

Publications

Refereed Journals:

1. Aebi, C., **Gröbner, J.**, Kämpfer, N., and Vuilleumier, L.: Long-term study of cloud radiative effect, cloud fraction and cloud type at two stations in Switzerland using hemispherical sky cameras, *Atmos. Meas. Tech. Discuss.*, <https://doi.org/10.5194/amt-2017-184>, in review, 2017.
2. Stübi, R., Schill, H., Klausen, J., Vuilleumier, L., **Gröbner, J.**, Egli, L., and Ruffieux, D.: On the compatibility of Brewer total column ozone measurements in two adjacent valleys (Arosa and Davos) in the Swiss Alps, *Atmos. Meas. Tech. Discuss.*, <https://doi.org/10.5194/amt-2017-158>, in review, 2017
3. Meloni, D., di Sarra, A., Brogniez, G., Denjean, C., De Silvestri, L., Di Iorio, T., Formenti, P., Gómez-Amo, J. L., Gröbner, J., Kouremeti, N., Liuzzi, G., Mallet, M., Pace, G., and Sferlazzo, D. M.: Determining the infrared radiative effects of Saharan dust: a radiative transfer modelling study based on vertically resolved measurements at Lampedusa, *Atmos. Chem. Phys. Discuss.*, <https://doi.org/10.5194/acp-2017-591>, in review, 2017
4. **Gröbner, J.**, Kröger, I., Egli, L., Hülsen, G., Riechelmann, S., and Sperfeld, P.: The high-resolution extraterrestrial solar spectrum (QASUMEFTS) determined from ground-based solar irradiance measurements, *Atmos. Meas. Tech.*, 10, 3375-3383, <https://doi.org/10.5194/amt-10-3375-2017>, 2017
5. Schmalwieser, Alois W., **Gröbner, Julian**, Blumthaler, Mario, Klotz, Barbara, De Backer, Hugo, Bolsee, David, Werner, Rolf, Tomsic, Davor, Metelka, Ladislav, Eriksen, Paul, Jepsen, Nis, Aun, Margit, Heikkilä, Anu, Duprat, Thierry, S,mann, Henner, Weiss, Tilman, Bais, Alkis, Toth, Zoltan, Siani, Anna-Maria, Vaccaro, Luisa, Diemoz, Henri, Grifoni, Daniele, Zipoli, Gaetano, Lorenzetto, Giuseppe, Petkov, Boyan H., di Sarra, Alcide Giorgio, Massen, Francis, Yousif, Charles, Aculinin, Alex, r A., den Outer, Peter, Svendby, Tove, Dahlback, Arne, Johnsen, Bjorn, Biszczuk-Jakubowska, Julita, Krzyscin, Janusz, Henriques, Diamantino, Chubarova, Natalia, Kolarz, Predrag, Mijatovic, Zoran, Groselj, Drago, Pribulova, Anna, Gonzales, Juan Ramon Moreta, Bilbao, Julia, Guerrero, Jose Manuel Vilaplana, Serrano, Antonio, Andersson, Sandra, Vuilleumier, Laurent, Webb, Ann and O'Hagan, John, UV Index monitoring in Europe, *Photochem. Photobiol. Sci.*, doi: 10.1039/C7PP00178A, 2017.
6. Nyeki, S., Wacker, S., **Gröbner, J.**, Finsterle, W., and Wild, M.: Revising shortwave and longwave radiation archives in view of possible revisions of the WSG and WISG reference scales: methods and implications, *Atmos. Meas. Tech.*, 10, 3057-3071, <https://doi.org/10.5194/amt-10-3057-2017>, 2017.
7. Carlund, T., N. Kouremeti, S. Kazadzis, and **J. Gröbner**, Aerosol optical depth determination in the UV using a four-channel precision filter radiometer, *Atmos. Meas. Tech.*, 10, 905-923, 2017, doi:10.5194/amt-10-905-2017.
8. Zerefos, C. S., Eleftheratos, K., Kapsomenakis, J., Solomos, S., Inness, A., Balis, D., Redondas, A., Eskes, H., Allaart, M., Amiridis, V., Dahlback, A., De Bock, V., Diémoz, H., Engelmann, R., Eriksen, P., Fioletov, V., **Gröbner, J.**, Heikkilä, A., Petropavlovskikh, I., Jaroslowski, J., Josefsson, W., Karppinen, T., Köhler, U., Meleti, C., Repapis, C., Rimmer, J., Savinykh, V., Shirotov, V., Siani, A. M., Smedley, A. R. D., Stanek, M., and Stübi, R.: Detecting volcanic sulfur dioxide plumes in the Northern Hemisphere using the Brewer spectrophotometers, other networks, and satellite observations, *Atmos. Chem. Phys.*, 17, 551-574, doi:10.5194/acp-17-551-2017, 2017.
9. Hülsen, G., **J. Gröbner**, S. Nevas, P. Sperfeld, L. Egli, G. Porrovecchio, and M. Smid, Traceability of solar UV measurements using the QASUME reference spectroradiometer, *Applied Optics*, 55, 26, 7265-7275, 2016.
10. Barreto, Á., Cuevas, E., Granados-Muñoz, M.-J., Alados-Arboledas, L., Romero, P. M., **Gröbner, J.**, Kouremeti, N., Almansa, A. F., Stone, T., Toledano, C., Román, R., Sorokin, M., Holben, B., Canini, M., and Yela, M.: The new sun-sky-lunar Cimel CE318-T multiband photometer – a comprehensive performance evaluation, *Atmos. Meas. Tech.*, 9, 631-654, doi:10.5194/amt-9-631-2016, 2016.
11. Egli, L., **Gröbner, J.**, Hülsen, G., Bachmann, L., Blumthaler, M., Dubard, J., Khazova, M., Kift, R., Hoogendijk, K., Serrano, A., Smedley, A., and Vilaplana, J.-M.: Quality assessment of solar UV irradiance measured with array spectroradiometers, *Atmos. Meas. Tech.*, 9, 1553-1567, doi:10.5194/amt-9-1553-2016, 2016.
12. G. Cessateur, W. Schmutz, C. Wehrli, **J. Gröbner**, M. Haberleiter, M. Kretzschmar, E. Rozanov, M. Schöll, A. Shapiro, G. Thuillier, T. Egorova, W. Finsterle, N. Fox, J.-F. Hochedez, S. Koller, M. Meftah, P. Meindl, S. Nyeki, D. Pfiffner, H. Roth, M. Rouzé, M. Spescha, R. Tagirov, L. Werner and J.-U. Wyss,

