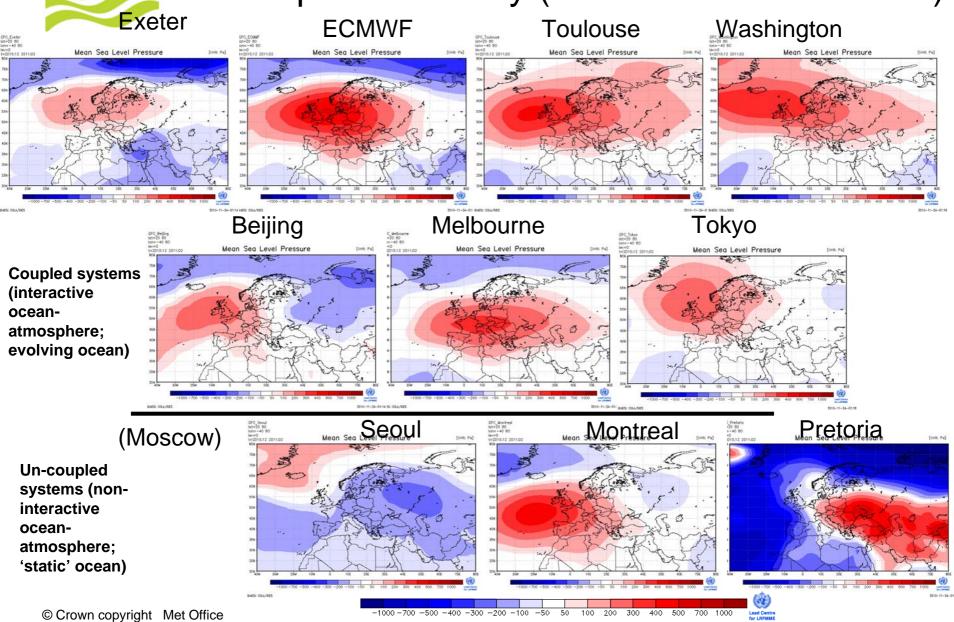


GPC and LC-LRFMME output: Europe DJF 2010/11

SEECOF winter forum 2010

GPC forecasts for DJF 2010/11: ensemble mean pmsl anomaly (from LC-LRFMME web)

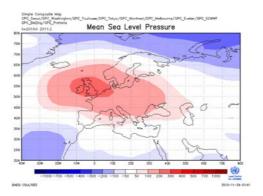


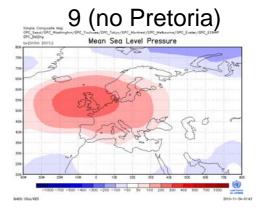
Met Office Hadley Centre

Multi-model GPC pmsl forecasts, DJF 2010/11

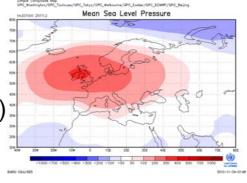
from LC-LRFMME website

Ensemble mean of 10 GPCs

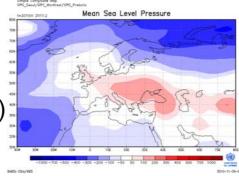




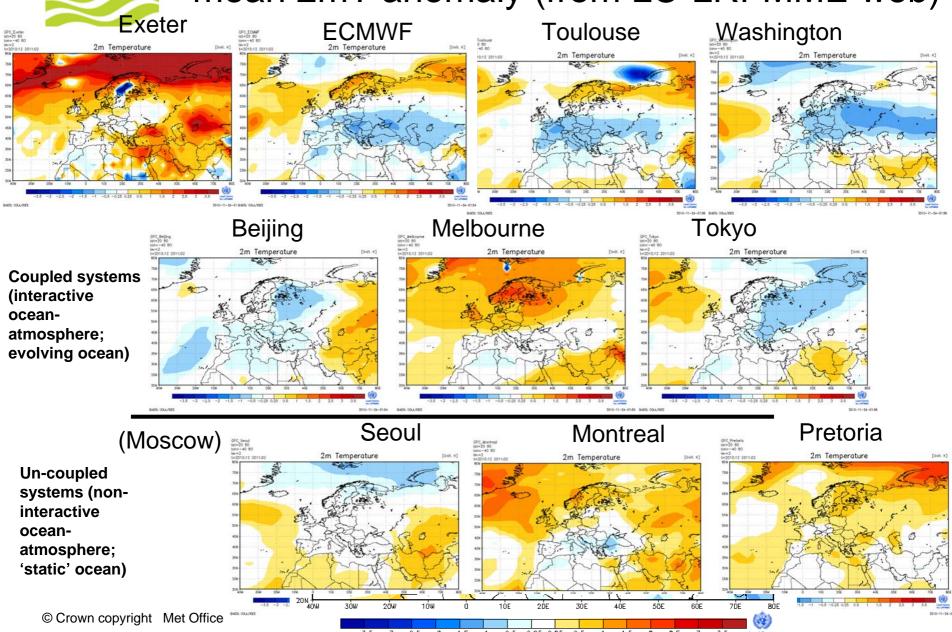
Ensemble mean of 7 GPCs (coupled systems)



