



WICLAP
Polish-Norwegian Project

INTERNATIONAL CONFERENCE

IMPACT OF CLIMATE CHANGE ON THE RANGES OF SPECIES AND SPECIES COMPOSITION OF PLANT COMMUNITIES

24th-26th January 2017 The European Centre for Geological Education in Chęciny near Kielce

Organizers:

Białowieża Geobotanical Station, Faculty of Biology, University of Warsaw

Department of Botany, Institute of Biology, University of Jan Kochanowski in Kielce

Department of Geoinformatics, Faculty of Geography and Regional Studies, University of Warsaw
(Project WICLAP)

Conference Programme:

Tuesday, 24th January 2017

16:00 - 21:00 REGISTRATION OF PARTICIPANTS

18:00 - 20:30 SUPPER

Wednesday, 25th January 2017

7:30 - 8:45 BREAKFAST

SESSION 1 Global warming and its diverse effects

09:00 - 09:10 Bogdan Jaroszewicz & John Arvid Grytnes – Welcome addresses

09:10 - 09:50 OPENING LECTURE

Szymon Malinowski – *Physics of global warming for naturalists*

ORAL PRESENTATIONS:

09:50 **Bogdan Zagajewski**, Jarocińska Anna, Marcinkowska-Ochtyra Adriana, Ochtyra Adrian, Sabat Anita, Raczko Edwin, Sławik Łukasz, Niedzielko Jan, Kopeć Dominik, Wylązłowska Justyna, Michalska-Hejduk Dorota, Halladin-Dąbrowska Anna, Błońska Agnieszka, Nowak Teresa, Babczyńska-Sendek Beata, Pasierbiński Andrzej, Tokarska-Guzik Barbara – *Assessment of hyperspectral and lidar data for identification of non-forest Natura 2000 habitats*

Anna Znój, Katarzyna J. Chwedorzewska, Maciej Wódkiewicz, Halina Galera – *Poa annua* invasion on King George Island - one of the consequences of climate change in the Antarctic?

Adam Rostański, Paweł Wąsowicz, Andrzej Pasierbiński, Starri Heidmarsson, Mariusz Wierzgoń – *Management of biodiversity change caused by global warming and invasive alien species - plan and objectives of the project*

Edyta Sierka, Agnieszka Błońska, Damian Chmura, Barbara Tokarska-Guzik, **Gabriela Woźniak** – *Dynamics of alien plant species in response to climate change*

11:10 - 11:40

COFFEE BREAK

SESSION 2 Climate change, plants and lichen biota – the results of the KlimaVeg Project

11:40 - 12:20 OPENING LECTURE

John-Arvid Grytnes – *Plant distribution shifts in a warmer world*

ORAL PRESENTATIONS:

12:20 **Siri Vatsø Haugum** – *The effect of grazing and hiking on the elevational range shift of vascular plant species in the Scandes during recent decades*

Czortek Patryk, Jutta Kapfer, Halina Ratyńska, Amy E. Eycott, Anna Delimat, Antoni Zięba, Anna Orczewska, John-Arvid Grytnes, Bogdan Jaroszewicz – *Long-term plant species composition shifts in Morskie Oko Valley (Tatry Wysokie mts) as a response to changes in environment*

Fride Høistad Schei, Magne Sætersdal, Einar Heegaard, Bogdan Jaroszewicz, John-Arvid Grytnes – *Changes in Norwegian woodlands related to climate change or legacies of the past?*

Amy E. Eycott, Bogdan Jaroszewicz, Sylwia Wierzcholska, Anna Łubek, Martin Kukwa, Wojciech Adamowski – *Species richness increase in Białowieża Forest: Habitat change, climate change or observer effect?*

Richard Telford, Bogdan Jaroszewicz – *Phenological response of the Białowieża Forest understorey to climate change*

14:20 - 16:00

LUNCH BREAK

SESSION 3 Climate change & forests

16:00 - 16:40 OPENING LECTURE

Jerzy Szwagrzyk – *Global climate change and species composition of forest stands; challenges for the forestry in Central Europe*