- Solar irradiance observations with PREMOS filter radiometers on the PICARD mission: In-flight performance and data release, *A&A* 588, A126, 2016.
13. Vignola, F., Z. Derocher, J. Peterson, L. Vuilleumier, C. Felix, **J. Gröbner**, and N. Kouremeti, Effects of changing spectral radiation distribution on the performance of photodiode pyranometers, *Solar Energy*, 129, 224-235, 2016.
 14. **Gröbner, J.**, I. Reda, S. Wacker, S. Nyeki, K. Behrens, and J. Gorman, Reply to comment by R. Philipona on "A new absolute reference for atmospheric longwave irradiance measurements with traceability to SI units", *J. Geophys. Res. Atmos.*, 120, 6885–6886, doi:10.1002/2015JD023345, 2015.
 15. Nyeki, S., C. Wehrli, **J. Gröbner**, N. Kouremeti, S. Wacker, C. Labuschagne, N. Mbatha, and E.-G. Brunke, The GAW-PFR aerosol optical depth network: The 2008-2013 time series at Cape Point Station, South Africa, *J. Geophys. Res. Atmos.*, 120, doi: 10.1002/2014JD022954, 2015.
 16. Wacker, S., **J. Gröbner**, C. Zysset, L. Diener, P. Tzoumanakis, A. Kazantzidis, L. Vuilleumier, R. Stöckli, S. Nyeki, and N. Kämpfer, Cloud observations in Switzerland using hemispherical sky cameras, *J. Geophys. Res. Atmos.*, 120, doi: 10.1002/2014JD022643, 2015.
 17. Gröbner, M., **J. Gröbner**, and G. Hülsen, Quantifying UV exposure, vitamin D status and their relationship in a group of high school students in an alpine environment, *Photochem. Photobiol. Sci.*, 14, 352, DOI : 10.1039/c4pp00324a, 2015.
 18. Feldmann A., Burnitt T., Porrovecchio G., Smid M., Egli L., **Gröbner J.**, Nield K.: 2014, Diode-Array UV solar spectroradiometer implementing a digital micromirror Device, *Metrologia*, 51, 6, 2014. Doi:10.1088/0026-1394/51/6/S289.
 19. Lathon, M., Lohou, F., Pino, D., Couvreur, F., Pardyjak, E. R., Reuder, J., Vila-Guerau de Arellano, J., Durand, P., Hartogensis, O., Legain, D., Augustin, P., Gioli, B., Lenschow, D. H., Faloona, I. and Yagüe, C., Alexander, D. C., Angevine, W. M., Bargain, E., Barrie, J., Bazile, E., Bezombes, Y., Blay-Carreras, E., van de Boer, A., Boichard, J. L., Bourdon, A., Butet, A., Campistron, B., de Coster, O., Cuxart, J., Dabas, A., Darbieu, C., Deboudt, K., Delbarre, H., Derrien, S., Flament, P., Fourmentin, M., Garai, A., Gibert, F., Graf, A., **Gröbner, J.**, Guichard, F., Jimenez, M. A., Jonassen, M., van den Kroonenberg, A., Magliulo, V., Martin, S., Martinez, D., Mastrorillo, L., Moene, A. F., Molinos, F., Moulin, E., Pietersen, H. P., Pignatelli, B., Pique, E., Roman-Cascon, C., Rufin-Soler, C., Said, F., Sastre-Marugan, M., Seity, Y., Steeneveld, G. J., Toscano, P., Traulle, O., Tzanos, D., Wacker, S., Wildmann, N. and Zaldei, A., The BLLAST field experiment: Boundary-Layer Late Afternoon and Sunset Turbulence, *Atmos. Chem. Phys.*, 14, 10931-10960, doi: 10.5194/acp-14-10931-2014, 2014.
 20. Kazadzis, S., Veselovskii, I., Amiridis, V., **Gröbner, J.**, Suvorina, A., Nyeki, S., Gerasopoulos, E., Kouremeti, N., Taylor, M., Tsekeri, A., and Wehrli, C.: Aerosol microphysical retrievals from precision filter radiometer direct solar radiation measurements and comparison with AERONET, *Atmos. Meas. Tech.*, 7, 2013-2025, doi:10.5194/amt-7-2013-2014, 2014.
 21. Nevas, S., **Gröbner J.**, Egli, L., and M. Blumthaler, Stray light correction of array spectroradiometers for solar UV measurements, *App. Opt.*, 53, 19, 4313-4319, 2014.
 22. **Gröbner, J.**, I. Reda, S. Wacker, S. Nyeki, K. Behrens, and J. Gorman (2014), A new absolute reference for atmospheric longwave irradiance measurements with traceability to SI units, *J. Geophys. Res. Atmos.*, 119, doi:10.1002/2014JD021630.
 23. Stenke, A., Hoyle, C. R., Luo, B., Rozanov, E., **Gröbner, J.**, Maag, L., Brönnimann, S., and Peter, T.: Climate and chemistry effects of a regional scale nuclear conflict, *Atmos. Chem. Phys.*, 13, 9713-9729, doi:10.5194/acp-13-9713-2013, 2013.
 24. Wacker, S., **J. Gröbner**, and L. Vuilleumier, A method to calculate cloud-free longwave irradiance at the surface based on radiative transfer modeling and temperature lapse rate estimates, *Theor. Appl. Climatol.*, 115, 551-561, 2013, DOI 10.1007/s00704-013-0901-5 .
 25. Yelena Nezval, Natalia Chubarova, **Julian Gröbner**, and Atsumu Ohmura, Variations of longwave downwelling irradiance (LDI) due to different atmospheric factors in Moscow, *AIP Conf. Proc.* 1531, 580 (2013), DOI:10.1063/1.4804836
 26. Luca Egli, **Julian Gröbner**, Marek Smid, Geiland Porrovecchio, Tim Burnitt, Kathryn M. Nield, Steve Gibson, Jimmy Dubard, Saulius Nevas, and Maurizio Tormen, New technologies to reduce stray light for measuring solar UV with array spectroradiometers, *AIP Conf. Proc.* 1531, 825 (2013), DOI:10.1063/1.4804897
 27. S. Nyeki, **J. Gröbner**, and C. Wehrli, Ground-based aerosol optical depth inter-comparison campaigns at European EUSAAR super-sites, *AIP Conf. Proc.* 1531, 584 (2013), DOI:10.1063/1.4804837