Ensemble mean of 3 GPCs (uncoupled systems)



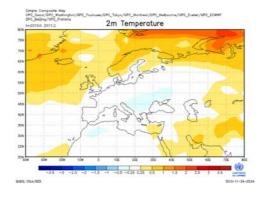
GPC forecasts for DJF 2010/11: ensemble mean 2mT anomaly (from LC-LRFMME web)



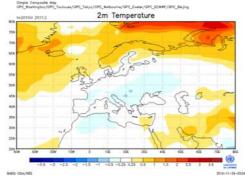


Multi-model GPC 2mT forecasts, DJF 2010/11 from LC-LRFMME website

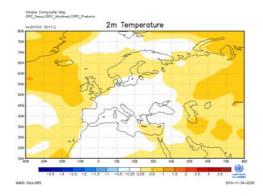
Ensemble mean of 10 GPCs



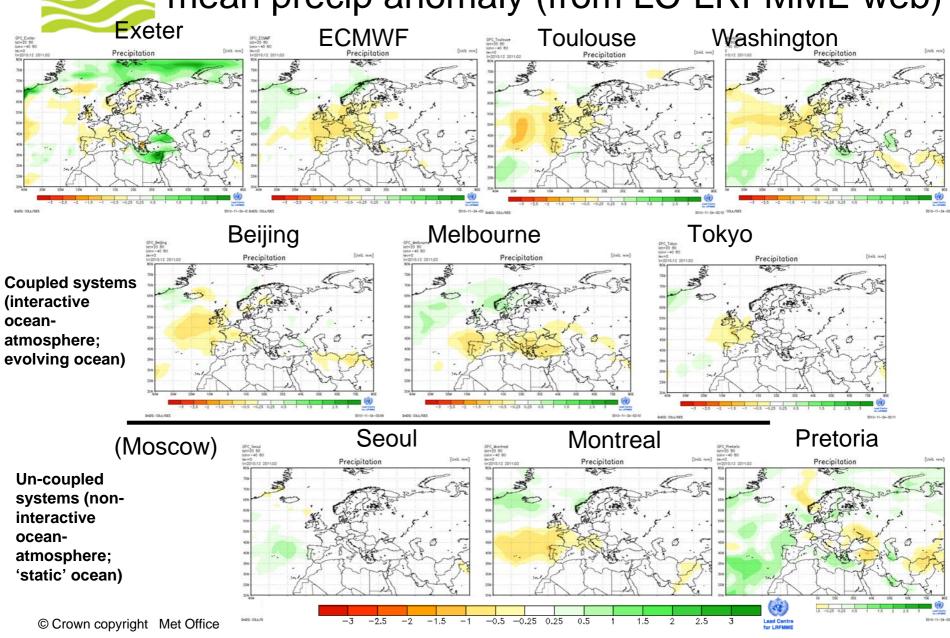
Ensemble mean of 7 GPCs (coupled systems)



Ensemble mean of 3 GPCs (uncoupled systems)



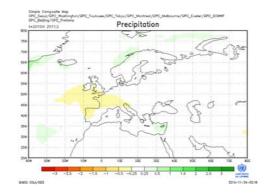
GPC forecasts for DJF 2010/11: ensemble mean precip anomaly (from LC-LRFMME web)



