martins, P., Casale, T., Cecchi, L., Fiocchi, A.G., Giuliano, A.F.M., Christoff, G., Cirule, I., Correia-de-Sousa, J., Costa, E.M., Del Giacco, S., Devillier, P., Dokic, D., Hossny, E., Iinuma, T., Irani, C., Ispayeva, Z., Julge, K., Kaidashev, I., Bennoor, K.S., Kraxner, H., Kull, I., Kulus, M., Kupczyk, M., Kurchenko, A., La Grutta, S., Miculinic, N., Tuyet, L.L.T., Makris, M., Milenkovic, B., Lee, S.M., Montefort, S., Moreira, A., Mullol, J., Nadif, R., Nakonechna, A., Neffen, H.E., Niedoszytko, M., Nyembue, D., O'Hehir, R., Ogulur, I., Okamoto, Y., Olze, H., Palomares, O., Panzner, P., Patella, V., Pawankar, R., Pitsios, C., Popov, T.A., Puggioni, F., Quirce, S., Ramonaité, A., Recto, M., Repka-Ramirez, M.S., Roberts, G., Robles-Velasco, K., Rottem, M., Salapatras, M., Sastre, J., Scichilone, N., Sisul, J.C., Solé, D., Soto-Martinez, M.E., Sova, M., Tantilipikorn, P., Todo-Bom, A., Tsaryk, V., Tsiligianni, I., Urrutia-Pereira, M., Valovirta, E., Van Ganse, E., Vasankari, T., Wallace, D., Wang, D.Y., Worm, M., Yusuf, O.M., Zidarn, M., Gil-Mata, S., Marques-Cruz, M., Mahboub, B., Ansotegui, I.J., Romano, A., Artesani, M.C., Barreto, B., Becker, S., Beghe, B., Bouchard, J., Bourgoïn-Heck, M., Brussino, L., Buhl, R., Calvo-Gil, M., Dahl, V.C., Vizuete, J.A.C., Charpin, D., Chavannes, N.H., Chelmińska, M., Cheng, L., Chkhartishvili, E., Chong-Neto, H.J., Choudhury, D., Chu, D., Cingi, C., Compalati, E., Cvetkovski, B., Da Silva, J., D'Amato, G., Davies, J., Di Bona, D., Dimou, M.V., Teixeira, M.D.C., Doulaptsi, M., Pérez, J.M.F., Gawlik, R., Goksel, O., Gómez, M.R., Gonzalez Diaz, S.N., Gotua, M., Grigoreas, C., Grisle, I., Guzman, M.A., Tan, R.H., Hyland, M., Ierodiakonou, D., Karavelia, A., Kisiel, M., Kosnik, M., Kritikos, V., Lombardi, C., Martini, M., Meço, C., Mesonjesi, E., Mihaltan, F., Moniuszko, M., Naclerio, R., Neisinger, S., Ordak, M., Paoletti, G., Perdomo-Flores, E.A., Pham-Thi, N., Prokopakis, E., Yeverino, D.R., Rolla, G., Romantowski, J., Rouadi, P.W., Rukhadze, M., Sakurai, D., Salameh, L., Sarquis, F.S., Kosak, T.S., Soyka, M., Sozinova, O., Specjalski, K., Tomic-Spiric, V., Vachova, M., Van Hage, M., Koyuncu, I.V., Vichyanond, P., Wagenmann, M., Ko, F.W.S., Werminghaus, P., Xepapadaki, V.P., Xiang, Y., Fonseca, J.A., 2025. Methodology for the Development of the Allergic Rhinitis and Its Impact on Asthma (ARIA)-EAACI 2024–2025 Guidelines: From Evidence-to-Decision Frameworks to Digitalised Shared Decision-Making Algorithms. *Allergy* all.70100. <https://doi.org/10.1111/all.70100>
11. Zhang, W., Paatero, J., Leppänen, A.-P., Møller, B., Jensen, L.K., Gudnason, K., Sofiev, M., Anderson, P., Sickel, M., Burakowska, A., Kubicki, M., Anderson, A., 2022. Evaluation of ¹³⁷Cs, ¹³³Xe and ³H activity concentrations monitored in the Arctic atmosphere. *Journal of Environmental Radioactivity* 253–254, 107013. <https://doi.org/10.1016/j.jenvrad.2022.107013>
12. Romanello, M., Walawender, M., Hsu, S.-C., Moskeland, A., Palmeiro-Silva, Y., Scamman, D., Smallcombe, J.W., Abdullah, S., Ades, M., Al-Maruf, A., Ameli, N., Angelova, D., Ayeb-Karlsson, S., Ballester, J., Basagaña, X., Bechara, H., Beggs, P.J., Cai, W., Campbell-Lendrum, D., Charnley, G.E.C., Courtenay, O., Cross, T.J., Dalin, C., Dasandi, N., Dasgupta, S., Davies, M., Eckelman, M., Freyberg, C., Corral, P.G., Gasparyan, O., Giguere, J., Gordon-Strachan, G., Gumy, S., Gunther, S.H., Hamilton, I., Hang, Y., Hänninen, R., Hartinger, S., He, K., Heidecke, J., Hess, J.J., Jankin, S., Jay, O.,

- Pantera, D.K., Kelman, I., Kennard, H., Kiesewetter, G., Kinney, P., Kniveton, D., Koubi, V., Kouznetsov, R., Lampard, P., Lee, J.K.W., Lemke, B., Li, B., Linke, A., Liu, Y., Liu, Z., Lowe, R., Ma, S., Mabhaudhi, T., Maia, C., Markandya, A., Martin, G., Martinez-Urtaza, J., Maslin, M., McAllister, L., McMichael, C., Mi, Z., Milner, J., Minor, K., Minx, J., Mohajeri, N., Momen, N.C., Moradi-Lakeh, M., Morrissey, K., Munzert, S., Murray, K.A., Obradovich, N., Orgen, P., Otto, M., Owfi, F., Pearman, O.L., Pega, F., Pershing, A.J., Pinho-Gomes, A.-C., Ponmattam, J., Rabbaniha, M., Repke, T., Roa, J., Robinson, E., Rocklöv, J., Rojas-Rueda, D., Ruiz-Cabrejos, J., Rusticucci, M., Salas, R.N., Plana, A.S.J., Semenza, J.C., Sherman, J.D., Shumake-Guillemot, J., Singh, P., Sjödin, H., Smith, M.R., Sofiev, M., Sorensen, C., Springmann, M., Stowell, J.D., Tabatabaei, M., Tartarini, F., Taylor, J., Tonne, C., Treskova, M., Trinanes, J.A., Uppstu, A., Valdes-Ortega, N., Wagner, F., Watts, N., Whitcombe, H., Wood, R., Yang, P., Zhang, Y., Zhang, Shaohui, Zhang, C., Zhang, Shihui, Zhu, Q., Gong, P., Montgomery, H., Costello, A., 2025. The 2025 report of the Lancet Countdown on health and climate change. *The Lancet* S0140673625019191. [https://doi.org/10.1016/S0140-6736\(25\)01919-1](https://doi.org/10.1016/S0140-6736(25)01919-1)
13. Guevara, M., Colette, A., Guion, A., Petiot, V., Adani, M., Arteta, J., Benedictow, A., Bergström, R., Bolignano, A., Camps, P., Carvalho, A.C., Christensen, J.H., Couvidat, F., D'Elia, I., Denier Van Der Gon, H., Descombes, G., Douros, J., Fagerli, H., Fatahi, Y., Friese, E., Frohn, L., Gauss, M., Geels, C., Hänninen, R., Hansen, K., Jorba, O., Kaminski, J.W., Kouznetsov, R., Kranenburg, R., Kuenen, J., Lannuque, V., Meleux, F., Nyíri, A., Palamarchuk, Y., Pérez García-Pando, C., Robertson, L., Russo, F., Segers, A., Sofiev, M., Struzewska, J., Timmermans, R., Uppstu, A., Valdebenito, A., Ye, Z., 2025. Technical note: sensitivity of the CAMS regional air quality modelling system to anthropogenic emission temporal variability. *Atmos. Chem. Phys.* 25, 13245–13278. <https://doi.org/10.5194/acp-25-13245-2025>
 14. Chowdhury, S., Hänninen, R., Uppstu, A., Sofiev, M., Aunan, K., 2025. Global health burden from acute exposure to fine particles emitted by fires. *npj Clean Air* 1, 9pp. <https://doi.org/10.1038/s44407-025-00024-7>
 15. Colette, A., Collin, G., Besson, F., Blot, E., Guidard, V., Meleux, F., Royer, A., Petiot, V., Miller, C., Fermond, O., Jeant, A., Adani, M., Arteta, J., Benedictow, A., Bergström, R., Bowdalo, D., Brandt, J., Briganti, G., Carvalho, A.C., Christensen, J.H., Couvidat, F., D'Elia, I., D'Isidoro, M., Denier Van Der Gon, H., Descombes, G., Di Tomaso, E., Douros, J., Escribano, J., Eskes, H., Fagerli, H., Fatahi, Y., Flemming, J., Friese, E., Frohn, L., Gauss, M., Geels, C., Guarnieri, G., Guevara, M., Guion, A., Guth, J., Hänninen, R., Hansen, K., Im, U., Janssen, R., Jeoffrion, M., Joly, M., Jones, L., Jorba, O., Kadantsev, E., Kahnert, M., Kaminski, J.W., Kouznetsov, R., Kranenburg, R., Kuenen, J., Lange, A.C., Langner, J., Lannuque, V., Macchia, F., Manders, A., Mircea, M., Nyíri, A., Olid, M., Pérez García-Pando, C., Palamarchuk, Y., Piersanti, A., Raux, B., Razinger, M., Robertson, L., Segers, A., Schaap, M., Siljamo, P., Simpson, D., Sofiev, M., Stangel, A., Struzewska, J., Tena, C., Timmermans, R., Tsikerdekis, T., Tsyro, S., Tyuryakov, S., Ung, A., Uppstu, A., Valdebenito, A., Van Velthoven, P., Vitali, L., Ye, Z., Peuch, V.-H., Rouil, L., 2025. Copernicus Atmosphere Monitoring Service – Regional Air Quality Production System v1.0. *Geosci. Model Dev.* 18, 6835–6883. <https://doi.org/10.5194/gmd-18-6835-2025>
 16. Tummon, F., Bastl, K., Bastl, M., Beggs, P.J., Belmonte, J., Bruffaerts, N., Charalampopoulos, A., Clot, B., Cristofori, A., Crouzy, B., Damialis, A., Erb, S., Galan, C., Graf, E., Haus, J., Koch, K., Lieberherr, G., Lbadaoui-Darvas, M., Meurville, M.-P., Niederberger, E., Oteros, J., Pérez-Badia, R., Ribeiro, H., Schwendimann, A., Sikoparija, B., Skjoth, C., Smith, M., Sofiev, M., Sozinova, O., Sukiene, L., Vasilatou, K.,

- Verstraeten, W.W., Zeder, Y., Zemmer, F., 2025. Recommended terminology for aerobiological studies: automatic and real-time monitoring methods. *Aerobiologia*. <https://doi.org/10.1007/s10453-025-09879-5>
17. Fuertes, E., Konstantinou, G., Van Der Plaats, D., Koczowski, A., Sofiev, M., Agnew, P., Neal, L., Jarvis, D., 2025. Vulnerability to Pollen-Related Asthma Hospital Admissions in the UK Biobank: A Case-Crossover Study. *Allergy* 80, 2081–2083. <https://doi.org/10.1111/all.16612>
 18. Fragkou, E., Tsegas, G., Alyuz, U., Hänninen, R., Moldanova, J., Jutterström, S., Majamäki, E., Jalkanen, J.-P., Sokhi, R.S., Kukkonen, J., Sofiev, M., Ntziachristos, L., 2025. Assessing the efficiency of different mitigation strategies to reduce shipping related air pollution levels and exposure in the Mediterranean coastal region – An ensemble modelling approach. *Atmospheric Environment* 121347. <https://doi.org/10.1016/j.atmosenv.2025.121347>
 19. Parrington, M., Whaley, C.H., French, N.H.F., Buchholz, R.R., Pan, X., Wiedinmyer, C., Hyer, E.J., Kondragunta, S., Kaiser, J.W., Di Tomaso, E., Van Der Werf, G.R., Sofiev, M., Barsanti, K.C., Da Silva, A.M., Darmenov, A.S., Tang, W., Griffin, D., Desservettaz, M., Carter, T. (Tess), Paton-Walsh, C., Liu, T., Uppstu, A., Palamarchuk, J., 2025. Biomass burning emission estimation in the MODIS era: State-of-the-art and future directions. *Elem Sci Anth* 13, 00089. <https://doi.org/10.1525/elementa.2024.00089>
 20. Alari, A., Ballester, J., Milà, C., Benmarhnia, T., Sofiev, M., Uppstu, A., Hänninen, R., Tonne, C., 2025. Quantifying the short-term mortality effects of wildfire smoke in Europe: a multicountry epidemiological study in 654 contiguous regions. *The Lancet Planetary Health* 101296. <https://doi.org/10.1016/j.lanplh.2025.101296>
 21. Kolovoyiannis, V., Mazioti, A.A., Potiris, M., Mamoutos, I., Majamäki, E., Hänninen, R., Krasakopoulou, E., Tragou, E., Zervakis, V., Sofiev, M., Fridell, E., Kukkonen, J., Jalkanen, J.-P., 2025. Modelling the impact of present and future maritime transport on marine pollution at an environmentally sensitive coastal ecosystem (Saronikos gulf, eastern Mediterranean). *Marine Pollution Bulletin* 219, 118335. <https://doi.org/10.1016/j.marpolbul.2025.118335>
 22. Im, U., Ye, Z., Schuhen, N., Chowdhury, S., Christensen, J.H., Geels, C., Hänninen, R., Hodnebrog, Ø., Marelle, L., Sofiev, M., Brandt, J., Aunan, K., 2025. Europe will struggle to meet the new WHO Air Quality Guidelines. *npj Clean Air* 1. <https://doi.org/10.1038/s44407-025-00013-w>
 23. Calgaro, L., Giubilato, E., Aghito, M., Jalkanen, J.-P., Majamäki, E., Ferrarin, C., Hänninen, R., Palamarchuk, Y., Sofiev, M., Semenzin, E., Marcomini, A., (2025). Influence of shipping activities on air and water quality in the Northern Adriatic Sea: A high-resolution modelling study. *Marine Pollution Bulletin* 217, 118102. <https://doi.org/10.1016/j.marpolbul.2025.118102>
 24. Vieira, R.J., Pereira, A.M., Kupczyk, M., Regateiro, F.S., Larenas-Linnemann, D.E., Toppila-Salmi, S., Iinuma, T., Kuna, P., Cruz, A.A., Brussino, L., Gemicioglu, B., Samolinski, B., Taborda-Barata, L., Ventura, M.T., Kvedariene, V., Klimek, L., Pfaar, O., Zuberbier, T., Azevedo, L.F., Fonseca, J.A., Bousquet, J., Sousa-Pinto, B., Anto, J.M., Czarlewski, W., Bedbrook, A., Haahtela, T., Canonica, G.W., Costa, E.M., Kulus, M., Louis, R., Papadopoulos, N.G., Pham-Thi, N., Roche, N., Sastre, J., Scichilone, N., Valiulis, A., Yorgancioglu, A., Almeida, R., Amaral, R., Ansotegui, I.J., Bergmann, K.C., Bosnic-Anticevich, S., Braidó, F., Cardona, V., Cecchi, L., Loureiro, C.C., Cingi, C., Fokkens, W.J., De Vries, G., Giuliano, A.Fm., Ivancevich, J.C., Jácome, C., Kaidashev, I., Kraxner, H., Laune, D., Louis, G., Lourenço, O., Makela, M., Makris, M., Morais-Almeida, M., Mösges, R., Maurer, M., Mullol, J., Nadif, R., Niedoszytko, M., O’Hehir, R., Okamoto, Y., Ollert, M., Olze, H., Patella, V., Pétré, B., Puggioni, F., Romantowski,

- J., Rouadi, P.W., Reitsma, S., Rivero-Yeverino, D., Rodriguez-Gonzalez, M., Sá-Sousa, A., Savouré, M., Serpa, F.S., Shamji, M.H., Sheikh, A., Ulrik, C.S., Sofiev, M., Sova, M., Sperl, A., Todo-Bom, A., Tomazic, P.V., Tsiligianni, I., Valovirta, E., Van Eerd, M., Zidarn, M., Blain, H., Boulet, L.-P., Brusselle, G., Buhl, R., Charpin, D., Casale, T., Chivato, T., Correia-de-Sousa, J., Corrigan, C., De Blay, F., Del Giacco, S., Devillier, P., Dykewicz, M., Fiocchi, A., Giovannini, M., Jassem, E., Jutel, M., Keil, T., La Grutta, S., Lipworth, B., Papi, A., Pépin, J.-L., Quirce, S., Cordeiro, C.R., Torres, M.J., Usmani, O.S., Traetta (New), L., Bonini, M., Brightling, C., Bossios, A., Heaney, L., Hyland, M., Porsbjerg, C., Skrgat, S., (2025). Impact of allergic symptoms on work productivity in allergic rhinitis: A MASK-air direct patient data study. *Allergology International* S1323893025000024. <https://doi.org/10.1016/j.alit.2024.12.007>
25. Meinander, O., Uppstu, A., Dagsson-Waldhauserova, P., Groot Zwaafink, C., Juncher Jørgensen, C., Baklanov, A., Kristensson, A., Massling, A., Sofiev, M., (2025). Dust in the arctic: a brief review of feedbacks and interactions between climate change, aeolian dust and ecosystems. *Front. Environ. Sci.* 13, 1536395. <https://doi.org/10.3389/fenvs.2025.1536395>
26. Sousa-Pinto, B., Costa, E.M., Vieira, R.J., Klimek, L., Czarlewski, W., Pfaar, O., Bedbrook, A., Amaral, R., Brussino, L., Kvedariene, V., Larenas-Linnemann, D.E., Inuma, T., Pham-Thi, N., Regateiro, F.S., Taborda-Barata, L., Ventura, M.T., Ansotegui, I.J., Bergmann, K.C., Canonica, G.W., Cardona, V., Cecchi, L., Cherrez-Ojeda, I., Cingi, C., Cruz, A.A., Del Giacco, S., Devillier, P., Fokkens, W.J., Gemicioglu, B., Haahtela, T., Ivancevich, J.C., Kuna, P., Kraxner, H., Laune, D., Louis, R., Makris, M., Morais-Almeida, M., Mösges, R., Niedozytko, M., Papadopoulos, N.G., Patella, V., Pereira, A.M., Reitsma, S., Robles-Velasco, K., Rouadi, P.W., Samolinski, B., Sova, M., Toppila-Salmi, S.K., Sastre, J., Valiulis, A., Yorgancioglu, A., Zidarn, M., Zuberbier, T., Fonseca, J.A., Bousquet, J., the MASK-air think tank, (2025). Adherence to Treatment in Allergic Rhinitis During the Pollen Season in Europe: A MASK-air Study. *Clin Experimental Allergy* 55, 226–238. <https://doi.org/10.1111/cea.70004>
27. Verstraeten, W.W., Kouznetsov, R., Bruffaerts, N., Sofiev, M., Delcloo, A.W., (2025). Analyzing the airborne birch and grass pollen monitoring network of Belgium. *Aerobiologia*. <https://doi.org/10.1007/s10453-025-09846-0>
28. Mazioti, A. A., Kolovoyiannis, V., Zervakis, V., Krasakopoulou, E., Tragou, E., Hänninen, R., Sofiev, M., Majamaki, E., Jalkanen, J.-P. (2024). The shipping industry as a source of fine black carbon particles in the marine environment: a preliminary study for the case study of Saronikos Gulf. *Technical Annals*, 1(8). Retrieved from <https://ejournals.epublishing.ekt.gr/index.php/ta/article/view/39635>, <https://doi.org/10.12681/ta.39635>
29. Bousquet, J., Schünemann, H.J., Sousa-Pinto, B., Zuberbier, T., Togias, A., Samolinski, B., Bedbrook, A., Czarlewski, W., Hofmann-Apitius, M., Litynska, J., Vieira, R.J., Anto, J.M., Fonseca, J.A., Brozek, J., Bognanni, A., Brussino, L., Canonica, G.W., Cherrez-Ojeda, I., Cruz, A.A., Vecillas, L.D.L., Dykewicz, M., Gemicioglu, B., Giovannini, M., Haahtela, T., Jacobs, M., Jacomelli, C., Klimek, L., Kvedariene, V., Larenas-Linnemann, D.E., Louis, G., Lourenço, O., Leemann, L., Morais-Almeida, M., Neves, A.L., Nadeau, K.C., Nowak, A., Palamarchuk, Y., Palkonen, S., Papadopoulos, N.G., Parmelli, E., Pereira, A.M., Pfaar, O., Regateiro, F.S., Savouré, M., Taborda-Barata, L., Toppila-Salmi, S.K., Torres, M.J., Valiulis, A., Ventura, M.T., Williams, S., Yepes-Nuñez, J.J., Yorgancioglu, A., Zhang, L., Zuberbier, J., Abdul Latiff, A.H., Abdullah, B., Agache, I., Al-Ahmad, M., Al-Nesf, M.A., Al Shaikh, N.A., Amaral, R., Ansotegui, I.J., Asllani, J., Balotro-Torres, M.C., Bergmann, K.-C., Bernstein, J.A., Bindslev-Jensen, C., Blaiss, M.S., Bonaglia, C., Bonini, M., Bossé, I., Braido, F., Caballero-Fonseca, F., Camargos,