28. Kaisa Lakkala, Antti Arola, Anu Heikkilä, Juha M. Karhu, Jussi Kaurola, Tapani Koskela, Esko Kyro, Petri Karha, Anders V. Lindfors, Outi Meinander, **Julian Gröbner**, and Gregor Hulsen, Two decades of spectral UV measurements at Sodankylä, *AIP Conf. Proc.* 1531, 883 (2013), DOI:10.1063/1.4804912
29. Stefan Wacker, **Julian Gröbner**, and Laurent Vuilleumier, Trends in surface radiation and cloud radiative effect over Switzerland in the past 15 years, *AIP Conf. Proc.* 1531, 672 (2013), DOI:10.1063/1.4804859
30. Henri Diemoz, Luca Egli, **Julian Gröbner**, Anna Maria Siani, and Fabrizio Diotri, Solar ultraviolet irradiance measurements in Aosta (Italy): An analysis of short- and middle-term spectral variability, *AIP Conf. Proc.* 1531, 856 (2013), DOI:10.1063/1.4804905
31. Neil Swift, Gregor Hulsen, Kathryn Nield, **Julian Gröbner**, and John Hamlin, Calibration of erythemally weighted broadband instruments: A comparison between PMOD/WRC and MSL, *AIP Conf. Proc.* 1531, 817 (2013), DOI:10.1063/1.4804895
32. Mario Blumthaler, **Julian Gröbner**, Luca Egli, and Saulius Nevas, A guide to measuring solar UV spectra using array spectroradiometers, *AIP Conf. Proc.* 1531, 805 (2013), DOI:10.1063/1.4804892
33. **Julian Gröbner** and Stefan Wacker, Longwave irradiance measurements using IRIS radiometers at the PMOD/WRC-IRS, *AIP Conf. Proc.* 1531, 488 (2013), DOI:10.1063/1.4804813
34. G. Porrovecchio, M. Smid, **J. Gröbner**, M. Rajteri, C. Portesi, K. M. Nield, and L. Egli, New detection systems for UV solar reference scanning spectroradiometers, *AIP Conf. Proc.* 1531, 837 (2013), DOI:10.1063/1.4804900
35. E.I. Nezval, N.E. Chubarova, **J. Gröbner**, A. Omura, 2012, published in *Izvestiya AN. Fizika Atmosfery i Okeana*, 2012, Vol. 48, No. 6, pp. 682–690..
36. Egorova, T., Rozanov, E., **Gröbner, J.**, Hauser, M., and Schmutz, W.: Montreal Protocol Benefits simulated with CCM SOCOL, *Atmos. Chem. Phys.*, 13, 3811-3823, doi:10.5194/acp-13-3811-2013, 2013
37. Nyeki, S., C. H. Halios, W. Baum, K. Eleftheriadis, H. Flentje, **J. Gröbner**, L. Vuilleumier, and C. Wehrli (2012), Ground-based aerosol optical depth trends at three high-altitude sites in Switzerland and southern Germany from 1995 to 2010, *J. Geophys. Res.*, 117, D18202, doi:10.1029/2012JD017493.
38. **Gröbner, J.**, A Transfer Standard Radiometer for atmospheric longwave irradiance measurements, *Metrologia*, **49**, S105-S111, 2012.
39. Petkov, B., V. Vitale, **J. Gröbner**, G. Hülsen, S. De Simone, V. Gallo, C. Tomasi, M. Busetto, V. Lonar Barth, C. Lanconelli, and M. Mazzola, Short-term variations in surface UV-B irradiance and total column ozone at Ny-Ålesund during the QAARC campaign, *Atm. Env.* **108**, 9-18, 2012.
40. Anton, M., M. Sorribas, Y. Bennouna, J. M., Vilaplana, V. E. Cachorro, **J. Gröbner**, and L. Alados-Arboledas, Effects of an extreme desert dust event on the spectral ultraviolet irradiance at El Arenosillo (Spain), *J. Geophys. Res.*, 117, D03205, doi:10.1029/2011JD016645, 2012.
41. Wacker S., **J. Gröbner**, D. Nowak, L. Vuilleumier, and N. Kämpfer, Cloud effect of persistent stratus nebulosus at the Payerne BSRN site, *Atmos. Res.*, 102, 1-9, 2011.
42. Wacker S., **J. Gröbner**, K. Hocke, N. Kämpfer, and L. Vuilleumier, Trend analysis of surface cloud-free downwelling longwave radiation from four Swiss sites, *J. Geophys. Res.*, 116, D10104, doi:10.1029/2010JD015343, 2011.
43. Kazadzis S., **J. Gröbner**, A. Arola, and V. Amiridis, The effect of the global UV irradiance measurement accuracy on the single scattering albedo retrieval, *Atmos. Meas. Tech.*, 3, 1029-1037, 2010, doi: 10.5194/amt-3-1029-2010
44. **Gröbner J.**, G. Hülsen, S. Wuttke, O. Schrems, S. De Simone, V. Gallo, C. Rafaneli, B. Petkov, V. Vitale, K. Edvardsen, and K. Stebel, Quality Assurance of solar UV irradiance in the Arctic, *Photochem. Photobiol. Sci.*, 2009, DOI: 10.1039/B9PP00170K
45. Scarnato, B., J. Staehelin, T. Peter, **J. Gröbner**, and R. Stübi (2009), Temperature and slant path effects in Dobson and Brewer total ozone measurements, *J. Geophys. Res.*, 114, D24303, doi:10.1029/2009JD012349.
46. **Gröbner, J.**, S. Wacker, L. Vuilleumier, and N. Kämpfer (2009), Effective atmospheric boundary layer temperature from longwave radiation measurements, *J. Geophys. Res.*, 114, D19116, doi:10.1029/2009JD012274.
47. Werner Schmutz, André Fehlmann, Gregor Hülsen, Peter Meindl, Rainer Winkler, Gérard Thuillier, Peter Blattner, François Buisson, Tatiana Egorova, Wolfgang Finsterle, Nigel Fox, Julian **Gröbner**, Jean-François Hochedez, Silvio Koller, Mustapha Meftah, Mireille Meissonnier, Stephan Nyeki, Daniel Pfiffner,

