

Publication list of Gunther Seckmeyer

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Peer reviewed publications

- (1) Pissulla, D. , Seckmeyer G., Cordero R. R., Blumthaler M., Schallhart B., Webb A., Kift R., Smedley A., Bais A. F., Kouremeti N., Cede A., Herman J., Kowalewski M.: Comparison of different calibration methods to derive spectral radiance as a function of incident and azimuth angle, *Photochemical and Photobiological Sciences*, accepted, 2009
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- (236) Seckmeyer G.: Variabilität der UV-Strahlung: Meßmethoden, weltweite Meßnetze und Interpretation. Fa. Beiersdorf AG, Hamburg, 23 May 2000
- (237) Seckmeyer G.: Die solare UV-Strahlung – eine interdisziplinäre Forschungsaufgabe zwischen Physik, Meteorologie, Biologie, Luftchemie und Medizin, Antrittsvorlesung, Physikalisches Kolloquium des Fachbereichs Physik, university of Hanover, 13 June 2000
- (238) Seckmeyer G.: Spektralradiometrische Messungen der solaren Strahlung, 3. Wissenschaftliches Symposium “Solarenergieforschung in Niedersachsen, Institut für Solarenergieforschung GmbH, Hameln/Emmerthal, 26 October 2000
- (239) Seckmeyer G.: Ways to establish a UV climatology – ground based and satellite approaches, invited talk, Stratospheric Processes and their Role in Climate (SPARC), 2nd SPARC General Assembly, Mar del Plata, Argentina, 10 November 2000
- (240) Seckmeyer G.: Ways to establish a UV climatology – ground based and satellite approaches, Australian Radiation Protection and Nuclear Safety Agency, Melbourne, Australia, 29 November 2000
- (241) Seckmeyer G.: Possibilities for the derivation of a UV climatology - ground based and satellite approaches, IASOS and CRC, Hobart, Australia, 1 December 2000
- (242) Seckmeyer G.: Radiation in the atmosphere, part I, course at university of Hannover in winter semester 2000/2001 - now
- (243) Seckmeyer G.: Remote sensing, part I, course at university of Hannover in winter semester 2000/2001 - now
- (244) Seckmeyer G.: Solar radiation in the atmosphere, a challenging task for physical research, Kolloquium for physics at the university of Wuerzburg, 29 January 2001
- (245) Seckmeyer G.: Radiation in the atmosphere, part II, course at university of Hannover in summer semester 2001 - now
- (246) Seckmeyer G.: Remote sensing, part II, course at university of Hannover in summer semester 2001 – now
- (247) Seckmeyer G.: UV-Datenverwertung, invited talk at the “Wissenschaftliches UV-Kolloquium, 200 Jahre solare UV-Strahlung: Geschichte und Perspektiven“, Institut für Strahlenhygiene, Bundesamt für Strahlenschutz, Neuherberg, 21 June 2001
- (248) Seckmeyer G.: Coupling between stratospheric change and surface UV radiation, invited talk at the NDSC (network for the detection of stratospheric change) conference – celebrating ten years of stratospheric atmospheric research -, Archachon, France, 24 September 2001
- (249) Seckmeyer G.: Lectures on solar radiation, UV instrumentation, Quality Assurance and Quality Control for UV measurements, course from GAW-TEC, Schneefernerhaus, Germany, 20 November 2001

