



Challenges in Meteorology 6 / *Meteorološki izazovi 6*

Applying advanced technology in solving the meteorological challenges /

Napredne tehnologije u rješavanju meteoroloških izazova

Zagreb, KRAŠ Auditorium, Ravnice 48

15 – 16 November 2018

PROGRAMME

15 November 2018		
8:00–9:30 Registration		
9:30–10:15 Welcome words		
Time	Authors	Title
Climate change and adaptation		
<i>Chairs:</i> Čedo Branković, Ivan Güttler		
10:15-10:45	Vladimir Đurđević, Zaviša Janjić	Transforming the Earth's atmosphere into a discreet world (invited talk)
10:45-11:00	Tímea Kalmár, Ildikó Pieczka, Rita Pongrácz, Judit Bartholy	Difficulties in selecting the most appropriate model setup of RegCM for the Pannonian region with a special focus on precipitation
11:00-11:15	Renata Sokol Jurković, Ivan Güttler	Bivarijatna korekcija pristranosti mjesečne temperature zraka i oborine iz regionalnog i globalnog klimatskog modela / <i>Bivariate bias correction of monthly temperature and precipitation from regional and global climate model</i>
11:15-11:45	Pause	Coffee break
11:45-12:00	Jelena Luković, John Chiang	Seasonal shifts in the Mediterranean type climates
12:00-12:15	Ivana Marinović, Ksenija Cindrić Kalin, Ivan Güttler, Zoran Pasarić	Expected climate changes in dry spells over Croatia
12:15-12:30	Nataša Strelec Mahović, Stjepan Ivatek-Šahdan, Zvonimir Jakopović	Modernizacija meteorološke motriteljske mreže kao temelj za kontinuirano praćenje klime i klimatskih promjena / <i>Modernisation of the National Weather Observing Network as a base for climate and climate change monitoring</i>
12:30-12:45	Željko Majstorović	Klimatske promjene i prilagodba na teritoriji Bosne i Hercegovine / <i>Climate change and adaptation in Bosnia and Herzegovina</i>

Climatology and biometeorology <i>Chairs: Ivana Herceg Bulić, Maja Telišman Prtenjak</i>		
12:45-13:15	Ferenc Acs	Thermal impact of weather on the humans (invited talk)
13:15-13:30	Sara Ivasić, Ines Muić, Ivana Herceg Bulić	Utjecaj ENSO-a i NAO-a na klimatsku varijabilnost Europe / <i>ENSO and NAO influence on climate variability in Europe</i>
13:30-14:45	Pause	Lunch break
14:45-15:00	Melita Perčec Tadić, Irena Nimac	Climate maps of monthly precipitation amounts
15:00-15:15	Irena Nimac, Ivana Herceg Bulić, Melita Perčec Tadić, Ksenija Zaninović	Analiza ljetnih i zimskih temperatura na području grada Zagreba / <i>Summer and winter temperature analyses over the area of Zagreb</i>
15:15-15:30	Sarah Ivušić, Ivan Güttler, Kristian Horvath	Application of verification method SAL on a regional climate model simulations of heavy precipitation events
Agrometeorology and agroclimatology <i>Chairs: Branko Grisogono, Višnjica Vučetić</i>		
15:30-15:45	Branimir Omazić, Maja Telišman Prtenjak, Višnjica Vučetić, Ivan Prša, Marko Karoglan	Analyses of agroclimatic indices applied to Croatian grapevine growing regions in present and in the future climate
15:45-16:00	Petra Sviličić	Agrometeorološke informacije na mrežnim stranicama DHMZ-a za potrebe poljoprivrednika / <i>Agrometeorological information for farmers on DHMZ web page</i>
16:00-16:30	Pause	Coffee break
16:30-16:45	Damir Ugarković, Ivica Tikvić	Utjecaj klime na osutost krošanja i odumiranje stabala obične jele (<i>Abies alba</i> Mill.) u Gorskom kotaru / <i>Climate influence on abies (<i>Abies alba</i> Mill.) defoliation and dieback in Gorski kotar</i>
16:45-17:00	Višnjica Vučetić, Ivana Carević, Ivana Čavlina Tomašević, Antun Marki	Ekstremni vremenski uvjeti tijekom prehladne kiše u sjeverozapadnoj i gorskoj Hrvatskoj u veljači 2014. / <i>Extreme weather conditions during supercooled rain in NW and mountainous Croatia in February 2014</i>
17:00-17:15	Renata Pernar, Mario Ančić, Jelena Kolić	Primjena WorldView 2 satelitskih snimaka za procjenu šteta na šumskim sastojinama uzrokovanih velikim prirodnim nepogodama / <i>Application of WorldView 2 satellite records in estimation of forest stands damage caused by natural disasters</i>
End of the first day		

