



Regional Wildland Fire Networks:  
 North America – Mesoamerica – South America – Caribbean – Mediterranean – Southeast Europe / Caucasus – Euro-Alpine – Near East – Sub-Saharan Africa – South Asia – Southeast Asia – Australasia – Northeast Asia – Central Asia – Eurasia



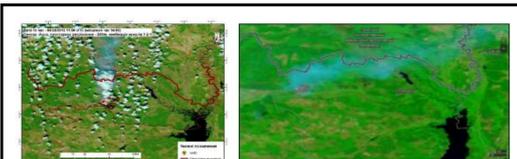
## Regional Eurasian Wildland Fire Network Regional Eastern Europe Fire Monitoring Center (REEFMC)



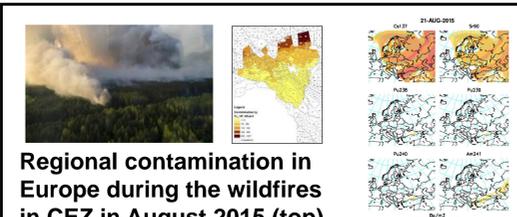
### Major Wildland Fire Issues in Eastern Europe



More than 1400 fires occurred in Belorussian and Ukrainian Chernobyl Exclusion Zone (CEZ) during 1993-2018, including most contaminated Red Forest.



Large wildfires of 2015-2018 in CEZ burned 25 000 ha and resulted in transborder (left – Belorussia, right – Russia) and regional contamination of environment



Regional contamination in Europe during the wildfires in CEZ in August 2015 (top) and map of doses of firefighters during the fires in April 2015 (right)



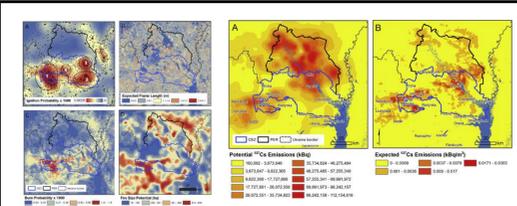
Fire prevention measures related with generation of dust also pose threat of high inhalation dose for personal. During 10 days a tractor operator can obtain the annually permissible doses.



Map and software for calculating of predicted internal and external doses during firefighting developed in co-operation with the OSCE



Joint Belorussian-Ukrainian table-top interagency exercise on suppression of transborder fires in CEZ (OSCE, GFMC, 2018)



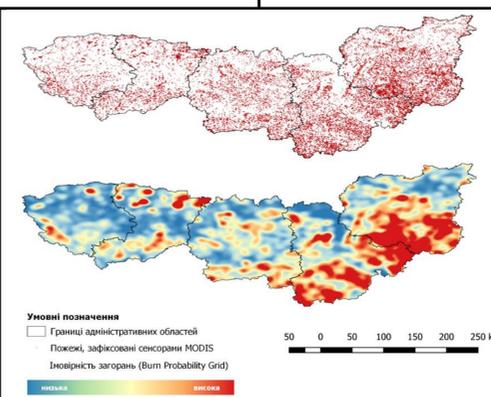
Ignition probability, flame length, fire size potential and <sup>137</sup>Cs emission potential (Ager et al., 2019)

### The Regional Eurasian Wildland Fire Network

First studies and analysis of fire situation in Ukraine started in 1995. Since 1993 first steps to analyse fire risks in contaminated forests of the Chernobyl Exclusion Zone were taken. Since 2007 the co-operation with the Global Fire Monitoring Center (GFMC) started. An agreement between the GFMC and the National University of Life and Environmental Sciences of Ukraine was signed in 2013. In April 2013 the Regional Eastern Europe Fire Monitoring Center was officially inaugurated in Kyiv, Ukraine

**Regional Network Activities**  
 Main activities of the network related with fire research, fire education and training and support of interagency dialogue on implementation of integrated landscape fire management

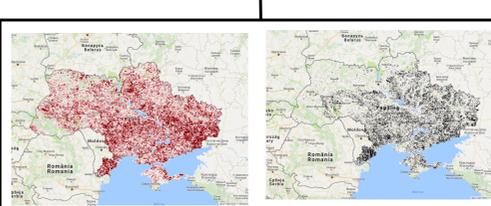
**The Regional Eastern Europe Fire Monitoring Center (Kyiv, Ukraine)**  
 The Center is serving as a center of excellence and platform on science / policy / fire management interface on national and regional level. Activities of the Center cover most challenging landscape fire problems in Ukraine and Belorussia. Among them most challenging are fire management in contaminated by radionuclides forests and landscape fires on agriculture and grasslands. The Center is developing an on-line platform for five northern oblasts bordering with Belarus (Volyn, Rivne, Zhytomyr, Kyiv, Chernihiv) that integrate topography and climate data with land cover and land use as well with fire history that allow every land user clarify ignition and burn probability and shape resources in accordance to existed risk. The center developed some legislative initiative to reduce agriculture burn as well as provide trainings of fire fighters accordingly to the EuroFire Competency Standards.



Fire history and burn probability of landscapes of five northern oblasts of Ukraine increasing from the Western to Eastern parts of the country



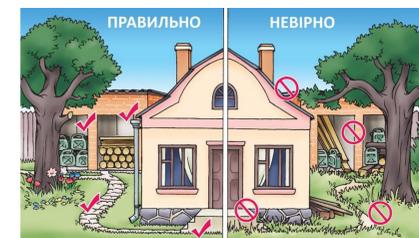
Map of agriculture fires in Ukraine during 2010-2016 on spring (left), summer (middle) and autumn (right)



Map of number of agriculture fires (left) and area burned in Ukraine during 2010-2016 (based on NASA / MODIS data)

Agricultural burnings in Ukraine are source of extensive regional and local emissions of carbon dioxide and black carbon. Particles of black carbon from spring agricultural fires deposited in Arctic and stimulate ice melting.

Agricultural burnings in Ukraine threaten rural communities and their homes. In cooperation with GFMC Guidelines for the Protection of Rural Communities from Wildfires were developed with support of Council of Europe / EUR-OPA



Field exercises and hands-on training of fire forest fighters based on EuroFire Competency Standards are important part of activity of REEFMC

REEFMC Training Guidelines for Firefighters based on IRPG

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**ДОВІДНИК  
 ЛІСОВОГО ПОЖЕЖНОГО**

Квітень 2019 р.