- Hansjörg Roth, Eugene Rozanov, Marcel Spescha, Christoph Wehrli, Lutz Werner and Jules U Wyss, The PREMOS/PICARD instrument calibration, *Metrologia* 46 S202-S206, 2009 doi: 10.1088/0026-1394/46/4/S13.
48. Cachorro V. E., A. Berjon, C. Toledano, S. Mogo, N. Prats, A. M. de Frutos, J. M. Vilaplana, M. Sorribas, B. A. de la Morena, J. **Gröbner**, N. Laulainen, Detailed Aerosol Optical Depth Intercomparison between Brewer and Li-Cor 1800 Spectroradiometers and a Cimel Sun Photometer. *J. Atmos. Ocean. Tech.*, 26, 1558-1571, 2009, DOI: 10.1175/2009JTECHA1217.1..
 49. Wacker, S., J. **Gröbner**, C., Emde, L. Vuilleumier, B. Mayer, and E. Rozanov, Comparison of measured and modeled nocturnal clear sky longwave downward radiation at Payerne, Switzerland, *Current problems in atmospheric radiation (IRS 2008): Proceedings of the International Radiation Symposium (IRC/IAMAS)*, AIP Conf. Proc, Volume 1100, pp 589-592, DOI:10.1063/1.3117055
 50. M. Anton, A. Serrano, M. L. Cancillo, J. M. Vilaplana, V. E. Cachorro, and J. **Gröbner**, Correction of angular response error in Brewer UV irradiance measurements, *J. Atmos. Ocean. Tech.*, 25, 2018, 2027, 2008, DOI: 10.1175/2008JTECHA1040.1.
 51. Gunther Seckmeyer, Merle Glandorf, Cordula Wichers, Richard McKenzie, Diamantino Henriques, Fernanda Carvalho, Ann Webb, Anna-Maria Siani, Alkiviadis Bais, Berit Kjeldstad, Colette Brogniez, Peter Werle, Tapani Koskela, Kaisa Lakkala, Julian **Gröbner**, Harry Slaper, Peter denOuter and Uwe Feister, Europe's darker atmosphere in the UV-B, *Photochem. Photobiol. Sci.*, 2008, 7, 925 - 930, DOI: 10.1039/b804109a
 52. Hülsen, G., **Gröbner**, J., Bais, A., Blumthaler, M., Disterhoft, P., Johnsen, B., Lantz, K. O., Meleti, C., Schreder, J., Vilaplana Guerrero, J. M., and Ylianttila, L.: Intercomparison of erythemal broadband radiometers calibrated by seven UV calibration facilities in Europe and the USA, *Atmos. Chem. Phys.*, 8, 4865-4875, 2008.
 53. J. **Gröbner**, Operation and Investigation of a tilted bottom cavity for pyrgeometer characterizations, *Applied Optics*, 47, 4441-4447, 2008.
 54. K. Lakkala, A. Arola, A. Heikkilä, J. Kaurola, T. Koskela, E. Kyrö, A. Lindfors, O. Meinander, A. Tanskanen, J. **Gröbner**, and G. Hülsen, Quality assurance of the Brewer UV measurements in Finland, *Atmos. Chem. Phys.*, 8, 3369-3383, 2008.
 55. S. Thiel, L. Ammannato, A. Bais, B. Bandy, M. Blumthaler, B. Bohn, O. Engelsen, G. P. Gobbi, J. **Gröbner**, E. Jäkel, W. Junkermann, S. Kazadzis, R. Kift, B. Kjeldstad, N. Kouremeti, A. Kylling, B. Mayer, P. S. Monks, C. E. Reeves, B. Schallhart, R. Scheirer, S. Schmidt, R. Schmitt, J. Schreder, R. Silbernagl, C. Topaloglou, T. M. Thorseth, A. R. Webb, M. Wendisch, and P. Werle, Influence of clouds on the spectral actinic flux density in the lower troposphere (INSPECTRO): overview of the field campaigns, *Atmos. Chem. Phys.*, 8, 1-24, 2008.
 56. Seckmeyer G., D. Pissulla, M. Glandorf, D. Henriques, B. Johnsen, A. Webb, A. Siani, A. Bais, B. Kjeldstad, C. Brogniez, J. Lenoble, B. Gardiner, P. Kirsch, T. Koskela, J. Kaurola, B. Uhlmann, H. Slaper, P. den Outer, M. Janouch, P. Werle, J. **Gröbner**, B. Mayer, A. de la Casiniere, S. Simic and F. Carvalho, Variability of UV irradiance in Europe, *Photochem. Photobiol.*, 2007, 83:1-8, DOI: 10.1111/j.1751-1097.2007.00216.x
 57. **Gröbner**, J. and A. Los, Laboratory Calibration of pyrgeometers with known spectral responsivities, *Applied Optics*, 46, 7419-7425, 2007.
 58. Hülsen, G., and J. **Gröbner**, Characterisation and Calibration of UV Broadband Radiometers Measuring Erythemally Weighted Irradiance, *Applied Optics*, 46, 5877-5886, 2007.
 59. **Gröbner**, J., and M. Blumthaler, Experimental Determination of the reference plane of shaped diffusers by solar ultraviolet measurements, *Optics Letters*, 32, 80-82, January 1, 2007.
 60. García, O. E., A. M. Díaz, F. J. Expósito, J. P. Díaz, J. **Gröbner**, and V. E. Fioletov (2006), Cloudless aerosol forcing efficiency in the UV region from AERONET and WOUDC databases, *Geophys. Res. Lett.*, 33, L23803, doi:10.1029/2006GL026794.
 61. Reda, I., J. R. Hickey, J. **Gröbner**, A. Andreas, T. Stoffel (2006), Calibrating pyrgeometers outdoors independent from the reference value of the atmospheric longwave irradiance, *J. Atm. Solar-Terr. Phys.*, 68, 1416-1424, 2006, doi: 10.1016/j.jastp.2006.05.013
 62. Kazantzidis, A., A. F. Bais, J. **Gröbner**, J. R. Herman, S. Kazadis, N. Krotkov, E. Kyrö, P. N. den Outer, K. Garane, P. Görts, K. Lakkala, C. Meleti, H. Slaper, R. B. Tax, T. Turunen, and C. S. Zerefos (2006), Comparison of satellite-derived UV irradiances with ground-based measurements at four European stations, *J. Geophys. Res.*, 111, D13207, doi: 10.1029/2005JD006672, 2006.