- P., Carreiro-Martins, P., Casale, T., Castillo-Vizueté, J.-A., Cecchi, L., Teixeira, M.D.C., Chang, Y.-S., Loureiro, C.C., Christoff, G., Ciprandi, G., Cirule, I., Correia-de-Sousa, J., Costa, E.M., Cvetkovski, B., De Vries, G., Del Giacco, S., Devillier, P., Dokic, D., Douagui, H., Durham, S.R., Enecilla, M.L., Fiocchi, A., Fokkens, W.J., Fontaine, J.-F., Gawlik, R., Gereda, J.E., Gil-Mata, S., Giuliano, A.F.M., Gotua, M., Gradauskiene, B., Guzman, M.A., Hossny, E., Hrubiško, M., Iinuma, T., Irani, C., Ispayeva, Z., Ivancevich, J.C., Jartti, T., Jeseňák, M., Julge, K., Jutel, M., Kaidashev, I., Bennoor, K.S., Khaltaev, N., Kirenga, B., Kraxner, H., Kull, I., Kulus, M., Kuna, P., Kupczyk, M., Kurchenko, A., La Grutta, S., Lane, S., Miculinic, N., Lee, S.M., Le Thi Tuyet, L., Lkhagvaa, B., Louis, R., Mahboub, B., Makela, M., Makris, M., Maurer, M., Melén, E., Milenkovic, B., Mohammad, Y., Moniuszko, M., Montefort, S., Moreira, A., Moreno, P., Mullol, J., Nadif, R., Nakonechna, A., Navarro-Locsin, C.G., Neffen, H.E., Nekam, K., Niedożytko, M., Nunes, E., Nyembue, D., O’Hehir, R., Ollert, M., Ohta, K., Okamoto, Y., Okubo, K., Olze, H., Padukudru, M.A., Palomares, O., Pali-Schöll, I., Panzner, P., Palosuo, K., Park, H.S., Passalacqua, G., Patella, V., Pawankar, R., Pétré, B., Pitsios, C., Plavec, D., Popov, T.A., Puggioni, F., Quirce, S., Raciborski, F., Ramonaité, A., Recto, M., Repka-Ramirez, S., Roberts, G., Robles-Velasco, K., Roche, N., Rodriguez-Gonzalez, M., Romualdez, J.A., Rottem, M., Rouadi, P.W., Salapatas, M., Sastre, J., Serpa, F.S., Sayah, Z., Scichilone, N., Senna, G., Sisul, J.C., Solé, D., Soto-Martinez, M.E., Sova, M., Sozinova, O., Stevanovic, K., Ulrik, C.S., Szylling, A., Tan, F.M., Tantilipikorn, P., Todo-Bom, A., Tomic-Spiric, V., Tsaryk, V., Tsiligianni, I., Urrutia-Pereira, M., Rostan, M.V., Sofiev, M., Valovirta, E., Van Eerd, M., Van Ganse, E., Vasankari, T., Vichyanond, P., Viegi, G., Wallace, D., Wang, D.Y., Wasserman, S., Wong, G., Worm, M., Yusuf, O.M., Zaitoun, F., Zidarn, M., (2024). Concepts for the Development of Person-Centered, Digitally Enabled, Artificial Intelligence–Assisted ARIA Care Pathways (ARIA 2024). *The Journal of Allergy and Clinical Immunology: In Practice* 12, 2648-2668.e2. <https://doi.org/10.1016/j.jaip.2024.06.040>
30. Romanello, M., Walawender, M., Hsu, S.-C., Moskeland, A., Palmeiro-Silva, Y., Scamman, D., Ali, Z., Ameli, N., Angelova, D., Ayeb-Karlsson, S., Basart, S., Beagley, J., Beggs, P.J., Blanco-Villafuerte, L., Cai, W., Callaghan, M., Campbell-Lendrum, D., Chambers, J.D., Chicmana-Zapata, V., Chu, L., Cross, T.J., Van Daalen, K.R., Dalin, C., Dasandi, N., Dasgupta, S., Davies, M., Dubrow, R., Eckelman, M.J., Ford, J.D., Freyberg, C., Gasparyan, O., Gordon-Strachan, G., Grubb, M., Gunther, S.H., Hamilton, I., Hang, Y., Hänninen, R., Hartinger, S., He, K., Heidecke, J., Hess, J.J., Jamart, L., Jankin, S., Jatkar, H., Jay, O., Kelman, I., Kennard, H., Kiesewetter, G., Kinney, P., Kniveton, D., Kouznetsov, R., Lampard, P., Lee, J.K.W., Lemke, B., Li, B., Liu, Y., Liu, Z., Llabrés-Brustenga, A., Lott, M., Lowe, R., Martinez-Urtaza, J., Maslin, M., McAllister, L., McMichael, C., Mi, Z., Milner, J., Minor, K., Minx, J., Mohajeri, N., Momen, N.C., Moradi-Lakeh, M., Morrissey, K., Munzert, S., Murray, K.A., Obradovich, N., O’Hare, M.B., Oliveira, C., Oreszczyn, T., Otto, M., Owfi, F., Pearman, O.L., Pega, F., Perishing, A.J., Pinho-Gomes, A.-C., Ponmattam, J., Rabbaniha, M., Rickman, J., Robinson, E., Rocklöv, J., Rojas-Rueda, D., Salas, R.N., Semenza, J.C., Sherman, J.D., Shumake-Guillemot, J., Singh, P., Sjödin, H., Slater, J., Sofiev, M., Sorensen, C., Springmann, M., Stalhandske, Z., Stowell, J.D., Tabatabaei, M., Taylor, J., Tong, D., Tonne, C., Treskova, M., Trinanes, J.A., Uppstu, A., Wagner, F., Warnecke, L., Whitcombe, H., Xian, P., Zavaleta-Cortijo, C., Zhang, C., Zhang, R., Zhang, S., Zhang, Y., Zhu, Q., Gong, P., Montgomery, H., Costello, A., (2024). The 2024 report of the Lancet Countdown on health and climate change: facing record-breaking threats from delayed action. *The Lancet* S0140673624018221. [https://doi.org/10.1016/S0140-6736\(24\)01822-1](https://doi.org/10.1016/S0140-6736(24)01822-1)

31. Pachón, J.E., Opazo, M.A., Lichtig, P., Huneus, N., Bouarar, I., Brasseur, G., Li, C.W.Y., Flemming, J., Menut, L., Menares, C., Gallardo, L., Gauss, M., Sofiev, M., Kouznetsov, R., Palamarchuk, J., Uppstu, A., Dawidowski, L., Rojas, N.Y., Andrade, M.D.F., Gavidia-Calderón, M.E., Delgado Peralta, A.H., Schuch, D., 2024. Air quality modeling intercomparison and multiscale ensemble chain for Latin America. *Geosci. Model Dev.* 17, 7467–7512. <https://doi.org/10.5194/gmd-17-7467-2024>
32. Belachew, A.B., Rantala, A.K., Jaakkola, M.S., Hugg, T.T., Sofiev, M., Kukkonen, J., Jaakkola, J.J.K., 2024. Prenatal and early life exposure to air pollution and the risk of severe lower respiratory tract infections during early childhood: the Espoo Cohort Study. *Occup Environ Med* 81, 209–216. <https://doi.org/10.1136/oemed-2023-109112>
33. Bousquet, J., Sousa-Pinto, B., Anto, J.M., Bedbrook, A., Fonseca, J.A., Zuberbier, T., Czarlewski, W., Haahtela, T., Canonica, G.W., Costa, E.M., Klimek, L., Kuna, P., Kupczyk, M., Kvedariene, V., Kulus, M., Larenas-Linnemann, D.E., Louis, R., Pfaar, O., Papadopoulos, N.G., Pham-Thi, N., Regateiro, F.S., Roche, N., Samolinski, B., Sastre, J., Scichilone, N., Taborda-Barata, L., Valiulis, A., Yorgancioglu, A., Ventura, M.T., Almeida, R., Amaral, R., Ansotegui, I.J., Bergmann, K.C., Bosnic-Anticevich, S., Braidó, F., Brussino, L., Cardona, V., Cecchi, L., Loureiro, C.C., Cingi, C., Cruz, A.A., Fokkens, W.J., De Vries, G., Gemicoglu, B., Giuliano, A.F.M., Linuma, T., Ivancevich, J.C., Jácome, C., Kaidashev, I., Kraxner, H., Laune, D., Louis, G., Lourenço, O., Makela, M., Makris, M., Morais-Almeida, M., Mösges, R., Maurer, M., Mullol, J., Nadif, R., Niedozytko, M., O’Hehir, R., Okamoto, Y., Ollert, M., Olze, H., Patella, V., Pétré, B., Puggioni, F., Romantowski, J., Rouadi, P.W., Reitsma, S., Rivero-Yeverino, D., Rodriguez-Gonzalez, M., Sá-Sousa, A., Savouré, M., Serpa, F.S., Shamji, M.H., Sheikh, A., Ulrik, C.S., Sofiev, M., Sova, M., Sperl, A., Todo-Bom, A., Tomazic, P.V., Toppila-Salmi, S., Tsiligianni, I., Valovirta, E., Van Eerd, M., Zidarn, M., Blain, H., Boulet, L.-P., Brusselle, G., Buhl, R., Charpin, D., Casale, T., Chivato, T., Correia-de-Sousa, J., Corrigan, C., De Blay, F., Del Giacco, S., Devillier, P., Dykewicz, M., Fiocchi, A., Giovannini, M., Jassem, E., Jutel, M., Keil, T., La Grutta, S., Lipworth, B., Papi, A., Pépin, J.-L., Quirce, S., Cordeiro, C.R., Torres, M.J., Usmani, O.S., 2024. MASK-air: An OECD (Organisation for Economic Co-operation and Development) Best Practice for Public Health on Integrated Care for Chronic Diseases. *The Journal of Allergy and Clinical Immunology: In Practice* 12, 2010-2016.e7. <https://doi.org/10.1016/j.jaip.2024.03.024>
34. Sofiev, M., Palamarchuk, J., Kouznetsov, R., Abramidze, T., Adams-Groom, B., Antunes, C.M., Ariño, A.H., Bastl, M., Belmonte, J., Berger, U.E., Bonini, M., Bruffaerts, N., Buters, J., Cariñanos, P., Celenk, S., Ceriotti, V., Charalampopoulos, A., Clewlow, Y., Clot, B., Dahl, A., Damialis, A., De Linares, C., De Weger, L.A., Dirr, L., Ekeboom, A., Fatahi, Y., Fernández González, M., Fernández González, D., Fernández-Rodríguez, S., Galán, C., Gedda, B., Gehrig, R., Geller Bernstein, C., Gonzalez Roldan, N., Grewling, L., Hajkova, L., Hänninen, R., Hentges, F., Jantunen, J., Kadantsev, E., Kasprzyk, I., Kloster, M., Kluska, K., Koenders, M., Lafférsová, J., Leru, P.M., Lipiec, A., Louna-Korteniemi, M., Magyar, D., Majkowska-Wojciechowska, B., Mäkelä, M., Mitrovic, M., Myszkowska, D., Oliver, G., Östenson, P., Pérez-Badia, R., Piotrowska-Weryszko, K., Prank, M., Przedpelska-Wasowicz, E.M., Pätsi, S., Rajo, F.J.R., Ramfjord, H., Rapiejko, J., Rodinkova, V., Rojo, J., Ruiz-Valenzuela, L., Rybnicek, O., Saarto, A., Sauliene, I., Seliger, A.K., Severova, E., Shalaboda, V., Sikoparija, B., Siljamo, P., Soares, J., Sozinova, O., Stangel, A., Stjepanović, B., Teinmaa, E., Tyuryakov, S., Trigo, M.M., Uppstu, A., Vill, M., Vira, J., Visez, N., Vitikainen, T., Vokou, D., Weryszko-Chmielewska, E., Karppinen, A., 2024. European pollen reanalysis, 1980–2022, for alder, birch, and olive. *Sci Data* 11, 1082. <https://doi.org/10.1038/s41597-024-03686-2>

35. Sikoparija, B., Matavulj, P., Simovic, I., Radisic, P., Brdar, S., Minic, V., Tesendic, D., Kadantsev, E., Palamarchuk, J., Sofiev, M., 2024. Classification accuracy and compatibility across devices of a new Rapid-E+ flow cytometer. *Atmospheric Measurement Techniques* 17, 5051–5070. <https://doi.org/10.5194/amt-17-5051-2024>
36. Pfaar, O., Sousa-Pinto, B., Papadopoulos, N.G., Larenas-Linnemann, D.E., Ordak, M., Torres, M.J., Mösges, R., Klimek, L., Zuberbier, T., Matricardi, P.M., Berger, U.E., Berger, M., Dramburg, S., Mahler, V., Toppila-Salmi, S.K., Bergmann, K., Ollert, M., Tripodi, S., Jutel, M., Agache, I., Eguiluz-Gracia, I., Canonica, G.W., Akdis, C.A., Sokolowska, M., Sofiev, M., Shamji, M.H., Czarlewski, W., Fonseca, J.A., Bedbrook, A., Bousquet, J., 2024. Digitally-enabled, person-centred care (PCC) in allergen immunotherapy: An ARIA-EAACI Position Paper. *Allergy* 79, 2037–2050. <https://doi.org/10.1111/all.16135>
37. González-Alonso, M., Oteros, J., Widmann, M., Maya-Manzano, J.M., Skjøth, C., Grewling, L., O'Connor, D., Sofiev, M., Tummon, F., Crouzy, B., Clot, B., Buters, J., Kadantsev, E., Palamarchuk, Y., Martinez-Bracero, M., Pope, F.D., Mills, S., Škoparija, B., Matavulj, P., Schmidt-Weber, C.B., Ørby, P., 2024. Influence of meteorological variables and air pollutants on measurements from automatic pollen sampling devices. *Science of The Total Environment* 172913. <https://doi.org/10.1016/j.scitotenv.2024.172913>
38. Mahura, A., Baklanov, A., Makkonen, R., Boy, M., Petäjä, T., Lappalainen, H.K., Nuterman, R., Kerminen, V.-M., Arnold, S.R., Jochum, M., Shvidenko, A., Esau, I., Sofiev, M., Stohl, A., Aalto, T., Bai, J., Chen, C., Cheng, Y., Drofa, O., Huang, M., Järvi, L., Kokkola, H., Kouznetsov, R., Li, T., Malguzzi, P., Monks, S., Poulsen, M.B., Noe, S.M., Palamarchuk, Y., Foreback, B., Clusius, P., Rasmussen, T.A.S., She, J., Sørensen, J.H., Spracklen, D., Su, H., Tonttila, J., Wang, S., Wang, J., Wolf-Grosse, T., Yu, Y., Zhang, Q., Zhang, Wei, Zhang, Wen, Zheng, X., Li, S., Li, Y., Zhou, P., Kulmala, M., 2024. Towards seamless environmental prediction - development of Pan-Eurasian EXperiment (PEEX) modelling platform. *Big Earth Data* 1-42. <https://doi.org/10.1080/20964471.2024.2325019>
39. Verstraeten, W.W., Kouznetsov, Rostislav, Bruffaerts, N., Sofiev, M., Delcloo, A.W., 2024. Assessing uncertainty in airborne birch pollen modelling. <https://doi.org/10.1007/s10453-024-09818-w>
40. Van Daalen, K.R., Tonne, C., Semenza, J.C., Rocklöv, J., Markandya, A., Dasandi, N., Jankin, S., Achebak, H., Ballester, J., Bechara, H., Beck, T.M., Callaghan, M.W., Carvalho, B.M., Chambers, J., Pradas, M.C., Courtenay, O., Dasgupta, S., Eckelman, M.J., Farooq, Z., Fransson, P., Gallo, E., Gasparyan, O., Gonzalez-Reviriego, N., Hamilton, I., Hänninen, R., Hatfield, C., He, K., Kazmierczak, A., Kendrovski, V., Kennard, H., Kiese Wetter, G., Kouznetsov, R., Kriit, H.K., Llabrés-Brustenga, A., Lloyd, S.J., Batista, M.L., Maia, C., Martinez-Urtaza, J., Mi, Z., Milà, C., Minx, J.C., Nieuwenhuijsen, M., Palamarchuk, J., Pantera, D.K., Quijal-Zamorano, M., Rafaj, P., Robinson, E.J.Z., Sánchez-Valdivia, N., Scamman, D., Schmoll, O., Sewe, M.O., Sherman, J.D., Singh, P., Sirotkina, E., Sjödin, H., Sofiev, M., Solaraju-Murali, B., Springmann, M., Treskova, M., Triñanes, J., Vanuytrecht, E., Wagner, F., Walawender, M., Warnecke, L., Zhang, R., Romanello, M., Antò, J.M., Nilsson, M., Lowe, R., 2024. The 2024 Europe report of the Lancet Countdown on health and climate change: unprecedented warming demands unprecedented action. *The Lancet Public Health* S2468266724000550. [https://doi.org/10.1016/S2468-2667\(24\)00055-0](https://doi.org/10.1016/S2468-2667(24)00055-0)
41. Kouznetsov, Rostislav, Hänninen, Risto, Uppstu, Andreas, Kadantsev, Evgeny, Fatahi, Yalda, Prank, Marje, Kouznetsov, Dmitrii, Noe, Steffen Manfred, Junninen, Heikki, Sofiev, Mikhail (2024) A bottom-up emission estimate for the 2022 Nord Stream gas

- leak: derivation, simulations, and evaluation. *Atmos. Chem. Phys.*, 24, 4675-4691, <https://doi.org/10.5194/acp-24-4675-2024>
42. Tummon, F., Adams-Groom, B., Antunes, C.M., Bruffaerts, N., Buters, J., Cariñanos, P., Celenk, S., Choël, M., Clot, B., Cristofori, A., Crouzy, B., Damialis, A., Fernández, A.R., González, D.F., Galán, C., Gedda, B., Gehrig, R., Gonzalez-Alonso, M., Gottardini, E., Gros-Daillon, J., Hajkova, L., O'Connor, D., Östensson, P., Oteros, J., Pauling, A., Pérez-Badia, R., Rodinkova, V., Rodríguez-Rajo, F.J., Ribeiro, H., Sauliene, I., Sikoparija, B., Skjøth, C.A., Spanu, A., Sofiev, M., Sozinova, O., Srnec, L., Visez, N., De Weger, L.A., 2024. The role of automatic pollen and fungal spore monitoring across major end-user domains. *Aerobiologia*. <https://doi.org/10.1007/s10453-024-09820-2>
 43. Chowdhury, S., Hänninen, R., Sofiev, M., Aunan, K., 2024. Fires as a source of annual ambient PM_{2.5} exposure and chronic health impacts in Europe. *Science of The Total Environment* 922, 171314. <https://doi.org/10.1016/j.scitotenv.2024.171314>
 44. Sogacheva, L., Virtanen, T.H., Sundström, A.-M., Sofiev, M., Lappalainen, H.K., Arola, A., 2024. Two decades of fire activity over the PEEEX domain: a look from space, with contribution from models. *Big Earth Data*. <https://doi.org/10.1080/20964471.2024.2316730>
 45. Kangas, L., Kukkonen, J., Kauhaniemi, M., Riikonen, K., Sofiev, M., Kousa, A., Niemi, J.V., Karppinen, A., 2024. The contribution of residential wood combustion to the PM_{2.5} concentrations in the Helsinki metropolitan area. *Atmos. Chem. Phys.* 24, 1489–1507. <https://doi.org/10.5194/acp-24-1489-2024>
 46. Curto, A., Nunes, J., Milà, C., Nhacolo, A., Hänninen, R., Sofiev, M., Valentín, A., Saúde, F., Kogevinas, M., Saco, C., Bassat, Q., Tonne, C., 2024. Associations between landscape fires and child morbidity in southern Mozambique: a time-series study. *The Lancet Planetary Health* 8, e41–e50. [https://doi.org/10.1016/S2542-5196\(23\)00251-6](https://doi.org/10.1016/S2542-5196(23)00251-6)
 47. Bousquet, J., Sousa-Pinto, B., Regateiro, F.S., Pereira, A.M., Brussino, L., Kvedariene, V., Larenas-Linnemann, D.E., Taborda-Barata, L., Ventura, M.T., Vieira, R.J., Fonseca, J.A., Zuberbier, T., Anto, J.M., ARIA Group, 2023. MASK -air® direct patient data support the ARIA-MEDALL hypothesis on allergic phenotypes. *Allergy* all.15842. <https://doi.org/10.1111/all.15842>
 48. Romanello, M., Napoli, C.D., Green, C., Kennard, H., Lampard, P., Scamman, D., Walawender, M., Ali, Z., Ameli, N., Ayeb-Karlsson, S., Beggs, P.J., Belesova, K., Berrang Ford, L., Bowen, K., Cai, W., Callaghan, M., Campbell-Lendrum, D., Chambers, J., Cross, T.J., Van Daalen, K.R., Dalin, C., Dasandi, N., Dasgupta, S., Davies, M., Dominguez-Salas, P., Dubrow, R., Ebi, K.L., Eckelman, M., Ekins, P., Freyberg, C., Gasparyan, O., Gordon-Strachan, G., Graham, H., Gunther, S.H., Hamilton, I., Hang, Y., Hänninen, R., Hartinger, S., He, K., Heidecke, J., Hess, J.J., Hsu, S.-C., Jamart, L., Jankin, S., Jay, O., Kelman, I., Kieseewetter, G., Kinney, P., Kniveton, D., Kouznetsov, R., Larosa, F., Lee, J.K.W., Lemke, B., Liu, Y., Liu, Z., Lott, M., Lotto Batista, M., Lowe, R., Odhiambo Sewe, M., Martinez-Urtaza, J., Maslin, M., McAllister, L., McMichael, C., Mi, Z., Milner, J., Minor, K., Minx, J.C., Mohajeri, N., Momen, N.C., Moradi-Lakeh, M., Morrissey, K., Munzert, S., Murray, K.A., Neville, T., Nilsson, M., Obradovich, N., O'Hare, M.B., Oliveira, C., Oreszczyn, T., Otto, M., Owfi, F., Pearman, O., Pega, F., Pershing, A., Rabbaniha, M., Rickman, J., Robinson, E.J.Z., Rocklöv, J., Salas, R.N., Semenza, J.C., Sherman, J.D., Shumake-Guillemot, J., Silbert, G., Sofiev, M., Springmann, M., Stowell, J.D., Tabatabaei, M., Taylor, J., Thompson, R., Tonne, C., Treskova, M., Trinanes, J.A., Wagner, F., Warnecke, L., Whitcombe, H., Winning, M., Wyns, A., Yglesias-González, M., Zhang, S., Zhang, Y., Zhu, Q., Gong, P., Montgomery, H., Costello, A., 2023. The 2023 report of the Lancet Countdown on health and climate

