

THE EUROPEAN FLOOD AWARENESS SYSTEM (EFAS)

On-demand mapping



Mapping

Mapping

Early warning and monitoring







The Copernicus Emergency Management Service (CEMS) supports all actors involved in the management of natural or man-made disasters by providing geospatial data and images for informed decision-making. CEMS constantly monitors Europe and the globe for signals of an impending disaster or evidence of one happening in real time.

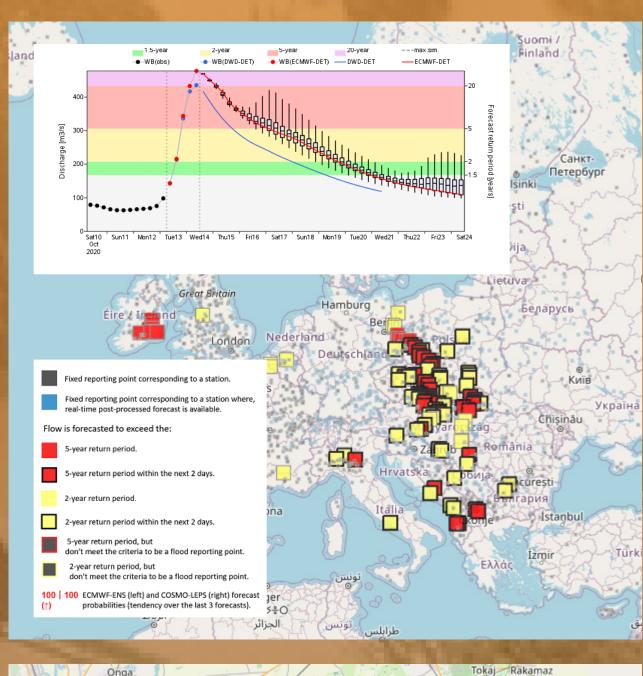
As part of the "early warning and monitoring" component of CEMS, EFAS is the first operational pan-European flood forecasting and monitoring system. EFAS provides a wide range of early flood forecasting information to support national and regional authorities responsible for flood risk management in arranging preparatory measures before an event strikes.

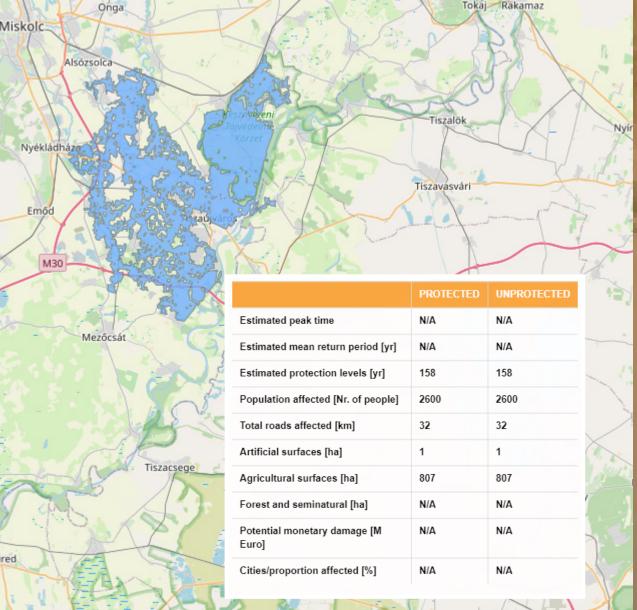
Additionally, EFAS provides a unique overview across Europe and neighbouring countries on currently observed and forecasted flood events. It is an asset to the flood risk management of large trans-national river basins, as well as to the European Civil Protection Mechanism. In addition to forecasting where and when large riverine and flash floods will likely occur, the service also estimates and maps the potential socio-economic impact of those events.

