



BioMet 7

April 12-14, 2010

Albert-Ludwigs-University of Freiburg, Germany

Program



7th Conference on Biometeorology of the Expert Committee “Biometeorology” of the German Meteorological Society

hosted by:

Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany

Conference website: www.mif.uni-freiburg.de/Biomet/bm7

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Expert Committee “Biometeorology” of the German Meteorological Society



in collaboration with:

<p>Faculty of Agriculture and Horticulture, Professorship of Agricultural Climatology, Humboldt-University of Berlin, Germany</p>	
<p>Society for the Promotion of Medicine-Meteorological Research in Germany</p>	
<p>International Society of Biometeorology</p>	
<p>German Weather Service</p>	
<p>Central Institute of Meteorology and Geodynamics</p>	

7th Conference on Biometeorology

- Program outline -

Presentations in Freiburg (Auditorium (Aula), Albert-Ludwigs-University of Freiburg)

Monday, 12 April 2010:

- 08:00: Registration
- 09:00 - 09:30: Welcome addresses and organisation details
- 09:30 - 10:15: Phenology: 3 oral presentations
- 10:15 - 11:00: *Coffee break / Poster presentations*
- 11:00 - 12:30: Tourism I: 6 oral presentations
- 12:30 - 13:30: *Lunch (buffet, foyer of the auditorium)*
- 13:30 - 14:45: Tourism II: 5 oral presentations
- 14:45 - 15:15: Animal and Forest Meteorology: 2 oral presentations
- 15:15 - 16:00: *Coffee break / Poster presentations*
- 16:00 - 17:30: Climate Change: 6 oral presentations
- 18:00 - 20:00: *Ice-breaker (foyer of the auditorium)*

Tuesday, 13 April 2010:

- 09:00 - 10:15: Human Biometeorology I: 5 oral presentations
- 10:15 - 11:00: *Coffee break / Poster presentations*
- 11:00 - 11:45: Human Biometeorology II: 3 oral presentations
- 11:45 - 12:15: Miscellaneous: 2 oral presentations
- 12:15 - 13:30: *Lunch (buffet, foyer of the auditorium)*
- 13:00 - 13:30: *Assembly of the Society of the Promotion of Medical Meteorology*
- 13:30 - 15:30: Urban Bioclimate I: 8 oral presentations
- 15:30 - 16:00: *Coffee break / Poster presentations*
- 16:00 - 17:45: Urban Bioclimate II: 7 oral presentations
- 18:00: Assembly Expert Committee "Biometeorology" of the German Meteorological Society

Wednesday, 14 April 2010:

- 09:00 - 10:15: Agricultural Meteorology I: 5 oral presentations
- 10:15 - 11:00: *Coffee break / Poster presentations*
- 11:00 - 12:00: Agricultural Meteorology II: 4 oral presentations
- 12:00 - 13:00: *Lunch (buffet, foyer of the auditorium)*
- 13:00 - 15:00: Human Biometeorology III: 8 oral presentations
- 15:00 - 15:30: *Coffee break*
- 15:30: Closing session

7th Conference on Biometeorology

Venue in Freiburg:

Auditorium (Aula), Albert-Ludwigs-University of Freiburg, Germany

Kollegiengebäude I (KG I; building No. 1 in the map below)

Platz der Universität 3, D-79098 Freiburg, Germany



7th Conference on Biometeorology

- Detailed program -

Oral presentations: 15 minutes, i.e. 12 minutes for presentation and 3 minutes for discussion

Monday, 12 April 2010:

08:00: Registration

09:00 - 09:25: Welcome addresses:

Prof. Dr. Andreas Matzarakis; Chair, Scientific and Local Organising Committee, Freiburg, Germany

Prof. Dr. Hans-Jochen Schiewer, Rector of the Albert-Ludwigs-University of Freiburg, Germany

Prof. Dr. Frank-M. Chmielewski; Chair, Expert Committee "Biometeorology" of the German Meteorological Society

09:25 - 09:30: Organisation details:

Prof. Dr. Andreas Matzarakis; Germany

Phenology (chair: Frank-M. Chmielewski, Germany)