- change: the imperative for a health-centred response in a world facing irreversible harms. *The Lancet* S0140673623018597. [https://doi.org/10.1016/S0140-6736\(23\)01859-7](https://doi.org/10.1016/S0140-6736(23)01859-7)
49. Sousa-Pinto, B., Palamarchuk, Y., Leemann, L., Jankin, S., Basagaña, X., Ballester, J., Bedbrook, A., Czarlewski, W., Almeida, R., Haahtela, T., Haveri, H., Prass, M., Henriques, T., Vieira, R., Klimek, L., Ollert, M., Shamji, M., Jutel, M., Del Giacco, S., Torres, M., Zuberbier, T., Fonseca, J., Sofiev, M., Anto, J., Bousquet, J., 2023. From MASK-air® and SILAM to CATALYSE (Climate Action to Advance HeaLthY Societies in Europe). *J Investig Allergol Clin Immunol* 34. <https://doi.org/10.18176/jiaci.0923>
 50. Sofiev, M., Buters, J., Tummon, F., Fatahi, Y., Sozinova, O., Adams-Groom, B., Bergmann, K.C., Dahl, Å., Gehrig, R., Gilge, S., Seliger, A.K., Kouznetsov, R., Lieberherr, G., O'Connor, D., Oteros, J., Palamarchuk, J., Ribeiro, H., Werchan, B., Werchan, M., Clot, B., 2023. Designing an automatic pollen monitoring network for direct usage of observations to reconstruct the concentration fields. *Science of The Total Environment* 165800. <https://doi.org/10.1016/j.scitotenv.2023.165800>
 51. Chuvieco, E., Yebra, M., Martino, S., Thonicke, K., Gómez-Giménez, M., San-Miguel, J., Oom, D., Velea, R., Mouillot, F., Molina, J.R., Miranda, A.I., Lopes, D., Salis, M., Bugaric, M., Sofiev, M., Kadantsev, E., Gitas, I.Z., Stavrakoudis, D., Eftychidis, G., Bar-Massada, A., Neidermeier, A., Pampanoni, V., Pettinari, M.L., Arrogante-Funes, F., Ochoa, C., Moreira, B., Viegas, D., 2023. Towards an Integrated Approach to Wildfire Risk Assessment: When, Where, What and How May the Landscapes Burn. *Fire* 6, 215. <https://doi.org/10.3390/fire6050215>
 52. Bousquet, J., Shamji, M.H., Anto, J.M., Schünemann, H.J., Canonica, G.W., Jutel, M., Del Giacco, S., Zuberbier, T., Pfaar, O., Fonseca, J.A., Sousa-Pinto, B., Klimek, L., Czarlewski, W., Bedbrook, A., Amaral, R., Ansotegui, I.J., Bosnic-Anticevich, S., Braido, F., Chaves Loureiro, C., Gemicioglu, B., Haahtela, T., Kulus, M., Kuna, P., Kupczyk, M., Matricardi, P.M., Regateiro, F.S., Samolinski, B., Sofiev, M., Toppila-Salmi, S., Valiulis, A., Ventura, M.T., Barbara, C., Bergmann, K.C., Bewick, M., Blain, H., Bonini, M., Boulet, L., Bourret, R., Brusselle, G., Brussino, L., Buhl, R., Cardona, V., Casale, T., Cecchi, L., Charpin, D., Cherrez-Ojeda, I., Chu, D.K., Cingi, C., Costa, E.M., Cruz, A.A., Devillier, P., Dramburg, S., Fokkens, W.J., Gotua, M., Heffler, E., Ispayeva, Z., Ivancevich, J.C., Joos, G., Kaidashev, I., Kraxner, H., Kvedariene, V., Larenas-Linnemann, D.E., Laune, D., Lourenço, O., Louis, R., Makela, M., Makris, M., Maurer, M., Melén, E., Micheli, Y., Morais-Almeida, M., Mullol, J., Niedozytko, M., O'Hehir, R., Okamoto, Y., Olze, H., Papadopoulos, N.G., Papi, A., Patella, V., Pétré, B., Pham-Thi, N., Puggioni, F., Quirce, S., Roche, N., Rouadi, P.W., Sá-Sousa, A., Sagara, H., Sastre, J., Scichilone, N., Sheikh, A., Sova, M., Suppli Ulrik, C., Taborda-Barata, L., Todo-Bom, A., Torres, M.J., Tsiligianni, I., Usmani, O.S., Valovirta, E., Vasankari, T., Vieira, R.J., Wallace, D., Wasserman, S., Zidarn, M., Yorgancioglu, A., Zhang, L., Chivato, T., Ollert, M., 2023. Patient-centered digital biomarkers for allergic respiratory diseases and asthma: The ARIA-EAACI approach – ARIA-EAACI Task Force Report. *Allergy* 78, 1758–1776. <https://doi.org/10.1111/all.15740>
 53. Bousquet, J., Anto, J.M., Sousa-Pinto, B., Czarlewski, W., Bedbrook, A., Haahtela, T., Klimek, L., Pfaar, O., Kuna, P., Kupczyk, M., Regateiro, F.S., Samolinski, B., Valiulis, A., Yorgancioglu, A., Arnavielhe, S., Basagaña, X., Bergmann, K.C., Bosnic-Anticevich, S., Brussino, L., Canonica, G.W., Cardona, V., Cecchi, L., Chaves-Loureiro, C., Costa, E., Cruz, A.A., Gemicioglu, B., Fokkens, W.J., Ivancevich, J.C., Kraxner, H., Kvedariene, V., Larenas-Linnemann, D.E., Laune, D., Louis, R., Makris, M., Maurer, M., Melén, E., Micheli, Y., Morais-Almeida, M., Mullol, J., Niedozytko, M., Okamoto, Y., Papadopoulos, N.G., Patella, V., Pham-Thi, N., Rouadi, P.W., Sastre, J., Scichilone, N., Sheikh, A., Sofiev, M., Taborda-Barata, L., Toppila-Salmi, S., Tsiligianni, I., Valovirta,

- E., Ventura, M.T., Vieira, R.J., Zidarn, M., Amaral, R., Ansotegui, I.J., Bédard, A., Benveniste, S., Bewick, M., Bindselev-Jensen, C., Blain, H., Bonini, M., Bourret, R., Braido, F., Carreiro-Martins, P., Charpin, D., Cherrez-Ojeda, I., Chivato, T., Chu, D.K., Cingi, C., Del Giacco, S., de Blay, F., Devillier, P., De Vries, G., Doulaptsi, M., Doyen, V., Dray, G., Fontaine, J., Gomez, R.M., Hagemann, J., Heffler, E., Hofmann, M., Jassem, E., Jutel, M., Keil, T., Kritikos, V., Kull, I., Kulus, M., Lourenço, O., Mathieu-Dupas, E., Menditto, E., Mösges, R., Murray, R., Nadif, R., Neffen, H., Nicola, S., O’Hehir, R., Olze, H., Palamarchuk, Y., Pépin, J., Pétré, B., Picard, R., Pitsios, C., Puggioni, F., Quirce, S., Raciborski, F., Reitsma, S., Roche, N., Rodriguez-Gonzalez, M., Romantowski, J., Sá-Sousa, A., Serpa, F.S., Savouré, M., Shamji, M.H., Sova, M., Sperl, A., Stellato, C., Todo-Bom, A., Tomazic, P.V., Vandenplas, O., Van Eerd, M., Vasankari, T., Viart, F., Wasserman, S., Fonseca, J.A., Zuberbier, T., 2023. Digitally-enabled, patient-centred care in rhinitis and asthma multimorbidity: The ARIA-MASK-air[®] approach. *Clinical & Translational All* 13. <https://doi.org/10.1002/ct2.12215>
54. Maya-Manzano, J.M., Tummon, F., Abt, R., Allan, N., Bunderson, L., Clot, B., Crouzy, B., Daunys, G., Erb, S., Gonzalez-Alonso, M., Graf, E., Grewling, Ł., Haus, J., Kadantsev, E., Kawashima, S., Martinez-Bracero, M., Matavulj, P., Mills, S., Niederberger, E., Lieberherr, G., Lucas, R.W., O’Connor, D.J., Oteros, J., Palamarchuk, J., Pope, F.D., Rojo, J., Šaulienė, I., Schäfer, S., Schmidt-Weber, C.B., Schnitzler, M., Šikoparija, B., Skjøth, C.A., Sofiev, M., Stemmler, T., Triviño, M., Zeder, Y., Buters, J., 2023. Towards European automatic bioaerosol monitoring: Comparison of 9 automatic pollen observational instruments with classic Hirst-type traps. *Science of The Total Environment* 866, 161220. <https://doi.org/10.1016/j.scitotenv.2022.161220>
55. Bousquet, J., Shamji, M.H., Anto, J.M., Schünemann, H.J., Canonica, G.W., Jutel, M., Del Giacco, S., Zuberbier, T., Pfaar, O., Fonseca, J.A., Sousa-Pinto, B., Klimek, L., Czarlewski, W., Bedbrook, A., Amaral, R., Ansotegui, I.J., Bosnic-Anticevich, S., Braido, F., Loureiro, C.C., Gemicioglu, B., Haahtela, T., Kulus, M., Kuna, P., Kupczyk, M., Matricardi, P.M., Regateiro, F.S., Samolinski, B., Sofiev, M., Toppila-Salmi, S., Valiulis, A., Ventura, M.T., Barbara, C., Bergmann, K.C., Bewick, M., Blain, H., Bonini, M., Boulet, L., Bourret, R., Brusselle, G., Brussino, L., Buhl, R., Cardona, V., Casale, T., Cecchi, L., Charpin, D., Cherrez-Ojeda, I., Chu, D.K., Cingi, C., Costa, E.M., Cruz, A.A., Devillier, P., Dramburg, S., Fokkens, W.J., Gotua, M., Heffler, E., Ispayeva, Z., Ivancevich, J.C., Joos, G., Kaidashev, I., Kraxner, H., Kvedariene, V., Larenas-Linnemann, D.E., Laune, D., Lourenço, O., Louis, R., Makela, M., Makris, M., Maurer, M., Melén, E., Micheli, Y., Morais-Almeida, M., Mullol, J., Niedoszytko, M., O’Hehir, R., Okamoto, Y., Olze, H., Papadopoulos, N.G., Papi, A., Patella, V., Pétré, B., Pham-Thi, N., Puggioni, F., Quirce, S., Roche, N., Rouadi, P.W., Sá-Sousa, A., Sagara, H., Sastre, J., Scichilone, N., Sheikh, A., Sova, M., Ulrik, C.S., Taborda-Barata, L., Todo-Bom, A., Torres, M.J., Tsiligianni, I., Usmani, O.S., Valovirta, E., Vasankari, T., Vieira, R.J., Wallace, D., Wasserman, S., Zidarn, M., Yorgancioglu, A., Zhang, L., Chivato, T., Ollert, M., 2023. Patient-centred digital biomarkers for allergic respiratory diseases and asthma: the ARIA-EAACI approach. *Allergy* v.78, 7, pp.1756-1776. <https://doi.org/10.1111/all.15740>
56. Verstraeten, W.W., Bruffaerts, N., Kouznetsov, R., de Weger, L., Sofiev, M., Delcloo, A.W., (2023). Attributing long-term changes in airborne birch and grass pollen concentrations to climate change and vegetation dynamics. *Atmospheric Environment* 298, 119643. <https://doi.org/10.1016/j.atmosenv.2023.119643>
57. Beggs, P.J., Clot, B., Sofiev, M., Johnston, F.H., 2023. Climate change, airborne allergens, and three translational mitigation approaches. *eBioMedicine* 104478. <https://doi.org/10.1016/j.ebiom.2023.104478>

58. Di Napoli, C., Romanello, M., Minor, K., Chambers, J., Dasgupta, S., Escobar, L. E., Hang, Y., Hänninen, R., Liu, Y., Lotto Batista, M., Lowe, R., Murray, K. A., Owfi, F., Rabbaniha, M., Shi, L., Sofiev, M., Tabatabaei, M., and Robinson, E. J. Z.: The role of global reanalyses in climate services for health: Insights from the *Lancet* Countdown, *Meteorological Applications*, 30, <https://doi.org/10.1002/met.2122>, 2023
59. Li, Y., Tong, D., Ma, S., Freitas, S. R., Ahmadov, R., Sofiev, M., Zhang, X., Kondragunta, S., Kahn, R., Tang, Y., Baker, B., Campbell, P., Saylor, R., Grell, G., and Li, F. (2023): Impacts of estimated plume rise on PM_{2.5} exceedance prediction during extreme wildfire events: a comparison of three schemes (Briggs, Freitas, and Sofiev), *Atmos. Chem. Phys.*, 23, 3083–3101, <https://doi.org/10.5194/acp-23-3083-2023>, 2023.
60. Daunys, G., Šukienė, L., Vaitkevičius, L., Valiulis, G., Sofiev, M., and Šaulienė, I. (2022): Comparison of computer vision models in application to pollen classification using light scattering, *Aerobiologia*, <https://doi.org/10.1007/s10453-022-09769-0>.
61. Daalen, K. R. van, Romanello, M., Rocklöv, J., Semenza, J. C., Tonne, C., Markandya, A., Dasandi, N., Jankin, S., Achebak, H., Ballester, J., Bechara, H., Callaghan, M. W., Chambers, J., Dasgupta, S., Drummond, P., Farooq, Z., Gasparyan, O., Gonzalez-Reviriego, N., Hamilton, I., Hänninen, R., Kazmierczak, A., Kendrovski, V., Kennard, H., Kieseewetter, G., Lloyd, S. J., Batista, M. L., Martinez-Urtaza, J., Milà, C., Minx, J. C., Nieuwenhuijsen, M., Palamarchuk, J., Quijal-Zamorano, M., Robinson, E. J. Z., Scamman, D., Schmoll, O., Sewe, M. O., Sjödin, H., Sofiev, M., Solaraju-Murali, B., Springmann, M., Triñanes, J., Anto, J. M., Nilsson, M., and Lowe, R.: The 2022 Europe report of the Lancet Countdown on health and climate change: towards a climate resilient future, *The Lancet Public Health*, [https://doi.org/10.1016/S2468-2667\(22\)00197-9](https://doi.org/10.1016/S2468-2667(22)00197-9), 2022.
62. Romanello, M., Di Napoli, C., Drummond, P., Green, C., Kennard, H., Lampard, P., Scamman, D., Arnell, N., Ayeb-Karlsson, S., Ford, L. B., Belesova, K., Bowen, K., Cai, W., Callaghan, M., Campbell-Lendrum, D., Chambers, J., van Daalen, K. R., Dalin, C., Dasandi, N., Dasgupta, S., Davies, M., Dominguez-Salas, P., Dubrow, R., Ebi, K. L., Eckelman, M., Ekins, P., Escobar, L. E., Georgeson, L., Graham, H., Gunther, S. H., Hamilton, I., Hang, Y., Hänninen, R., Hartinger, S., He, K., Hess, J. J., Hsu, S.-C., Jankin, S., Jamart, L., Jay, O., Kelman, I., Kieseewetter, G., Kinney, P., Kjellstrom, T., Kniveton, D., Lee, J. K. W., Lemke, B., Liu, Y., Liu, Z., Lott, M., Batista, M. L., Lowe, R., MacGuire, F., Sewe, M. O., Martinez-Urtaza, J., Maslin, M., McAllister, L., McGushin, A., McMichael, C., Mi, Z., Milner, J., Minor, K., Minx, J. C., Mohajeri, N., Moradi-Lakeh, M., Morrissey, K., Munzert, S., Murray, K. A., Neville, T., Nilsson, M., Obradovich, N., O'Hare, M. B., Oreszczyn, T., Otto, M., Owfi, F., Pearman, O., Rabbaniha, M., Robinson, E. J. Z., Rocklöv, J., Salas, R. N., Semenza, J. C., Sherman, J. D., Shi, L., Shumake-Guillemot, J., Silbert, G., Sofiev, M., Springmann, M., Stowell, J., Tabatabaei, M., Taylor, J., Triñanes, J., Wagner, F., Wilkinson, P., Winning, M., Yglesias-González, M., Zhang, S., Gong, P., Montgomery, H., and Costello, A.: The 2022 report of the Lancet Countdown on health and climate change: health at the mercy of fossil fuels, *The Lancet*, S0140673622015409, [https://doi.org/10.1016/S0140-6736\(22\)01540-9](https://doi.org/10.1016/S0140-6736(22)01540-9), 2022.
63. Sofieva, S., Asmi, E., Atanasova, N. S., Heikkinen, A. E., Vidal, E., Duplissy, J., Romantschuk, M., Kouznetsov, R., Kukkonen, J., Bamford, D. H., Hyvärinen, A.-P., and Sofiev, M.: (2022) Effects of temperature and salinity on bubble-bursting aerosol formation simulated with a bubble-generating chamber, *Atmos. Meas. Tech.*, 15, 6201–6219, <https://doi.org/10.5194/amt-15-6201-2022>, 2022.
64. Frohn, L. M., 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., Plejdrup, M. S., Segersson, D., Sofiev, M., and Brandt,

- J.: Evaluation of multidecadal high-resolution atmospheric chemistry-transport modelling for exposure assessments in the continental Nordic countries, (2022) *Atmospheric Environment*, 290, 119334, <https://doi.org/10.1016/j.atmosenv.2022.119334>, 2022.
65. Meinander, O., Dagsson-Waldhauserova, P., Amosov, P., Aseyeva, E., Atkins, C., Baklanov, A., Baldo, C., Barr, S. L., Barzycka, B., Benning, L. G., Cvetkovic, B., Enchilik, P., Frolov, D., Gassó, S., Kandler, K., Kasimov, N., Kavan, J., King, J., Koroleva, T., Krupskaya, V., Kulmala, M., Kusiak, M., Lappalainen, H. K., Laska, M., Lasne, J., Lewandowski, M., Luks, B., McQuaid, J. B., Moroni, B., Murray, B., Möhler, O., Nawrot, A., Nickovic, S., O'Neill, N. T., Pejanovic, G., Popovicheva, O., Ranjbar, K., Romanias, M., Samonova, O., Sanchez-Marroquin, A., Schepanski, K., Semenov, I., Sharapova, A., Shevina, E., Shi, Z., Sofiev, M., Thevenet, F., Thorsteinsson, T., Timofeev, M., Umo, N. S., Uppstu, A., Urupina, D., Varga, G., Werner, T., Arnalds, O., and Vukovic Vimic, A.: (2022) Newly identified climatically and environmentally significant high-latitude dust sources, *Atmos. Chem. Phys.*, 22, 11889-11930, <https://doi.org/10.5194/acp-22-11889-2022>, 2022.
66. Zhang, W., Paatero, J., Leppänen, A.-P., Møller, B., Jensen, L. K., Gudnason, K., Sofiev, M., Anderson, P., Sickel, M., Burakowska, A., Kubicki, M., and Anderson, A.: (2022) Evaluation of ¹³⁷Cs, ¹³³Xe and ³H activity concentrations monitored in the Arctic atmosphere, *Journal of Environmental Radioactivity*, 253-254, 107013, <https://doi.org/10.1016/j.jenvrad.2022.107013>, 2022
67. Tummon, F., Bruffaerts, N., Celenk, S., Choël, M., Clot, B., Crouzy, B., Galán, C., Gilge, S., Hajkova, L., Mokin, V., O'Connor, D., Rodinkova, V., Sauliene, I., Sikoparija, B., Sofiev, M., Sozinova, O., Tesendic, D., and Vasilatou, K.: (2022) Towards standardisation of automatic pollen and fungal spore monitoring: best practises and guidelines, *Aerobiologia*, <https://doi.org/10.1007/s10453-022-09755-6>, 2022.
68. Varentsov, A.I., Stepanenko, V.M., Mortikov, E.V., Debolskiy, A.V., Kouznetsov, R.D., Sofiev, M., 2022. On the use of large-eddy simulation time data coarsening for dispersion forecasting in the SILAM atmospheric composition model. *IOP Conf. Ser.: Earth Environ. Sci.* 1023, 012008. <https://doi.org/10.1088/1755-1315/1023/1/012008>
69. Sofiev, M., Sofieva, S., Palamarchuk, J., Šaulienė, I., Kadantsev, E., Atanasova, N., Fatahi, Y., Kouznetsov, R., Kuula, J., Noreikaite, A., Peltonen, M., Pihlajamäki, T., Saarto, A., Svirskaitė, J., Toiviainen, L., Tyuryakov, S., Šukienė, L., Asmi, E., Bamford, D., Hyvärinen, A.-P., Karppinen, A., 2022. Bioaerosols in the atmosphere at two sites in Northern Europe in spring 2021: Outline of an experimental campaign. *Environmental Research* 214, 113798. <https://doi.org/10.1016/j.envres.2022.113798>
70. Sofieva, V.F., Hänninen, R., Sofiev, M., Szeląg, M., Lee, H.S., Tamminen, J., Retscher, C., 2022. Synergy of Using Nadir and Limb Instruments for Tropospheric Ozone Monitoring (SUNLIT). *Atmos. Meas. Tech.* 15, 3193–3212. <https://doi.org/10.5194/amt-15-3193-2022>
71. Verstraeten, W.W., Kouznetsov, R., Hoebeke, L., Bruffaerts, N., Sofiev, M., Delcloo, A.W., 2022. Reconstructing multi-decadal airborne birch pollen levels based on NDVI data and a pollen transport model. *Agricultural and Forest Meteorology* 320, 108942. <https://doi.org/10.1016/j.agrformet.2022.108942>
72. Partanen, T.M., Sofiev, M., 2022. Forecasting the regional fire radiative power for regularly ignited vegetation fires. *Nat. Hazards Earth Syst. Sci.* 22, 1335–1346. <https://doi.org/10.5194/nhess-22-1335-2022>
73. Karol Kuliński, Gregor Rehder, Eero Asmala, Alena Bartosova, Jacob Carstensen, Bo Gustafsson, Per O. J. Hall, Christoph Humborg, Tom Jilbert, Klaus Jürgens, Markus Meier, Bärbel Müller-Karulis, Michael Naumann, Jørgen E. Olesen, Oleg Savchuk, Andreas Schramm, Caroline P. Slomp, Mikhail Sofiev, Anna Sobek, Beata Szymczycha,