16 November 2018

Meteorological extremes and their impacts

Chairs: **Branka Ivančan-Picek, Kristian Horvath**

09:00-09:30	Heinz Jürgen Punge	Quantifying severe convective storm hazard in Europe (invited talk)
09:30-09:45	Damjan Jelić, Otilia Anna Megyeri, Andreina Belušić, Maja Telišman Prtenjak	Munje kao alat za promatranje karakteristika tuče / <i>Lightning data as proxy for hail detection</i>
09:45-10:00	Tanja Trošić Lesar, Tanja Likso	Hladni val u Hrvatskoj u drugoj dekadi travnja 2017. / <i>Cold wave in second decade of April 2017 in Croatia</i>
10:00-10:15	Damjan Jelić, Otilia Anna Megyeri, Andreina Belušić, Maja Telišman Prtenjak	Prostorne i vremenske karakteristike tuče u Hrvatskoj s fokusom na Istru / <i>The spatial and temporal hail characteristics over Croatia with a particular focus on Istria region</i>
10:15-10:30	Jadranka Šepić	Školska mreža automatskih meteoroloških postaja na području otoka Vancouver (BC, Canada) kao alat za praćenje meteoroloških ekstrema na prostorno-vremenskoj skali visoke rezolucije / <i>School automatic meteorological stations network at Vancouver island (BC, Canada) as a tool for meteorological extremes monitoring on high temporal-spatial resolution</i>
10:30-10:45	Barbara Malečić, Željko Večenaj, Branko Grisogono	Estimation of turbulence triplet covariances for bora flows
10:45-11:00	Lada Gabela Šeperić, Jadran Jurković, Željko Večenaj, Branko Grisogono	Case study of a bora event at the Dubrovnik airport
11:00-11:30	Pause	Coffee break
11:30-11:45	Branko Grisogono, Jielun Sun, Danijel Belušić	(In)compatibility between HOST and MOST for near-neutral and stably stratified surface layer
11:45-12:00	Nina Nikolova, Georgi Rachev, Dimitar Krenchev	Extreme Air Temperature at the Southwestern Slope of Pirin Mountain (Bulgaria) during the Period 2012-2018
12:00-12:15	Mariam Elizbarashvili, Elizbar Elizbarashvili	Extreme Atmospheric Precipitations on the Territory of Georgia
12:15-12:30	Aleš Grlj, Andreja Sušnik, Gregor Gregorič, Žiga Kokalj	Drought Watch Within DriDanube Interreg Project

