
**ENSEMBLES stream 1 seasonal simulations
1991-2000**

Nov start dates

precipitation

multi-model vs perturbed physics vs stochastic physics

(red- IFS/HOPE CASBS

blue – IFS/HOPE control)

23 February 2007

Model drift

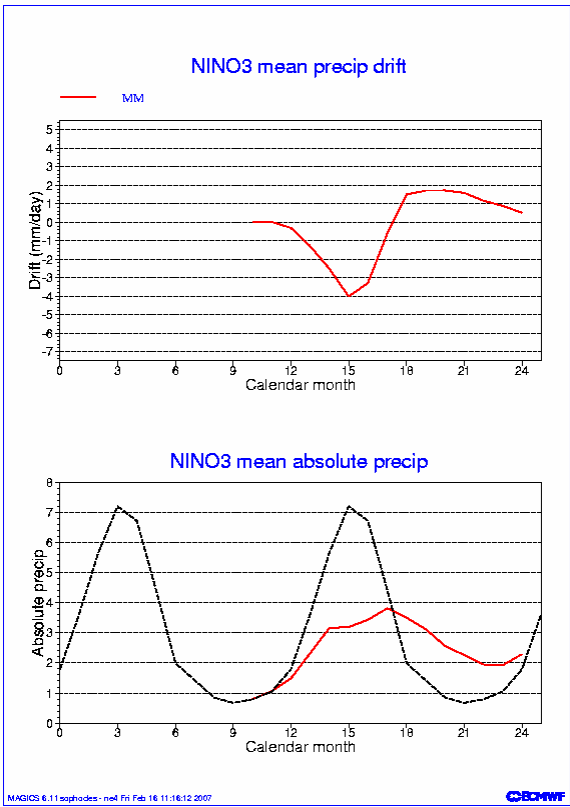
seasonal forecasts 1991-2001 Nov start dates: mean drift