- and Emma Undeman (2022) Biogeochemical functioning of the Baltic Sea, *Earth System Dynamics*, v.13, issue 1, pp.633-685, DOI 10.5194/ESD-13-633-2022, <https://esd.copernicus.org/articles/13/633/2022/>.
74. Brenot, H., Theys, N., Clarisse, L., van Gent, J., Hurtmans, D.R., Vandenbussche, S., Papagiannopoulos, N., Mona, L., Virtanen, T., Uppstu, A., Sofiev, M., Bugliaro, L., Vázquez-Navarro, M., Hedelt, P., Parks, M.M., Barsotti, S., Coltelli, M., Moreland, W., Scollo, S., Salerno, G., Arnold-Arias, D., Hirtl, M., Peltonen, T., Lahtinen, J., Sievers, K., Lipok, F., Rüfenacht, R., Haefele, A., Hervo, M., Wagenaar, S., Som de Cerff, W., de Laat, J., Apituley, A., Stammes, P., Laffineur, Q., Delcloo, A., Lennart, R., Rokityansky, C.-H., Vargas, A., Kerschbaum, M., Resch, C., Zopp, R., Plu, M., Peuch, V.-H., Van Roozendaal, M., Wotawa, G., (2021) EUNADICS-AV early warning system dedicated to supporting aviation in the case of a crisis from natural airborne hazards and radionuclide clouds. *Natural Hazards and Earth System Sciences* 21, 3367–3405. <https://doi.org/10.5194/nhess-21-3367-2021>
75. Bousquet, J., Pfaar, O., Agache, I., Bedbrook, A., Akdis, CA., Canonica, GW., Chivato, T., Al-Ahmad, M., Latiff, AHA., Ansotegui, IJ., Bachert, C., Baharuddin, A., Bergmann, KC., Bindsev-Jensen, C., Bjermer, L., Bonini, M., Bosnic-Anticevich, S., Bosse, I., Brough, HA., Brussino, L., Calderon, MA., Caraballo, L., Cardona, V., Carreiro-Martins, P., Casale, T., Cecchi, L., Sarabia, AMC., Chkhartishvili, E., Chu, DK., Cirule, I., Cruz, AA., Czarlewski, W., del Giacco, S., Demoly, P., Devillier, P., Dokic, D., Durham, SL., Ebisawa, M., El-Gamalt, Y., Emuzyte, R., Gamkrelidze, A., Fauquert, JL., Fiocchi, A., Fokkens, WJ., Fonseca, JA., Fontaine, JF., Gawlik, R., Gelincik, A., Gemicioglu, B., Gereda, JE., van Wijk, RG., Gomez, RM., Gotua, M., Grisle, I., Guzman, MA., Haahtela, T., Halken, S., Heffler, E., Hoffmann-Sommergruber, K., Hossny, E., Hrubisko, M., Irani, C., Ivancevich, JC., Ispayeva, Z., Julge, K., Kaidashev, I., Kalayci, O., Khaitov, M., Klimek, L., Knol, E., Kowalski, ML., Kraxner, H., Kull, I., Kuna, P., Kvedariene, V., Kritikos, V., Lauerma, A., Lau, S., Laune, D., Levin, M., Larenas-Linnemann, DE., Carlsen, KCL., Lombardi, C., Lourenco, OM., Mahboub, B., Malling, HJ., Manning, P., Marshall, GD., Melen, E., Meltzer, EO., Miculinic, N., Milenkovic, B., Moin, M., Montefort, S., Morais-Almeida, M., Mortz, CG., Mosges, R., Mullol, J., Baranova, LN., Neffen, H., Nekam, K., Niedoszytko, M., Odemyr, M., O'Hehir, RE., Ollert, M., O'Mahony, L., Ohta, K., Okamoto, Y., Okubo, K., Pajno, GB., Palomares, O., Palkonen, S., Panzner, P., Papadopoulos, NG., Park, HS., Passalacqua, G., Patella, V., Pawankar, R., Pham-Thi, N., Plavec, D., Popov, TA., Recto, M., Regateiro, FS., Riggioni, C., Roberts, G., Rodriguez-Gonzales, M., Rosario, N., Rottem, M., Rouadi, PW., Ryan, D., Samolinski, B., Sanchez-Borgest, M., Serpa, FS., Sastre, J., Scadding, GK., Shamji, MH., Schmid-Grendelmeier, P., Schunemann, HJ., Sheikh, A., Scichilone, N., Sisul, JC., Sofiev, M., Sole, D., Sooronbaev, T., Soto-Martinez, M., Soto-Quiros, M., Sova, M., Schwarze, J., Skypala, I., Suppli-Ulrik, C., Taborda-Barata, L., Todo-Bom, A., Torres, MJ., Valentin-Rostan, M., Tomazic, PV., Valero, A., Toppila-Salmi, S., Tsiligianni, I., Untersmayr, E., Urrutia-Pereira, M., Valiulis, A., Valovirta, E., Vandenplas, O., Ventura, MT., Vichyanond, P., Wagenmann, M., Wallace, D., Walusiak-Skorupa, J., Wang, DY., Wasserman, S., Wong, GW., Yorgancioglu, A., Yusuf, OM., Zernotti, M., Zhang, L., Zidarn, M., Zuberbier, T., Jutel, M. (2021) ARIA-EAACI care pathways for allergen immunotherapy in respiratory allergy. *Clinical and Translational Allergy*. v.11, 4, DOI 10.1002/ctt2.12014
76. Masson, V, Bocher, E., Bucher, B., Chitu, Z., Christophe, S., Fortelius, C., Hamdi, R., Lemonsu, A., Perrels, A., Van Schaeybroeck, B., (2021) The Urban Climate Services URCLIM project. *Climate Services*, .v.20, DOI10.1016/j.cliser.2020.100194

77. Fatahi, Y., Kouznetsov, R., and Sofiev, M.: Effect of accounting for public holidays on skills of atmospheric composition model SILAM v.5.7 (2021) *Geosci. Model Dev.*, <https://gmd.copernicus.org/articles/14/7459/2021/>, 14, 7459 – 7475, <https://doi.org/10.5194/gmd-14-7459-2021>
78. Daunys, G., Šukiene, L. Vaitkevichius, L., Valiulis, G., Sofiev, M., Šauliene, I. (2021) Clustering approach for the analysis of the fluorescent bioaerosol collected by an automatic detector. *PLOIS One*, <https://doi.org/10.1371/journal.pone.0247284>
79. Damialis, A., Gilles, S., Sofiev, M., Sofieva, V. and Kolek, F. Bayr, D. Plaza, Maria P. Leier-Wirtz, V. Kaschuba, S. Ziska, L. H. Bielory, L. Makra, L., del Mar Trigo, M. Traidl-Hoffmann, C. (2021) Higher airborne pollen concentrations correlated with increased SARS-CoV-2 infection rates, as evidenced from 31 countries across the globe. *Proc. Nat. Academy of Science*, 118, 12, doi = 10.1073/pnas.2019034118, <https://www.pnas.org/content/118/12/e2019034118>.
80. Sofiev, M, Palamarchuk, Y, Bédard, A., Basagana, X., Anto, J.M., Kouznetsov, R., Delgado Urzua, R., Bergmann, K.C. Fonseca, J.A., De Vries, G., Van Erd, M., Annesi-Maesano, I., Laune, D., Pépin, J.L., Jullian-Desayes, I., Zeng, S., Czarlewski, W., Bousquet, J (2020) A demonstration project of Global Alliance against Chronic Respiratory Diseases: Prediction of interactions between air pollution and allergen exposure — the Mobile Airways Sentinel NetworK - Impact of air POLLution on Asthma and Rhinitis approach, *Chinese Medical Journal*, 133 (13), DOI 10.1097/CM9.0000000000000916.
81. Clot, B., Gilge, S., Hajkova, L. Magyar, D., Scheifinger, H., Sofiev, M., Butler, F., Tummon, F. (2020) The EUMETNET AutoPollen programme: establishing a prototype automatic pollen monitoring network in Europe. *Aerobiologia*. <https://doi.org/10.1007/s10453-020-09666-4>
82. Hamudat A. Balogun, Aino K. Rantala, Harri Antikainen⁴, Nazeeba Siddika, A. Kofi Amegah, Niilo R. I. Rytö, Jaakko Kukkonen, Mikhail Sofiev, Maritta S. Jaakkola, and Jouni J. K. Jaakkola (2020) Effects of Air Pollution on the Risk of Low BirthWeight in a Cold Climate. *Appl. Sci.* 10, 6399; doi:10.3390/app10186399.
83. Willem W. Verstraeten, Kouznetsov, R., Hoebeke, L., Bruffaerts, N., Sofiev, M., Delcloo, A.W. (2020) Modelling grass pollen levels in Belgium. *Sci. Tot. Envir.*, <https://doi.org/10.1016/j.scitotenv.2020.141903>, Volume 753, 20 January 2021, 141903.
84. Kukkonen, J., Savolahti, M., Palamarchuk, Y., Lanki, T., Nurmi, V., Paunu, V.-V., Kangas, L., Sofiev, M., Karppinen, A., Maragkidou, A., Tiittanen, P., and Karvosenoja, N. (2020) Modelling of the public health costs of fine particulate matter and results for Finland in 2015, *Atmos. Chem. Phys.*, 20, 9371–9391, <https://doi.org/10.5194/acp-20-9371-2020>.
85. Bousquet, J., Anto, J.M., Bachert, C., Haahtela, T., Zuberbier, T., Czarlewski, W., Bedbrook, A., Bosnic-Anticevich, S., Walter Canonica, G., Cardona, V., ElisioCosta, Cruz, A.A., Erhola, M., Fokkens, W.J., Fonseca, J.A., Illario, M., CarlosIvancevich, J., Jutel, M., Klimek, L., PiotrKuna, Kvedariene, V., Le, L., Larenas-Linnemann, D., Laune, D., Lourenço, O.M., Melén, E., Mullol, J., Niedoszytko, M., Odemyr, M., Okamoto, Y., Papadopoulos, N.G., Patella, V., Pfaar, O., Pham-Thi, N., Rolland, C., Samolinski, B., Sheikh, A., **Sofiev, M.**, SuppliUlrik, C., Todo-Bom, A., Tomazic, P.V., Toppila-Salmi, S., Tsiligianni, I., Valiulis, A., Valovirta, E., Ventura, M.-T., Walker, S., Williams, S., Yorgancioglu, A., Agache, I., Akdis, C.A., Almeida, R., Ansotegui, I.J.,

Annesi-Maesano, I., Arnavielhe, S., Basagaña, X., Bateman, E., Bédard, A., Bedolla-Barajas, M., Becker, S., Bennoor, K.S., Benveniste, S., Bergmann, K.C., Bewick, M., Bialek, S., Billo, N., Bindslev-Jensen, C., Bjermer, L., Blain, H., Bonini, M., Bonniaud, P., Bosse, I., Bouchard, J., Boulet, L.P., Bourret, R., Boussery, K., Braido, F., Briedis, V., Briggs, A., Brightling, C.E., JanBrozek, , Brusselle, G., Brussino, L., Buhl, R., Buonaiuto, R., Calderon, M.A., Camargos, P., Camuzat, T., Caraballo, L., Carriazo, A.M., Carr, W., Cartier, C., Casale, T., Cecchi, L., Cepeda Sarabia, A.M., Chavannes, N., Chkhartishvili, E., Chu, D.K., Cingi, C., Correia de Sousa, J., Costa, D.J., Courbis, A.L., Custovic, A., Cvetkosvki, B., D'Amato, G., da Silva, J., Dantas, C., Dokic, D., Dauvilliers, Y., De Feo, G., De Vries, G., Devillier, P., Di Capua, S., Dray, G., Dubakienė, R., Durham, S.R., Dykewicz, M., Ebisawa, M., Gaga, M., El-Gamal, Y., Heffler, E., Emuzyte, R., Farrell, J., Fauquert, J.-L., Fiocchi, A., Fink-Wagner, A., Fontaine, J.-F., Fuentes Perez, J.M., Gemicioğlu, B., Gamkrelidze, A., Garcia-Aymerich, J., Gevaert, P., Gomez, M., González Diaz, S., Gotua, M., Guldemond, N.A., Guzmán, M.-A., Hajjam, J., Huerta Villalobos, Y.R., Humbert, M., Iaccarino, G., Ierodiakonou, D., TomohisaInuma, , Jassem, E., Joos, G., Jung, K.-S., Kaidashev, I., Kalayci, O., Kardas, P., Keil, T., Khaitov, M., Khaltaev, N., Kleine-Tebbe, J., **Kouznetsov, R.**, Kowalski, M.L., Kritikos, V., Kull, I., La Grutta, S., Leonardini, L., Ljungberg, H., Lieberman, P., Lipworth, B., Lodrup Carlsen, K.C., Lopes-Pereira, C., Loureiro, C.C., Louis, R., Mair, A., Mahboub, B., Makris, M., Malva, J., Manning, P., Marshall, G.D., Masjedi, M.R., Maspero, J.F., Carreiro-Martins, P., Makela, M., Mathieu-Dupas, E., Maurer, M., De Manuel Keenoy, E., Melo-Gomes, E., Meltzer, E.O., Menditto, E., Mercier, J., Micheli, Y., Miculinic, N., Mihaltan, F., Milenkovic, B., Mitsias, D., Moda, G., Mogica-Martinez, M.-D., Mohammad, Y., Montefort, S., Monti, R., Morais-Almeida, M., Mösges, R., Münter, L., Muraro, A., Murray, R., Naclerio, R., Napoli, L., Namazova-Baranova, L., Neffen, H., Nekam, K., Neou, A., Nordlund, B., Novellino, E., Nyembue, D., O'Hehir, R., Ohta, K., Okubo, K., Onorato, G.L., Ouedraogo, S., **Palamarchuk, J.**, Pali-Schöll, I., Panzner, P., Park, H.-S., Passalacqua, G., Pépin, J.-L., Paulino, E., Phillips, J., Picard, R., Pinnock, H., Plavec, D., Popov, T.A., Portejoie, F., Price, D., Prokopakis, E.P., Psarros, F., Pugin, B., Puggioni, F., Quinones-Delgado, P., Raciborski, F., Rajabian-Söderlund, R., Regateiro, F.S., Reitsma, S., Rivero-Yeverino, D., Roberts, G., Roche, N., Rodriguez-Zagal, E., Rolland, C., Roller-Wirnsberger, R.E., Rosario, N., Romano, A., Rottem, M., Ryan, D., Salimäki, J., Sanchez-Borges, M.M., Sastre, J., Scadding, G.K., Scheire, S., Schmid-Grendelmeier, P., Schünemann, H.J., Serpa, F., Shamji, M., Sisul, J.-C., Sofiev, M., Solé, D., Somekh, D., Sooronbaev, T., Sova, M., Spertini, F., Spranger, O., Stellato, C., Stelmach, R., Thibaudon, M., To, T., MondherToumi, , Usmani, O., Valero, A., Valenta, R., Valentin-Rostan, M., van der Kleij, R., Van Eerd, M., Vandenplas, O., Vasankari, T., Vaz Carneiro, A., Vezzani, G., Viart, F., Viegli, G., Wallace, D., Wagenmann, M., Wang, D.Y., Wasserman, S., Wickman, M., Williams, D.M., Wong, G., Wroczynski, P., Yiallourous, P.K., Yusuf, O.M., Zar, H.J., Zeng, S., Zernotti, M.E., Zhang, L., Zhong, N.S. and Zidarn, M. (2020), ARIA digital anamorphosis: Digital transformation of health and care in airway diseases from research to practice. Allergy., doi:[10.1111/all.14422](https://doi.org/10.1111/all.14422)

86. Jean Bousquet, Josep M. Anto, Tari Haahtela, Pekka Jousilahti, Marina Erhola, Xavier Basagaña, Wienczysława Czarlewski, Mikaëla Odemyr, Susanna Palkonen, Mikael Sofiev, César Velasco, Anna Bedbrook, Rodrigo Delgado, Rostislav Kouznetsov, Mika Mäkelä, Yuliia Palamarchuk, Kimmo Saarinen, Erja Tommila, Erkka Valovirta, Tuula Vasankari, Torsten Zuberbier, Isabella Annesi-Maesano, Samuel Benveniste, Eve Mathieu-Dupas, Jean-Louis Pépin, Robert Picard, Stéphane Zeng, Julia Ayache, Nuria Calves Venturos, Yann Micheli, Ingrid Jullian-Desayes Daniel Laune (2020) Digital

- transformation of health and care to sustain Planetary Health: The MASK proof-of-concept for airway diseases—POLLAR symposium under the auspices of Finland's Presidency of the EU, 2019 and MACVIA-France, Global Alliance against Chronic Respiratory Diseases (GARD, WHO) demonstration project, Reference Site Collaborative Network of the European Innovation Partnership on Active and Healthy Ageing. *Clinical and Translational Allergy*, 10 :24 <https://doi.org/10.1186/s13601-020-00321-2>.
87. Meinander, Outi, Anna Kontu, Rostislav Kouznetsov and Mikhail Sofiev (2020) Snow Samples Combined With Long-Range Transport Modeling to Reveal the Origin and Temporal Variability of Black Carbon in Seasonal Snow in Sodankylä (67°N). *Front. Earth Sci.*, **8**, pp.1-11, <https://doi.org/10.3389/feart.2020.00153>
 88. Hirtl, Markus, Delia Arnold, Rocio Baro, Hugues Brenot, Mauro Coltelli, Kurt Eschbacher, Helmut Hard-Stremayer, Florian Lipok, Christian Maurer, Dieter Meinhard, Lucia Mona, Marie D. Mulder, Nikolaos Papagiannopoulos, Michael Pernsteiner, Matthieu Plu, Lennart Robertson, Carl-Herbert Rokitansky, Barbara Scherllin-Pirscher, Klaus Sievers, Mikhail Sofiev, Wim Som de Cerff, Martin Steinheimer, Martin Stuefer, Nicolas Theys, Andreas Uppstu, Saskia Wagenaar, Roland Winkler, Gerhard Wotawa, Fritz Zobl, and Raimund Zopp (2020) A volcanic hazard demonstration exercise to assess and mitigate the impacts of volcanic ash clouds on civil and military aviation. *Natural hazards and earth system sciences*, **20**, 1719–1739. <https://doi.org/10.5194/nhess-20-1719-2020> .
 89. Mar Viana, Valeria Rizza, Aurelio Tobias, Edward Carr, James Corbett, Mikhail Sofiev, Angeliki Karanasiou, Giorgio Buonanno, Neal Fann (2020) Estimated health impacts from maritime transport in the Mediterranean region and benefits from the use of cleaner fuels. *Environment International*, 138, 105670, ENVINT_2019_4363_R1, <https://doi.org/10.1016/j.envint.2020.105670>
 90. Bédard, Annabelle, Mikhail Sofiev, Sylvie Arnavielhe, Josep M. Antó, Judith Garcia-Aymerich, Michel Thibaudon, Karl Christian Bergmann, Ruta Dubakiene, Anna Bedbrook, Gabrielle L. Onorato, Isabella Annesi-Maesano, Jean-Louis Pépin, Daniel Laune, Stéphane Zeng, Jean Bousquet, Xavier Basagaña (2020) Interactions Between Air Pollution and Pollen Season for Rhinitis Using Mobile Technology: A MASK-POLLAR Study. *Journal of Allergy and Clinical Immunology: In Practice*, 8, 3, 1063-1073, ISSN 2213-2198, <https://doi.org/10.1016/j.jaip.2019.11.022>, <http://www.sciencedirect.com/science/article/pii/S2213219819309626>
 91. Siddika, Nazeeba, Aino K. Rantala, Harri Antikainen, Hamudat Balogun, A. Kofi Amegah, Niilo R.I. Ryti, Jaakko Kukkonen, Mikhail Sofiev, Maritta S. Jaakkola, Jouni J.K. Jaakkola, (2020) Short-term prenatal exposure to ambient air pollution and risk of preterm birth - A population-based cohort study in Finland, *Environmental Research*, 184, 109290, <https://doi.org/10.1016/j.envres.2020.109290> <http://www.sciencedirect.com/science/article/pii/S0013935120301833>
 92. Blechschmidt, A.-M. and Arteta, J. and Coman, A. and Curier, L. and Eskes, H. and Foret, G. and Gielen, C. and Hendrick, F. and Mar'ecal, V. and Meleux, F. and Parmentier, J. and Peters, E. and Pinardi, G. andmaty Piters, A. J. M. and Plu, M. and Richter, A. and Sofiev, M. and Valdebenito, 'A. M. and Van Roozendael, M. and Vira, J. and Vlemmix, T. and Burrows, J. P. (2020) Comparison of tropospheric NO₂ columns from MAX-DOAS retrievals and regional air quality model simulations, *Atmosph. Chem. and Phys.*, 20, 2795–2823,, <https://www.atmos-chem-phys.net/20/2795/2020/>, <https://doi.org/10.5194/acp-20-2795-2020>

93. Pfaar O, Karatzas K, Bastl K, Berger U, Buters J, Darsow U, Demoly P, Durham SR, Galán C, Gehrig R, Gerth van Wijk R, Jacobsen L, Katsifarakis N, Klimek L, Saarto A, Sofiev M, Thibaudon M, Werchan B, Bergmann KC (2020) Pollen season is reflected on symptom load for grass and birch pollen-induced allergic rhinitis in different geographic areas - an EAACI Task Force Report. *Allergy*. **75**, 1099-1106, doi: 10.1111/all.14111.
94. Kukkonen, J., López-Aparicio, S., Segersson, D., Geels, C., Kangas, L., Kauhaniemi, M., Maragkidou, A., Jensen, A., Assmuth, T., Karppinen, A., Sofiev, M., Hellen, H., Riikonen, K., Nikmo, J., Kousa, A., Niemi, J. V., Karvosenoja, N., Santos, G. S., Sundvor, I., Im, U., Christensen, J. H., Nielsen, O.-K., Plejdrup, M. S., Nøjgaard, J. K., Omstedt, G., Andersson, C., Forsberg, B., and Brandt, J., 2020: The influence of residential wood combustion on the concentrations of PM_{2.5} in four Nordic cities, *Atmos. Chem. Phys.*, **20**, 4333–4365, 2020. <https://doi.org/10.5194/acp-20-4333-2020>.
95. Kouznetsov, R., Sofiev, M., Vira, J., and Stiller, G. (2020) Simulating age of air and distribution of SF₆ in the stratosphere with SILAM model, *Atmos. Chem. Phys.*, v.**20**, issue 9, pp. 5837-5859, DOI 10.5194/acp-20-5837-2020, <https://www.atmos-chem-phys.net/20/5837/2020/>
96. Sofiev, M., Kouznetsov, R., Hänninen, R., and Sofieva, V. F. (2020): Technical Note: Intermittent reduction of the stratospheric ozone over Northern Europe caused by a storm in Atlantic Ocean, *Atmos. Chem. Phys.*, **20**, 1839–1847, <https://www.atmos-chem-phys.net/20/1839/2020/>, <https://doi.org/10.5194/acp-20-1839-2020>
97. Kurganskiy, A., Skjøth, C. A., Baklanov, A., Sofiev, M., Saarto, A., Severova, E., Smyshlyaev, S., and Kaas, E. (2020) Incorporation of pollen data in source maps is vital for pollen dispersion models, *Atmos. Chem. Phys.*, **20**, 2099–2121, <https://doi.org/10.5194/acp-20-2099-2020>.
98. Oteros, J., Sofiev, M., Smith, M., Clot, B., Damialis, A., Prank, M., Werchan, M., Wachter, R., Weber, A., Kutzora, S., Heinze, S., Herr, C.E.W., Menzel, A., Bergmann, K.-C., Traidl-Hoffmann, C., Schmidt-Weber, C.B., Buters, J.T.M. (2019). Building an automatic pollen monitoring network (ePIN): Selection of optimal sites by clustering pollen stations. *Science of the total environment* **688**, 1263–1274. <https://doi.org/10.1016/j.scitotenv.2019.06.131>
99. Predrag Lugonja, Sanja Brdar, Isidora Simović, Gordan Mimić, Julia Palamarchuk, Mikhail Sofiev, and Branko Šikoparija (2019) Integration of in situ and satellite data for top-down mapping of Ambrosia infection level. *Remote Sensing of Environment*, **235** 111455, <https://doi.org/10.1016/j.rse.2019.111455> .
100. Willem W. Verstraeten, Sébastien Dujardin, Lucie Hoebeke, Nicolas Bruffaerts, Rostislav Kouznetsov, Nicolas Dendoncker, Rafiq Hamdi, Catherine Linard, Marijke Hendrickx, Mikhail Sofiev, Andy W. Delcloo (2019) Spatio-temporal monitoring and modelling of birch pollen levels in Belgium. *Aerobiologia*. **35**, pp. 703–717, <https://doi.org/10.1007/s10453-019-09607-w>, .
101. Karl, Matthias, Jonson, Jan Eiof, Uppstu, Andreas, Auling, Armin, Prank, Marje, Sofiev, Mikhail, Jalkanen, Jukka-Pekka, Johansson, Lasse, Quante, Markus, Matthias, Volker (2019) Effects of ship emissions on air quality in the Baltic Sea region simulated with three different chemistry transport models, *Atmos. Chem. Phys.*, **19**, 7019–7053, 2019, <https://doi.org/10.5194/acp-19-7019-2019>
102. Korhonen, A., Lehtomäki, H., Rumrich, I., Karvosenoja, N., Paunu, V-V, Kupiainen, K., Sofiev, M., Palamarchuk, J., Kukkonen, J., Kangas, L., Karppinen, A.,