63. **Gröbner**, J., M. Blumthaler, S. Kazadzis, A. Bais, A. Webb, J. Schreder, G. Seckmeyer, and D. Rembges, Quality Assurance of spectral solar UV measurements: results from 25 UV monitoring sites in Europe, 2002 to 2004, *Metrologia*, 43, 66-71, 2006. doi: 10.1088/0026-1394/43/2/S14.
64. Arola, A., S. Kazadzis, N. Krotkov, A. Bais, J. **Gröbner**, and J. R. Herman (2005), Assessment of TOMS UV bias due to absorbing aerosols, *J. Geophys. Res.*, 110, D23211, doi: 10.1029/2005JD005913.
65. A. F. Bais, S. Kazadzis, K. Garane, N. Kouremeti, J. **Gröbner**, M. Blumthaler, G. Seckmeyer, A. R. Webb, T. Koskela, P. Görts, and J. Schreder, A portable device for characterizing the angular response of UV spectroradiometers, *Applied Optics*, 44, 7136-7143, 2005.
66. **Gröbner**, J., J. Schreder, S. Kazadzis, A. F. Bais, M. Blumthaler, P. Görts, R. Tax, T. Koskela, G. Seckmeyer, A. R. Webb, and D. Rembges, Traveling reference spectroradiometer for routine quality assurance of spectral solar ultraviolet irradiance measurements, *Applied Optics*, 44, 25, 5321-5331, 2005.
67. **Gröbner** J., and P. Sperfeld, "Direct traceability of the portable QASUME irradiance scale to the primary irradiance standard of the PTB," *Metrologia*, 42, 134–139, 2005.
68. **Gröbner** J., and C. Meleti, Aerosol optical depth in the UVB and visible wavelength range from Brewer spectrophotometer direct irradiance measurements: 1991-2002, *J. Geophys. Res.*, 109, D09202, doi: 10.1029/2003JD004409, 2004.
69. Schreder J., **Gröbner** J., Los A., and M. Blumthaler, Intercomparison of monochromatic source facilities for the determination of the relative spectral response of erythral broadband filter radiometers, *Optics Letters*, 29, July 1, 2004.
70. **Gröbner**, J., Improved entrance optic for global irradiance measurements with a Brewer spectrophotometer, *Applied Optics*, 42, 3516- 3521, 2003.
71. **Gröbner**, J., D. Rembges, A. Bais, M. Blumthaler, T. Cabot, W. Josefsson, T. Koskela, T. Morten, A. Webb, U. Wester, Quality assurance of reference standards from nine European solar-ultraviolet monitoring laboratories, *Applied Optics*, 41, 4278-4282, 2002.
72. Lenoble, J., T. Martin, M. Blumthaler, R. Philipona, A. Abold, T. Cabot, A. de La Casiniere, J. **Gröbner**, D. Masserot, M. Müller, T. Pichler, G. Seckmeyer, D. Schmucki, M., Lamine Toure, A. Yvon, Retrieval of the ultraviolet aerosol optical depth during a spring campaign in the Bavarian Alps, *Applied Optics*, 41, 1629-1639, 2002.
73. **Gröbner**, J., Characterization of spectrometers used for spectral solar ultraviolet radiation measurements, *Rad. Prot. Dos.*, 97, 415-418, 2001.
74. Weihs, P., J. Lenoble, M. Blumthaler, T. Martin, G. Seckmeyer, R. Philipona, A. De la Casiniere, C. Sergent, J. **Gröbner**, T. Cabot, D. Masserot, T. Pichler, E. Pougatch, G. Rengarajan, D. Schmucki, and S. Simic, Modeling the effect of an inhomogeneous surface albedo on incident UV radiation in mountainous terrain: determination of an effective surface albedo, *Geophys. Res. Lett.*, 28, 3111-3114, 2001.
75. Bais, A.F., B. G. Gardiner, H. Slaper, M. Blumthaler, G. Bernhard, R. McKenzie, A. R. Webb, G. Seckmeyer, B. Kjeldstad, T. Koskela, P. J. Kirsch, J. **Gröbner**, J. B. Kerr, S. Kazadzis, K. Leszczynski, D. Wardle, W. Josefsson, C. Brogniez, D. Gillotay, H. Reinen, P. Weihs, T. Svenoe, P. Erikson, F. Kuik, and A. Redondas, SUSPEN intercomparison of ultraviolet spectroradiometers, *J. Geophys. Res.*, 106, 12509-12525, 2001.
76. **Gröbner**, J., Vergaz, R., Cachorro, E., Henriques, D. V., Lamb, K., Redondas, A., Vilaplana, J. M., and D. Rembges, Intercomparison of aerosol optical depth measurements in the UVB using Brewer spectrophotometers and a Li-cor spectrophotometer, *Geophys. Res. Lett.*, 28, 1691-1694, 2001.
77. **Gröbner**, J., and J. Kerr, Ground-based determination of the spectral ultraviolet extraterrestrial solar irradiance: Providing a link between space-based and ground-based solar UV measurements, *J. Geophys. Res.*, 106, 7211-7217, 2001.
78. **Gröbner**, J., A. Albold, M. Blumthaler, T. Cabot, A. De la Casiniere, J. Lenoble, T. Martin, D. Masserot, M. Müller, R. Philipona, T. Pichler, E. Pougatch, G. Rengarajan, D. Schmucki, G. Seckmeyer, C. Sergent, M. L. Toure, and P. Weihs, Variability of spectral solar ultraviolet irradiance in an alpine environment, *J. Geophys. Res.*, 105, 26991-27003, 2000.
79. **Gröbner**, J., Wardle, D.I., McElroy, C. T. and J. B. Kerr. An investigation on the wavelength accuracy of Brewer spectroradiometers. *Applied Optics*, 37, 8352-8360, 1998.

80. Bais, A. F., Blumthaler, M., Webb, A. R., **Gröbner**, J., Kirsch, P. J., Gardiner, B. G., Zerefos, C. S., Svenoe, T. and T. J. Martin. Spectral UV measurements over Europe within the second European Stratospheric Arctic and Midlatitude Experiment activities. *J. Geophys. Res.*, 102, D7, pp 8731-8736, 1997.
81. **Gröbner** J., Blumthaler, M. and W. Ambach, Experimental investigation of spectral global irradiance measurement errors due to a non ideal cosine response. *Geophys. Res. Lett.*, 23 (18), pp. 2493-2496, 1996.
82. Blumthaler, M., **Gröbner**, J., Huber, M. and W. Ambach, Measuring spectral and spatial variations of UVA and UVB sky radiance. *Geophys. Res. Lett.*, 23 (5), pp.547-550, 1996.
83. Ambach., W., Blumthaler, M. and J. **Gröbner**. Sports glasses and ultraviolet protection. *Wilderness and Environmental Medicine* 6, pp. 29-33, 1995.
84. Huber, M., J. **Gröbner**, A. Daxer, M. Blumthaler, W. Ambach, Erste Untersuchungen der Transmission der Hornhaut des humanen Auges in Hinblick auf die Photorefraktive Keratektomie, *Z. Med. Phys.*, 4, 211-212, 1994.
85. Gabrielse, G., W. Jhe, D. Phillips, W. Quint, L. Haarsma, K. Abdullah, H. Kalinowsky, J. **Gröbner**, A single Trapped Antiproton and Antiprotons for Antihydrogen Production, *Hyperfine Interactions*, 81, 5, 1993.
86. Gabrielse, G., W. Jhe, D. Phillips, W. Quint, H. Kalinowsky, J. **Gröbner**, Observing a Single Trapped Antiproton, *Nuclear Physics A* 558, 701c, 1993.
87. Gabrielse, G., W. Jhe, D. Phillips, W. Quint, C. Tseng, L. Haarsma, K. Abdullah, J. **Gröbner**, H. Kalinowsky, Extremely Cold Antiprotons for Antihydrogen Production, *Hyperfine Interactions*, 76, 81, 1993.
88. Gabrielse, G., W. Jhe, D. Phillips, W. Quint, C. Tseng, L. Haarsma, K. Abdullah, J. **Gröbner**, H. Kalinowsky, Extremely Cold Antiprotons, For Mass Measurements and Antihydrogen, in *Atomic Physics 13, Thirteenth International Conference on Atomic Physics*, 85, 1993.
89. Jhe, W., D. Phillips, G. Gabrielse, J. **Gröbner**, H. Kalinowsky, Precision Mass Measurements of Antiprotons in a Penning Trap, *Physica Scripta*, 46, 268, 1992.
90. Gabrielse, G., W. Jhe, D. Phillips, R. Kaiser, H. Kalinowsky, J. **Gröbner**, Antiprotons, Positrons and Antihydrogen, *Mat. Sci. Forum*, 75, 105-110, 1992.