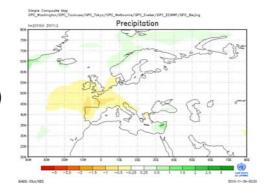


Multi-model GPC 2mT forecasts, DJF 2010/11 from LC-LRFMME website

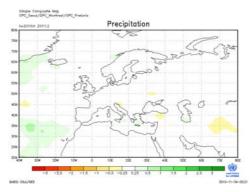
Ensemble mean of 10 GPCs



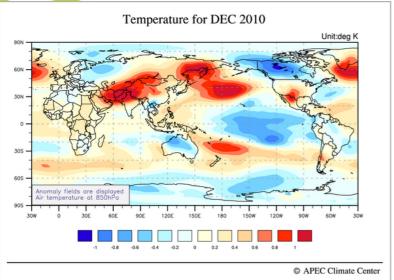
Ensemble mean of 7 GPCs (coupled systems)

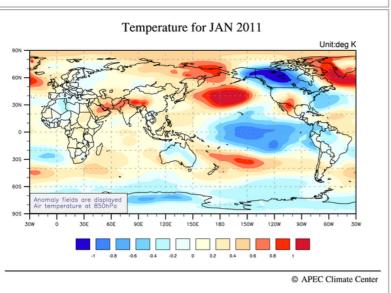


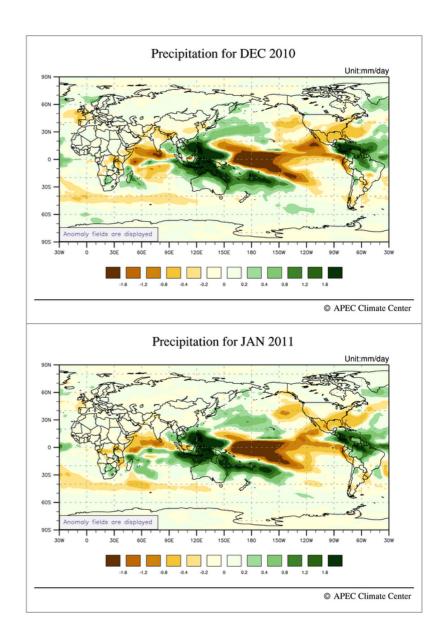
Ensemble mean of 3 GPCs (uncoupled systems)



