

6 June, Monday

10:00 – 10:30 Registration

Briefings on status quo of projects in regards to workshop and Copernicus for the stakeholders and the media

Chair: *Gabriella Zsebeházi*

- 10:30 Welcome to the press briefing and overview of the workshop
- 10:35 *Kornélia Radics*, President of Hungarian Meteorological Service
- 10:40 *Arild Moberg Sande*, Representative of Embassy of the Kingdom of Norway in Hungary
- 10:45 *Zsuzsanna Iványi*, Representative of Regional Environmental Center for Central and Eastern Europe
- 10:50 *Jean-Noël Thépaut*, Head of Copernicus Climate Change Service, European Centre for Medium-Range Weather Forecasts: Overview on the Copernicus Programme
- 11:15 Questions and discussion
- 12:00 Possibility for one-on-one interviews
- 12:30 End of press briefing

12:30 – 13:30 Lunch

6 June, Monday

13:30 – 14:00 Registration

Session 1: Introductions

Chair: *Gabriella Szépszó*

- 14:00 – 14:10 **Welcome and organizational issues**
Gabriella Szépszó, Hungarian Meteorological Service
- 14:10 – 14:40 **The Copernicus Climate Change Service (C3S)**
Jean-Noël Thépaut, European Centre for Medium-Range Weather Forecasts
- 14:40 – 15:10 **Experiences of co-operation with decision makers at the Norwegian Centre for Climate Services**
Hans Olav Hygen, Norwegian Centre for Climate Services
- 15:10 – 15:40 **Overview of the Adaptation to Climate Change Programme in Hungary**
Zsuzsanna Iványi, Regional Environmental Center for Central and Eastern Europe
- 15:40 – 15:50 **Discussion**

15:50 – 16:20 Coffee break

Session 2: Climate change information – observations and re-analyses

Chair: *Trond Iversen*

- 16:20 – 16:50 **Gridded observation data for Climate Services**
Ole Einar Tveito, Norwegian Meteorological Institute
- 16:50 – 17:10 **Gridded observations for climate change studies in Hungary**
Mónika Lakatos, Hungarian Meteorological Service
- 17:10 – 17:40 **The ERA5 reanalysis of the Copernicus Climate Change Service**
András Horányi, European Centre for Medium-Range Weather Forecasts
- 17:40 – 18:00 **Homogeneous tropospheric path delays from GNSS re-processing by Geodetic Observatory Pecny**
Jan Douša, Research Institute of Geodesy, Topography and Cartography, Czech Republic
- 18:00 – 18:10 **Discussion**

19:15 Dinner

7 June, Tuesday

8:30 – 9:00 Registration

Session 2: Climate change information – climate projections and seasonal predictions

Chair: *Jean-Noël Thépaut*

- 9:00 – 9:35 **NorESM – activities for CMIP; RCM – HarmonieClim status**
Trond Iversen, Norwegian Meteorological Institute
- 9:35 – 9:55 **Estimation of the extreme meteorological and hydrological conditions in Slovenia in the future**
Renato Bertalanic, Slovenian Environment Agency
- 9:55 – 10:15 **Climate dynamics research in Hungary**
Gabriella Szépszó, Hungarian Meteorological Service
- 10:15 – 10:35 **Decadal and centennial scale climate projection for the Carpathian Region taking into account RCP4.5 scenario**
Ildikó Pieczka, Eötvös Loránd University, Hungary
- 10:35 – 10:50 **The seasonal prediction activities of the Copernicus Climate Change Service**
András Horányi (on behalf of *Anca Brooksban*), European Centre for Medium-Range Weather Forecasts
- 10:50 – 11:00 **Discussion**

11:00 – 11:30 Coffee break

- 11:30 – 12:50 **Round table discussion on possible cooperation areas**
Chair: *Jean-Noël Thépaut*
Rapporteur: *Péter Szabó*
- 11:30 – 11:50 **Introductory talks for discussion: overview of past, recent and future calls in climate change and adaptation**
Gabriella Szépszó, Jean-Noël Thépaut

12:50 – 14:15 Lunch

Session 3: Climate change impact studies

Chair: *Ole Einar Treito*

- 14:15 – 14:35 **How can C3S help economic sectors? A proof-of-concept Sectoral Information System**
Jean-Noël Thépaut, European Centre for Medium-Range Weather Forecasts
- 14:35 – 14:55 **Mission possible: cooperation with climate model data users**
Péter Szabó, Hungarian Meteorological Service
- 14:55 – 15:15 **Adaptation support to forest management considering climate change information – results and challenges**
Borbála Gálos, University of West Hungary

15:15 – 15:35 **Evaluating the impact of climate change based on the National Adaptation Geo-information System**

Emese Homolya, Geological and Geophysical Institute of Hungary

15:35 – 15:45 **Discussion**

15:45 – 16:15 Coffee break

16:15 – 16:30 **Modelling the impacts of climate change on shallow groundwater conditions in Hungary**

