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The Météo-France products for visualising ensemble forecasts

Météo-France is facing a decreasing man-power dedicated to weather forecasting whereas in the meantime more and more weather data become available to the forecasters. Therefore, in the last couple of years, several products have been developed to quickly visualize the ensemble forecasts. We have developed bubble and bar charts that are used to detect signals in forecast ensembles but also to classify this event among a climatology of remarkable past weather events (such as heatwave, severe storms, intense precipitation events). A product showing the signal of each ensemble members at different runs gathered in a single chart is also well appreciated by our forecasters. Because Extreme Forecast Index (EFI) is also an interesting tool to visualize ensembles, we have developed our own EFI for wind and rainfall using Météo-France global and limited-area models. Those EFI are produced without the use of a French reanalyze. Finally, APIC (Avertissement pluies Intenses à l'échelle des communes) is an automatic warning service that indicates in real time the exceptional nature of the precipitation in progress over a commune.

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