Weather forecast		
<i>Chairs:</i> Nataša Strelec Mahović, Ivana Stiperski		
12:30-12:45	Zoran Vakula	HRT METEO
12:45-13:00	Stjepko Jančijev	Project eGAFOR
13:00-14:15	Pause	Lunch break
14:15-14:30	Jadran Jurković, Igor Kos	First results of forecast verification of Terminal Aerodrome Forecast during the last 10 years
14:30-14:45	Suzana Panežić, Antonio Stanešić, Barbara Vodarić Šurija	Implementacija nowcasting sustava u Hrvatskoj / <i>Implementation of nowcasting in Croatia</i>
14:45-15:00	Martina Tudor	Regionalna suradnja na modelu za ograničeno područje za srednju Europu RC LACE / <i>Regional cooperation in developing of the RC LACE model for Central Europe</i>
15:00-15:15	Endi Keresturi, Yong Wang, Florian Meier, Florian Weidle, Christoph Wittmann	Improving initial condition perturbations in a convection-permitting ensemble prediction system
15:15-15:30	Marko Zoldoš, Jadran Jurković	Experience in conditional probability application for short-time fog forecast at Zagreb airport / <i>Iskustva s upotrebom uvjetne vjerojatnosti u kratkoročnom prognoziranju magle na zračnoj luci Zagreb</i>
15:30-15:45	Tomislava Hojsak, Marija Mokorić	Meteorološke prognoze u zaštiti od požara raslinja / <i>Weather forecasts in protection from forest fire</i>
15:45-16:00	Izidor Pelajić, Krunoslav Mikec, Tomislav Kozarić, Tanja Renko, Nevenka Kadić Vlahović, Blaženka Matjačić	Napredne tehnologije u operativnoj prognozi vremena / <i>Advanced technology in weather forecast</i>
16:00-16:30	Pause	Coffee break
Applied meteorology and air quality		
<i>Chairs:</i> Amela Jeričević, Zvezdana Bencetić Klaić		
16:30-16:45	Branislava Lalić, Josef Eitzinger, Anna Dalla Marta, Simone Orlandini, Ana Firanj Sremac	Agricultural Meteorology and Climatology: Book presentation
16:45-17:00	Ivana Stiperski, Mathias W. Rotach, M. Arpagaus, J. Cuxart, S. F. J. De Wekker, V. Grubišić, N. Kalthoff, D. J. Kirshbaum, M. Lehner, S. D. Mobbs, A. Paci, S. Serafin, and D. Zardi	A coordinated effort to investigate Transport and Exchange Processes in the Atmosphere over Mountains-Experiment (TEAMx)

17:00-17:15	Jadran Jurković, Lada Gabela Šeperić, Igor Kos, Branko Grisogono, Željko Večenaj	Small mesoscale features during bora at Dubrovnik airport
17:15-17:30	Igor Kos, Alen Sajko	Advanced meteorological service for air traffic management in Croatia
17:30-17:45	Goran Gašparac, Amela Jeričević, Prashant Kumar	Regional modelling and assessment of atmospheric particulate matter concentrations at rural background locations in Europe
17:45	Closing the meeting	

Posters		
1.	Marko Vučetić, Višnjica Vučetić	Trends of the phenological phases and growing degree days for olive trees in Croatia
2.	Višnjica Vučetić, Marko Vučetić, Branimir Omazić, Maja Telišman Prtenjak, Ivan Prša, Marko Karoglan	Grapevine phenology and agroclimatic indices in Croatia under climate change
3.	Ivan Korotaj, Ivan Vujec, Damjan Jelić, Željko Večenaj	Energy budget at the experimental vineyard in Zagreb
4.	Vinko Šoljan, Jadran Jurković	Convection Nowcast for Air Traffic Management Verification
5.	Martina Tudor, Alena Trojáková, Mate Mile	Operativni sustav pripreme mjerenih podataka za RC LACE (OPLACE) / <i>Operational system for measurement data preparation for RC LACE (OPLACE)</i>
6.	Martina Tudor, Martin Belluš, Florian Weidle, Christoph Wittmann, Simona Tascu	ALADIN LAEF
7.	Renata Sokol Jurković, Ivan Güttler	Bias correction of monthly temperature and precipitation from regional climate model – calibration and validation
8.	Lidija Cvitan, Mirta Patarčić	Future heating and cooling needs at two Croatian lowland locations
9.	Ana Šljivić, Željko Večenaj, Damir Ptičar, Branko Grisogono	Sensitivity of turbulence integral length scales for bora flows on data filtering
10.	Lada Gabela Šeperić, Ivan Baletić, Jadran Jurković, Alen Sajko, Ludovic Thoboi	First LIDAR measurements in Croatia
11.	Amela Jeričević, Goran Gašparac	Impacts on air quality due to aviation emissions
12.	Ksenija Cindrić Kalin, Kornelija Špoler Čanić, Lidija Srnec, Ivana Marinović, Blaženka Matjačić, Lovro Kalin	DriDanube project – The role of DHMZ
13.	Tanja Trošić Lesar, Marija Mokorić	Analiza šumskog požara kod Splita, 17. – 19. srpnja 2017. godine / <i>Analyses of forest fire on 17-19 July 2017 near Split</i>
14.	Marko Blašković, Kristina Klemenčić-Novinc	Project EUMeTrain / Satellite Meteorology Yesterday, Today, Tomorrow