

The contribution of COSMO members IMS and CIMA to humanitarian cooperation in Ukraine

Davide Miozzo, Sabrina Meninno, Giorgio Meschi, Fabio Violante, Rocco Masi, Martina Lagasio, Massimo Milelli (all CIMA Research Foundation), Lorenzo Massucchielli (Italian Red Cross), Yoav Levi, Pavel Khain, Alon Shtivelman, Nir Stav (all Israel Meteorological Service), Sari Lappi (WMO), Umberto Modigliani (ECMWF)

In the framework of the EU-funded programme for Prevention, Preparedness and Response to natural and man-made disasters in Eastern Partnership countries - phase 3 (PPRD East 3), ECMWF, CIMA and IMS collaborated to release a daily Impact-Based Forecast Bulletin (IBF) over Ukraine. The IBF combines information on weather variables, encompassing low temperatures, rain, wind, snow, and biometric indices, with data on particular vulnerabilities. In particular, weather data are retrieved from the numerical weather prediction model ICON run by the Israel Meteorological Service (IMS) and the IBF has been built up with the help of CIMA expertise and the local Met Service.

The ICON model provides data with a horizontal resolution of 2.5 kilometres and a temporal resolution of 1 hour. Data are then aggregated in time and space over Ukrainian Oblasts and classified in colour-coded categories. They thus show alert levels to convey hazard information that is immediately identifiable, recognisable and comprehensible by non-experts working on the ground (e.g., International Red Cross).

For more information on the IBF, see [ECMWF Newsletter](#)

For more info about the project PPRD East 3, see [PPRD](#)