APCC



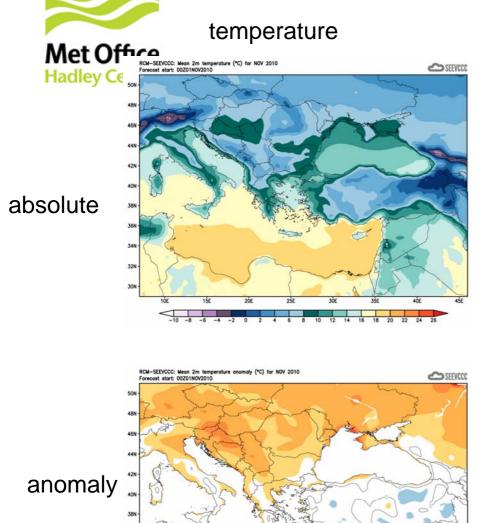






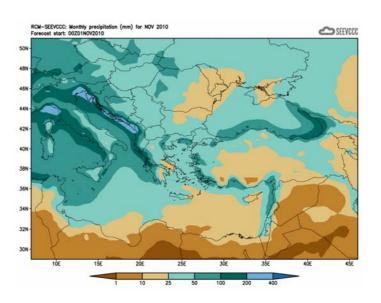
Regional models - SEEVCCC

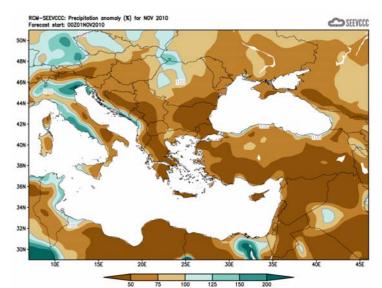
Monitoring: November 2010



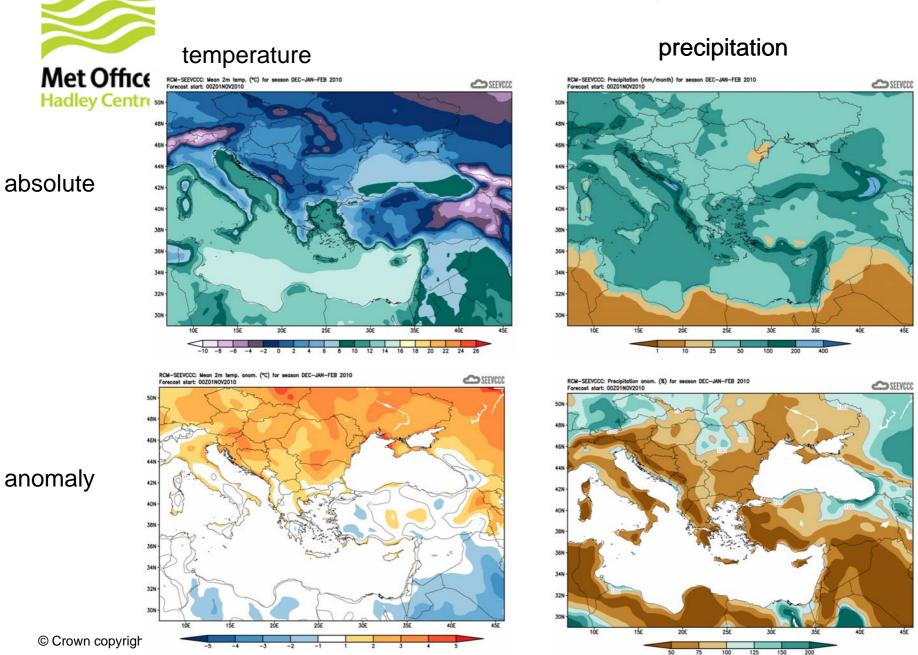
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precipitation



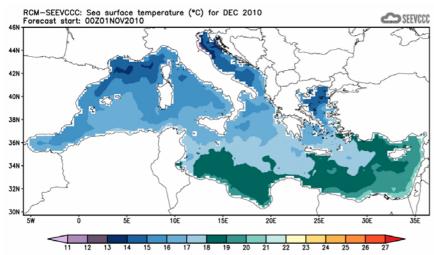


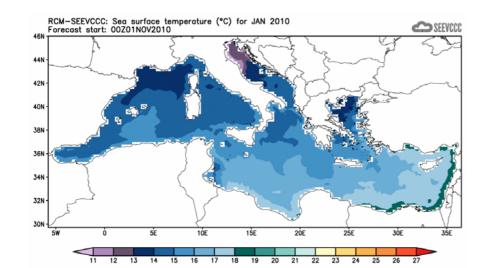
Prediction: seasonal mean, ensemble mean

