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Applications of ensemble prediction systems at Météo-France

Wednesday, 5 June 2019 09:30 (30 minutes)

In this presentation, different Météo-France applications based on the main operationnal ensemble prediction systems will be presented.

On the one hand it must be stressed that french forecaster use these operational ensembles every day, from very short- to medium-range.
On the other hand several ongoing studies investigate the feasibility of using ensemble weather forecasting for applications like agriculture management, hydrology, detection of extreme weather events, etc.

For instance, for the detection of intense precipitation or wind gust, the calculation of EFI/SOT indexes based on the french global ensemble prediction system known as "Prévision d'Ensemble ARPEGE" (PEARP) or on the high-resolution limited area ensemble forecast system known as "Prévision d'Ensemble AROME" (PEAROME) is examined. The use of an object-oriented approach to extract and track precipitation features, or to provide weather scenarios is also explored. Finally, a recent paper has also shown the benefits to using PEARP for the control of satellite-based communication systems.

Primary authors: Mrs BOISSERIE, Marie (Météo-France); Mrs GIRARDOT, Nicole (Météo-France)

Presenters: Mrs BOISSERIE, Marie (Météo-France); Mrs GIRARDOT, Nicole (Météo-France)

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