09:30 – 09:45	Peter Braun (Forschungsanstalt Geisenheim, Germany), Markus Müller: <i>Limits of phenological modelling in tree species</i>
09:45 – 10:00	Wolfgang Janssen (Deutscher Wetterdienst, Germany): <i>Definition des Vegetationszeitraumes über Temperatursummen</i>
10:00 – 10:15	Steffi Urhausen (Meteorologisches Institut der Universität Bonn, Germany), Susanne Brienen, Alice Kapala, Clemens Simmer: <i>Impact of future climate conditions on viticulture in the Upper Moselle region</i>

10:15 - 11:00: **Coffee break**

Tourism I (chair: Chris de Freitas, New Zealand)

11:00 – 11:15	Jochen Bläsing (Deutscher Wetterdienst, Zentrum für Medizin-Meteorologische Forschung, Germany): <i>Auswirkungen einer durch den Klimawandel geänderten Wärmebelastung auf die Bewertung von prädikatisierten Kurorten</i>
11:15 – 11:30	Ksenija Zaninovic (Meteorological and Hydrological Service, Department for Climatological Research and Applied Climatology, Croatia), Lidija Srnec, Mirta Patarcic, Melita Percec Tadic, Janos Mika, Akos Nemeth: <i>Influence of climate change on the summer tourism potential in the Pannonian basin</i>
11:30 – 11:45	Hasan Yilmaz (Department of Landscape Architecture, Faculty of Agriculture, Ataturk University, Turkey), Sevgi Yilmaz, Süleyman Toy, Nalan Demircioglu Yildiz: <i>Evaluation of climatic characteristics for tourism and recreation in a specific area, Tortum, in Eastern Anatolia region of Turkey</i>
11:45 – 12:00	Raquel Machete (Centro de Estudos Geográfico, Edifício da Faculdade de Letras, Portugal), Carlos Ferreira, Eduardo Brito-Henriques, Henrique Andrade, José Couto: <i>Anticipating the impacts of climate change on tourism in Lisbon Metropolitan Area –</i>

	<i>Assessing tourist perceptions</i>
12:00 – 12:15	Ákos Németh (Climate Division, Hungarian Meteorological Service, Hungary), Andreas Matzarakis: <i>Changing thermal bioclimate and the summer tourism potential of the Lake Balaton</i>
12:15 – 12:30	Antonio Lopes (Centro de Estudos Geograficos, University of Lisbon, Portugal), S. Lopes, Andreas Matzarakis, Maria Joao Alcoforado: <i>Summer sea breeze influence on human comfort in Funchal (Madeira Island). Application to urban climate and tourism planning</i>

12:30 - 13:30: **Lunch (buffet, foyer of the auditorium)**

Tourism II (chair: Andreas Matzarakis, Germany)

13:30 – 13:45	Robert Steiger (Institute of Geography, Innsbruck University, Austria): <i>The impact of record warm winter seasons on ski touristic demand</i>
13:45 – 14:00	Chris de Freitas (University of Auckland, School of Environment, New Zealand), Elena A. Grigorieva: <i>Prediction of acclimatization thermal loading for individuals travelling between climatic extremes</i>
14:00 – 14:15	Sevgi Yilmaz (Department of Landscape Architecture, Faculty of Agriculture, Ataturk University, Turkey), Süleyman Toy, Hasan Yilmaz: <i>Determination of the winter human thermal comfort distributions in a ski-centre</i>
14:15 – 14:30	Chris de Freitas (University of Auckland, School of Environment, New Zealand), Andreas Matzarakis: <i>Gauging the sensitivity of tourism climate to change by way of an integrated thermal bioclimatic assessment scheme</i>
14:30 – 14:45	Christina Endler (Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany), Andreas Matzarakis: <i>Assessment of climate for tourism purposes in Germany</i>

Animal and Forest Meteorology (chair: Dirk Schindler, Germany)

14:45 – 15:00	John Gaughan (The University of Queensland, Australia), Jarrod Lees: <i>Development of a climate stress index for dairy cows housed outside</i>
15:00 – 15:15	Christian Hertel (Fachgebiet für Ökoklimatologie, Technische Universität München, Germany), Michael Leuchner: <i>Variability of light quality and quantity in a mixed forest stand</i>