Presentations at conferences (first author) and Conference Proceedings:

91. (not up to date)
92. J. Gröbner, The infrared Integrating Sphere (IRIS) Radiometer for atmospheric longwave radiation measurements, Xlth NEWRAD conference, Maui, Hawaii, 2011.
93. Kiedron P, J. Gröbner, A. Redondas, New ozone retrieval schemes from Brewer spectroradiometer data., XXV IUGG General Assembly, Melbourne, 2011.
94. Kiedron, P., J. Gröbner, J. Michalsky, Can ozone cross-sections be verified from ground based spectral solar ultraviolet irradiance measurements?, XXV IUGG General Assembly, Melbourne, 2011.
95. J. Gröbner et al., Erythemally weighted UV irradiances under Montreal and No Montreal Protocol conditions: 1960 to 2100, XXV IUGG General Assembly, Melbourne, 2011.
96. **Gröbner** J, S. Wacker, Lonwave Radiation at Davos and implications for cloud changes, GAW-CH Conference 18-19 January 2011, Zurich, Switzerland.
www.meteoschweiz.admin.ch/web/de/klima/klima_international/gaw-ch/gaw_ch_conference.html
97. Daglis I.A, Keramitsoglou I., Amiridis V., Petropoulos G., Kourtidis K., Georgoulas A., Melas D., Giannaros T., Sobrino J. A., Manunta P., **Gröbner** J., Paganini M., Bianchi R., Investigating the urban heat island (UHI) effect in Athens through a combination of space, airborne and ground-based Observations, 10th COMECAP proceedings, 469--477, 2010.
98. I.A. Daglis, S. Rapsomanikis, K. Kourtidis, D. Melas, A. Papayannis, . Keramitsoglou, T. Giannaros, V. Amiridis, G. Petropoulos, J. A. Sobrino, P. Manunta, J. **Gröbner**, M. Paganini, and R. Bianchi, Mapping The Urban Heat Island Effect In Athens: Results Obtained From The UHI And Thermopolis 2009 Projects, General Assembly EGU, G. Res. Abs., 12, EGU2010-915-1, 2010.

99. **Gröbner** J., G. Hülsen, and M. Blumthaler, Effect of snow albedo and topography on UV radiation, NIWA UV Workshop, 7-9 May 2010, Queenstown, 2010.
100. **Gröbner**, J., Wacker, S. and L. Vuilleumier: Effective boundary layer temperature from atmospheric water vapour emission. General Assembly EGU, G. Res. Abs., 11, 10014, 2009.
101. Wacker S., **Gröbner** J., Nowak, D., Vuilleumier, L. and N. Kämpfer, Surface Longwave Cloud Radiative Forcing of Stratus Clouds at the BSRN site Payerne, Switzerland. General Assembly EGU, G. Res. Abs., 11, 10787, 2009.
102. Wuttke, S., O. Schrems, J. **Gröbner**, A. Kreuter, M. Blumthaler, A new UV Spectroradiometer for the Primary Arctic NDACC Site Ny Alesund, Proc. MOCA 09 Joint Assembly, 19-29 July 2009, Montreal, Canada.
103. Hülsen G, **Gröbner** J.: Measurement of the Vitamin D3 Dose using Broadband ultraviolet Radiometers, Proc. MOCA 09 Joint Assembly, 19-29 July 2009, Montreal, Canada.
104. **Gröbner** J., Hülsen G: The quality assurance program for spectral UV measurements in Europe, Proc. MOCA 09 Joint Assembly, 19-29 July 2009, Montreal, Canada.
105. **Gröbner** J., Hülsen G: 2008, Long-term stability of the spectral irradiance reference QASUME, Proc. 10th NEWRAD Conference, 13-16 October, 2008, Daejeon, South Korea.
106. Meindl P., Vogel K., Koller S., **Gröbner** J., Hochedez J. F., Schmutz W., Werner L.: 2008, Characterization and Calibration of UV filter radiometers for the PREMOS (Precision Monitoring of Solar Variability) module on the PICARD Satellite mission, Proc. 10th NEWRAD Conference, 13-16 October, 2008, Daejeon, South Korea.
107. Schmutz W., Thuiller G., Hülsen G., Blattner P., Buisson F., Egorova T., Fehlmann A., Finsterle W., Fox N., **Gröbner** J., Hochedez J. F., Köller S., Meindl P., Meftah M., Meissonnier M., Nyeck S., Pfiffner D., Roth H., Rozanov E., Spescha M., Wehrli C., Werner L., Winkler R., Wyss J. U.: 2008, The Space Experiment PREMOS on the PICARD mission, Proc. 10th NEWRAD Conference, 13-16 October, 2008, Daejeon, South Korea.
108. Hülsen, G., **Gröbner**, J., Bais, A., Blumthaler, M., Disterhoft, P., Johnsen, B., Lantz, K. O., Meleti, C., Schreder, J., Vilaplana Guerrero, J. M., and Ylianttila, L.: Intercomparison of erythemal broadband radiometers calibrated by seven UV calibration facilities in Europe and the USA, IRS2008, August 3-8, 2008 Foz do Iguacu, Brazil.
109. S. Wacker, J. **Gröbner**, C. Emde, L. Vuilleumier, B. Mayer, and E. Rozanov, Comparison of Measured and Modeled Nocturnal Clear Sky Longwave Downward Radiation at Payerne, Switzerland, IRS 2008, August 3-8, 2008, Foz do Iguacu, Brazil.
110. S. Wacker, A. Viudez, J. **Gröbner**, E. Rozanov and L. Vuilleumier, Comparison of measured and modelled downwelling Longwave Infrared Radiation at Payerne, Switzerland, Geophysical Research Abstracts, Vol. 10, EGU2008-A-09693, 2008.
111. **Gröbner**, J.; Los, A., Calibration of Pyrgeometers: the Influence of the Spectral Sensitivity, General Assembly EGU 2007, G. Res. Abs., 9, 03323, 2007.
112. Litynska, Z.; De Backer, H.; Koepke, P.; Schmalwieser, A.W.; **Gröbner**, J., COST 726: Long term changes and climatology of UV radiation over Europe, General Assembly EGU 2007, G. Res. Abs., 9, 08151, 2007.
113. Hülsen, G.; **Gröbner**, J.; Blumthaler, M.; Gil Roca, J.; Vilaplana Guerrero, J.; Vuilleumier, L.; Walker, D., Results from the PMOD/WRC-COST726 broadband intercomparison campaign, General Assembly EGU 2007, G. Res. Abs., 9, 02917, 2007.
114. Nyeki S., C. Wehrli, and J. **Gröbner**, Aerosol Optical Depth: Current Status of the GAW sun photometer network, IUGG, XXIV General Assembly, Perugia, 2-13 July, 2007.
115. Vilaplana, J. M., J. **Gröbner**, A. Serrano, M. Antón, and M. L. Cancillo. A laboratory intercomparison of broadband radiometers used for solar erythemal irradiance measurements, Proceedings of SPIE Vol. 6362, Remote Sensing of Clouds and the Atmosphere XI. pp. 63620Y/1-7, <http://dx.doi.org/10.1117/12.689865>, 2006.
116. Vilaplana, J. M., and J. **Gröbner**, Broadband radiometer calibrations at INTA-El Arenosillo and its role in the COST-726 European Action, Proceed. 5a Asamblea Hispano-Portuguesa de Geodesia Y Geofisica, March 2006, Sevilla, Spain, 2006.
117. Anton, M., J. M. Vilaplana, M. L. Cancillo, A. Serrano, J. **Gröbner**, J. A. Garcia, and B. de la Morena, Cosine error correction of Brewer spectroradiometer #150, Proceed. 5a Asamblea Hispano-Portuguesa de Geodesia Y Geofisica, March 2006, Sevilla, Spain, 2006.