- Hänninen, O. (2019) Influence of spatial resolution on population PM2.5 exposure and health impacts, *Air Qual Atmos Health* (2019) 12: 705, DOI: <https://doi.org/10.1007/s11869-019-00690-z>
103. Sofiev, M. (2019) On possibilities of assimilation of near-real-time pollen data by atmospheric composition models. *Aerobiologia*, DOI: 10.1007/s10453-019-09583-1, <http://link.springer.com/article/10.1007/s10453-019-09583-1>, 35(3), 523-531.
104. Anna Katinka Petersen, Guy P. Brasseur, Idir Bouarar, Johannes Flemming, Michael Gauss, Fei Jiang, Rostislav Kouznetsov, Richard Kranenburg, Bas Mijling, Vincent-Henri Peuch, Matthieu Pommier, Arjo Segers, Mikhail Sofiev, Renske Timmermans, Ronald van der A, Stacy Walters, Ying Xie, Jianming Xu, Guangqiang Zhou (2019) Ensemble forecasts of air quality in eastern China – Part 2: Evaluation of the MarcoPolo–Panda prediction system, version 1, *Geosci. Model Dev.*, 12, 1241–1266, 2019, <https://doi.org/10.5194/gmd-12-1241-2019>
105. Peng Xian, Jeffrey S. Reid, Edward J. Hyer, Charles R. Sampson, Juli I. Rubin, Melanie Ades, Nicole Asencio, Sara Basart, Angela Benedetti, Partha Bhattacharjee, Malcolm E. Brooks, Peter R. Colarco, Arlindo Da Silva, Tom F. Eck, Jonathan Guth, Oriol Jorba, Rostislav Kouznetsov, Zak Kipling, Mikhail Sofiev, Carlos Perez Carcia-Pando, Yaswant Pradhan, Taichu Tanaka, Jun Wang, Douglas L. Westphal, Keiya Yumimoto, Jianglong Zhang (2019) Current State of the global operational aerosol multi-model ensemble: an update from the International Cooperative for Aerosol Prediction (ICAP). *QJRMS*, <https://doi.org/10.1002/qj.3497>, 145, 176-209
106. Šaulienė, Ingrida , Šukienė, Laura, Daunys, Gintautas, Valiulis, Gediminas, Vaitkevičius, Lukas, Matavulj, Predrag, Brdar, Sanja, Panic, Marko, Sikoparija, Branko, Clot, Bernard, Crouzy, Benoît, Sofiev, Mikhail (2019) Automatic pollen recognition with the Rapid-E particle counter: the first-level procedure, experience and next steps, *Atmosph.Meas.Technique*, 12, 3435-3452, <https://doi.org/10.5194/amt-12-3435-2019>.
107. Brasseur, Guy P., Xie, Ying, Petersen, Katinka, Bouarar, Idir, Flemming , Johannes, Gauss , Michael, Jiang , Fei, Kouznetsov , Rostislav, Kranenburg, Richard, Mijling, Bas, Peuch , Vincent-Henri, Pommier, Matthieu, Segers, Arjo, Sofiev, Mikhail, Timmermans, Renske, van der A, Ronald, Walters, Stacy, Xu, Jianming, Zhou, Guanhqiang (2019) Ensemble Forecasts of Air Quality in Eastern China - Part 1. Model Description and Implementation of the MarcoPolo-Panda Prediction System. *Geosci. Model Dev.*, 12, 33–67, 2019, <https://doi.org/10.5194/gmd-12-33-2019>
108. Jylhä, Kirsti, Kämäräinen, Matti, Fortelius, Carl, Gregow, Hilppa, Helander, Juho, Hyvärinen, Otto, Johansson, Milla, Karppinen, Ari, Korpinen, Anniina, Kouznetsov, Rostislav, Kurzeneva, Ekaterina, Leijala, Ulpu, Mäkelä, Antti, Pellikka, Havu, Saku, Seppo, Sandberg, Jorma, Sofiev, Mikhail, Vajda, Andrea, Vira, Julius (2018) Recent meteorological and marine studies to support nuclear power plant safety in Finland. *Energy*, **165A**, pp.1102-1118, <https://doi.org/10.1016/j.energy.2018.09.033>
109. Beukes, J.P., Van Zyl, P.G., Sofiev, M., Soares, J., Liebenberg-Enslin, H., Shackleton, N., and Sundström, A.-M. (2018) The use of satellite observations of fire radiative power to estimate the availabilities (activity patterns) of pyrometallurgical smelters. *The Journal of South-African Institute of Mining and Metallurgy*. 118, 619-624. <http://dx.doi.org/10.17159/2411-9717/2018/v118n6a9>.
110. Kukkonen, J., Kangas,L., Kauhaniemi, M., Sofiev, M., Aarnio, M., Jaakkola, J.J.K., Kousa, A, and Karppinen, A. (2018) Modelling of the urban concentrations of PM2.5 for

- a period of 35 years, for the assessment of lifetime exposure and health effects. *Atmos. Chem. Phys.*, 18, 8041–8064, 2018. <https://doi.org/10.5194/acp-18-8041-2018>.
111. Lehtomäki, H., Korhonen, A., Asikainen, A., Karvosenoja, N., Kupiainen, K., Paunu, V.-V., Savolahti, M., Sofiev, M., Palamarchuk, Y., Karppinen, A., Kukkonen, J., Hänninen, O. (2018) Health impacts of ambient air pollution in Finland. *Int J Environ Res Public Health*. 2018 Apr 12;15(4). pii: E736. doi: 10.3390/ijerph15040736.
 112. Sofiev, M., Winebrake, J.J., Johansson, L., Carr, E.W., Prank, M., Soares, J., Vira, J., Kouznetsov, R., Jalkanen, J.-P., Corbett, J.-J. (2018) Cleaner fuels for ships provide public health benefits with climate tradeoffs. *Nature Comm*. DOI: 10.1038/s41467-017-02774-9, www.nature.com/naturecommunications.
 113. Pfaar, O., Bastl, K., Berger, U., Buters, J., Calderon, M. A., Clot, B., Darsow, U, Demoly, P., Durham, S. R., Galan, C., Gehrig, R., Gerth van Wijk, R., Jacobsen, L. Klimek, L., Sofiev, M., Thibaudon, M., Bergmann, K.-C. (2017) Defining pollen exposure times for clinical trials of allergen immunotherapy for pollen-induced rhinoconjunctivitis – an EAACI position paper. *Allergy*, 72 : 5, pp. 713-722.
 114. Galan, C. Ariatti, A. Bonini, M., Clot, B., Crouzy, B., Dahl, A., Fernandez-Gonzalez, D., Frenguelli, G., Gehrig, R., Isard, S., Levetin, E., Li, D. W., Mandrioli, P. Rogers, C. A., Thibaudon, M., Sauliene, I., Skjoth, C., Smith, M., Sofiev, M. (2017) Recommended terminology for aerobiological studies. *Aerobiologia*, DOI 10.1007/s10453-017-9496-0, v. 33, pp. 293–295.
 115. Ritenberga, O., Sofiev, M., Siljamo, P., Saarto, A., Dahl, A., Ekebom, A., Sauliene, I., Shalaboda, V., Severova, E., Hoebeke, L., Ramfjord, H. (2017) A statistical model for predicting the inter-annual variability of birch pollen abundance in Northern and North-Eastern Europe. *Science of total environment.*, 615, 10.1016/j.scitotenv.2017.09.061.
 116. Rémy, S., Veira, A., Paugam, R., Sofiev, M., Kaiser, J. W., Marengo, F., Burton, S. P., Benedetti, A., Engelen, R. J., Ferrare, R., and Hair, J. W. (2017) Two global climatologies of daily fire emission injection heights since 2003, *Atmos. Chem. Phys.* 17, 2921-2942, <http://www.atmos-chem-phys.net/17/2921/2017/>, doi:10.5194/acp-17-2921-2017.
 117. Sofiev, M., Ritenberga, O., Albertini, R., Arteta, J., Belmonte, J., Bonini, M., Celenk, S., Damialis, A., Douros, J., Elbern, H., Friese, E., Galan, C., Gilles, O., Hrga, I., Kouznetsov, R., Krajsek, K., Parmentier, J., Plu, M., Prank, M., Robertson, L., Steensen, B. M., Thibaudon, M., Segers, A., Stepanovich, B., Valdebenito, A. M., Vira, J., and Vokou, D.: (2017) Multi-model ensemble simulations of olive pollen distribution in Europe in 2014, *Atmos. Chem. Phys.*, doi:10.5194/acp-2016-1189, <https://www.atmos-chem-phys.net/17/12341/2017/acp-17-12341-2017.html> .
 118. Vira, J., Carboni, E., Grainger, R.G., Sofiev, M., (2017) Variational assimilation of IASI SO₂ plume height and total-column retrievals in the 2010 eruption of Eyjafjallajökull using the SILAM v5.3 chemistry transport model. *Geosci. Model Dev.*, 10, 1985–2008, www.geosci-model-dev.net/10/1985/2017/, doi:10.5194/gmd-10-1985-2017.
 119. Sofiev, M., (2017) On impact of transport conditions on variability of the seasonal pollen index. *Aerobiologia*, 33, 1, pp. 167–179, DOI: 10.1007/s10453-016-9459-x.
 120. Antturi, J. Hänninen, O., Jalkanen, J-P, Johansson, L., Prank, M., Sofiev, M., Ollikainen, M. (2017) Costs and benefits of low-sulphur fuel standard for Baltic Sea shipping. *JEnvir.Management*, 184 431-440.

121. Sofiev, M., Prank, M. (2016) 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, Cambridge, ISBN 978-1-107-04893-5, chapter 4 pp. 50-74, book viii + 201 pp.
122. Prank, M., Sofiev, M., Tsyro, S., Hendriks, C., Semeena, V., Vazhappilly Francis, X., Butler, T., Denier van der Gon, H., Friedrich, R., Hendricks, J., Kong, X., Lawrence, M., Righi, M., Samaras, Z., Sausen, R., Kukkonen, J., and Sokhi, R. (2016) Evaluation of the performance of four chemical transport models in predicting the aerosol chemical composition in Europe in 2005, *Atmos. Chem. Phys.*, **16**, 6041-6070, doi:10.5194/acp-16-6041-2016.
123. Ritenberga, O., Sofiev, M., Kirillova, V., Kalnina, L., Genikhovich, E. (2016) Statistical modelling of non-stationary processes of atmospheric pollution from natural sources: example of birch pollen. *Agriculture and Forest Meteorol.* v.**226–227**, pp.96–107.
124. Soares, J., Sofiev, M., Geels, C., Christensen, J.H., Anderson, C., Tsyro, S., Langner, J. (2016) Impact of climate change on the production and transport of sea salt aerosol on European seas. *ACP*, 16, 13081-13104, doi :10.5194/acp-16-13081-2016.
125. Kollanus, V., Prank, M., Gens, A., Soares, J., Vira, J., Kukkonen, J., Sofiev, M., Salonen, R.O., Lanki, T. (2016) Mortality due to vegetation-fire originated PM_{2.5} exposure in Europe – assessment for the years 2005 and 2008. *Environ. health prospective*. 125 (1) 30-37. DOI: 10.1289/EHP194.
126. Bastl, K., Kmenta, M., Pessi, A.-M., Prank, M., Saarto, A., Sofiev, M., Bergmann, K.-C., Buters, J.T.M., Thibaudon, M., Jäger, S,† Berger, U. (2016) First comparison of symptom data with allergen content (Bet v 1 and Phl p 5 measurements) and pollen data from four European regions during 2009-2011. *Science of total environ.*, 548-549, pp. 229-235, <http://dx.doi.org/10.1016/j.scitotenv.2016.01.014>.
127. Hjort, J., Hugg, T.T., Antikainen, H., Rusanen, J. Sofiev, M. Kukkonen, J., Jaakkola, M.S., Jaakkola, J.J.K (2016) Fine-Scale Exposure to Allergenic Pollen in the Urban Environment: Evaluation of Land Use Regression Approach. *Environ. Health Perspectives*, **124**, 5, 619-626, <http://dx.doi.org/10.1289/ehp.1509761>.
128. Colette, A. Andersson, C., Baklanov, A., Bessagnet, B., Brandt, J., Christensen, J.H., Doherty, R., Engardt, M., Geels, C., Giannakopoulos, C., Hedegaard, G.B., Katragkou, E., Langner, J., Lei, H., Manders, A., Melas, D., Meleux, F., Rouïl, L., Sofiev, M., Soares, J, Stevenson, D.S., Tombrou-Tzella, M., Varotsos, K.V. Young, P. (2015) Is ozone climate penalty robust for Europe? *Environ. Res. Lett.* 10 (2015), doi:10.1088/1748-9326/10/8/084015.
129. Toll, V., Reis, K., Ots, R., Kaasik, M., Männik, A., Prank, M., Sofiev, M. (2015) SILAM and MACC reanalysis aerosol data used for simulating the aerosol direct radiative effect with the NWP model HARMONIE for summer 2010 wildfire case in Russia. *Atm.Env.*, **121**, pp.75–85, doi:10.1016/j.atmosenv.2015.06.007
130. Sofiev, M., Berger, U., Prank, M., Vira, J., Arteta, J., Belmonte, J., Bergmann, K.-C., Chéroux, F., Elbern, H., Friese, E., Galan, C., Gehrig, R., Khvorostyanov, D., Kranenburg, R., Kumar, U., Marécal, V., Meleux, F., Menut, L., Pessi, A.-M., Robertson, L., Ritenberga, O., Rodinkova, V., Saarto, A., Segers, A., Severova, E., Sauliene, I., Siljamo, P., Steensen, B. M., Teinmaa, E., Thibaudon, M., and Peuch, V.-H. (2015) MACC regional multi-model ensemble simulations of birch pollen dispersion in Europe,

- Atmos. Chem. Phys., 15, 8115-8130, doi:10.5194/acp-15-8115-2015, <http://www.atmos-chem-phys.net/15/8115/2015/>.
131. Bocquet, M., Elbern, H., Eskes, H., Hirtl, M., Žabkar, R., Carmichael, G. R., Flemming, J., Inness, A., Pagowski, M., Pérez Camañó, J. L., Saide, P. E., San Jose, R., Sofiev, M., Vira, J., Baklanov, A., Carnevale, C., Grell, G., Seigneur, C. (2015) Data assimilation in atmospheric chemistry models: current status and future prospects for coupled chemistry meteorology models. *Atmos. Chem. Phys.*, 15, 5325-5358, www.atmos-chem-phys.net/15/5325/2015/doi:10.5194/acp-15-5325-2015.
 132. Sofiev, M., Vira, J., Kouznetsov, R., Prank, M., Soares, J., Genikhovich, E. (2015) Construction of the SILAM Eulerian atmospheric dispersion model based on the advection algorithm of Michael Galperin, *Geosci. Model Developm.* 8, 3497-3522, doi:10.5194/gmd-8-3497-2015.
 133. 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., Friese, 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. (2015) A regional air quality forecasting system over Europe: the MACC-II daily ensemble production. *Geosci. Model Dev.*, 8, 2777-2813, 2015 www.geosci-model-dev.net/8/2777/2015/ doi:10.5194/gmd-8-2777-2015.
 134. Soares, J., Sofiev, M., Hakkarainen, J. (2015) Uncertainties of wild-land fires emission in AQMEII phase 2 case study. *Atmosph. Environ.*, doi:10.1016/j.atmosenv.2015.01.068.
 135. 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*, <http://dx.doi.org/10.1016/j.jaci.2015.01.049>, 136, pp.87-95, 95.e1-95.e6.
 136. 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.
 137. 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.
 138. 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.
139. 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/>.
140. 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.
141. 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.
142. 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.
143. 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.
144. 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/>.
145. 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>
146. Berger, U., Karatzas, K., Jaeger, S., Voukantsis, D., Sofiev, M., Smith, M., Brandt, O., Zuberbier, T., Bergmann, K.C. (2013) Personalized pollen-related symptom-forecast information services for patients with allergic rhinitis in Europe *Allergy*, **68**, 963-965, doi: 10.1111/all.12181.
147. Galan, C., Antunes, C., Brandao, R., Torres, C., Garcia-Mozo, H., Caeiro, E., Ferro, R., Prank, M., Sofiev, M., Albertini, R., Berger, U., Cecchi, L., Celenk, S., Grewling, Ł., Jackowiak, B., Jaeger, S., Kennedy, R., Rantio-Lehtimäki, A., Reese, G., Sauliene, I.,

- Smith, M., Thibaudon, M., Weber, B., Weichenmeier, I., Pusch, G., Buters, J. T. M. & On behalf of the HIALINE working group. (2013) Airborne olive pollen counts are not representative of exposure to the major olive allergen Ole e 1. *Allergy*, DOI:10.1111/all.12144.
148. 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
149. 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/>.
150. 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. *Int.J.Biometeorology*, <http://www.ncbi.nlm.nih.gov/pubmed/22410824>, DOI 10.1007/s00484-012-0532-z, PMID 22410824
151. Siljamo, P., Sofiev, M., Filatova, E., Grewling, L., Jäger, S., Khoreva, E., Linkosalo, T., Jimenez, S.O., Ranta, H., Rantio-Lehtimäki, A., Svetlov, A., Veriankaite, L., Yakovleva, E., Kukkonen, J. (2012) A numerical model of birch pollen emission and dispersion in the atmosphere. Model evaluation and sensitivity analysis. *Int.J.Biometeorology*. <http://www.ncbi.nlm.nih.gov/pubmed/22434484>, DOI 10.1007/s00484-012-0539-5, PMID 22434484.
152. Bossioli, E., Tombrou, M., Karali, A., Dandou, A., Paronis, D., and Sofiev, M. (2012) Ozone production from the interaction of wildfire and biogenic emissions: a case study in Russia during spring 2006. *Atmos. Chem. Phys.*, 12, 7931-7953, 2012 www.atmos-chem-phys.net/12/7931/2012/ doi:10.5194/acp-12-7931-2012.
153. 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
154. Vira, J., Sofiev, M. (2012) On variational data assimilation for estimating the model initial conditions and emission fluxes for the short-term forecasting of SOx concentrations. *Atmosph. Environ.*, **46**, pp.318-328, doi:10.1016/j.atmosenv.2011.09.066.
155. Kouznetsov, R., Sofiev, M. (2012) A methodology for evaluation of vertical dispersion and dry deposition of atmospheric aerosols. *JGR*, **117**. doi: 10.1029/2011JD016366.
156. Sofiev, M., Ermakova, T., and Vankevich, R. (2012) Evaluation of the smoke injection height from wild-land fires using remote sensing data, *Atmos. Chem. Phys.*, **12**, 1995–2006, doi:10.5194/acp-12-1995-2012, www.atmos-chem-phys.net/12/1995/2012/.
157. Sofiev, M., Siljamo, P., Ranta, H., Linkosalo, T., Jaeger, S., Jaeger, C., Rasmussen, 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.
158. 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.
159. Petaja, T., Laakso, L., Grönholm, T., Launiainen, S., Evele-Peltoniemi, I., Virkkula, A., Leskinen, A., Backman, J., Manninen, H.E., Sipilä, M., Haapanala, S., Hämeri, K., Vanhala, E., Tuomi, T., Paatero, J., Aurela, M., Hakola, H., Makkonen, U., Hellen, H., Hillamo, R., Vira, J., Prank, M., Sofiev, M., Siitari-Kauppi, M., Laaksonen, A., Lehtinen, K.E.J., Kulmala, M., Viisanen, Y., Kerminen, V.-M. (2011) In-situ observations of Eyjafjallajökull ash particles by hot-air balloon. *Atmosph. Environ.*, 48, 104-112, doi:10.1016/j.atmosenv.2011.08.046.
160. Sofiev, M., Soares, J., Prank, M., de Leeuw, G., Kukkonen, J. (2011) A regional-to-global model of emission and transport of sea salt particles in the atmosphere. *JGR*, 116, D21302, doi:10.1029/2010D014713.
161. Kukkonen J, Olsson T, Schultz D, Baklanov A, Klein T, Miranda A, Monteiro A, Hirtl M, Tarvainen V, Boy M, Peuch V, Poupkou A, Kioutsioukis I, Finardi S, Sofiev M, Sokhi R, Lehtinen K, Karatzas K, San José R, Astitha M, Kallos G, Schaap M, Reimer E, Jakobs H, Eben K. (2012) A review of operational, regional-scale, chemical weather forecasting models in Europe. *Atmos. Chem. Phys.*, 12, 1-87, www.atmos-chem-phys.net/12/1/2012/, doi:10.5194/acp-12-1-2012.
162. S. Tsyro, W. Aas, J. Soares, M. Sofiev, H. Berge, and G. Spindler (2011) Modelling of sea salt pollution over Europe: key uncertainties and comparison with observations *Atmos. Chem. Phys.*, 11, 10367-10388, doi:10.5194/acp-11-10367-2011.
163. Aan de Brugh, J. M. J., Schaap, M., Vignati, E., Dentener, F., Kahnert, M., Sofiev, M., Huijnen, V., and Krol, M. C. (2011) The European aerosol budget in 2006, *Atmos. Chem. Phys.*, 11, 1117-1139, doi:10.5194/acp-11-1117-2011,
164. Prank, M., Sofiev, M., Denier van der Gon, H.A.C., Kaasik, M., Ruuskanen, T. M., and Kukkonen, J. (2010) A refinement of the emission data for Kola Peninsula based on inverse dispersion modelling, *Atmos. Chem. Phys.*, 10, 10849-10865, doi:10.5194/acp-10-10849-2010.
165. Linkosalo, T., Ranta, H., Oksanen, A., Siljamo, P., Luomajoki, A., Kukkonen, J., Sofiev, M. (2010) A double-threshold temperature sum model for predicting the flowering duration and relative intensity of *Betula Pendula* and *B. Pubescens*. *Agric. and forest meteorol.*, 150, 12, 1579-1584.
166. Kaasik, M., Sofiev, M., Prank, M., Ruuskanen, T., Kukkonen, J., Hörrak, U., Kulmala, M., (2010) Geographical origin of aerosol particles observed during the LAPBIAT measurement campaign in spring 2003 in Finnish Lapland, *Boreal*

Environment Research, **16**, ISSN 1239-6095 (print), ISSN 1797-2469 (online), <http://www.borenv.net/BER/pdfs/preprints/Kaasik.pdf>.