15:15 - 16:00: **Coffee break / Poster presentations**

Climate Change (chair: Wilhelm Kuttler, Germany)

16:00 – 16:15	Manuel Helbig (University of Göttingen, Germany), Chris de Freitas, Andreas Matzarakis: <i>Water resources of Pacific atolls: evaluating sensitivity to climatic change and variability</i>
16:15 – 16:30	Jiri Nekovar (Czech Hydrometeorological Institute, Czech Republic), Rudolf Bagar: <i>Evaluation of global sunshine energy 1984-2008 over Czech climate station network</i>
16:30 – 16:45	Katharine Willett (Met Office Hadley Centre, UK), Steven Sherwood: <i>Exploring heat events in future climates for 15 regions using exceedance of WBGT thresholds</i>

16:45 – 17:00	Angelika Grätz (Deutscher Wetterdienst, Germany): <i>Stadtplanung und Klimawandel - Eine Kooperation des DWD mit der Stadtentwicklungsverwaltung von Berlin</i>
17:00 – 17:15	Birger Tinz (Deutscher Wetterdienst, Germany), Thomas Deutschländer, Barbara Früh: <i>Entwicklung der Wärmebelastung in Deutschland im 21. Jahrhundert</i>
17:15 – 17:30	Hans-Guido Mücke (Umweltbundesamt, Germany): <i>Climate change: New health risks in the air</i>

18:00 - 20:00: **Ice-breaker** (drinks and finger-food in the foyer of the auditorium)

Tuesday, 13 April 2010:***Human I (chair: Christina Koppe, Germany)***

09:00 – 09:15	Katharina Gabriel (Leibniz-Institut für Gewässerökologie und Binnenfischerei, Germany): <i>Comparison of methods for heat determination</i>
09:15 – 09:30	Gerd Jendritzky (Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany), George Havenith, Philipp Weihs, Ekaterina Batchvarova, Richard de Dear: <i>Universal Thermal Climate Index UTCI</i>
09:30 – 09:45	Insa Thiele-Eich (Meteorologisches Institut der Universität Bonn, Germany), Susanne Brienen, Alice Kapala, Gerd Jendritzky und Clemens Simmer: <i>Zukünftige thermische Komfortbedingungen in Deutschland</i>
09:45 – 10:00	Ilian Gospodinov (National Institute of Meteorology and Hydrology, Bulgaria), Anna Tzenkova-Bratoeva: <i>Spatial and temporal variability of the rate of change of the winter thermal comfort conditions in Bulgaria</i>
10:00 – 10:15	Danuta Idzikowska (Faculty of Geography and Regional Studies, University of Warsaw, Poland): <i>Differences in bioclimatic conditions in four European cities: Budapest, Paris, Warsaw and Rome</i>

10:15 - 11:00: **Coffee break / Poster presentations**

Human II (chair: Panagiotis Nastos, Greece)

11:00 – 11:15	Makoto Nakayoshi (Tokyo Institute of Technology, Japan), Manabu Kanda: <i>Compact and wearable measurement system for Langrangian Human Biometeorology</i>
11:15 – 11:30	Henning Staiger (Freiburg, Germany), Andreas Matzarakis: <i>Estimating down- and up-welling thermal radiation for use in mean radiant temperature</i>
11:30 – 11:45	Eva R. Wanka (Klinikum der Ludwig-Maximilians-Universität München, Germany), U. Ferrari, T. Exner, C. Heumann, R. M. Huber, R. Fischer: <i>Longitudinale Modellierung pneumologischer Erkrankungen in Abhängigkeit von meteorologischen Einflussfaktoren - Pilotregion Bayern</i>

Miscellaneous (chair: Elisabeth Koch, Austria)

11:45 – 12:00	Olaf Matuschek (Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany), Andreas Matzarakis: <i>Estimation of sky view factor in complex environment as a tool for applied climatological studies</i>
12:00 – 12:15	Andreas Matzarakis (Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany): <i>Thermal comfort issues and deficiencies in measurements and modelling</i>

12:15 - 13:30: **Lunch (buffet, foyer of the auditorium)**

13:00 - 13:30: **Sitzung der Gesellschaft zur Förderung der Medizin-Meteorologischen Forschung in Deutschland e.V. (Assembly of the Society of the Promotion of Medical Meteorology in Germany) - (Room 1139) – only for members**