118. Vuilleumier L., and J. **Gröbner**, Operational mode uncertainty for broadband erythral UV radiometers, Proc. 9th international conference NEWRAD, Davos, Switzerland, 17-19 October, 2005, ISBN-10 3-033-00570-5.
119. Blumthaler, M., J. **Gröbner**, A. F. Bais, J. Schreder, S. Kazadzis, G. Seckmeyer, and A. R. Webb, QA/QC of Spectral solar UV irradiance measurements, Proc. 9th international conference NEWRAD, Davos, Switzerland, 17-19 October, 2005, ISBN-10 3-033-00570-5.
120. Los A., and J. **Gröbner**, An Assessment of the UV Broad Band Filter Radiometer Measurement Accuracy, "The role of instruments in the Earth Observation Systems", Teco, 2005, Bucharest, Romania, 4-7 May 2005.
121. **Gröbner** J., Bais A. F., Kazadzis S., Blumthaler M., Schreder J., Görts P. C., Tax R. B., Koskela T., Seckmeyer G., Wuttke S., and A. R. Webb, Quality Assurance of Spectral Solar UV measurements in Europe (QASUME), Proc., XXth Quad. Ozone Symp., Ed., C. Zerefos, Kos, Greece, 1-8 June, 2004.
122. Verdebout J., and J. **Gröbner**, Satellite-derived UV climatology over Europe: daily doses maps from January 1984 to August 2003, Proc., XXth Quad. Ozone Symp., Ed., C. Zerefos, Kos, Greece, 1-8 June, 2004.
123. Meinander O., Koskela T., Lakkala K., Redondas A., Torres C., Cuevas E., Deferrari G., and J. **Gröbner**, Antarctic NILU-UV Network Linked to QASUME and NSF Irradiance Scale, Proc., XXth Quad. Ozone Symp., Ed., C. Zerefos, Kos, Greece, 1-8 June, 2004.
124. Bais A. F., Kazantzidis A., Meleti C., Garane K., **Gröbner** J., Herman J., Krotkov N., Kyrö E., Lakkala K., Turunen T., Reinen H., Görts P., den Outer P.N., Slaper H., Vanicek K., Janouch M., and M. Stanek, Validation of TOMS-derived surface UV irradiances with quality-checked spectral UV measurements from five European stations, Proc., XXth Quad. Ozone Symp., Ed., C. Zerefos, Kos, Greece, 1-8 June, 2004.
125. Verdebout J., **Gröbner** J., and D. Rembges, Concept for a natural UV Human exposure and erythral risk model, 5th International ICNIRP-NIR Workshop, Sevilla, Spain, 20-22 May, 2004.
126. Tapani K., and J. **Gröbner**, Another comparison of the UV irradiance standards obtained from different laboratories, Annual Meeting of the Nordic Ozone Group, Helsinki, 14-15 April, 2004.
127. Los A., and J. **Gröbner**, European UV Broadband Filter Radiometer Reference Scale, the 84th AMS annual meeting, Seattle, 10-16 January, 2004 (<http://ams.confex.com/ams/pdfpapers/67464.pdf>).
128. **Gröbner**, J., and C. Meleti, Aerosol optical depth measurements in the UVB and visible at Ispra, Italy:1992 to 2002, 28th General Assembly EGS, G. Res. Abs., 5, EGS03-8343, 2003.
129. **Gröbner**, J., Bais, M. Blumthaler, G. Seckmeyer, A. R. Webb, P. Gorts, T. Koskela, D. Rembges, S. Kazadzis, J. Schreder, P. Cotton, P. Kelly, N. Kouremeti, K. Rikkonen, H. Studemund, R. Tax, S. Wuttke, Quality Assurance of Spectral Ultraviolet Measurements in Europe Through the Development of a Transportable Unit (QASUME), 28th General Assembly EGS, G. Res. Abs., 5, EGS03-5942, 2003.
130. Verdebout, J., and J. **Gröbner**, Satellite-derived springtime UV Climatology over Europe: Daily doses maps from January 1984 to October 2002, 28th General Assembly EGS, G. Res. Abs., 5, EGS03-6170, 2003.
131. Bais, M. Blumthaler, J. **Gröbner**, G. Seckmeyer, A. R. Webb, P. Gorts, T. Koskela, D. Rembges, S. Kazadzis, J. Schreder, P. Cotton, P. Kelly, N. Kouremeti, K. Rikkonen, H. Studemund, R. Tax, S. Wuttke, Quality Assurance of Spectral Ultraviolet Measurements in Europe Through the Development of a Transportable Unit (QASUME), Proc. SPIE, 14-18 October, Shanghai, China, 2002.
132. Verdebout, J., and J. **Gröbner**, Satellite-derived springtime UV Climatology over Europe: Months of March, April and May from 1984 to 2001, 27th General Assembly EGS, G. Res. Abs., 4, EGS02-A-04026, 2002.
133. **Gröbner**, J., A. Bais, M. Blumthaler, T. Cabot, W. Josefsson, T. Koskela, T. Morten, A. Webb, U. Wester, D. Rembges, Quality assurance of reference standards from nine European solar UV monitoring laboratories, 27th General Assembly EGS, G. Res. Abs., 4, EGS02-A-03051, 2002.
134. Verdebout, J., and J. **Gröbner**, Satellite-derived maps over Europe: Building a Ten Year Data Set., Proc. of the EUMETSAT Meteorological Satellite Data Users' Conference, Atalya, Turkey, 2001.
135. **Gröbner**, J., Kouremeti, N, and D. Rembges, A systematic comparison of solar UV irradiance spectra with radiative transfer calculations, 8th European Symp. On the Physico. Chemical Behaviour of Atmospheric Pollutants, Torino, Italy, 2001.
136. Weihs, P., J. Lenoble, M. Blumthaler, G. Seckmeyer, R. Philipona, A. De la Casiniere, C. Sergent, T. Martin, J. **Gröbner**, T. Cabot, D. Masserot, D. Schmuki, S. Simie, and G. Rengarajan, Effective surface albedo due to snow cover of the surrounding area, Proc. Of SPIE, Vol. 4482, pp 152-159, 2001.