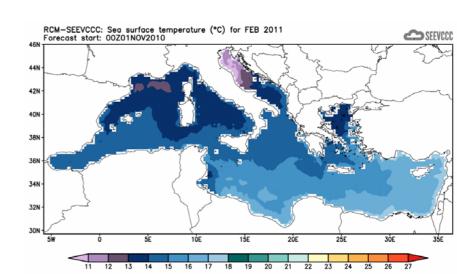




Prediction: monthly means, SST

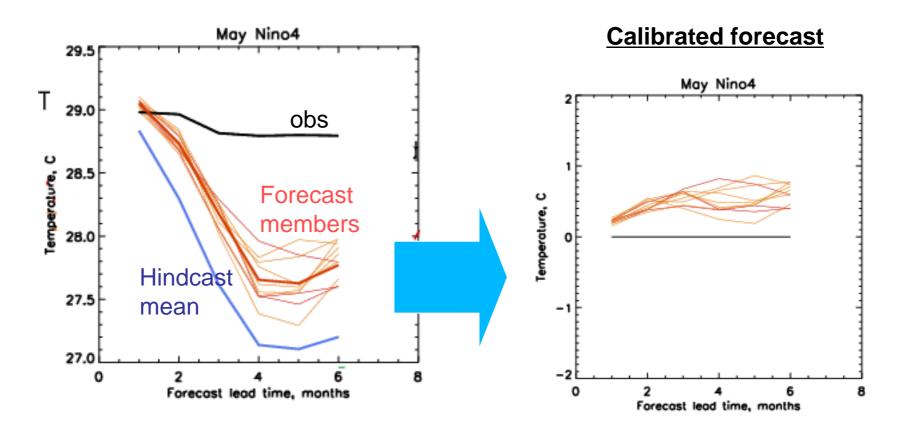








Caveat: model bias



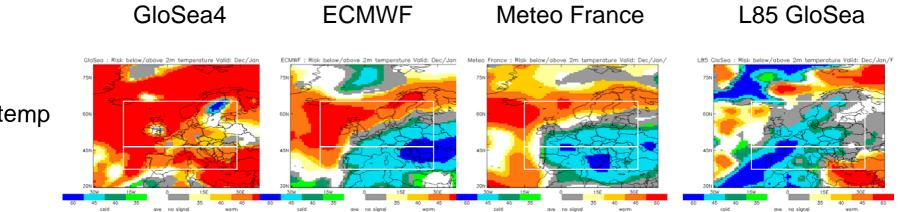
At long range, predict anomalies

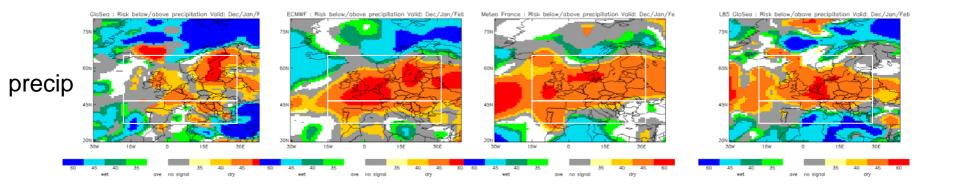


Probabilistic forecasts



Summary: DJF







Summary – N.Europe area-averaged probabilities

Temperature

• GloSea Above 55%, Near 25%, Below 20%

• ECWMF Above 40%, Near 25%, Below 35%

Met France
Above 30%, Near 35%, Below 35%

• L85 GloSea Above 25%, Near 35%, Below 40%

Anomaly GI +0.50, EC -0.03, MF -0.14 L85 -0.35

Rainfall

GloSea Above 25%, Near 30%, Below 45%

ECMWF Above 20%, Near 30%, Below 50%

Met France Above 20%, Near 30%, Below 50%

L85 GloSea Above 20%, Near 30%, Below 50%

Anomaly GI -0.18, EC -0.30, MF -0.28, L85 -0.27



Summary – S.Europe area-averaged probabilities

Temperature

• GloSea Above 55%, Near 30%, Below 15%

• ECWMF Above 20%, Near 30%, Below 50%

Met France Above 20%, Near 35%, Below 45%

L85 GloSea Above 25%, Near 30%, Below 45%

Rainfall

GloSea Above 35%, Near 30%, Below 35%

ECMWF Above 30%, Near 30%, Below 40%

Met.France Above 30%, Near 35%, Below 35%

L85 GloSea Above 40%, Near 30%, Below 30%



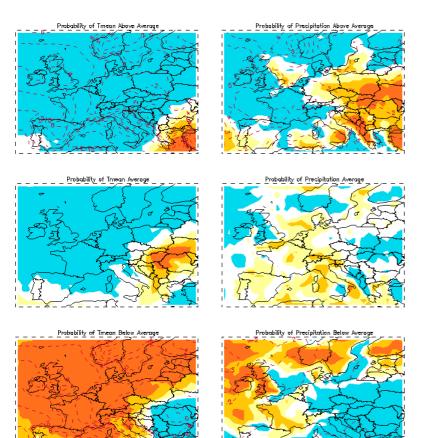
Europe T2m / precip terciles probabilities