Urban Bioclimate I: (chair: Oded Potchter, Israel)

13:30 - 13:45	Wilhelm Kuttler (Universität Duisburg-Essen, Abt. Angewandte Klimatologie, Germany): <i>Einfluss des globalen Klimawandels auf die Ozon- und Feinstaubkonzentrationen in Stadt und Umland</i>
13:45 – 14:00	Sascha Henninger (Lehrereinheit Physische Geographie, Technische Universität Kaiserslautern, Germany): <i>Modifikationen des lufthygienischen Wirkungskomplexes in der ruandischen Stadt Kigali</i>
14:00 – 14:15	Fred Meier (Fachgebiet Klimatologie, Technische Universität Berlin, Institut für Ökologie, Germany), Dieter Scherer, Jochen Richters: <i>Spatial and temporal variability of surface temperature of tree crowns in an urban environment</i>
14:15 – 14:30	B.G. Heusinkveld (Wageningen University, The Netherlands), L.W.A. van Hove, C.M.J. Jacobs, G.J. Steeneveld, J.A. Elbers, E.J. Moors, A.A.M. Holtslag: <i>Greening of Dutch urban canyons for heat stress reduction</i>
14:30 – 14:45	Sevgi Yilmaz (Department of Landscape Architecture, Faculty of Agriculture, Ataturk University, Turkey), Yahya Bulut, Süleyman Toy, Işık Sezen: <i>Evaluation of the relationship between air pollution and climatic elements in urban areas in the sample of Erzurum city in the respect of landscape architecture</i>
14:45 – 15:00	Antje Katschner (Fachgebiet Umweltmeteorologie, Fachbereich 06, Universität Kassel, Germany): <i>Calibration of thermal comfort in different climates for urban planning concerns</i>
15:00 – 15:15	Yuk Yee Yan (Department of Geography, Hong Kong Baptist University, Kowloon Tong, Hong Kong), Ho Yan Cheng: <i>Summer human thermal comfort in urban open spaces in Hong Kong</i>
15:15 – 15:30	Chae Yeon Yi (National Institute of Meteorological Research, Meteorological Application Research Laboratory, Korea), Young-Jean Choi, Jeong-Hee Eum, Geun Hoi Kim, Kyu Rang Kim, Dieter Scherer, Ute Fehrenbach: <i>Development of climate analysis software for urban and environmental planning of Seoul</i>

15:30 - 16:00: **Coffee break / Poster presentations**

Urban Bioclimate II: (chair: Antonio Lopes, Portugal)

16:00 – 16:15	Limor Shashua-Bar (Department of Geography and Environmental Development, Ben Gurion University of the Negev, Israel), S. Cohen, O. Potchter, Y. Yaakov, J. Tanny, P. Bar-Kutiel: <i>The use of street trees for heat stress mitigation in hot and arid regions. Case study: Beer Sheva, Israel</i>
16:15 – 16:30	Oded Potchter (Laboratory for Climate and Environment, Department of Geography and Human Environment, Israel), J. Holst, L. Shashua-Bar, S. Cohen, Y. Yaakov, J. Tanny, P. Bar-Kutiel, H. Mayer: <i>Comparative study of trees impact on human thermal comfort in urban streets under hot-arid and temperate climates</i>
16:30 – 16:45	Jutta Holst (Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany), Helmut Mayer: <i>Impacts of street design parameters on human-biometeorological variables</i>
16:45 – 17:00	Ágnes Gulyás (Department of Climatology and Landscape Ecology, University of Szeged, Hungary), Andreas Matzarakis, János Unger:

