

Session overview

- ▣ Probabilistic Forecasting and LAMEPS.



Systems

- I.L. Frogner: EuroTEPS often performs better than EPS (with similar number of members) on the domain.
 - H. Federsen: extensive evaluation of HirEPS, comparable to EPS (51 members). Inclusion of multiple models and stochastic physics: further positive impact.
 - T. Iversen: GLAMEPS: first results for test periods are very promising.
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Systems

- F. Weilde: LAEF-2 (operational since Feb. 2009), breeding and blending, perturbations for surface,...
 - Impact of **clustering** for precipitation is very good, but reduces spread for e.g. T2m.
 - L. Kalin: post-processing with **Logistic Regression** for precipitation. Largest improvements are for low thresholds.
 - Poster: J-A Garcia-Moya: SREPS
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Perturbations

- R. Stappers: **CAPE-SV**'s give more energy at lower levels, specific humidity. Some noisiness.
- A. Johansson: ETKF compared to TEPS SV's. The perturbations grow slower than SV, but larger spread in earlier phase. Impact of the number of observations.



Discussion: Extreme cases

- Standard verification doesn't tell so much about **extremes**. How should we optimise a system for extremes?
 - This is difficult, because of the small number of cases.
 - Use standard scores for longer periods, look at specific cases to check system for extremes.
 - Access to climatological data (24h precipitation) to increase available data in extreme cases?
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Discussion: LAM specific perturbations

- Methods: SV, ETKF, breeding
 - How increase spread in first 12h?
 - Perturbations of LBC's: large impact after 12h.
 - Need to address surface perturbations.
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