FLOOD NOTIFICATIONS SENT PER YEAR 500+ FLASH FLOOD NOTIFICATIONS SENT PER YEAR

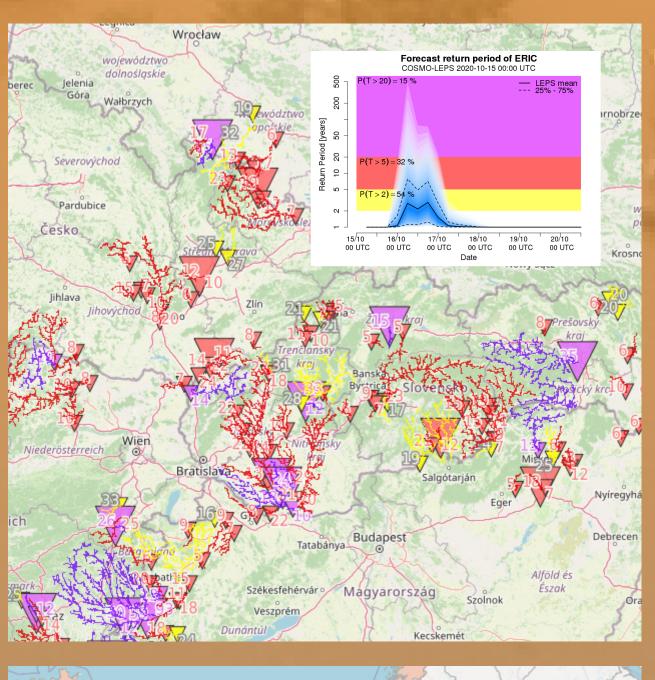
EFAS **PARTNERS** 24/7/365 SERVICE AVAILABILITY

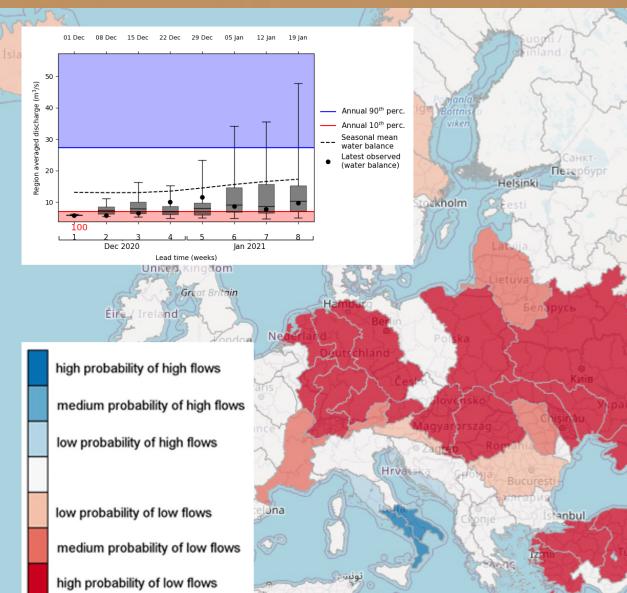
+ HYDROL-OGICAL AND 23,000+ METEOROLOGICAL NEAR REAL-TIME STATIONS





EFAS is the first operational European system monitoring and forecasting floods across Europe. It provides complementary, added value information (e.g. probabilistic, medium range flood forecasts, flash flood indicators or impact forecasts) to the relevant national and regional authorities. EFAS medium-range flood forecast provides an overview of upcoming flood events for the next 10 days, including possible flood impacts. EFAS forecasts are updated twice daily and are used to send flood notifications to EFAS partners of predicated high risk of flooding. EFAS can also warn our On-Demand mapping component to enable a faster mapping of a flood through pre-tasking.





EFAS sub-seasonal and seasonal hydrological outlooks summarise the hydrological situation over the next 6 and 8 weeks respectively, and predict changes with respect to the hydrological extremes (high and low flows). Outlooks can be used to support various waterrelated applications such as reservoir management, navigation, irrigation or drought risk management. The seasonal hydrological outlook is issued monthly, while sub-seasonal outlook is issued twice weekly.

EFAS indicators of flash floods are based on high-resolution numerical weather predictions with up to 5 days lead-time as well as radar-based precipitation monitoring and "nowcasting" with up to 6 hours.



EFAS map

viewer





https://emergency.copernicus.eu/ https://www.efas.eu/



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