	<i>Comparison of the urban-rural thermal comfort sensation in a city with warm continental climate</i>
17:00 – 17:15	Monika Bąkowska (Institute of Geography, Uniwersytet Kazimierza Wielkiego, Poland): <i>Influence of air circulation and geographical factors on daily rhythm of biothermal conditions</i>
17:15 – 17:30	Qun Dai (School of Architecture, The Chinese University of Hong Kong, Hong Kong): <i>A review on technology development in urban climatology and the application of a new enhanced urban climate model in Hong Kong</i>
17:30 – 17:45	Christoph Schneider (Department of Geography, Faculty of Material Sciences and Geosciences, RWTH Aachen University, Germany), Marten F. Brunk, Wolfgang Dott, Heather Hofmeister, Carmella Pfaffenbach, Christine Roll, Klaus Selle, Kunibert Wachten, Mareike Buttstädt, Katja Eßer, Julia Hahmann, Lotta Hülsmeier, Gunnar Ketzler, Marion Klemme, Antje Kröpelin, Hendrik Merbitz, Sabri: <i>“CITY 2020+” – assessing climate and demographic change impacts for the City of Aachen</i>

18:00: **Assembly Expert Committee “Biometeorology” of the German Meteorological Society**

Wednesday, 14 April 2010:***Agriculture I (chair: Ulrich Otte, Germany)***

09:00 – 09:15	Franz Josef Löpmeier (Deutscher Wetterdienst Braunschweig, Germany), Cathleen Frühauf: <i>Die Auswirkungen des Klimawandels auf die Landwirtschaft - die Aktivitäten des Deutschen Wetterdienstes im Rahmen des Projektes ZWEK</i>
09:15 – 09:30	Ramona Weßnigk (Deutscher Wetterdienst Braunschweig, Germany), Jens Fildebrandt: <i>Agrarmeteorologische Beratung des Deutschen Wetterdienstes unter spezieller Berücksichtigung von Sonderberatungen</i>
09:30 – 09:45	Klaus-Peter Wittich (Deutscher Wetterdienst Braunschweig, Germany), Ralf Becker: <i>Klimatologische und phänologische Dürre-Indikatoren in der Agrarmeteorologie des DWD</i>
09:45 – 10:00	Harald Braden (Deutscher Wetterdienst Braunschweig, Germany): <i>Sensitivität des agrarmeteorologischen Modells AMBETI/BEKLIMA gegenüber Änderungen der meteorologischen Randbedingungen</i>
10:00 – 10:15	Thomas Gerersdorfer (University of Natural Resources and Applied Life Sciences, Vienna Department of Water - Atmosphere - Environment, Institute of Meteorology, Austria), Josef Eitzinger, Enno Bahrs, Christiane Brandenburg: <i>Der Beitrag von Landschaftsstrukturen (z.B. Windschutzhecken) zur Ertragssituation im Ackerbau in Ostösterreich</i>

10:15 - 11:00: **Coffee break / Poster presentations**

Agriculture II (chair: Nicola Lacetera, Italy)

11:00 – 11:15	Rakesh Kumar (Institute of Himalayan Bioresource Technology (CSIR), India), K. Ramesh, Sandeep Tehria, Bikram Singh, Rajendra Prasad: <i>Crop weather interaction studies in a natural sweetener plant (Stevia rebaudiana (Bert.) Bertoni) in Indian Western Himalaya</i>
11:15 – 11:30	Elena Grigorieva (Institute for Complex Analysis of Regional Problems, Far Eastern Branch Russian Academy of Sciences, Russian Federation), Andreas Matzarakis: <i>Growing degree days at the Russian Far East</i>
11:30 – 11:45	Kulasekaran Ramesh (Division of Soil chemistry and Fertility, Indian Institute of Soil Science (ICAR), India), Virendra Singh, Bikram Singh, Vijayalata Pathania: <i>Agrometeorology of an aromatic plant (Valeriana officinalis) - Borneol, Bornyl acetate and other components of essential oil in European valerian as influenced by planting time and age of harvest</i>
11:45 – 12:00	Frank-M. Chmielewski (Professorship of Agricultural Climatology, Humboldt-University of Berlin, Germany), Klaus Blümel, Yvonne Henniges: <i>Climate change and late frost damages to Apple Trees in Germany</i>

12:00 - 13:00: **Lunch (buffet, foyer of the auditorium)**

Human Biometeorology III (chair: Eva Regina Wanka, Germany)