167. Huijnen, V., Eskes, H.J., Poupkou, A., Elbern, H., Boersma, K.F., Foret, G., Sofiev, M., Valdebenito, A., Flemming, J., Stein, O., Gross, A., Robertson, L., D'Isidoro, M., Kioutsioukis, I., Friese, E., Amstrup, B., Bergstrom, R., Strunk, A., Vira, J., Zyryanov, D., Maurizi, A., Melas, D., Peuch, V.-H., and Zerefos, C. (2010) Comparison of OMI NO₂ tropospheric columns with an ensemble of global and European regional air quality models. *Atmos. Chem. Phys.*, **10**, 3273-3296.
168. Tainio, M., Tuomisto, J.T., Pekkanen, J., Karvosenoja, N., Kupiainen, K., Porvari, P., Sofiev, M., Karppinen, A., Kangas, L., Kukkonen, J. (2010) Uncertainty in health risks due to anthropogenic primary fine particulate matter from different source types in Finland. *Atmosph. Environ.*, **44**, 2125-2132, doi:10.1016/j.atmosenv.2010.02.036.
169. Saarnio, K., Aurela, M., Timonen, H., Saarikoski, S., Teinilä, K., Mäkelä, T., Sofiev, M., Koskinen, J., Aalto, P.P., Kulmala, M., Kukkonen, J., Hillamo, R. (2010) Chemical composition of fine particles in fresh smoke plumes from boreal wild-land fires in Europe. *Science of the Total Environment*, **408**, 12, 2527-2542 DOI 10.1016/j.scitotenv.2010.03.010.
170. Veriankaite, L., Siljamo, P., Sofiev, M., Sauliene, I., Kukkonen, J. (2010) Modelling analysis of source regions of long-range transported birch pollen that influences allergenic seasons in Lithuania. *Aerobiologia*, **26**, pp.47-62 DOI 10.1007/s10453-009-9142-6.
171. Sofiev, M., Genikhovich, E., Keronen, P., Vesala, T. (2010) Diagnosing the surface layer parameters for dispersion models within the meteorological-to-dispersion modeling interface, *J. of Appl. Meteorol. and Climatology*, DOI: 10.1175/2009JAMC2210.1, **49**, pp.221-233.
172. Viniarek, V., Vira, J., Bocquet, M., Sofiev, M., Saunier, O. (2010) Towards the operational estimation of a radiological plume using data assimilation after a radiological accidental atmospheric release. *Atmosph. Environ.*, **45**, 2944 - 2955.
173. M.Sofiev, V.Sofieva, Elperin, T., Kleeorin, N., Rogachevski, I., Zilitnkevich, S. (2009) Turbulent Diffusion and Turbulent Thermal Diffusion of Aerosols in Stratified Atmospheric Flows, *J. Geophys. Res.*, **114**, D18209, doi:10.1029/2009JD011765.
174. Groisman, P.Ya, Clark, E.A., Kattsov, V.M., Lettenmaier, D.P., Sokolik, I.N., Aizen, V.B., Cartus, O., Chen, J., Conard, S., Katzenberger, J., Krankina, O., Kukkonen, J., Machida, T., Maksyutov, S., Ojima, D., Qi, J., Romanovsky, V.E., Santoro, M., Schumilius, C.C., Shiklomanov, A.I., Shimoyama, K., Shugart, H.H., Shuman, J., Sofiev, M., Sukhinin, A.I., Vörösmarty, C., Walker, D., Wood, E.F. (2009) The Northern Eurasia Earth Science Partnership An Example of Science Applied to Societal Needs, *BAMS*, May 2009, 671-688, doi :10.1175/2008BAMS2556.1
175. Tainio, M., Sofiev, M., Hujo, M., Tuomisto, J.T., Loh, M., Jantunen, M.J., Karppinen, A., Kangas, L., Karvosenoja, N., Kupiainen, K., Porvari, P., Kukkonen, J. (2009) Evaluation of the European population intake fractions for European and Finnish anthropogenic primary fine particulate matter emissions. *Atmosph. Environ.* **43**, 3052–3059.
176. Sofiev, M., Vankevich, R., Lotjonen, M., Prank, M., Petukhov, V., Ermakova, T., Koskinen, J. Kukkonen, J. (2009). An operational system for the assimilation of satellite information on wild-land fires for the needs of air quality modelling and forecasting.

- Atmos. Chem. Phys.*, **9**, 6833-6847, <http://www.atmos-chem-phys.net/9/6833/2009/acp-9-6833-2009.html>.
177. Kukkonen, J., T. Klein, K. Karatzas, K. Torseth, A. Fahre Vik, R. San Jose, T. Balk, and M. Sofiev (2009) COST ES0602: towards a European network on chemical weather forecasting and information systems, *Adv. Sci. Res.*, **1**, 1–7, www.adv-sci-res.net/1/1/2009/, Contributions of the 8th EMS Annual Meeting and 7th European Conference on Applied Climatology, 2008.
 178. Morcrette, J.-J., O. Boucher, L. Jones, D. Salmond, P. Bechtold, A. Beljaars, A. Benedetti, A. Bonet, J. W. Kaiser, M. Razinger, M. Schulz, S. Serrar, A. J. Simmons, M. Sofiev, M. Suttie, A. M. Tompkins, and A. Untch, (2009) Aerosol analysis and forecast in the ECMWF Integrated Forecast System. Part I: Forward modelling, *J. Geophys. Res.*, **114**, D06206,, doi:10.1029/2008JD011235.
 179. Siljamo, P., Sofiev, M., Severova, E., Ranta, H., Kukkonen, J., Polevova, S., Kubin, E. Minin, A. (2008) Sources, impact and exchange of early-spring birch pollen in the Moscow region and Finland. *Aerobiologia*. DOI 10.1007/s10453-008-9100-8.
 180. Kukkonen, J., Sokhi, R., Luhanab, L., Harkonen, J., Salmi, T., Sofiev, M., Karppinen, A. (2008) Evaluation and application of a statistical model for assessment of long-range transported proportion of PM_{2.5} in the United Kingdom and in Finland. *Atmosph. Environ.*, **42**, 3980-3991. Doi:10.1016/j.atmosenv.2007.02.036.
 181. Ruuskanen, T.M., Kaasik, M., Aalto, P.P., Hörrak, U., Vana, M., Mårtensson, E.M., Yoon, Y.J., Keronen, P., Mordas, G., Ceburnis, D., Nilsson, E.D., O'Dowd, C., Noppel, M., Alliksaar, T., Ivask, J., Sofiev, M., Prank, M., Kulmala, M. (2007). Concentrations and fluxes of aerosol particles during the LAPBIAT measurement campaign in Värriö field station. *Atmospheric Chemistry and Physics*, **7**, 3683 - 3700. (<http://www.atmos-chem-phys.net/7/3683/2007/acp-7-3683-2007.pdf>), *Atmospheric Chemistry and Physics Discussions*, **7**, 709 -751. ([http:// www.atmos-chem-phys-discuss.net/7/709/2007/](http://www.atmos-chem-phys-discuss.net/7/709/2007/)).
 182. Siljamo, P., Sofiev, M., Ranta, H., Linkosalo, T., Kubin, E., Ahas, R., Genikhovich, E., Jatczak, K., Jato, V., Nekovar, J., Minin, A., Severova, E., Shalaboda, V. (2008) Representativeness of point-wise phenological *Betula* data observed in different parts of Europe. *Global Ecology and Biogeography*, **17**(4), 489-502, DOI: 10.1111/j.1466-8238.2008.00383.x.
 183. Tarasova, O.A., Brenninkmeijer, C.A.M., Assonov, S.S., Elansky, N.F., Röckmann, T., Sofiev, M.A. (2007) Atmospheric CO along the Trans-Siberian Railroad and River Ob: source identification using isotope analysis. *J Atmos Chem* DOI 10.1007/s10874-007-9066-x.
 184. Saarikoski, S., Sillanpää, M., Sofiev, M., Timonen, H., Saarnio, K., Teinilä, K., Karppinen, A., Kukkonen, J., Hillamo, R. (2007) Chemical composition of aerosols during a major biomass burning episode over northern Europe in spring 2006: experimental and modelling assessments. *Atmosph. Environ.*, **41**, 3577-3589.
 185. Tainio, M., Hujo, M., Sofiev, M., Kukkonen, J., Karppinen, A., Karvosenoja, N., TTuomisto, J. (2006) Evaluation of the seasonal variation of intake fractions (iF) for the primary fine particle (PM_{2.5}) emissions in Finland for various source sectors. *Epidemiology*, SN 1044-3983, **17**, N.6, SU Suppl. S.
 186. Ranta, H., Kubin, E., Siljamo, P., Sofiev, M., Linkosalo, T., Oksanen, A., Bondestam, K. (2006) Long distance pollen transport cause problems for determining the timing of

- birch pollen season in Fennoscandia by using phenological observations. *Grana*, **45**, 4, 297-304.
187. Sofiev, M., Siljamo, P., Ranta, H., Rantio-Lehtimäki, A. (2006) Towards numerical forecasting of long-range air transport of birch pollen: theoretical considerations and a feasibility study. *Int J. on Biometeorology*, DOI 10.1007/s00484-006-0027-x, **50**, 392-402.
188. Sofiev M., Siljamo, P., Valkama, I., Ilvonen, M., Kukkonen, J. (2006) A dispersion modelling system SILAM and its evaluation against ETEX data. *Atmosph. Environ.* , **40**, 674-685, DOI:10.1016/j.atmosenv.2005.09.069.
189. Galmarini, S., Bianconi, R., Klug, W., Mikkelsen, T., Addis, R., Andronopoulos, S., Astrup, P., Baklanov, A., Bartniki, J., Bartzis, J. C., Bellasio, R., Bompay, F., Buckley, R., Bouzom, M., Champion, H., D'Amours, R., Davakis, E., Eleveld, H., Geertsema, G. T., Glaab, H., Kollax, M., Ilvonen, M., Manning, A., Pechinger, U., Persson, C., Polreich, E., Potemski, S., Prodanova, M., Saltbones, J., Slaper, H., Sofev, M. A., Syrakov, D., Sørensen, J.H., Van der Auwera, L., Valkama, I., Zelazny, R. (2004) Can the confidence in long-range atmospheric transport models be increased? The pan-European experience of ENSEMBLE. *Radiation Protection Dosimetry*, **109**, Nos 1-2, pp. 19-24, DOI: 10.1093/rpd/nch261.
190. Galmarini,S., Bianconi,R., Klug,W., Mikkelsen,T., Addis,R., Andronopoulos,S., Astrup,P., Baklanov,A., Bartniki,J., Bartzis,J.C., Bellasio,R., Bompay,F., Buckley,R., Bouzom,M., Champion,H., D'Amours,R., Davakis,E., Eleveld,H., Geertsema,G.T., Glaab,H., Kollax,M., Ilvonen,M., Manning,A., Pechinger,U., Persson,C., Polreich,E., Potemski,S., Prodanova,M., Saltbones,J., Slaper,H., Sofiev,M.A., Syrakov,D., Sørensen,J.H., Van der Auwera,L., Valkama,I., Zelazny,R. (2004b) Ensemble dispersion forecasting—Part I: concept, approach and indicators. *Atmospheric Environment*, **38**, 28, 4607-4617.
191. Hongisto, M., Sofiev, M., Joffre, S. (2003) Hilatar, a limited area simulation model of acid contaminants: II. Model verification and long-term simulation results. *Atmospheric Environment*, **37**, pp.1549-1560.
192. Sofiev, M., Kaasik M., Hongisto M. (2003) Distribution of alkaline particles over the Baltic Sea basin. *Water, Air, Soil Pollution*, **146**, pp.211-223.
193. Sofiev, M. (2002) Extended resistance analogy for construction of the vertical diffusion scheme for dispersion models. *J. of Geophys. Research – Atmosphere*, **107**, D12, doi: 10.1029/2001JD001233.
194. Sofiev, M., Tuovinen, J.-P. (2001) Factors determining the robustness of the ozone exposure measure AOT-x and other indexes. *Atmospheric Environment*, **35**, No 20, pp. 3521-3528.
195. Sofiev, M., Petersen, G., Krueger, O., Schneider, B., Hongisto, M., Jylha, K.(2001) Model simulations of the atmospheric trace metals concentrations and depositions over the Baltic Sea. *Atmospheric Environment*, **35**, No 8, pp.1395-1409.
196. Schneider, B., Ceburnis, D., Marks, R., Munthe, J., Petersen G., Sofiev, M. (2000) Atmospheric Pb and Cd input into the Baltic Sea: a new estimate based on measurements. *Marine chemistry*, **71**, pp.297-307.

197. Sofiev, M. (2000) A model for the evaluation of long-term airborne pollution transport at regional and continental scales. *Atmospheric Environment*. **34**, No.15, pp. 2481-2493.
198. Galperin, M., Sofiev, M. (1998) The long-range transport of ammonia and ammonium in the Northern Hemisphere. *Atmospheric Environment*, **32**, No.3, pp.373-380.
199. Tsirlin, A.M., Sofiev, M., Kazakov, V. (1998) Finite-time thermodynamics. Active potentiostating. *J.Phys. D: Applied Physics*. **31**, pp. 2264-2268.
200. Sofiev, M., Maslyaev, A., Gusev, A. (1997) Statistical procedure for the intercomparison of atmospheric dispersion models and model calibration with measurements. *Int.J. Environment and Pollution*, **8**, NN 3-6, pp. 324-332.
201. Galperin, M., Sofiev, M. (1995) Evaluation of airborne heavy metal pollution from European sources. *J. Environment and Pollution* **5/4-6**: pp.679-690.
202. Galperin, M., Sofiev, M., Afinogenova O. (1995) Long-term modelling of airborne pollution within the Northern Hemisphere. *Water, Air, Soil Pollut.* **85**: pp.2051-2056.

Articles in national scientific journals with a referee practise

203. Udvardy, O., Tedeschini, E., Sofiev, M., Palamarchuk, J., Makra, L., Kajtor-Apatini, D., Magyar, D. (2017) Utazó allergének – mediterrán eredetű virágpor Magyarországon. *AMEGA* 24(3):25-276.
204. Р. Ванкевич, Т. Ермакова, М. Софиев (2011) Сравнение результатов вычисления высоты подъема струи дыма от лесных пожаров по полуэмпирическим формулам и одномерной модели BUOYANT. (R. Vankevich, T. Ermakova, M. Sofiev (2011) Comparison of the calculations of the forest fires plume rise by semi-empirical formulas and by 1-D model BUOYANT, In Russian). Гидрометиздат, 2011 Ученые записки, 19, С. 61-70 (Hydrometeoizdat, scientific notes, **19**, pp.61-70)
205. Kaasik, M., Sofiev, M., Prank, M., Paales, M. (2009) Keemilise Ilma mudelid ja prognoos. *Eesti Füüsika Seltsi aastaraamat, Eesti Füüsika selts, Tartu*, 91 - 107.
206. Sofiev, M. (2007) On detection and forecasting of air pollution episodes in Europe and Finland, *Ilmansuojelu*, **3**, 29-33.
207. Гальперин М.В., Софиев М.А. (2005) Опыт моделирования водного режима озера Байкал и влияния на него изменений регионального климата. Проблемы экологического мониторинга и моделирования экосистем, **XX**, Санкт-Петербург, Гидрометеиздат, 2005, стр. 91-104.
M.Galperin, M.Sofiev. (2005) On experience of modelling of water regime of lake Baikal and influence of local climatic conditions on it. Problem of ecological monitoring and ecosystem modelling, **XX**, St. Petersburg, Gidrometeoizdat, 2005, pp. 91-104.
208. Sofiev, M., McLachlan M.S., Maslyaev, A., Wania, F., Galperin, M. (2004). On modelling the pollution of the lake Baikal region with polychlorinated biphenyls. *Problems of ecological monitoring and ecosystem modelling*, vol. **XIX**, Gidrometeoizdat, St. Petersburg, pp. 39-58.
209. Todorov, T., Spassova, T., Atanassov, D., Syrakov, D., Prodanova, M., Galperin, M., Sofiev, M. (2001) Conjugation of the Local NIMH Model with the Regional Operational

EMEP/MS-C-E Model. *Bulgarian Journal of Meteorology & Hydrology. BJMH*, vol.12, No 1 - 2, pp. 29 – 36.

210. Sofiev, M., Sofieva, V. (2000) Methodology for emission estimation of the atmospheric pollution on the basis of mathematical modelling and measurement data. *J. of Mathematical modelling and Computer Experiment*, Russian Academy of Sciences, v.12, N 4, pp. 20-32. Russian edition - Метод оценки выбросов в атмосферу загрязняющих веществ по данным математического моделирования и измерений, 12, N 4 стр. 20 – 32.
211. Sofiev, M. (1990) Optimal projecting and assessment of maximum capabilities of criogenic systems with active heat isolation, *J. of Theoretical Basis of Chemical Technology*, XXIV, N 4, Moscow, 1990 - Russian edition Софиев М.А. (1990) Оптимальное проектирование криогенных систем с активной изоляцией. *Теоретические основы химической технологии XXIV*, N 4, Москва.
212. Sofiev, M. (1994) The uncertainties in the tasks of the control of the reduction of global atmosphere pollution, *J. Devices and Systems*, Moscow, 1994 N 12 - Russian edition – Софиев М.А. (1994) Неопределенности в задачах контроля сокращения глобального загрязнения атмосферы. *Приборы и системы*, 12.

Articles in international compilation works with referee practise

213. Meinander, O., Kontu, A., Kouznetsov, R., Sofiev, M. (2022) Snow Samples Combined With Long-Range Transport Modeling to Reveal the Origin and Temporal Variability of Black Carbon in Seasonal Snow in Sodankylä (67°N) In: *Ming, J., Lee, K., Wang, F., Zhang, T., Kjær, H. A., eds. (2022). Impure Snow and Ice in Remote Areas: Arctic, Antarctica and High Mountains. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-88974-492-3*, pp. 20-31.
214. Daniel Tong, Mikhail Sofiev, Glenn Rolph, Sara Basart, Johannes W. Kaiser, Georg Grell, Hiep Duc, Martin Cope, and Alexander Baklanov (2020) Special Considerations for Extreme Events. Chapter 6 of Training Materials and Best Practices for Chemical Weather/Air Quality Forecasting, WMO ETR-26 report, WMO, Geneva, https://library.wmo.int/doc_num.php?explnum_id=10439, pp 262-282.
215. Mikhail Sofiev, Maria de Fatima Andrade, Gabi Pfister, and Edmilson Freitas (2020) Model Input and Preparation. Chapter 10 of Training Materials and Best Practices for Chemical Weather/Air Quality Forecasting, WMO ETR-26, report, WMO, Geneva, https://library.wmo.int/doc_num.php?explnum_id=10439 pp 282-292.
216. Pablo Saide, Daven K. Henze, Angela Benedetti, Marc Bocquet, Gregory Carmichael, Arlindo da Silva, Antje Inness, Lasse Johansson, Ari Karppinen, Mariusz Pagowski, Adrian Sandu, Mikhail Sofiev, and Yang Zhang Bias Correction and Forecast Skill Improvement Methods. Chapter 10 of Training Materials and Best Practices for Chemical Weather/Air Quality Forecasting, WMO ETR-26 report, WMO, Geneva, https://library.wmo.int/doc_num.php?explnum_id=10439 pp 318-342.
217. Mikhail Sofiev (2020) Impact of wildland fires on atmospheric aerosols in Northern Hemisphere in 2012, Chapter 12, Demonstration case a3 of Training Materials and Best Practices for Chemical Weather/Air Quality Forecasting, WMO ETR-26 report, WMO, Geneva, https://library.wmo.int/doc_num.php?explnum_id=10439 pp 423-429.

