

Varrio Reports from the Varrio Subarctic Research Station

University of Helsinki

Peer-reviewed papers

- 337.** Helmens, K.F., Katrantsiotis, C., Kuosmanen, N., Luoto, T.P., Salonen, J.S., Väiliranta, M., 2021: Prolonged interglacial warmth during the Last Glacial in northern Europe. *Boreas*, 50: 331-350.
- 336.** Matkala, L., Kulmala, L., Kolari, P., Aurela, M., Bäck, J., 2021: Resilience of subarctic Scots pine and Norway spruce forests to extreme weather events. *Agricultural and Forest Meteorology*, 296, 108239.
- 335.** Pisek, J., Erb, A., Korhonen, L., Biermann, T., Carrara, A., Cremonese, E., Cuntz, M., Fares, S., Gerosa, G., Grünwald, T., Hase, N., Heliasz, M., Ibrom, A., Knohl, A., Kobler, J., Kruijt, B., Lange, H., Leppänen, L., Limousin, J.-M., Serrano, F. R. L., Loustau, D., Lukeš, P., Lundin, L., Marzuoli, R., Mölder, M., Montagnani, L., Neiryneck, J., Peichl, M., Rebmann, C., Rubio, E., Santos-Reis, M., Schaaf, C., Schmidt, M., Simioni, G., Soudani, K., Vincke, C., 2021: Retrieval and validation of forest background reflectivity from daily Moderate Resolution Imaging Spectroradiometer (MODIS) bidirectional reflectance distribution function (BRDF) data across European forests. *Biogeosciences*, 18, 621–635.
- 334.** Zhu, X., Chen, L., Pumpanen, J., Keinänen, M., Laudon, H., Ojala, A., Palviainen, M., Kiirikki, M., Neitola, K., Berninger, F., 2021: Assessment of a portable UV–Vis spectrophotometer's performance for stream water DOC and Fe content monitoring in remote areas. *Talanta*, Volume 224, 121919.
- 333.** Foltýnová, L., Fischer, M. McGloin, R.P., 2020: Recommendations for gap-filling eddy covariance latent heat flux measurements using marginal distribution sampling. *Theor. Appl. Climatol.*, 139, 677–688.
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- 331.** Ide, J., Ohashi, M., Köster, K., Berninger, F., Miura, I., Makita, N., Yamase, K., Palviainen, M., Pumpanen, J., 2020: Molecular composition of soil dissolved organic matter in recently-burned and long-unburned boreal forests. *International Journal of Wildland Fire* 29, 541-547.
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- 329.** Lindroth, A., Holst, J., Linderson, M-L., Aurela, M., Biermann, T., Heliasz, M., Chi, J., Ibrom, A., Kolari, P., Klemedtsson, L., Krasnova, A., Laurila, T., Lehner, I., Lohila, A., Mammarella, I., Mölder, M., Löfvenius, M. O., Peichl, M., Pilegaard, K., Soosaar, K., Vesala, T., Vestin, P., Weslien, P., Nilsson, M., 2020: Effects of drought and meteorological forcing on carbon and water fluxes in Nordic forests during the dry summer of 2018. *Phil. Trans. R. Soc. B* 375: 20190516.
- 328.** Matkala, L., Salemaa, M., Bäck, J., 2020: Soil total phosphorus and nitrogen explain vegetation community composition in a northern forest ecosystem near a phosphate massif. *Biogeosciences*, 17, 1535–1556.
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- 326.** Petäjä, T., Duplissy, E.-M., Tabakova, K., Schmale, J., Altstädter, B., Ancellet, G., Arshinov, M., Balin, Y., Baltensperger, U., Bange, J., Beamish, A., Belan, B., Berchet, A., Bossi, R., Cairns, W. R. L., Ebinghaus, R., El Haddad, I., Ferreira-Araujo, B., Franck, A., Huang, L., Hyvärinen, A., Humbert, A., Kalogridis, A.-C., Konstantinov, P., Lampert, A., MacLeod, M., Magand, O., Mahura, A., Marelle, L., Masloboev, V., Moiseev, D., Moschos, V., Neckel, N., Onishi, T., Osterwalder, S., Ovaska, A., Paasonen, P., Panchenko, M., Pankratov, F., Pernov, J. B., Platis, A., Popovicheva, O., Raut, J.-C., Riandet, A., Sachs, T., Salvatori, R., Salzano, R., Schröder, L., Schön, M., Shevchenko, V., Skov, H., Sonke, J. E., Spolaor, A., Stathopoulos, V. K., Strahlendorff, M., Thomas, J. L., Vitale, V., Vratolis, S., Barbante, C., Chabrilat, S., Dommergue, A., Eleftheriadis, K., Heilimo, J., Law, K. S., Massling, A., Noe, S. M., Paris, J.-D., Prévôt, A. S. H., Riipinen, I., Wehner, B., Xie, Z., Lappalainen, H. K., 2020: Overview: Integrative and Comprehensive Understanding on Polar Environments (iCUPE) – concept and initial results, *Atmos. Chem. Phys.*, 20, 8551–8592.
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- 324.** Taipale, D., Aalto, J., Schiestl-Aalto, P., Kulmala, M., Bäck, J., 2020: The importance of accounting for enhanced emissions of monoterpenes from new Scots pine foliage in models - A Finnish case study. *Atmospheric Environment: X*, 8, 100097.
- 323.** Tepsell, J., Rämö, O. T., Heinonen, A., Lahaye, Y., Haapala, P., Halkoaho, T., Heinonen, J. S., Höytiä, H., Konnunaho, J., Järvinen, V., 2020: Some new insights into the geochronology of the Western Karelia Subprovince, Finnish Lapland. *Bulletin of the Geological Society of Finland*, 92, 1, 5-17.
- 322.** Ylivinkka, I., Itämies, J., Klemola, T., Ruohomäki, K., Kulmala, M., Taipale, D., 2020: Investigating evidence of enhanced aerosol formation and growth due to autumnal moth larvae feeding on mountain birch at SMEAR I in northern Finland. *Boreal Env. Res.* 25: 121–143.
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