13:00 – 13:15	Jereon T.M. Buters and the HIALINE working group <i>Ambient concentrations of the major birch, grass and olive allergen Bet v 1, Phleum</i>
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	<i>p 5 and Ole e 1 and pollen counts in Europe: The new EU-HIALINE project</i>
13:15 – 13:30	Christina Koppe (Deutscher Wetterdienst, Germany), Daniel Arndt, Andreas Mügge, Jan Börgel: <i>The influence of meteorological parameters on hypertensive urgency</i>
13:30 – 13:45	Judita Liukaityte (Lithuanian Hydrometeorological Service, Latvia), Justinas Savanevicius: <i>Association of meteorological factors with emergency calls of ambulance in Vilnius, Lithuania</i>
13:45 – 14:00	Paulo Canário (Centro de Estudos Geográfico, Edifício da Faculdade de Letras, Portugal), Henrique Andrade: <i>Mortality spatial variations in a small scale during heat waves in Lisbon - who is at risk?</i>
14:00 – 14:15	Stefan Muthers (Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany), Andreas Matzarakis, Elisabeth Koch: <i>Relationship between climate and mortality in Vienna based on human-biometeorological data</i>
14:15 – 14:30	Panagiotis T. Nastos (Laboratory of Climatology and Atmospheric Environment, Department of Geography and Climatology, University of Athens, Greece), K. N. Giaouzaki, N. A. Kampanis, P. I. Agouridakis, A. Matzarakis: <i>Environmental impacts on human health during a saharan episode at Crete island, Greece</i>
14:30 – 14:45	Uwe Kaminski (Deutscher Wetterdienst, Germany), T. Glod: <i>Untersuchungen zum Einfluss des Klimawandels in Deutschland auf den Start der Pollensaison, die Saisonlänge und die Pollenkonzentration der wichtigsten allergenen Pollen anhand der Pollendaten der Referenzstationen des Polleninformationsdienstes PID</i>
14:45 – 15:00	Young-Jean Choi (National Institute of Meteorological Research, Meteorological Application Research Laboratory, Korea), Ki-Jun Park, Kyu Rang Kim, Hye-Rim Lee, Chae Yeon Yi, Jae-Won Oh: <i>Climate change and adaptation strategies for pollens in Korea</i>

15:00 - 15:30: **Coffee break**

Closing session

15:30: Closing session (Andreas Matzarakis, John Gaughan, Frank-M. Chmielewski, Helmut Mayer)

Poster presentations in Freiburg from 12-14 April 2010:

P1:	Ákos Németh: <i>Using digital elevation models in agroclimatology: determination of potential frost-risk territories</i>
P2:	Cathleen Frühauf (Deutscher Wetterdienst Braunschweig, Germany), Beate Berkelmann-Löhnertz, Bernd J. Loskill, Anja Schaldach, Harald Braden, Klaus-Uwe Gollmer, Markus Forster, Klaus-Peter Wittich: <i>Erweiterung und Optimierung der Geisenheimer Peronospora-Prognose und Umsetzung in die Rebschutz-Praxis im Rheingau</i>
P3:	Klaus-Peter Wittich (Deutscher Wetterdienst Braunschweig, Germany), Martin Kraft: <i>Erfassung der Vegetationsentwicklung landwirtschaftlicher Bestände mit agrarmeteorologischen Strahlungssensoren</i>
P4:	Elham Rahmani (Meteorologisches Institut der Universität Bonn, Germany), Andreas Hense, Jan Keller, Petra Friederichs: <i>The effect of climate change on agro climate zoning of wheat in Iran</i>
P5:	Harald Braden (Deutscher Wetterdienst Braunschweig, Germany): <i>"Guttation", Bedeutung, Beobachtung, Modellierung</i>
P6:	Frank-M. Chmielewski (Professorship of Agricultural Climatology, Humboldt-University of Berlin, Germany), Klaus Blümel, Antje Müller, Yvonne Henniges, Roland W.S. Weber: <i>Climate change and fruit growing in Germany</i>
P7:	Jürgen Junk (Département Environnement et Agro-Biotechnologies, Centre de Recherche Public - Gabriel Lippmann, Luxembourg), M. El Jarroudi, F. Pogoda, T. Dubos, K. Görgen, L. Hoffmann, M. Beyer: <i>Forecasting epidemic outbreaks of wheat leaf blotch based on meteorological parameters</i>
P8:	Fotios Xystrakis (Institute of Sylviculture, Albert-Ludwigs-University of Freiburg, Germany), Andreas Matzarakis: <i>The importance of meteorological variables in the bias of potential evapotranspiration estimates in Crete, southern Greece</i>
P9:	Andrea Vitali (Dipartimento di Produzioni Animali, Università degli Studi della Tuscia, Viterbo, Italy), Emilio Lana, Franco Guizzardi, Massimo Amadori, Umberto Bernabucci, Alessandro Nardone, Nicola Lacetera: <i>Seasonal pattern of mortality and relationships between mortality and temperature humidity index in heavy slaughter pigs</i>
P10:	Merike Fiedler (Leibniz-Institut für Agrartechnik Potsdam-Bornim e.V., Germany), Gundula Hoffmann, Kristina von Bobrutzki, Andreas Matzarakis: <i>Biometeorological investigations in dairy cowsheds</i>
P11:	Paul Neumann (Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany), Andreas Matzarakis: <i>Regional and local dimension of climate change: identification of the impact of climate variability and extreme events using the example of heat and drought in Baden-Württemberg</i>
P12:	Thomas Rötzer (Lehrstuhl für Waldwachstumskunde, Technische Universität München, Germany), Hans Pretzsch: <i>Water storage of Norway spruce and its possible influence on tree growth under drought stress - application of ct-scannings -</i>
P13:	Yan Liao (Lehrstuhl für Waldwachstumskunde, Technische Universität München, Germany),