218. Goldammer, J.G., Mangeon, S., Keywood, M., Kaiser, J.W., de Groot, W.J., Gunawan, D., Gan, C., Field, R., Sofiev, M. Baklanov, A. (2018) Vegetation Fire and Smoke Pollution Warning and Advisory System (VFSP-WAS): Concept Note and Expert Recommendations. *WMO GAW Report- No. 235*. WMO, Geneva, 50pp. https://library.wmo.int/opac/index.php?lvl=notice_display&id=20244
219. Morcrette, J.-J., O. Boucher, L. Jones, D. Salmond, P. Bechtold, A. Beljaars, A. Benedetti, A. Bonet, J.W. Kaiser, M. Razinger, M. Schulz, S. Serrar, A.J. Simmons, M. Sofiev, M. Suttie, A.M. Tompkins, A. Untch, and the GEMS-AER team. (2009) ECMWF Technical Memorandum, 573, 35 pp.
220. Sofiev, M., Bousquet, J., Linkosalo, T., Ranta, H., Rantio-Lehtimäki, A., Siljamo, P., Valovirta, E., Damialis, A. (2009) Pollen, Allergies and Adaptation. *Chapter 5 in the book Biometeorology and Adaptation to Climate Variability and Change*, (eds. Ebi, K., McGregor, G., Burton, I.), ISBN 978-4020-8920-6, Springer Science, pp.75-107.
221. BACC author team (2008). Assessment of Climate Change for the Baltic Sea Basin. Series: [Regional Climate Studies](#), XXII, 474 p. ISBN: 978-3-540-72785-9.
222. Karppinen, A., Sofiev, M., Siljamo, P., Kukkonen, J., Ranta, H., Linkosalo, T., Jäger, S., Rasmussen, A., Nicklaß, D., Wanner, L. (2007). Pollen: A Challenge for Environmental Information Services, In: *Olgierd Hryniewicz, Jan Studziński, Anna Szewiwo (Eds.): EnviroInfo Warsaw 2007, Environmental Informatics and Systems Research*, vol. 2: Workshop and application papers, *The 21st International Conference on "Informatics for Environmental Protection" Warsaw, Poland*, Shaker Verlag, Aachen 2007, ISBN 978-3-8322-6397-3, ISSN 1616-0886, pp.75-79.
223. Persson, C., Baklanov, A., Sørensen, J.H., Sofiev, M., Valkama, I., Karlsdóttir, S., Bartnicki, J., Saltbones, J., Kolax, M. (2007) Nordic Network of Meteorological Services Engaged in Nuclear Emergency Preparedness NKS-MetNet. *Nordic Nuclear Safety Research series, NKS-147*, ISBN 978-87-7893-210-5, available at: <http://www.nks.org/nordisk/B-delen/resultater.htm>, 49pp.
224. Sofiev, M., Jourden, E., Kangas, L., Karvosenoja, N., Karppinen, A., Kukkonen, J. (2006) Numerical modelling of the spatial distribution of fine particulate matter in Europe and Finland. *Report series in aerosol science*, **83**, 348-353.
225. Hongisto, M. & Sofiev, M. (2004) Long-Range Transport of Dust to the Baltic Sea Region. In: Goos G., Hartmanis J and van Leeuwen J., (ed's) *Lecture Notes in Computer Science*, Springer-Verlag Berlin Heidelberg, pp. 303-311.
226. Sofiev, M. (1999) Validation of model results on different scales. *Approaches to scaling of trace gas fluxes in ecosystems*, ed. A.F. Bouwman, *Developments in Atmospheric Science*, **24**, Elsevier, pp.235-255.
227. Sofiev, M. (1998) Numerical modelling of acid deposition on Eurasian continent. *Chapter 1 in Acid Deposition and Ecosystem Sensitivity in East Asia*, eds. V. Bashkin, Soon-Ung Park, Nova Sci. Publisher, Inc, Commack, New York, pp.5-49.
228. Bashkin, V., Erdman L., Abramishevich A., Sofiev M., Pripulina I., Gusev A. (1996) The input of anthropogenic airborne nitrogen to the Mediterranean sea through its watershed, *MAP technical series* UNEP / WMO, Athens..
229. Galperin, M., Sofiev M., Mantseva E. (1996) A model of the chemical transformation of mercury and its long-range atmospheric transport. *Global and Regional Mercury cycles: Sources, Fluxes and Mass Balances*, eds. Bayens W., R. Ebinghaus, O. Vasiliev,

NATO ASI Series 2: Environment- 21, Kluwer Academic Publishers, the Netherlands, pp.219-227.

230. Erdman, L., Sofiev, M., Subbotin, S., Dedkova, I., Afinogenova, O., Cheshukina, T., Pavlovskaya, L., Soudine, A. (1994) Assessment of airborne pollution of the Mediterranean sea by sulphur and nitrogen compounds and heavy metals in 1991, *MAP Technical Report series*, **85**, UNEP / WMO, Athens.

Articles in international reports and series; datasets

231. M. Sofiev, J. Palamarchuk, R. Kouznetsov, B. Adams-Groom, C.M. Antunes, A.H. Ariño, M. Bastl, J. Belmonte, U.E. Berger, M. Bonini, N. Bruffaerts, J. Buters, P. Carinanos, S. Celenk, V. Ceriotti, A. Charalampopoulos, Y. Clewlow, B. Clot, A. Dahl, A. Damialis, C. De Linares, L.A. De Weger, L. Dirr, A. Ekebon, Y. Fatahi, K. Piotrowska-Weryszko, M.D. Fernández González, S. Fernández-Rodríguez, C. Galán, B. Gedda, R. Gehrig, R.N. Gonzalez, L. Grewling, L. Hajkova, R. Hänninen, F. Hentges, J. Jantunen, E. Kadantsev, I. Kasprzyk, M. Kloster, K. Kluska, M. Koenders, J. Lafférová, P. Leru, M. Louna-Korteniemi, D. Magyar, B. Majkowska-Wojciechowska, M. Mitrovic, D. Myszkowska, G. Oliver, P. Östensson, S. Pätsi, R. Pérez-Badia, M. Prank, E.M. Przedpelska-Wasowicz, F.J.R. Rajo, H. Ramfjord, P. Rapiejko, V. Rodinkova, J. Rojo, L. Ruiz-Valenzuela, O. Rybnicek, A. Saarto, I. Sauliene, A.K. Seliger, E. Severova, V. Shalaboda, B. Sikoparija, P. Siljamo, J. Soares, O. Sozinova, B. Stjepanović, E. Teinmaa, A. Uppstu, M. Vill, J. Vira, N. Visez, T. Vitikainen, D. Vokou, A. Karppinen, (2023) European pollen reanalysis, 1980-2022, for alder, birch, and olive, v.1.1, Dataset. Finnish Meteorological Institute. <https://doi.org/10.57707/FMI-B2SHARE.85841086F9DB46B882D750EAA9E42515>
232. Hänninen, R., Sofiev, M., Uppstu, A., Kouznetsov, R., Palamarchuk, J., 2024. Shipping contribution to European air quality and depositions, both in 2018 and in two future scenarios for 2050, modelled by SILAM CTM. <https://doi.org/10.57707/FMI-B2SHARE.6220D9EFFBA84B6E8EF9BF497AA62041>
233. O'Neill, S.M., Xian, P., Flemming, J., Cope, M., Baklanov, A., Larkin, N.K., Vaughan, J.K., Tong, D., Howard, R., Stull, R., Davignon, D., Ahmadov, R., Talat Odman, M., Innis, J., Azzi, M., Gan, C., Pavlovic, R., Chew, B.N., Reid, J.S., Hyer, E.J., Kipling, Z., Benedetti, A., Colarco, P.R., Da Silva, A., Tanaka, T., McQueen, J., Bhattacharjee, P., Guth, J., Asencio, N., Jorba, O., García-Pando, C.P., Kouznetsov, R., Sofiev, M., Brooks, M.E., Chen, J., James, E., Reisen, F., Wain, A., McTaggart, K., MacNeil, A., 2023. Profiles of Operational and Research Forecasting of Smoke and Air Quality Around the World, in: Loboda, T.V., French, N.H.F., Puett, R.C. (Eds.), *Geophysical Monograph Series*. Wiley, pp. 149–191. <https://doi.org/10.1002/9781119757030.ch9>
234. Hänninen, R., Sofiev, M., Uppstu, A., Kouznetsov, R., 2024. Daily surface concentration of fire related PM_{2.5} for 2003-2023, modelled by SILAM CTM when using the MODIS satellite data for the fire radiative power. <https://doi.org/10.57707/FMI-B2SHARE.D1CAC971B3224D438D5304E945E9F16C>
235. M. Sofiev, J. Palamarchuk, R. Kouznetsov, B. Adams-Groom, C.M. Antunes, A.H. Ariño, M. Bastl, J. Belmonte, U.E. Berger, M. Bonini, N. Bruffaerts, J. Buters, P. Carinanos, S. Celenk, V. Ceriotti, A. Charalampopoulos, Y. Clewlow, B. Clot, A. Dahl, A. Damialis, C. De Linares, L.A. De Weger, L. Dirr, A. Ekebon, Y. Fatahi, K. Piotrowska-Weryszko, M.D. Fernández González, S. Fernández-Rodríguez, C. Galán, B. Gedda, R. Gehrig, R.N. Gonzalez, L. Grewling, L. Hajkova, R. Hänninen, F. Hentges, J.

- Jantunen, E. Kadantsev, I. Kasprzyk, M. Kloster, K. Kluska, M. Koenders, J. Lafférsová, P. Leru, M. Louna-Korteniemi, D. Magyar, B. Majkowska-Wojciechowska, M. Mitrovic, D. Myszkowska, G. Oliver, P. Östensson, S. Pätsi, R. Pérez-Badia, M. Prank, E.M. Przedpelska-Wasowicz, F.J.R. Rajo, H. Ramfjord, P. Rapiejko, V. Rodinkova, J. Rojo, L. Ruiz-Valenzuela, O. Rybnicek, A. Saarto, I. Sauliene, A.K. Seliger, E. Severova, V. Shalaboda, B. Sikoparija, P. Siljamo, J. Soares, O. Sozinova, B. Stjepanović, E. Teinmaa, A. Uppstu, M. Vill, J. Vira, N. Visez, T. Vitikainen, D. Vokou, A. Karppinen, (2023) European pollen reanalysis, 1980-2022, for alder, birch, and olive, v.1.0, Dataset. Finnish Meteorological Institute. <https://doi.org/10.57707/FMI-B2SHARE.980BC5264C6848859A3AB542A88979F9>, PID <http://hdl.handle.net/11304/e5203403-0678-437b-8967-a4a0e5ad42d1>.
236. Hänninen, R., Sofiev, M., Uppstu, A., & Kouznetsov, R. (2023). Daily surface concentration of fire related PM_{2.5} for 2003-2022, modelled by SILAM CTM when using the MODIS satellite data for the fire radiative power [Data set]. Finnish Meteorological Institute. <https://doi.org/10.23728/fmi-b2share.722bb9d1937548908d2b6c1cfd9f8e5d>
237. Andy W. Delcloo, Willem W. Verstraeten, Rostislav Kouznetsov, Lucie Hoebelke, Nicolas Bruffaerts, and Mikhail Sofiev (2022) Forecasting Birch Pollen Levels in Belgium: First Analysis of the 2021 Season., In *Air Pollution Modeling and its Application XXVIII*, eds.: Mensink,C., Jorba, O., Springer, <https://doi.org/10.1007/978-3-031-12786-1>, pp.119-124.
238. J. Kukkonen, E. Fridell, J.-P. Jalkanen, J. Moldanova, L. Ntziachristos, A. Grigoriadis, F. Barmpas, G. Tsegas, A. Maragkidou, Mikhail Sofiev, T. Grönholm, E. Majamäki, J. Borken-Kleefeld, R. S. Sokhi, P. R. Tiwari, U. A. Ozdemir, V. Zervakis, E. Krasakopoulou, I.-M. Hassellöv, E. Ytreberg, I. Williams, M. Hudson, L. Zapata-Restrepo, L. R. Hole, M. Aghito, O. Breivik, M. Petrovic, S. Rodriguez-Mozaz, A. Ktoris, M. Neophytou, A. Monteiro, M. A. Russo, F. Oikonomou, P. Arampatzi, A. Gondikas, A. Marcomini, E. Giubilato, L. Calgaro, J. J. K. Jaakkola, S.-P. Kiihamäki, R. Aittamaa, G. Broström, M. Hassellöv, J. Tamminen, F. Nicolas, J. Kaitaranta, M. Granberg, and K. Magnusson (2022) Towards a Comprehensive Evaluation of the Environmental and Health Impacts of Shipping Emissions. In *Air Pollution Modeling and its Application XXVIII*, eds.: Mensink,C., Jorba, O., Springer, <https://doi.org/10.1007/978-3-031-12786-1>, pp.329-336.
239. Valiulis G., Šukienė L., Vaitkevičius L., Daunys G., Sofiev M., & Šaulienė I. (2021). 2021 pollen dataset from automatic particle detector in Šiauliai (1.0.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.5596330>.
240. Valiulis G., Šukienė L., Vaitkevičius L., Daunys G., Sofiev M., & Šaulienė I. (2020). 2019-2020 woody plants pollen dataset from automatic particle detector in Šiauliai (1.2.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.5576824>.
241. Valiulis G., Šukienė L., Vaitkevičius L., Daunys G., Sofiev M., & Šaulienė I. (2021). 2019-2020 herbaceous plants pollen dataset from automatic particle detector in Šiauliai (1.2.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.5576879>.
242. Sofiev, M., Palamarchuk, J., Kouznetsov, R., Jaakkola, J., Kukkonen, J. (2021). Global Air Quality SILAM hindcast v.1.0, 1980-2015 [Data set]. *Finnish Meteorological Institute*. <https://doi.org/10.23728/FMI-B2SHARE.CCFACC71449046778114B4610E048222>, URL: <https://fmi.b2share.csc.fi/records/ccfacc71449046778114b4610e048222>
243. Sofiev M, Kouznetsov R, Prank M, Soares Alves Antunes J, Vira J, Tarvainen V (2016) A long-term re-analysis of atmospheric composition and air quality. ITM 35 <https://itm.marvin.vito.be/index.html>, 4pp.

244. Soares, J, Sofiev M, Geels C, Langner J, Tsyro S, Kurganskiy A, Ström J Assessment of black carbon in Arctic: current status and potential improvements (2016) ITM 35 <https://itm.marvin.vito.be/index.html>, 4pp
245. Prank M, Vira J, Ots R, Sofiev M (2016) Evaluation of organic aerosol and its precursors in the SILAM model ITM 35 <https://itm.marvin.vito.be/index.html>, 4pp
246. Soares, J., Sofiev, M., Geels, C., Christensen, J., Andersson, C., Langner, J., Tsyro, S. (2016) Impact of Climate Change on the production and transport of sea salt aerosol on European Seas, In Steyn, D. G., Chaumerliak, N. Air Pollution Modelling and its Applications XXIVm Springer, 207-212.
247. Prank, M., Sofiev, M., Siljamo, P., Kauhaniemi, M., European Aeroallergen Network data providers (2016) Increasing the number of allergenic pollen species in SILAM forecasts. In Steyn, D. G., Chaumerliak, N. Air Pollution Modelling and its Applications XXIVm Springer, 313-318.
248. Sofiev, M., Soares, J., Vira, J., Prank, M., Kouznetsov, R. (2016) Uncertainties of top-down fire emission estimates at regional and global scales. In Steyn, D. G., Chaumerliak, N. Air Pollution Modelling and its Applications XXIVm Springer, 509-512.
249. Reis, K., Toll, V., Ots, R., Kaasik, M., Soares, J., Sofiev, M., Prank, M., Mannik, A. (2016) In Steyn, D. G., Chaumerliak, N. Air Pollution Modelling and its Applications XXIVm Springer, 547-552.
250. Jira, J., Sofiev, M. (2016) Inverse Modelling of volcanic SO₂ emissions using the 4D-Var method. In Steyn, D. G., Chaumerliak, N. Air Pollution Modelling and its Applications XXIVm Springer, 607-612.
251. Oteros J, Sofiev M, Smith M, Traidl-Hoffmann C, Menzel A, Bergmann C, Wachter R, Clot B, Schmidt-Weber C, Buters J.T (2016) The building of the bavarian electronic pollen information network – ePIN. *J. of investigative dermatology* Vol. 136. Annual Meeting of the European-Society-for-Dermatological-Research (ESDR), Munich, GERMANY, SEP 07-10, 2016.
252. Kukkonen J, Nikmo J, Sofiev M (2015) Metsäpaloissa syntyvien haitallisten aineiden kulkeutumisenusteet tarkentuvat. *Ilmansuojelu* 1/2015, s. 19-21.
253. M Sofiev, J Vira, M Prank, J Soares, R Kouznetsov (2014) An outlook of System for Integrated modeLling of Atmospheric coMposition SILAM v. 5. *Air Pollution Modeling and its Application XXII*, 397-400
254. M Prank, J Vira, M Sofiev (2014) Modelling the Budget of Main Atmospheric Pollutants in Paris Region. *Air Pollution Modeling and its Application XXII*, 647-652.
255. J Vira, M Prank, J Hakkarainen, M Sofiev (2014) An Assessment of the Emission and Dispersion of Volcanic Ash and Sulphur Dioxide in the Recent Eruptions in Iceland. *Air Pollution Modeling and its Application XXII*, 297-301
256. R Kouznetsov, M Sofiev (2014) An Advanced Scheme of Vertical Dispersion and Dry Deposition of Aerosols for Atmospheric Transport Models. *Air Pollution Modeling and its Application XXII*, 129-134
257. J Soares, M Sofiev, JP Jalkanen (2014) Impact of NO_x Ship Emissions on the Baltic Sea Area: Present Status and Future Prospects. *Air Pollution Modeling and its Application XXII*, 413-417

258. E Genikhovich, M Sofiev, I Gracheva, J Vira, M Prank, A Ryzhakova (2014) CTM: Numerical Recipes and Their Implementations. *Air Pollution Modeling and its Application XXII*, 425-428
259. M Sofiev, M Prank, J Vira (2014) On the Data Assimilation for Operational Forecasting and Re-analysis of Allergenic Pollen Dispersion. *Air Pollution Modeling and its Application XXII*, 247-250
260. Alarcon, M.; Ortega, S.; Belmonte, J.; Roure, J.M.; Siljamo, P.; Sofiev, M. (2011) The use of the SILAM model in the interpretation of strong Betula airborne pollen episodes in Catalonia (NE of Spain). *Proc. of the 14th Int. Conf. on Harmonisation within atmospheric dispersion modelling for regulatory purposes. 2-6 Oct. 2011. Eds: J.G. Bartzis, A. Syrakos and S. University of West Macedonia, Greece.* ISBN: 978-960-89650-6-5., pp. 173-177.
261. Alarcon, M.; Ortega, S.; Belmonte, J.; Siljamo, P.; Sofiev, M.; Ferreres, F. (2011) Identification of pollen sources affecting Catalonia (SW of Europe) using SILAM model in its adjoint (inverse) mode *Proc. of the 14th Int. Conf. on Harmonisation within atmospheric dispersion modelling for regulatory purposes. 2-6 Oct. 2011. Eds: J.G. Bartzis, A. Syrakos and S. University of West Macedonia, Greece.* ISBN: 978-960-89650-6-5., pp. 657-661.
262. Rouil, L. Massart, S., Beekman, M., Foret, G., Sofiev, M., Vira, J., Eskes, H., Meleux, F., Ung, A., Peuch, V.-H., Marécal, V., Aldebenito, A., Gauss, M., Elbern, H., Friese, E., Strunk, A., Robertson, L., Schaap, M., Timmermans, R., Curier, L. (2011) Assessment Report: Air quality in Europe in 2008. MACC report D-R-EVA_3.2, INERIS, 45 pp.
263. Rouil, L. Massart, S., Beekman, M., Foret, G., Sofiev, M., Vira, J., Eskes, H., Meleux, F., Ung, A., Peuch, V.-H., Marécal, V., Aldebenito, A., Gauss, M., Elbern, H., Friese, E., Strunk, A., Robertson, L., Schaap, M., Timmermans, R., Curier, L. (2011) Assessment Report: Air quality in Europe in 2009. MACC report D-R-EVA_3.3, INERIS, 48 pp.
264. Sofiev, M. (2010) Aerosol species in the air quality forecasting system of FMI: possibilities for coupling with NWP models. *A.Baklanov, A.Mahura, R.Sokhi (eds.) Integrated systems for meso-meteorological and chemical transport models.* ISBN 978-3-642-13979-6, Springer, 159-166.
265. Kaasik, M., Prank, M., Sofiev, M. (2010) Running SILAM model comparatively with ECMWF and HIRLAM Meteorological fields: a case study in Lapland. *A.Baklanov, A.Mahura, R.Sokhi (eds.) Integrated systems for meso-meteorological and chemical transport models.* ISBN 978-3-642-13979-6, Springer, 159-166.
266. Sofiev, M., Miranda, A.I., Sokhi, R. (editors) (2009) Review of the capabilities of meteorological and chemistry-transport models for describing and predicting air pollution episodes. *WMO GAW report N.187.* WMO-TD N. 1502, 63pp.
267. Siljamo, P., Sofiev, M., Linkosalo, T., Ranta, H., Kukkonen, J. (2008) Development and application of biogenic emission term as a basis of long-range transport of allergenic pollen. *NATO Science for piece and security Serties C: Environmental Security. Air pollution modelling and its application*, **XIX**, Borrego, C., Miranda, A.I. (eds.), Springer, pp.154-162.
268. Genikhovich, E., Sofiev, M., Schayes, G., Gracheva, I. (2008) Air pollution modelling with perturbational downscaling. *NATO Science for piece and security Serties C: Environmental Security. Air pollution modelling and its application*, **XIX**, Borrego, C., Miranda, A.I. (eds.), Springer, pp. 182-189.

269. Sofiev, M., Siljamo, P., Karppinen, A., Kukkonen, J. (2008) Air quality forecasting during summer 2006: forest fires as one of major pollution sources in Europe. *NATO Science for piece and security Serties C: Environmental Security. Air pollution modelling and its application*, **XIX**, Borrego, C., Miranda, A.I. (eds.), Springer, pp. 305-312.
270. Kaasik, M., Prank, M., Kukkonen, J., Sofiev, M. (2008) Suggested correction to the EMEP database, regarding the location of a major industrial air pollution source in Kola Peninsula. *NATO Science for piece and security Serties C: Environmental Security. Air pollution modelling and its application*, **XIX**, Borrego, C., Miranda, A.I. (eds.), Springer, pp. 331-338.
271. Prank, M., Sofiev, M., Kaasik, M., Ruuskanen, T., Kukkonen, J., Kulmala, M. (2008) The origins and formation mechanisms of aerosol during a measurement campaign in Finnish Lapland, evaluated using regional dispersion model SILAM. *NATO Science for piece and security Serties C: Environmental Security. Air pollution modelling and its application*, **XIX**, Borrego, C., Miranda, A.I. (eds.), Springer, pp. 530-538.
272. Sofiev, M., Galperin, M., Genikhovich, E. (2008) Construction and evaluation of Eulerian dynamic core for the air quality and emergency modeling system SILAM. *NATO Science for piece and security Serties C: Environmental Security. Air pollution modelling and its application*, **XIX**, Borrego, C., Miranda, A.I. (eds.), Springer, pp. 699-701.
273. Sofiev, M., Jourden, E., Pirjola, L., Kangas, L., Karvosenoja, N., Karppinen, A., and Kukkonen, J. (2006) Dispersion modelling of the concentrations of fine particulate matter in Europe. *Developments in Environmental Science*, **6**. C.Borrego & E.Renner (eds.). DOI: 10.1016/S1474-8177(70)0621-0. *Air Polution Modelling and its Applications XVIII*, 189-199.
274. Siljamo, P., Sofiev, M., Severova, E., Ranta, H. Polevova, S. (2006) On influence of long-range transport of pollen grains onto pollinating seasons. *Developments in Environmental Science*, **6**. C.Borrego & E.Renner (eds.). DOI: 10.1016/S1474-8177(70)06074-3. *Air Polution Modelling and its Applications XVIII*, 708-716.
275. Sofiev M., Valkama I., Fortelius, C., Siljamo P. (2006) Forward and inverse modelling of radioactive pollutants dispersion after Chernobyl accident, *Developments in Environmental Science*, **6**, C.Borrego & E.Renner (eds.). DOI: 10.1016/S1474-8177(70)0633-0. *Air Polution Modelling and its Applications XVIII*, 283-292.
276. Hongisto, M. & Sofiev, M. (2004) Long-Range Transport of Dust to the Baltic Sea Region. In: Lirkov I., Margenow S., Wasniewski J. and Yalamov P., ed's. *Large Scale Scientific Computing. Proceedings of the 4th Internatinal Conference*, LSSC 2003, Sozopol, Bulgaria.
277. Genikhovich, E., Sofiev, M., Gracheva, I. (2007) Interactions of meteorological and dispersion models at different scales. *In Air Polution Modelling and its Applications XVII* (eds. C.Borrego, A.-L.Norman), Springer (2007), ISBN-10: 0-387-28255-6, pp.158-166.
278. Siljamo, P., Sofiev, M., Ranta, H. (2007) An approach to simulation of long-range atmospheric transport of natural allergens: an example of birch pollen. *In Air Polution Modelling and its Applications XVII* (eds. C.Borrego, A.-L.Norman), Springer (2007), ISBN-10: 0-387-28255-6, pp.331-340.
279. Sofiev, M., Atlaskin E. (2004) An example of application of data assimilation technique and adjoint dispersion modelling to an inverse dispersion problem based on the ETEX experiment. *In Air Polution Modelling and its Applications XVII* (eds. C.Borrego, A.-L.Norman), Springer (2007), ISBN-10: 0-387-28255-6, pp.438-449.