Attila Kovács, Geological and Geophysical Institute of Hungary

16:30 – 16:45 **The application of RCM-driven hydrological model to the Uppest-Tisza basin**

Anna Kis, Eötvös Loránd University, Hungary

16:45 – 17:00 **Vulnerability of natural landscapes to climate change – a case study of Hungary**

Imelda Somodi, Centre for Ecological Research, Hungarian Academy of Sciences

17:00 – 17:15 **Introduction of Biome-BGCMuSo model**

Dóra Hidy, MTA-SZIE Plant Ecology Research Group, Hungarian Academy of Sciences

17:15 – 17:30 **Educating Climate – A Guide for Climate-adaptive Urban Planning**

Flóra Székordilis, Hungarian Urban Knowledge Centre

17:30 – 17:45 **The study of heat wave related excess mortality in Hungary at small area (NUTS4) level, 2005–2014**

Anna Páldy, National Public Health Center, Hungary

17:45 – 18:00 Technical break

18:00 – 19:30 Science café with poster introductions and demo about Copernicus

Chair: *Gabriella Szépsző*

- **The effect of climate change on heatwave related excess mortality in Hungary at small area (NUTS4) level, 2021–2050 and 2071–2100**
János Bobvos, National Public Health Center, Hungary
- **Demo about webpage of the Copernicus Climate Change Service**
Jean-Noël Thépaut (on behalf of *Éva Remete*),
European Centre for Medium-Range Weather Forecasts
- **Comparison of ERA-20C and ERA-Interim reanalysis datasets**
István Ibász (on behalf of *Zita Krisztina Balázs*), Hungarian Meteorological Service
- **Impact of climate change on the forest fire nature of Ukraine**
Svitlana Krakovska (on behalf of *Vira Balabukh*), Ukrainian Hydrometeorological Institute
- **Trends in heat-related cardiovascular mortality in urban population of the Czech Republic**
Aleš Urban, Institute of Atmospheric Physics, Czech Republic
- **Modelling of climate change induced urban climate with SURFEX land surface model**
Gabriella Zsebeházi, Hungarian Meteorological Service

8 June, Wednesday

8:45 – 9:00 *Registration*

Session 3: Climate change impact studies (continued)

Chair: *András Horányi*

- 9:00 – 9:20 **The Hungarian CRIGiS project**
Zita Bihari, Hungarian Meteorological Service
- 9:20 – 9:40 **Heating period features in Ukraine till the middle of the 21st century based on ensemble and individual RCM projections**
Svitlana Krakovska, Ukrainian Hydrometeorological Institute
- 9:40 – 10:00 **Urban climate projections for Central European cities and modelling tools for urban planning**
Maja Zuvella-Aloise, Zentralanstalt für Meteorologie und Geodynamik, Austria
- 10:00 – 10:20 **Society, economy and climate change: lessons from the long-term socio-economic forecasting for Hungary project**
Márton Czúrfusz, Centre for Economic and Regional Studies, Hungarian Academy of Sciences
- 10:20 – 10:30 **Discussion**

10:30 – 11:00 *Coffee break*

- 11:00 – 11:20 **Climate impacts and adaptation challenges in hilly regions of NE-Hungary**
János Mika, Eszterházy Károly University of Applied Sciences, Hungary
- 11:20 – 11:40 **Environmental indicators of climate change impacts in the Carpathian Basin**
Zsuzsanna Ladányi, University of Szeged, Hungary
- 11:40 – 13:00 **Round-table discussion on application of climate information with a 10-minute summarizing presentation based on the presentations of session 2-3**
Chair: *András Horányi*
Rapporteur: *Tamás Illy*

13:00 – 14:00 *Lunch*

Session 4: Dissemination, education, communication

Chair: *Edit Hoyk*

- 14:00 – 14:20 **Local capacity building activities under the EEA Adaptation to Climate Change Programme**
Réka Virág-Prokai, Regional Environmental Center for Central and Eastern Europe
- 14:20 – 14:40 **Getting across our message about climate change**
Rasmus Benestad, Norwegian Meteorological Institute

14:40 – 15:00 **How can a newspaper help? – Practical examples from the GazMag online magazine**

Marcell Tóth, Széchenyi István University, Hungary

15:00 – 15:20 **Education of and by climate change**

János Mika, Eszterházy Károly University of Applied Sciences, Hungary

15:20 – 15:40 **Climate Change and Local Level Adaptation Strategies in Hungary**

Antal Z. László, Centre for Social Sciences, Hungarian Academy of Sciences

15:40 – 15:50 Technical break

15:50 – 16:20 **Café and round-table discussion on dissemination, education, communication**

Chair: *Edit Hoyk*

Rapporteur: *Judit Sábitz*

16:25 – 16:50 **Final discussion on possible cooperation areas, conclusions, closure**

Chair: *Gabriella Szépszó*

Rapporteur: *Péter Szabó*