	Thomas Rötzer, Hans Pretzsch: <i>Effects of climate change and adaptation strategies for Northwest European forest stands</i>
P14:	Steffi Röhling (Lehrstuhl für Waldwachstumskunde, Technische Universität München, Germany), Thomas Rötzer, Hans Pretzsch: <i>Einfluss des Klimas auf die Kohlenstoffspeicherung von Moorwäldern</i>
P15:	Maendy Fritz (Technologie- und Förderzentrum, Straubing, Germany), Thomas Rötzer, Uwe Hera: <i>Klimatische Anbaueignung von Sorghumhirsen in Deutschland unter gegebenen und veränderten Klimabedingungen</i>
P16:	Uwe Kaminski (Deutscher Wetterdienst, Germany), Beate Alberternst, Thomas Gabrio, Michael Böhme, Stefan Nawrath, Heidrun Behrendt: <i>Ambrosia Pollen-Konzentrationen in Baden-Württemberg</i>
P17:	Sandra Kannabei (Institut für Meteorologie, Freie Universität Berlin): <i>Ambrosia in Berlin: pollen emission, spread and control</i>
P18:	Katrin Burkart (Department of Climatology, Institute of Geography, Humboldt-Universität zu Berlin, Germany), Winfried Endlicher: <i>The effect of temperature and thermal atmospheric conditions on mortality in Bangladesh</i>
P19:	Stefan Muthers (Meteorological Institute, Albert-Ludwigs-University of Freiburg, Germany), Andreas Matzarakis, Elisabeth Koch: <i>Changes in heat related mortality in Vienna based on regional climate models</i>
P20:	Joanna Maroszek (Faculty of Geography and Regional Studies, University of Warsaw, Poland), Takeshi Morita and Krzysztof Błazejczyk: <i>Melatonin secretion in various climate zone</i>
P21:	Katarzyna Lindner (Faculty of Geography and Regional Studies, University of Warsaw, Poland): <i>Clothing as an indicator of human thermal comfort</i>
P22:	Jobst Augustin (Umweltbundesamt, Germany): <i>Climate change and skin cancer - relation and effects</i>
P23:	Panagiotis T. Nastos (Laboratory of Climatology and Atmospheric Environment, Department of Geography and Climatology, University of Athens, Greece), K. Giaouzaki, N. A. Kampanis, P. Agouridakis, A. Matzarakis: <i>Acute coronary syndromes and biometeorological conditions at Crete island, Greece</i>
P25:	Petra Gebauer (Institut für Meteorologie der FU Berlin, Germany): <i>The WBGT-Index – a heat index, used in international sporting events</i>
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7th Conference on Biometeorology

Freiburg, Germany, 12-14 April 2010

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