

Publication list

Kaisa Lakkala, FMI

1.1.2021

A) Peer-reviewed scientific articles:**2020**

Aun, M., Lakkala, K., Sanchez, R., Asmi, E., Nollas, F., Meinander, O., Sogacheva, L., De Bock, V., Arola, A., de Leeuw, G., Aaltonen, V., Bolsée, D., Cizkova, K., Mangold, A., Metelka, L., Jakobson, E., Svendby, T., Gillotay, D., and Van Opstal, B.: Solar UV radiation measurements in Marambio, Antarctica, during years 2017–2019, *Atmos. Chem. Phys.*, 20, 6037–6054, <https://doi.org/10.5194/acp-20-6037-2020>, 2020.

Bernhard G., Fioletov V., Grooss J.-U., Ialongo I, Johnsen B, Lakkala K, Manney G., Müller R., Ozone and UV radiation [in State of the Climate in 2019], *Bull. Amer. Meteor. Soc.*, 101 (8), S274-S277, 2020, <https://doi.org/10.1175/2020BAMSStateoftheClimate.1>

Bernhard, G. H., Fioletov, V. E., Grooß, J.-U., Ialongo, I., Johnsen, B., Lakkala, K., Manney, G., Müller, R., Svendby, T. (2020). Record-breaking increases in Arctic solar ultraviolet radiation caused by exceptionally large ozone depletion in 2020. *Geophysical Research Letters*, 47, e2020GL090844. <https://doi.org/10.1029/2020GL090844>

Fountoulakis, I.; Diémoz, H.; Siani, A.-M.; Laschewski, G.; Filippa, G.; Arola, A.; Bais, A.F.; Backer, H.D.; Lakkala, K.; Webb, A.R.; Bock, V.D.; Karppinen, T.; Garane, K.; Kapsomenakis, J.; Koukoulis, M.-E.; Zerefos, C.S. Solar UV Irradiance in a Changing Climate: Trends in Europe and the Significance of Spectral Monitoring in Italy. *Environments* 2020, 7, 1. doi 10.3390/environments7010001

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Lakkala, K., Kujanpää, J., Brogniez, C., Henriot, N., Arola, A., Aun, M., Auriol, F., Bais, A. F., Bernhard, G., De Bock, V., Catalfamo, M., Deroo, C., Diémoz, H., Egli, L., Forestier, J.-B., Fountoulakis, I., Garcia, R. D., Gröbner, J., Hassinen, S., Heikkilä, A., Henderson, S., Hülsen, G., Johnsen, B., Kalakoski, N., Karanikolas, A., Karppinen, T., Lamy, K., León-Luis, S. F., Lindfors, A. V., Metzger, J.-M., Minvielle, F., Muskatel, H. B., Portafaix, T., Redondas, A., Sanchez, R., Siani, A. M., Svendby, T., and Tamminen, J.: Validation of TROPOMI Surface UV Radiation Product, *Atmos. Meas. Tech.*, 13, 6999–7024, <https://doi.org/10.5194/amt-13-6999-2020>, 2020.

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Bernhard G., Fioletov V., Grooss J.-U., Ialongo I, Johnsen B, Lakkala K, Manney G., Müller R., Ozone and UV radiation [in State of the Climate in 2018], Bull. Amer. Meteor. Soc., 100 (9), S165-S168, 2019, doi:10.1175/2019BAMSSStateoftheClimate.1.

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I. Fountoulakis, C. S. Zerefos, A. F. Bais, J. Kapsomenakis, M.-E. Koukouli, N. Ohkawara, V. Fioletov, H. De Backer, K. Lakkala, T. Karppinen, and A. R. Webb, 2018: Twenty-five years of spectral UV-B measurements over Canada, Europe and Japan: trends and effects from changes in ozone, aerosols, clouds and surface reflectivity. Comptes Rendus Geoscience, 350 (7), 393-402, <https://doi.org/10.1016/j.crte.2018.07.011>.

Lakkala, K., Arola, A., Gröbner, J., León-Luis, S. F., Redondas, A., Kazadzis, S., Karppinen, T., Karhu, J. M., Egli, L., Heikkilä, A., Koskela, T., Serrano, A., and Vilaplana, J. M.: Performance of the FMI cosine error correction method for the Brewer spectral UV measurements, Atmos. Meas. Tech., 11, 5167-5180, <https://doi.org/10.5194/amt-11-5167-2018>, 2018.

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