- (250) Seckmeyer G.: Radiation in the atmosphere, part I, course at university of Hannover in winter semester 2002/2003, 2002
- (251) Seckmeyer G.: Derivation of solar radiation at the earth's surface by satellite data, GIS-Zentrum, Hannover, 9 January 2002
- (252) Seckmeyer G., S.Wuttke, H.Studemund: Das neue Spektralradiometer der Universität Hannover, 4. wissenschaftliches Symposium Solarenergie in Niedersachsen, Institut für Solarenergieforschung, Hameln-Emmerthal, 15 August 2002
- (253) Seckmeyer G.: European Database for Ultraviolet Radiation Climatology and Evaluation, symposium of the European Commission, Gotenberg, Sweden, 5 September 2002
- (254) Seckmeyer G.: Discussion on recent topics of interest in solar UV measurements, 5th workshop on Ultraviolet Radiation Measurements of the UV-net, Kassandra, Greece, invited review and lead of discussion, 7 October 2002
- (255) Seckmeyer G.: Führen Klimaänderung und Ozonabbau zu einer veränderten solaren Strahlung?, Presentation at department of physics and electrical engineering university Bremen, 16 January 2003
- (256) Seckmeyer G.: Gibt es noch das Ozonloch?, Saturday morning lecture, university Hannover, 1 February 2003
- (257) Seckmeyer G.: UV-Strahlung, Klimaveränderung und Ozonschicht – neue Erkenntnisse, scientific lecture at the Nivea skin research, Fa. Beiersdorf, lecture hall, research center, 14 February 2003
- (258) Seckmeyer G.: Kann man das Ozonloch vom Weltraum aus sehen?, Hölty-Gymnasium Wunstorf, 24 February 2003
- (259) Seckmeyer G.: Solare Strahlung – Stand und Perspektiven ihrer Erforschung, invited talk at the 67th German physics symposium, Hannover, Germany, 24 March 2003
- (260) Seckmeyer G.: Radiation in the atmosphere, part II, course at university of Hannover in summer semester 2003, 2003
- (261) Seckmeyer G.: remote sensing II, course at the university of Hannover in summer semester 2003, 2003
- (262) Seckmeyer G.: Was bestimmt die solare Strahlung – Stand und Perspektiven ihrer Erforschung, invited talk for German meteorological society; section Frankfurt, Zentralamt des DWD Offenbach, Germany, 14 May 2003
- (263) Kjeldstad B., Seckmeyer G. (Invited Paper): Topics of interest in solar UV measurements, SPIE conference, San Diego, USA, 4 August 2003
- (264) Seckmeyer G.: Topics of interest in solar UV measurements, symposium on UV radiation and the link to climate change during European conference on Photobiology, Vienna, 8 September 2003

- (265) Seckmeyer G.: Treibhausgase, Ozonloch und UV-Strahlung – Sind politische Antworten notwendig? Rotary Club Hannover, 13 February 2004
- (266) Seckmeyer G., Ali T., Bais A., Glandorf M., Kaurola J., Koskela T., Outer P.den, Siljamo N., Slaper H., Wuttke S.: Using the European Database for Ultraviolet Radiation, Quadrennial ozone symposium, Kos, Greece, 8 June 2004
- (267) Seckmeyer G., Smolskaia I.: Long-term prediction of UV radiation, kick-off meeting SCOUT project, Cambridge, 16 June 2004
- (268) Seckmeyer G.: New developments in UV research within the NDSC, NDSC steering committee meeting in Andoya, Norway, 16 September 2004
- (269) Seckmeyer G.: Sinnhaftigkeit der Minderung anthropogener CO₂-Emissionen“, VDI Arbeitskreis Energietechnik in Hannover, Institut für Strömungsmaschinen, University of Hannover, 30 November 2004
- (270) Seckmeyer G., Kaurola J.: The European UV database – more than a simple data storage facility, first yearly SCOUT meeting, Zuerich, 10 March 2005
- (271) Seckmeyer G., A. Bais, G. Bernhard, M. Blumenthaler, C.R. Booth, K.Lantz, R.L. McKenzie, : Wuttke, S.; Smolskaia, I.: Broadband instruments measuring erythemally weighted solar irradiance - the new WMO UV instrumentation document, invited talk (solicited), European Geosciences Union (EGU), General assembly 2005, Vienna, 29 April 2005
- (272) Seckmeyer G.: The shortwave radiation with special emphasis on UV, 3th COSMOS meeting, Lueneburg, 31 May 2005
- (273) Seckmeyer G.: Broadband instruments, WMO guidelines and Antarctic applications, SPIE conference on remote sensing of the atmosphere, Bruges, Belgium, 21 September 2005
- (274) Seckmeyer G.: Open questions regarding spectral UV within the NDSC, NDSC steering committee meeting in Puerto de la Cruz, Tenerife, Spain, 8 November 2005
- (275) Seckmeyer G., Smolskaia I., Pisulla D.: Determination of spectral albedo in the Antarctic environment and evaluation of its impact on climate change (DESAC), DFG review meeting within the German Antarctic Program, Bremerhaven, 20 March 2006
- (276) Seckmeyer G.: Ist die solare Einstrahlung in der Antarktis anders als in Deutschland?, Stumeta symposium, 25 May 2006
- (277) Seckmeyer G.: UV instrumentation within WMO GAW and NDACC, 9. meeting of the baseline surface radiation network (BSRN), Lindenberg, Germany, 31 May 2006
- (278) Seckmeyer G., Wuttke S., Smolskaia I., Michel K.: Influence of surface reflectivity on radiation in the Antarctic Enviroment, invited talk, SPIE conference on remote sensing, Stockholm, Sweden, 13 September 2006