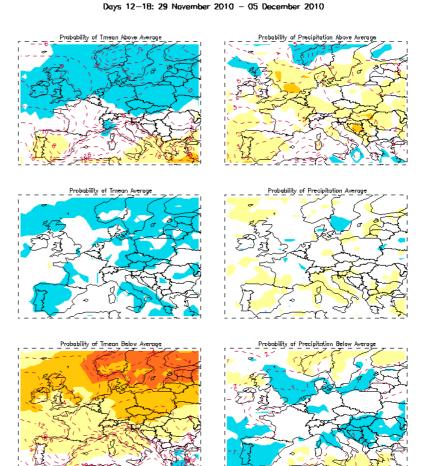
29 Nov - 5 Dec

The Monthly Outlook for Europe

The Monthly Outlook for Europe

Days 05-11: 22 November 2010 - 28 November 2010





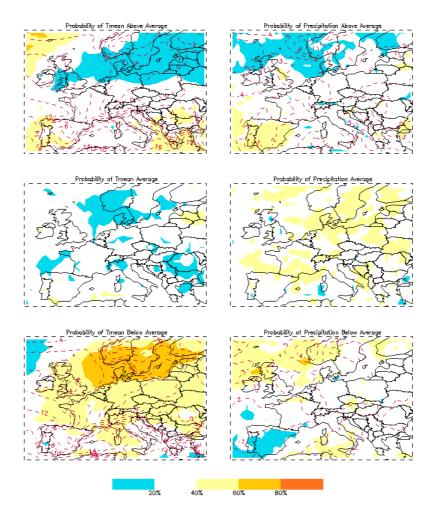


Europe T2m / precip terciles probabilities

6-19 Dec

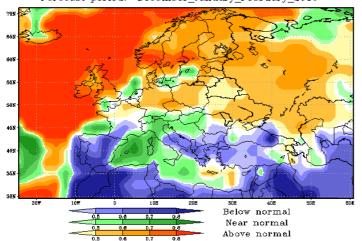
The Monthly Outlook for Europe

Days 19-32: 06 December 2010 - 19 December 2010

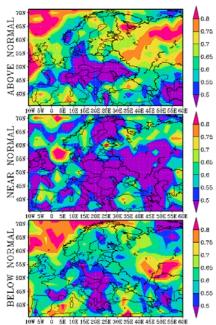


HMC

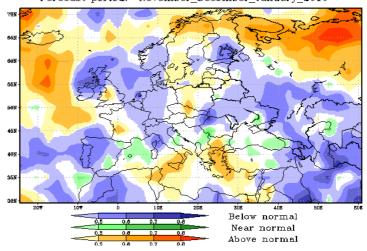
Composite probabilities of categorical forecast outcomes for T2m seasonal anomalies. Producer: HMC Forecast period: December_January_February_2010



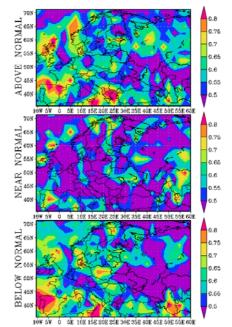
ROC score for T2m seasonal anomalies. Period: DJF (1979-2003). Lead time: 0



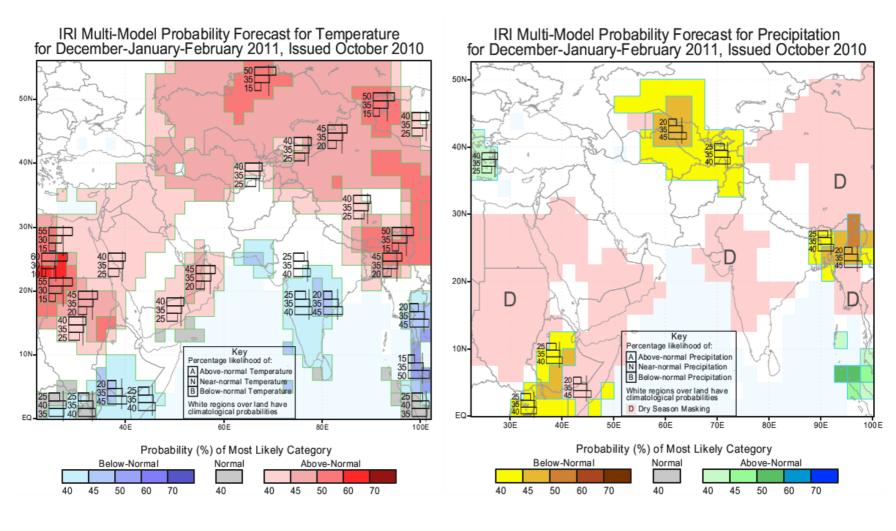
Composite probabilities of categorical forecast outcomes for Precipitation seasonal anomalies. Producer: HMC+MGO Forecast period: November_December_January_2010