280. Genikhovich, E. Sofiev, M., (2004) A methodology for estimation of the atmospheric boundary layer parameters from the basic output variables of numerical weather forecast models. *Proc. of Baltic HIRLAM workshop, St.Petersburg, 17-20 Nov.2003. HIRLAM publications*, SMHI Norrkoping, Sweden, pp. 61-65.
281. Sofiev, M., Siljamo, P. (2004) Some lessons of SILAM model application to European Tracer Experiment. *Proc. of Baltic HIRLAM workshop, St.Petersburg, 17-20 Nov.2003. HIRLAM publications*, SMHI Norrkoping, Sweden, pp. 90-93.
282. Siljamo, P., Sofiev, M. Ranta, H., Kalnina, L., Ekeboom, A. (2004) Long-range atmospheric transport of birch pollen. Problem statement and feasibility studies. *Proc. of Baltic HIRLAM workshop, St.Petersburg, 17-20 Nov.2003. HIRLAM publications*, SMHI Norrkoping, Sweden, pp. 100-103.
283. Sofiev, M., Siljamo, P. (2003) Forward and inverse simulations with Finnish emergency model SILAM. *Air Pollution Modelling and its Applications XVI*, eds. C.Borrego, S.Incecik, Kluwer Acad. / Plenum Publ. pp.417-425.
284. Zlatev, Z., Bergstrom, R., Brandt, J., Hongisto, M., Johnson, J-E., Langner, J., Sofiev, M. (2002) Studying sensitivity of air pollution levels caused by variations of different key parameters. *TemaNord 2001:569*, Nordic Council of Ministers, Copenhagen 2001, 50pp.
285. Sofiev, M. (2002) Real time solution of forward and inverse air pollution problems with a numerical dispersion model based on short-term weather forecasts. *HIRLAM Newsletter 14 (Proc. of All Staff Meeting of HIRLAM project, 2002)*, pp.131-138, also available at http://hirlam.knmi.nl/open/publications/NewsLetters/41/sofiev_word2000.pdf
286. Sofiev, M. (2000) A long-term modelling of distribution and accumulation of the mercury species in the northern hemisphere. *Air Pollution Modelling and Its Application XIII*, Kluwer Academic/Plenum Publishers, pp.233-242.
287. Sofiev, M. (1996) Quality assurance of the model estimates of long-range air pollution transport and deposition. *EUROTRAC Newsletter N17 Autumn 1996*. ed. by P.Borrell and K.Kerry, pp.31-34.
288. Sofiev, M., Grigoryan, S. (1996) Numerical modelling of hemispheric air transport of acid compounds. Comparison of three approaches. MSC-E Report 6/96, Moscow, 1996, 30 p.
289. Galperin, M., Maslyaev, A., Pekar, M., Sofiev, M. (1996) The development of HM model in 1996. MSC-E Report 5/96, Moscow, July 1996, 62 p.
290. Sofiev, M., Maslyaev, A., Gusev, A. (1996) Heavy metal model intercomparison. Methodology and results for Pb in 1990. MSC-E Report 2/96, Moscow, March 1996, 108p.
291. Gusev, A., Sofiev, M. (1996) Model Calibrations Environment for atmosphere pollution modelling. Users guide. MSC-E Report 4/95, Moscow, March 1995 44p.
292. Galperin, M., Sofiev, M., Gusev, A., Afinogenova, O. (1995) The approaches to modelling of heavy metals transboundary and long-range airborne transport and deposition in Europe. MSC-E Report 7/95, Moscow, June 1995 28p.
293. Sofiev, M., Gusev, A., Afinogenova, O. (1995) Atmospheric transport of acid compounds in the Northern Hemisphere for 1991-1994. MSC-E Report 8/95, Moscow, June 1995, 44p.

294. Galperin, M., Dedkova, I., Sofiev, M., Perelmuter, Yu., (1994) The approach to integrated assessment modelling developed by MSC-E. MSC-E Report 1/94, Moscow, Feb 1994, 34p.
295. Erdman, L., Galperin, M., Subbotin, S., Sofiev, M., Afinogenova, O. (1994) Modelling experience of the Arctic pollution with sulphur and nitrogen compounds, heavy metals from sources of the Northern Hemisphere. EMEP/MSC-E note 1/94, Moscow, February 1994, 40p.
296. Galperin, M., Sofiev, M. (1994) Robustness of methods for comparison of measured and calculated data. MSC-E Report 2/94, Moscow, February 1994, 25p.
297. Galperin, M., Sofiev, M., Erdman, L., Chechukina, T. (1994) Model evaluation of airborne Trace Metal transport and deposition. Short model description and preliminary results. EMEP/MSC-E Scientific Report 3/94, February 1994, 115 pp.
298. Sofiev, M., Gusev, L., Strijkina, I. (1994) Results of MSC-East current model calibration with measurement of SO_x , NO_x , NH_x 1987-93. MSC-E Report 4/94, March 1994, 125p.
299. Galperin, M., Sofiev, M., Gusev, A., Dedkova, I., Afinogenova, O., Cheshukina T. (1994) Evaluation of SO_x , NO_x and NH_x long-range atmospheric transport in the Northern Hemisphere for 1991. MSC-E Report 5/94, Moscow, March 1994, 48p.
300. Galperin, M., Sofiev, M., Gusev, A., Koropalov, V., Nesterova, E. (1994) An approach to model evaluation of the airborne mercury transport. MSC-E Report 7/94, Moscow, March 1994, 25p.
301. Sofiev, M. (1993) An experience of the development and application of robust methods for verification of air pollution long-range transport models. EMEP/MSC-East Note 3/93, Moscow, April 1993, 16p.
302. Galperin, M., Grigoryan, S., Dedkova, I., Sofiev, M., Erdman, L. (1992) Assessments of airborne sulphur and nitrogen pollution of the Mediterranean and Black seas from European countries in 1987-1991. EMEP/MSC-E report 4/92, Moscow, November 1992, 57p.

Conference publications and scientific and technical reports

303. Sofieva, V.F., J. Tamminen, J. Hakkarainen, E. Kyrola, M. Sofiev, A. Laeng, G. Stiller, T. von Clarmann, S. Lossow, M. Weber, N. Rahpoe, A. Rozanov, D. Degenstein, A. Bourassa, K.A. Walker, D. Hubert, M. van Roozendael, C. Zehner (2015) Ozone structure and variability in the upper troposphere and lower stratosphere as seen by Envisat and ESA Third-Party mission limb profiling instruments, In Proceedings of Advances in Atmospheric Science and Applications, ESA SP-735
304. Karvosenoja, N., Kangas, L., Kupiainen, K., Kukkonen, J., Karppinen, A., Sofiev, M., Tainio, M., Paunu, V-V., Ahtoniemi, P., Tuomisto, J-T., Porvari, P. (2011) Integrated modeling assessments of the population exposure in Finland to primary PM_{2.5} from traffic and domestic wood combustion on the resolutions of 1 and 10 km. *Air Qual Atmos Health*, DOI 10.1007/s11869-010-0100-9.
305. Paatero, J., Sofiev, M., Kerminen, V.M., Petaja, T. (2010) Tulivuorentuhkaa Suomessa. *Positio. Paikkatiedon Erikoislehti*, 3, p.10-12.

306. Sofiev, M., Soares, J., Lappi, S. (2010) Porvoon öljynjalostamolla heinakuussa 2009 tapahtuneiden äkillisten rikkidioksiidipäästöjen leviämismallilaskelmat. Ilmatieteen Laitos, Ilmanlaadun asiantuntipalvelut, 2010, 79 pp.
307. Sofiev, Mikhail and Jaakko Kukkonen, 2009. An overview of WG 2: “Multi-scale forecasting, multi-model ensemble, boundary data” In: Karatzas, Kostas and Jaakko Kukkonen (editors), Quality of life information services towards a sustainable society for the atmospheric environment, COST Action ES0602, Workshop Proceedings, Sofia Publications S.A., Thessaloniki, Greece, ISBN: 978-960-6706-20-2, pp. 43-47
308. Kukkonen, Jaakko, Kostas Karatzas, Kjetil Tørseth, Aasmund Fahre Vik, Thomas Klein, Roberto San José, Taru Balk and Mikhail Sofiev, 2009. An overview of the COST action “Towards a European network on chemical weather forecasting and information systems”. In: Karatzas, Kostas and Jaakko Kukkonen (editors), Quality of life information services towards a sustainable society for the atmospheric environment, COST Action ES0602, Workshop Proceedings, Sofia Publications S.A., Thessaloniki, Greece, ISBN: 978-960-6706-20-2, pp. 21-37
309. Kukkonen, J., Karppinen, A., Sofiev, M., Kangas, L., Karvosenoja, M., Johansson, M., Tuomisto, J., Tainio, M., Koskentalo, T., Aarnio, P., Kousa, A., Pirjola, L., Kupainen, K. (2007) Kokoaismalli pienhiukkasten päästöjen, leviämisen ja riskin arviointiin – KOPRA. In: *Finnish Meteorological Institute, Studies*, 1, Helsinki, ISBN 978-951-697-635-1.
310. Kukkonen, J., Saarikoski, S., Sillanpää, M., Timonen, H., Saarnio, K., Teinilä, K., Sofiev, M., Karppinen, A., Hillamo, R., 2007. Evaluation Of The Influence Of Wild Land Fires On Air Quality In Cities – Combined Utilisation Of Ground- And Satellite-Based Observations And Modelling. In: Ranjeet S. Sokhi and Marina Neophytou (eds): Proceedings of the 6th International Conference on Urban Air Quality, Limassol, Cyprus, 27-29 March 2007, CD-disk: ISBN 978-1-905313-46-4, University of Hertfordshire and University of Cyprus (pp. 10-13).
311. Rantamäki, M., Sofiev, M., Eresmaa, N., Saarikoski, S., Mäkelä, T., Hillamo, R., Sarkanen, A., Kukkonen, J., and Karppinen, A., 2007. Evaluation Of A Severe Air Quality Episode In Helsinki In August 2006, Caused By Regionally Transported Smoke. In: Ranjeet S.Sokhi and Marina Neophytou (eds): Proceedings of the 6th International Conference on Urban Air Quality, Limassol, Cyprus, 27-29 March 2007, CD-disk: ISBN 978-1-905313-46-4, University of Hertfordshire and University of Cyprus (pp. 2-5).
312. Kaiser, J.W., Schultz, M.G., Gregoire, J.-M., Textor, C., Sofiev, M., Bartholome, E., Leroy, M., Engelen, R.J., Hollingsworth, A. (2006) Observation requirements for global biomass burning emission monitoring. In: *Proc. of the 2006 EUMETSAT Meteorological Satellite Conference.*, Helsinki, Finland, 12-16 June 2006, ISBN 92-9110-076-5 ISSN 1011-3932.
313. Sofiev, M., Valkama, I., Fortelius, C., Siljamo, P. (2006) Modelling re-analysis of dispersion of radioactive pollutants from Chernobyl accident. *STUK-A217 Ympäristön radioaktiivisuus Suomessa - 20 vuotta Tshernobylista. Symposium Helsinkissä 25-26.4.2006.* Säteiluturvakeskus (Radiation and Nuclear Safety Authority) series. Ed. by T.K.Ikäheimonen, ISBN 952-478-119-0, pp.199-204.
314. Sofiev, M., Siljamo, P., Ranta, H., Rantio-Lehtimäki, A. (in press) Evaluation and forecasting of the atmospheric concentrations of allergenic pollen in Europe. *In: Proc. of 17th Int. Congress on Biometeorology.*, 5-9.09.2005, Garmish-Patenkirchen.

315. Siljamo, P., Sofiev, M., Ranta, H., Linkosalo, T., Rantio-Lehtimäki, A. (in press) Numerical simulations of long-range atmospheric transport of birch pollen. *In: Proc. of 17th Int. Congress on Biometeorology*, 5-9.09.2005, Garmish-Patenkirchen.
316. Sofiev, M., Galperin, M., Maslyayev, A., McLachlan, M., Wania, F. (2004) A fugacity model for source determination of the lake Baikal region pollution with polychlorinated biphenyls. In: Proceedings of the 24th Int. Symp. on Halogenated Environmental organic pollutants and POPs. Sept.2004,Berlin. *Organohalogen compounds*, **66**, 2297-2305.
317. Galperin, M., Sofiev, M., Maslyayev, A. and Grigoryan, S. (2002) Complex assessment of the toxic pollution of the lake Baikal region. In: *Proceedings of the 8th International Conference on harmonisation within atmospheric dispersion modelling for regulatory purposes*. E.Batchvarova, D.Syrakov (eds.), Demetra Ltd. Sofia, Bulgaria, October 2002 pp. 391-196.
318. Sofiev, M., Galperin, M. (2002) Numerical modelling of the atmospheric transport of toxic pollutants in the Northern Hemisphere. *B.Sportisse(ed.) Proc.of 2nd Conference Air Pollution Modelling and Simulation, APMS'01, Champs-Sur-Marne*, ISBN 3-540-42515-2, Springer-Verlag, Pp.101-110.
319. Sofiev, M. (2001) Sensitivity of the hemispheric mercury cycling model to physicochemical rates and model technicalities. In: *P.Midgley, M.Reuther, M.Williams (eds.) Transport and chemical transformation in the troposphere. Proc. of EUROTRAC Symposium 2000*, ISBN 3-540-41983-7, Springer-Verlag, Heidelberg, 2001, pp.1027-1030.
320. Sofiev, M. (2001) Some remarks about the robustness of the Accumulated Ozone above Threshold (AOT) measure. In: *P.Midgley, M.Reuther, M.Williams (eds.) Transport and chemical transformation in the troposphere. Proc. of EUROTRAC Symposium 2000*, ISBN 3-540-41983-7, Springer-Verlag, Heidelberg, 2001, pp. 1326-1329.
321. Hongisto, M., Sofiev, M. (2001) Representativeness of the coastal measurements for the open sea – experience of the model applications in the Baltic region. In: *P.Midgley, M.Reuther, M.Williams (eds.) Transport and chemical transformation in the troposphere. Proc. of EUROTRAC Symposium 2000*, ISBN 3-540-41983-7, Springer-Verlag, Heidelberg, 2001, pp.486-490.
322. Sofiev, M., Galperin, M., Maslyayev, A. (2001) Relationships between the environmental lifetime and scale of transport for some toxic pollutants. In: *P.Midgley, M.Reuther, M.Williams (eds.) Transport and chemical transformation in the troposphere. Proc. of EUROTRAC Symposium 2000*, ISBN 3-540-41983-7, Springer-Verlag, Heidelberg, 2001 pp.1031-1034.
323. Sofiev, M., Petersen, G., Krueger, O., Hongisto, M., Jylhä, K. (1999) Nested simulations of the heavy metal distribution over the Baltic Sea area. In *Zuelicke C. (ed.) Proceedings. of the Third Basys Annual Sci. Conf., IOW Warnemunde, 20-22 Sep 1999* p. 70-71, also available at <http://www.io-warnemunde.de/public/bio/basys/con3/con3.htm>.
324. Schneider B., Wangberg, I., Munthe, J., Iverfeld, A., Petersen, G., Krueger, O., Schmolke, S., Ebinghaus, R., Czeburnis, D., Hongisto, M., Sofiev, M. (1999) Coast-to-sea gradients of atmospheric trace element fluxes. In *Zuelicke C. (ed.) Proceedings. of the Third Basys Annual Sci. Conf., IOW Warnemunde, 20-22 Sep 1999*, pp.105-108, also available at <http://www.io-warnemunde.de/public/bio/basys/con3/con3.htm>.
325. Plate, E., Schulz, M., Ferm, M., Hongisto, M., Jylhä, K., Sofiev, M. (1999). Variation of nitrogen aerosols in Baltic Sea regions - a comparison of modelled and measured data.

- In Zuelicke C. (ed.) Proceedings of the Third Basys Annual Sci. Conf., IOW Warnemunde, 20-22 Sep 1999* p. 70, also available at <http://www.io-warnemunde.de/public/bio/basys/con3/con3.htm>,
326. Hongisto, M., Jylhä, K., Sofiev, M. (1999). Long-term and episodic simulation studies of nitrogen compounds to the Baltic Sea. *In Zuelicke C. (ed.) Proceedings. of the Third Basys Annual Sci. Conf., IOW Warnemunde, 20-22 Sep 1999*, p. 68, also available at <http://www.io-warnemunde.de/public/bio/basys/con3/con3.htm>.
327. Hongisto, M., Sofiev, M., Jylha, K., Joffre, S. (1999) 6-year simulations of dispersion of acid contaminants over Fennoscandia and Baltic Sea area. *In BASYS final scientific report*, 18 pp., also available at http://www.io-warnemuende.de/Projects/Basys/reports/final/en_home.htm .
328. Hongisto, M., Sofiev, M., Joffre, S. (1999) Capacity to predict inputs by models. *In Zuelicke C. (ed.) Proc. of the Third Basys Annual Sci. Conf., IOW Warnemunde, 20-22 Sep 1999*, pp. 136-147, also available at <http://www.io-warnemunde.de/public/bio/basys/con3/con3.htm>.
329. Grigoryan, S., Galperin, M., Sofiev, M. (1998) Numerical Approaches to the Simulation of Wind Elevation of Polydispersional Particles From Land Surface to the Atmosphere. *Proc. of EUROTRAC Symposium '98, ed. by P.M.Borrell, P.Borrell, 1*, WIT press, Southampton, pp.585-589.
330. Sofiev, M. (1998). The influence of the far located sources to the acid deposition on the European countries. *Proc. of EUROTRAC Symposium '98, ed. by P.M.Borrell, P.Borrell, 2*, WIT press, Southampton, pp.586-590.
331. Sofiev, M. (1998). A computer simulation of the antropogenic mercury accumulation in the environment. *Proc. of EUROTRAC Symposium '98, ed. by P.M.Borrell, P.Borrell, 2*, WIT press, Southampton, pp.369-373.
332. Sofiev, M.A., Gusev, A.V., Lenhart, L. (1996) Experimental study of the sensitivity of the long-range air pollution transport model to the temporal resolution of emission data, *Proc. of EUROTRAC Symposium '96, ed. by P.M.Borrell, P.Borrell, T.Cvitas, K.Kelly and W.Seiler*, Computational Mechanism Publications, Southampton.
333. Bashkin, V., Erdman, L., Kozlov, M., Sofiev, M., Dedkova, I., Grigoryan, S., Subbotin, S., Cheshukina, T., Abramishevich, A., Priputina, I., Tankanag, A., Chekina, I. (1996) The evaluation of the relation of atmospheric deposition to riverine input of nitrogen to the Baltic Sea. *Baltic Sea Environment Proceedings*.
334. Galperin, M., Sofiev, M., Cheshukina, T. (1996) An approach to zoom modelling of acid deposition on the basis of sulphur compounds evaluation for Sankt-Peterburg region. In: Pre-prints of the 4th Workshop on harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Oostende, Belgium.
335. Galperin, M., Sofiev, M., Mantseva, E. (1995) "A long-range transport model for mercury", in *Proc. of the International Conference Heavy Metals in the Environment*, Ed.R-D.Wilken, V.Forstner, A.Knochel, Hamburg, pp.216-219.
336. Galperin, M., Afinogenova, O., Grigoryan, S., Sofiev, M. (1995) "Long-range model for the evaluation of Airborne Pb, Cd, As and Zn Pollution", in *Proc. of the International Conference Heavy Metals in the Environment*, Eds. R-D.Wilken, V.Forstner, A.Knochel, Hamburg, pp.212-215.

337. Galperin, M., Cheshukina, T., Sofiev, M., Dedkova, I. (1994) MSC-E experience of modelling of sulphur and nitrogen compounds, ozone and trace metal long-range transport and their depositions and concentrations, Proceedings of Eurotrac Symposium'94 / ed. P. M. Borrell, P.Borrell, T.Cvitas, W.Seiler - The Hague : SPB Academic Publishing. - I11, pp.874-878.
338. Galperin, M., Sofiev, M. (1994) Errors in the validation of models for long-range transport and critical loads stipulated by stochastic properties of pollution fields. Proc. of EMEP workshop on the Accuracy of Measurements, EMEP/CCC Rep.2/94, pp. 162-179.
339. Sofiev, M. (1994) Statistical Properties of the Model Verification Problem and Special Methods for Comparison of Measured and Calculated Data, Proceedings of Eurotrac Symposium'94 / ed. P. M. Borrell, P.Borrell, T.Cvitas, W.Seiler - The Hague : SPB Academic Publishing. - I11, p.869-873.
340. Sofiev, M., Galperin, M. (1994), Robustness of Methods for Comparison of Measured and Calculated Data, Proc. of EMEP workshop on the Accuracy of Measurements, EMEP/CCC Rep.2/94, pp.315-341.

Other publications

341. Sofiev, M.A., Grigoryan, S.A. (1997) Numerical modelling of wind elevation and atmospheric transport of natural aerosols, *Animation film. Hydrometeorological Research centre of Russia and Scientific Application Centre "Delta"*, Moscow, 1997.