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Calibrated probabilistuc forecasts and their presentation on a website

Slava Kharin

CCCma, Environment Canada, Victoria, BC, Canada

4th GOAPP workshop, May 31, 2010

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CMOS 2010 session

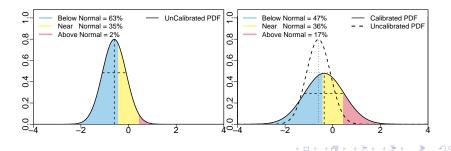
CMOS 2010 session: *"Ensemble forecasting: current and emerging applications (Part 2)"* June 4, Friday 14:45, Ballroom C.

Kharin, V.: "Statistical forecast adjustment with seasonally and spatially smoothed statistics"

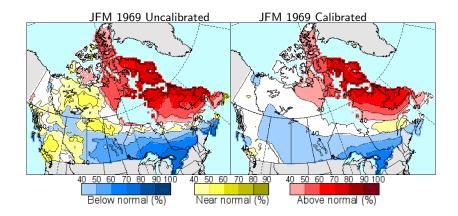
Calibrated probability forecasts

Calibration method is described in Kharin and Zwiers (2003) and Kharin (2010):

- Gaussian estimator is used for deriving probability forecasts (as opposite to a "count-method") by fitting a normal distribution $\mathcal{N}(aX_U, b\sigma_U)$ to the forecast ensemble.
- rescaling coefficients *a* and *b* are determined by optimizing the Brier score (based HFP2 hindcasts for all 12 seasons).



One map probability forecast summary



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Experimental calibrated forecasts on CCCma's website

http://www.cccma.ec.gc.ca/data/seasonal_forecast/sf.shtml
(developed by M.Fyfe and S.Kharin)
Username: cccmasf
Password: seasforum