- (279) Seckmeyer G.: UV spectroradiometry within the NDACC, NDACC steering committee meeting, OHP, France, 27 September 2006
- (280) Seckmeyer G., Smolskaia I., Wuttke S. Pissulla D.: Characterizing the radiation environment in Antarctica, invited talk, Yonsei University, Seoul, Korea, 8 November 2006
- (281) Seckmeyer G.: Characterizing the radiation climate, lesson for undergraduate students at Yonsei University, Seoul, Korea, 9 November 2006
- (282) Seckmeyer G., Smolskaia I., Wuttke S. Pissulla D.: Research experience on ultraviolet solar radiation in Antarctica, invited talk, Department of Physics, Silpakorn University, Nakhon Pathom, Thailand, 15 November 2006
- (283) Seckmeyer G., Overview for two review meetings for reports OR-2 and ORR-V3 with the Eumetsat Climate Satellite Application Facility, Satellite Application Facility on Climate Monitoring (CM-SAF) kick-off ceremony meeting, Berlin, 30 March 2007
- (284) Seckmeyer G., Wuttke S., Smolskaia I., Pissulla D.: Investigation of the specific radiation conditions in Antarctica, yearly SCOUT meeting, Heraklion, Greece, 9 May 2007
- (285) Seckmeyer G., Smolskaia I., Cordero R., Bais A.: Can we derive a trend in the UV reliably?, UV conference “one century of UV radiation research”, Davos, Switzerland, 18 November 2007
- (286) Blumthaler M., Schallhart B., Bais A., Balis D., Kazadzis S., Kazantzidis A., Kouremeti N., Webb A., Kift R., Seckmeyer G., Pissulla D., Rapsomanikis S., Wiegner M., Ruhtz T, Schmidhauser R., Cede A., Herman J.: The SCOUT UV-aerosol campaign 2006, UV conference “one century of UV radiation research”, Davos, Switzerland, 19 November 2007
- (287) Seckmeyer G., Bais A., Tourpali K., Taalas P., Zerefos C.: Solar UV:Measurements and Trends, invited talk, 20th Anniversary of the Montreal Protocol, Scientific Symposium “Ozone Depletion: from its discovery to Envisat and Aura, Greece, 25 September 2007
- (288) Seckmeyer G.: Variability of solar radiation at the earth’s surface – does it change?, invited talk, NOAA seminar, Boulder, Co, USA, 27 November 2007
- (289) Seckmeyer G., McKenzie R.: UV Spectroradiometry with the NDACC, NDACC steering committee meeting, Hawaii, USA, 4 December 2007
- (290) Seckmeyer G., Bais A.: Main findings in UV radiation research with SCOUT-O3, 4th, SCOUT-O3 Annual meeting, Potsdam, invited talk, 22 April 2008
- (291) Seckmeyer G.: Über die die Variabilität der solaren Strahlung an der Erdoberfläche – ändert sich etwas?, Deutscher Wetterdienst, Zweiverein Hamburg, Seewetteramt, Hamburg, invited talk, 3 June 2008
- (292) Seckmeyer G.: UV Variability as a key to assess and understand UV changes, Quadrennial ozone symposium, Tromsø, Norway, 2 July 2008

- (293) Seckmeyer G.: Recent advances in understanding the geographical distribution of solar radiation, workshop "Space technology, including satellite remote sensing, Prospective and horizons" and extended Meeting of the Advisory Council, Tartu, Estonia, 26 August 2008
- (294) Seckmeyer G.: Wechselwirkung von UV und Ozon und Folgen für den Menschen, 4th German skin cancer kongress, Berlin, invited talk, 25 September 2008
- (295) Seckmeyer G.: Variations in solar UV radiation in New Zealand and in Europe - is it different and are there implications for health?, School of Population Health, University of Auckland, 14 October 2008
- (296) Seckmeyer G., McKenzie R.L.: How extreme is the UV radiation in New Zealand compared to Europe?, 2008 New Zealand Hydrological Society & Meteorological Society New Zealand, Joint Annual Conference, 18 - 20 November, Shantytown/Greymouth, West Coast, 18 November 2008