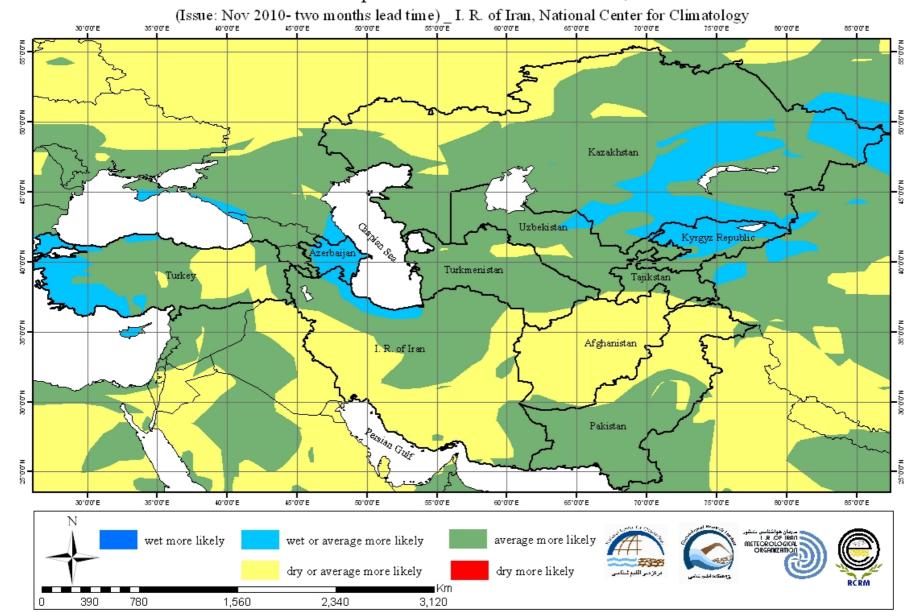
ROC score for Precipitation seasonal anomalies. Period: DJF (1979-2003). Lead time: 0



IRI (for Asia)



Mean Seasonal Precipitation Forecast for Dec 2010, Jan/Feb 2011





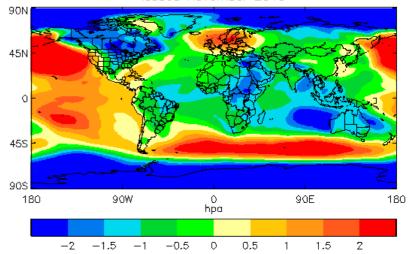
Longer lead-time



Sea-level pressure – ensemble mean

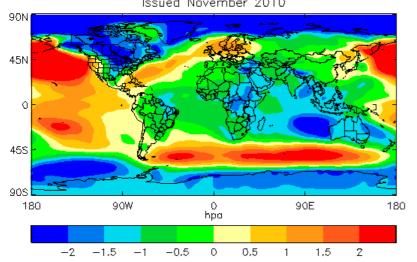
DJF

Ensemble mean anomaly : mean sea level pressure : Dec/Jan/FE Issued November 2010



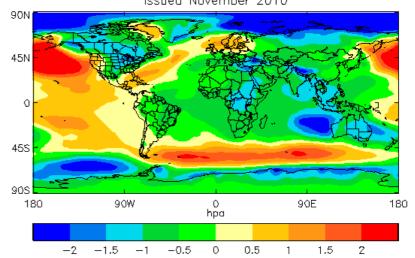
JFM

Ensemble mean anomaly : mean sea level pressure : Jan/Feb/Mc Issued November 2010



FMA

Ensemble mean anomaly : mean sea level pressure : Feb/Mar/A; Issued November 2010





Discussion



Consensus

Suggestion for presentation of forecast