16:40 **Marcin K. Dyderski, Sonia Paż, Andrzej M. Jagodziński** – *What we can expect from trees under changing climate?*

Dorota Dobrowolska – *Changes of silver fir (*Abies alba* Mill.) distribution in Poland*

Aleksandra Jasińska, Mirela Tulik – *Tree-ring width variations in European beech (*Fagus sylvatica* L.) growing within and outside its natural distribution range*

Marek Ksepko and coauthors – *The dynamics of spruce *Picea abies* (L.) in Polish part of Białowieża Primeval Forest after the Second World War*

18:00 - 19:30 SESSION 4 – POSTER SESSION COMBINED WITH COFFEE BREAK

Lidia Borkowska, Krzysztof Stereńczak – *Changes in the spatial structure of vegetation on unmown meadow: the impact of climate or/and the effect of succession*

Olga Cholewińska, Andrzej Keczyński, Bogdan Jaroszewicz – *European ash (*Fraxinus excelsior* L.) dieback in Białowieża National Park*

Patryk Czortek, Anna Delimat, Marcin K. Dyderski, Antoni Zięba, Bogdan Jaroszewicz – *Response of the high-alpine sedge *Carex lachenalii* Schkuhr to recent tourism and climate change*

Patryk Czortek, Amy E. Eycott, John-Arvid Grytnes, Jutta Kapfer, Anna Delimat, Bogdan Jaroszewicz – *Climate change drives shifts in plant species composition of Tatry Mountain summits over the past 100 years*

Wojciech Ejankowski, Tomasz Lenard – *Effect of climatic variability on aquatic vegetation in a hard water lake*

Sławomir Guzikowski, Renata Piwowarczyk – *The impact of global warming on the effect of virulence and spread of parasitic *Cuscuta epithimum* in the Nida Basin (S Poland)*

Maria Janicka, Maria Anna Janicka – *Flowering of selected xerothermic plant species in drought conditions in the reserve "Winnica"*

Maria Janicka, Bogumiła Pawluśkiewicz, Elżbieta Małuszyńska – *Characteristics of diaspores of selected wild flowers ripening in conditions of extreme drought*

Izabela Jaszczuk, Sylwia Wiercholska, Bogdan Jaroszewicz – *Consequences of dieback of black alder *Alnus glutinosa* for bryophyte communities in natural forest*

Martin Kukwa, Anna Łubek – *Lichens new to science and new to Poland discovered in Białowieża National Park*

Anna Łubek, Martin Kukwa – *Does Fraxinus excelsior dieback in Circaeo-Alnetum forest affect the lichen biota?*

Michalina Panek, Karolina Ruraż, Renata Piwowarczyk – *Identification of an urban heat island in the city of Sandomierz (SE Poland) based on the distribution of thermophilic plants - preliminary results*

Marek Podsiedlik – *The causes of changes in the geographical distributions of Senecio erucifolius in Poland, with particular emphasis on changes in the phytocenotic spectrum*

Karolina Ruraż, Michalina Panek, Renata Piwowarczyk – *The impact of climate change on species composition of xerothermic grasslands of the Sandomierz Upland based on origin of the geographical elements of flora*

Sylvia Wierzcholska, Marcin K. Dyderski, Andrzej M. Jagodziński – *Modelling the climate and habitat driven distribution of bryophytes at different spatial scales*

Magdalena Zarzycka, Joanna Gołębiowska, Anna Kuczyńska, Wojciech Zarzycki – *Climate changes vs. species ranges - research methods*

Maciej Ziemiański, Maciej Wódkiewicz – *Influence of changes induced by the urban heat island (UHI) on the microclimate conditions, conducive to existence of island communities of spring geophytes*

20:00 OFFICIAL DINNER

Thursday, 26th January 2017

7:30 - 8:45 BREAKFAST (+LUNCHBOXES FOR FIELD TRIP)

09:00 DEPARTURE BY BUSES TO ŚWIĘTOKRZYSKI NATIONAL PARK

17:30 RETURN FROM THE FIELD TRIP, DINNER

Friday, 27th January 2017

8:00 - 9:00 BREAKFAST