Peer Reviews

usually contains several reviews per journal within a year

- (297) Seckmeyer G.: Photochemistry and Photobiology
- (298) Seckmeyer G.: Geophysical Research Letters
- (299) Seckmeyer G.: review of CEC document "European Research in the Stratosphere: the contribution of EASOE and SESAME to our current understanding of the ozone layer", 1996
- (300) Seckmeyer G.: Theoretical and Applied Climatology
- (301) Seckmeyer G.: Atmospheric Environment
- (302) Seckmeyer G.: Review of Scientific Assessment of Climate Change (IPCC) 1998, Chapter 5: Solar Ultraviolet Irradiance at the Ground, 1998
- (303) Seckmeyer G.: Journal of Geophysical Research
- (304) Seckmeyer G.: Journal of Photochemistry and Photobiology, B: Biology
- (305) Seckmeyer G.: Advances in Space Research
- (306) Seckmeyer G.: Proposal evaluation of the Announcement of Opportunity for the Exploitation of ENVISAT data, 1998
- (307) Seckmeyer G.: Applied Optics
- (308) Seckmeyer G.: Journal of Atmospheric Chemistry
- (309) Seckmeyer G.: Optical Engineering
- (310) Seckmeyer G.: Atmospheric Chemistry and Physics (ACP)

(311) Seckmeyer G.: Report on "Environmental Effects of Ozone Depletion and Interactions with Climate Change", United Nations Environmental Program (UNEP), 2006

(312) Seckmeyer G.: Atmospheric research

Organisation of scientific meetings and conferences

(313) Seckmeyer G.: First Intercomparison of Ultraviolet Spectroradiometers, Neuherberg, Germany, 7.7. - 14.7.1990

(314) Seckmeyer G.: Third European Intercomparison of Ultraviolet Spectroradiometers, Garmisch-Partenkirchen, Germany, 19.-31.7.1993

(315) Seckmeyer G.: International Intercomparison of Ultraviolet Spectroradiometers, Garmisch-Partenkirchen, Germany, 1.8. - 15.8.1994

(316) Seckmeyer G.: Final meeting of the EU-project "Biologically weighed dosimetry of solar radiation", 7-8 December 1995

(317) Seckmeyer G.: Workshop on broadband UV measurements, Garmisch-Partenkirchen, 22-23 April 1996

(318) Seckmeyer G.: Third meeting of the WMO UV Scientific Steering Committee, Garmisch-Partenkirchen, Germany, 24-26 April 1996

(319) Breitbart E.W., Reiners Chr., Greinert R. Volkmer B., Seckmeyer G., Matthes R.: International Congress on "Environmental UV-Radiation, Risk of Skin Cancer and Primary Prevention" (Member of program committee), Hamburg, May 6, 1996

(320) Seckmeyer G., Albold A.: First workshop of EU-Project: "Scientific UV Data Management (SUVDAMA)", Garmisch-Partenkirchen, Germany, 23-25 October 1996

(321) Seckmeyer G., Mayer B., Bernhard G., Albold A., Misslbeck M.: German Intercomparison of Ultraviolet Spectroradiometers, Garmisch-Partenkirchen, Germany, 4.8. - 15.8.1997

(322) Seckmeyer G., Taalas P.: Workshop on open scientific questions establishing a UV-network (SUVDAMA extra meeting), Helsinki, 4-5 March, 1998

(323) Taalas P., Amanatidis G., Bais A., Borkowski J., Gardiner B., Horneck G., Kjeldstad B., Lenoble J., Seckmeyer G., Simon P.: European Conference on Atmospheric UV Radiation (ECUV), Helsinki, Finland, 29 June - 2 July, 1998

(324) Seckmeyer G., J-P. Schnitzler, E.Leibrock: wissenschaftliches Seminar des Fraunhofer Institutes fuer atmosphaerische Umweltforschung, 1997, 1998