137. Casale, G.R., A.M. Siani, and J. **Gröbner**, Spettrofotometria solare UVB:Le stazioni di Roma ed Ispra, Proc. National Symposium ARPA, Ivrea, Italy, 2001.
138. Lenoble, J., T. Martin, M. Blumthaler, R. Philipona, A. Albold, T. Cabot, A. De la Casiniere, J. **Gröbner**, D. Masserot, M. Müller, T. Pichler, G. Seckmeyer, D. Schmuki, T. Toure, and A. Yvon, Measurements of the ultraviolet aerosol optical depth during a campaign in the Bavarian Alps: comparison of methods, altitude influence, 26th General Assembly EGS, G. Res. Abs., 3, 5139, 2001.
139. **Gröbner**, J., R. Vergaz, V.E. Cachorro, D.V. Henriques, K. Lamb, A. Redondas, J.M. Vilaplana, and D. Rembges, Intercomparison of aerosol optical depth measurements in the UVB using Brewer and LICOR spectrophotometers, 26th General Assembly EGS, G. Res. Abs., 3, 5129, 2001.
140. **Gröbner**, J., and D. Rembges, Reanalysis of the global UV irradiance data set at Ispra, Italy: 1991 to 2000, 26th General Assembly EGS, G. Res. Abs., 3, 5128, 2001.
141. **Gröbner**, J., Kerr, J. B., Slaper, H., and D. Rembges, An investigation on the long term wavelength accuracy of two Brewer spectrophotometers, 26th General Assembly EGS, G. Res. Abs., 3, 5127, 2001.
142. Redondas, A., J. **Gröbner**, J. P. Diaz, and J. M. Vilaplana, I Intercomparación Ibérica de Radiación UV. Metodología de la intercomparación de medidas solares. Resultados prelimiaries, 2 Asamblea Hispano-portuguesa de Geodesia y Geofisica, Lagos, Portugal, 435-436, 2000.
143. Casale, G.R., A.M. Siani, S. Miano, D. Meloni, S. Palmieri, and J. **Gröbner**, An investigation on high/low frequency ozone and UV irradiance variations, Proc. 2nd general assembly of the SPARC/WCRP project, Mar Del Plata, Argentina, 2000.
144. **Gröbner**, J., Blumthaler, M., De la Casiniere, A., Lenoble, J., Philipona, R., Seckmeyer, G., and P. Weihs, Solar UV irradiance variability characterized by simultaneous spectrometry, Proc., XIX Quad. O. Symp., Ed., R. Bojkov, and K. Shibasaki, 2000.
145. **Gröbner**, J., Determination of the ultraviolet extraterrestrial solar spectrum from ground based measurements, 24th General Assembly of the EGS, G. Res. Abs., 1, 477, 1999.
146. Blumthaler, M., Schreder, J. and J. **Gröbner**, UV sky radiance influenced by aerosols and tropospheric ozone - Measurements and modelling, IRS'96. Current Problems in Atmospheric Radiation. Smith and Stamnes (Ed.) ISBN 0-937194-39-5, 1996.
147. Blasbichler, A., Huber, M., Blumthaler, M., Ambach, W. and J. **Gröbner**, Spectral aerosol optical depth by sun-photometric measurements. Proc. of the 24th International Conference on Alpine Meteorology, Bled, Slovenia (ICAM 1996), 1996.
148. Huber, M., Blumthaler, M., Ambach, W., and J. **Gröbner**, Ground based total atmospheric ozone determination with an absolutely calibrated UV spectroradiometer, Proc. XVIII Quad. O. Symp., Ed., R. Bojkov and G. Visconti, 1996.

Other:

149. **Gröbner**, J., G. Hülsen, L. Vuilleumier, M. Blumthaler, J.M. Vilaplana, D. Walker, and J. E. Gill, Report of the PMOD/WRC-COST Calibration and Intercomparison of Erythemal Radiometers, COST726 report, PMOD/WRC, 2009.
150. Webb A. F., J. **Gröbner**, and M. Blumthaler, A practical guide to operating broadband instruments measuring erythemally weighted irradiance, EUR 22595, ISBN 92-898-0032-1, European Commission, 2006.
151. **Gröbner**, J., Kazadzis S., Schreder J., D. Bolsee, C. Brogniez, H. De Backer, A. G. di Sarra, U. Feister, P. Görts, D. Henriques, J. Jaroslowski, S. Simic, M. Stanec, M. Steinmetz, R. Tax, J. M. Vilaplana, Quality Assurance of spectral ultraviolet measurements in Europe through the development of a transportable unit (QASUME) – Report of site visits, Round 2004, EUR 20992 EN, European Commission, 2004.
152. **Gröbner** J., Kazadzis S., Schreder J., Cabot T., Görts P., Johnson B., Josefsson W., Karhu J., Kjeldstad B., Koskela T., Siani A., and A. R. Webb, Quality Assurance of spectral ultraviolet measurements in Europe through the development of a transportable unit (QASUME) – Report of site visits, Round 2003, EUR 20992 EN, European Commission, 2003.
153. **Gröbner** J., Kazadzis S., Schreder J., Bais A. F., Blumthaler M., Görts P., Koskela T., Seckmeyer G., Webb A. R., and S. Wuttke, Quality Assurance of spectral ultraviolet measurements in Europe through the development of a transportable unit (QASUME) – Report of site visits, Round 2002, EUR 20991 EN, European Commission, 2003.

154. **Gröbner**, J., M. Blumthaler, and J. Schreder, Characterisation report of the travelling standard B5503, EUR 20699, European Commission, 2003.

Academic Degrees:

155. **Gröbner**, J., Ultraviolet solar radiation measurements using a high precision spectrometer, Dissertation, University of Innsbruck, Austria, 1996.
156. **Gröbner**, J., Proton-Antiproton mass comparison in a high precision Penning trap, Diplomarbeit, University of Innsbruck, Austria, 1990.

Television -Interviews

-) SF1, Sendung Puls vom 11 April 2011 "Aggressive Frühlingssonne",
<http://www.puls.sf.tv/Nachrichten/Archiv/2011/04/11/Gesundheitsthemen/Sich-schuetzen-wie-im-Sommer>
-) TSR1, "Taches solaires au plus bas", Telejournal, Avril 2009.
-) SF1, 10 vor 10,

Public and invited Seminars

-) "Solare ultraviolette Strahlungsmessungen im Spannungsfeld von Umwelt und Klimawandel", PTB Kolloqium, 24 August 2017, Braunschweig, Germany.
-) „Solar UV radiation metrology: supporting Health and Climate Research“, International Summerschool "Frontiers of the measurable", 8-12 August 2017, Kloster Drübeck, Germany.
-) "Herausforderung Strahlungsmessungen", am 258. PTB Seminar, "Desertec- Herausforderung für Metrologie und technische Zusammenarbeit", 3 Dezember 2010, PTB Braunschweig.
-) "Solare ultraviolette Strahlung aus der Sichtweise eines Physikers", Podiumsdiskussion, Hochgebirgsklinik Davos, 18 Februar 2008.
-) "Physiker", Vortrag an der Primarschule Davos (6 Klasse), 30 Januar 2008.
-) "Klimawandel und Erderwärmung: Welche Rolle spielt die Sonne?", Vortrag an der Hochgebirgsklinik Davos, 27 October 2007.