(325) Seckmeyer G., Albold A., Putz E.: Third meeting of SUVDAMA, Schloß Seggau, Austria, 28-30 September 1998

- (326) Seckmeyer G., Martin T., Mueller M., Albold A.: European Campaign in the framework of projects "Design and assessment of global, european, and regional scale spectral UV irradiance maps based on satellite data and ground measurements (MApping UV by Europe" (MAUVE) and "Characteristics of the UV radiation field in the Alps" (CUVRA), March 1999
- (327) Seckmeyer G., Martin T., Weihs P.: First meeting of the EU funded project "European database for Ultraviolet Climatology and Evaluation" (EDUCE), Vienna, Austria, 3-6 October 2000
- (328) Seckmeyer G., Martin T., de la Casiniere.: Second meeting of EDUCE, Bordeaux, France, 20-22 September 2001
- (329) Seckmeyer G., Martin T., Kaurola J.: Third meeting of EDUCE, Sariselmä, Finland, 26-28 March 2003
- (330) McKenzie R.L., Seckmeyer G.: Symposium on UV radiation and the link to climate change during European conference on Photobiology, Vienna, 8 September 2003
- (331) Seckmeyer G., Ali T., Lapeta B.: Fourth meeting of EDUCE, Krakow, Poland, 1-3 October 2003
- (332) Seckmeyer G., D.Pisulla, I.Smolskaia: meeting of the subgroup on spectral UV of the network for the detection of atmospheric composition change (NDACC), 26 June 2006
- (333) Seckmeyer G., D.Pisulla, I.Smolskaia: UV instrumentation group meeting, WMO-GAW SAG, 26.-27. June 2006
- (334) Seckmeyer G. (chair): Review of operation report 2, Satellite Application Facility on Climate Monitoring (CM-SAF), January 2007
- (335) Seckmeyer G. (chair): Review of operation readiness report, version 3, Satellite Application Facility on Climate Monitoring (CM-SAF), January 2007
- (336) Gröbner J., Rozanov E., Köpke P., Kjeldstad B., Blumthaler M., Krotkov N., Seckmeyer G. (scientific committee): UV conference "one century of UV radiation research", Davos, Switzerland, 18-20 September 2007
- (337) I.Isaksen, C.Zerefos, D.Wuebbles, C.Granier, S.Godin-Beekman, N.Harris, W.Sharobim, F.Stordal, Wang, P.Laj, V.Fioletov, G.Bodeker, G.Brasseur, M.Dameris, M.Schultz, G.Seckmeyer: Quadrennial ozone symposium, Tromsö, Norway, 30 June – 6 July 2008

Committees

- (338) Seckmeyer G.: Mitglied des Ausschusses fuer nichtionisierende Strahlung der Strahlenschutzkommission, Bundesministerium fuer Umwelt, 1994-1997
- (339) Seckmeyer G.: Member of the WMO Scientific Steering Committee for UV, 1994, 1995, 1996, 1997

- (340) Seckmeyer G.: Member of the WMO Scientific Advisory Group (SAG) (former WMO Steering Committee for UV), since 1998
- (341) Seckmeyer G.: chairman of WMO working group in UV instrumentation, since 1994
- (342) Seckmeyer G.: Koordinator im Leitthema 4 "UV-B-Strahlung" im Ozoneforschungsprogramm des Bundesministeriums fuer Bildung, Wissenschaft, Forschung und Technologie (BMBF), 1995-1999
- (343) Seckmeyer G.: Ressortuebergreifender UV-Koordinierungsausschuss, BMBF, BMU, BMW, since 1995
- (344) Seckmeyer G.: Member of the Steering Committee of the Network for the Detection of Stratospheric Change (NDSC), since October 1995
- (345) Seckmeyer G.: member of the national SPARC- (Stratospheric Processes And their Role in Climate) committee, since March 1997
- (346) Seckmeyer G.: member of the scientific advisory committee for the UV reference laboratory, Joint Research Center, Commission of European Communities, Ispra, Italy, since 2001
- (347) Seckmeyer G.: Inclusion of biography in Marquis Who's Who in the World, Millenium editions 2000, 2002, 2007
- (348) Seckmeyer G.: member of the Advisory Council of ESTSPACE, project for developing estonian space technologies, supported by the European Commission, 2008-2011