precip Nino3

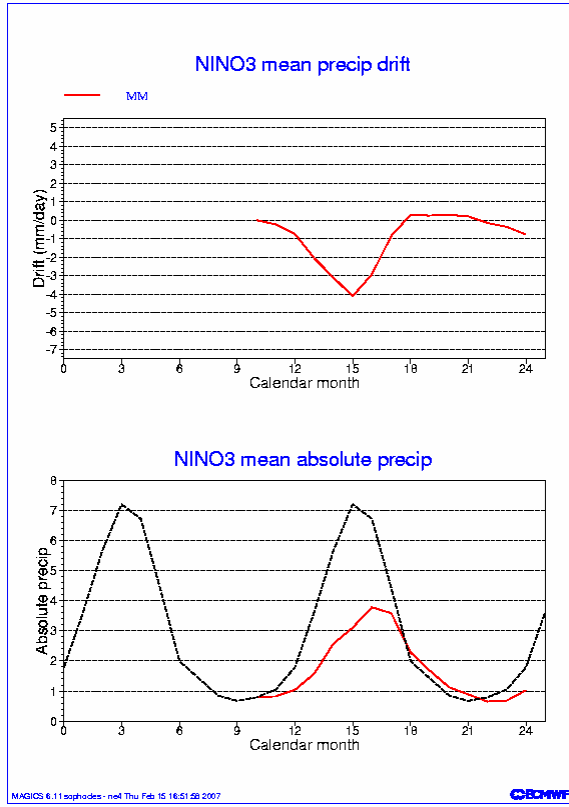
multi-model

perturbed physics

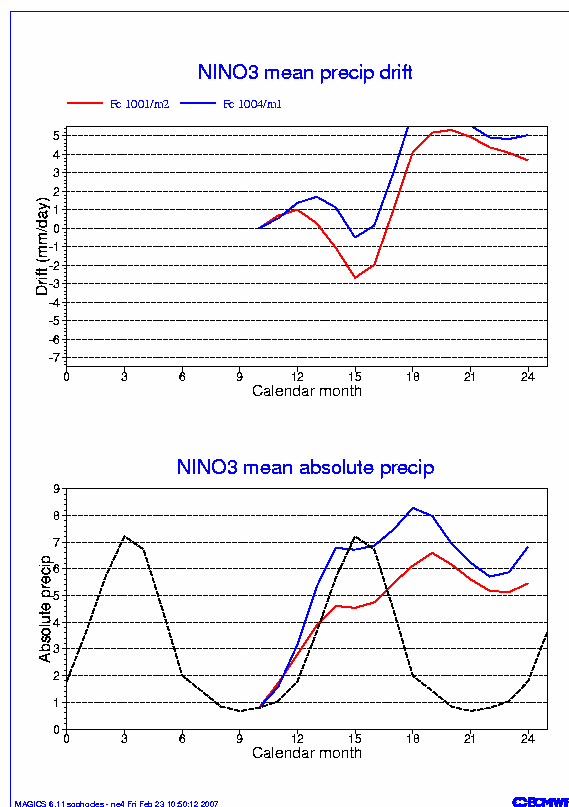
stochastic physics



5 models à 9 members
= 45 members



9 models à 1 members
= 9 members



1 model à 9 members
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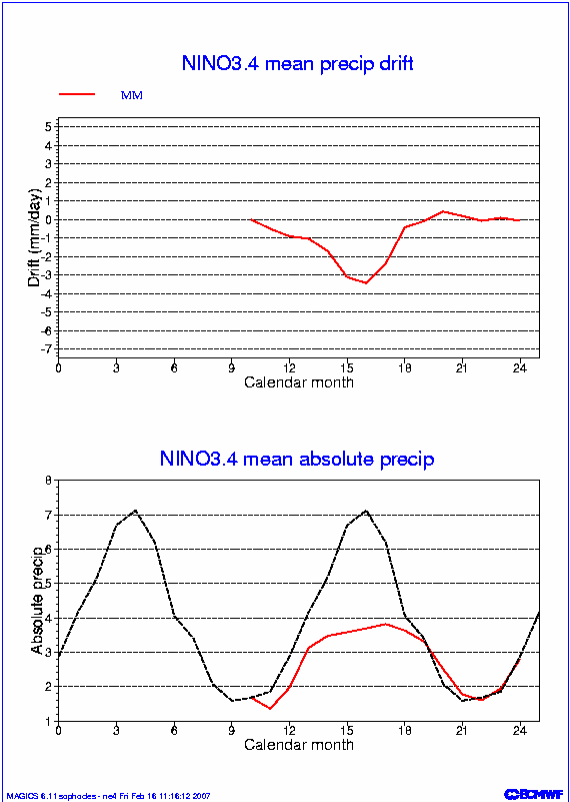
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precip Nino3.4

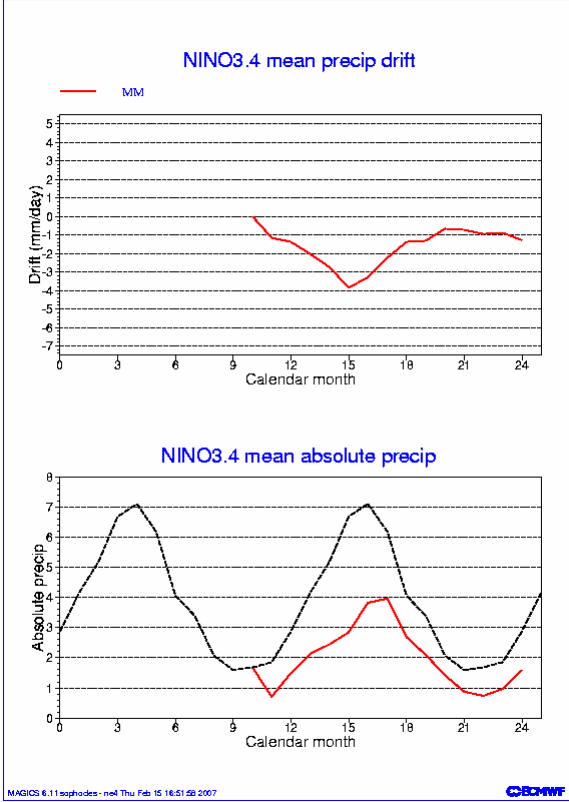
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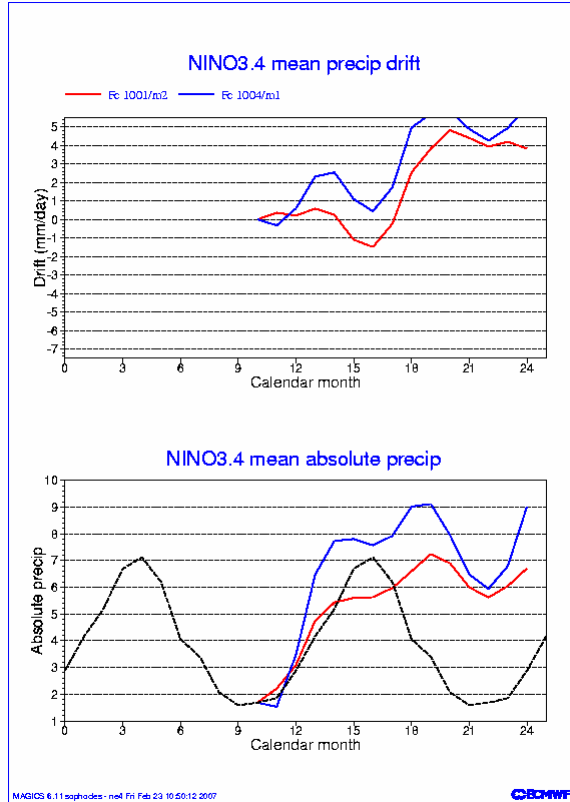
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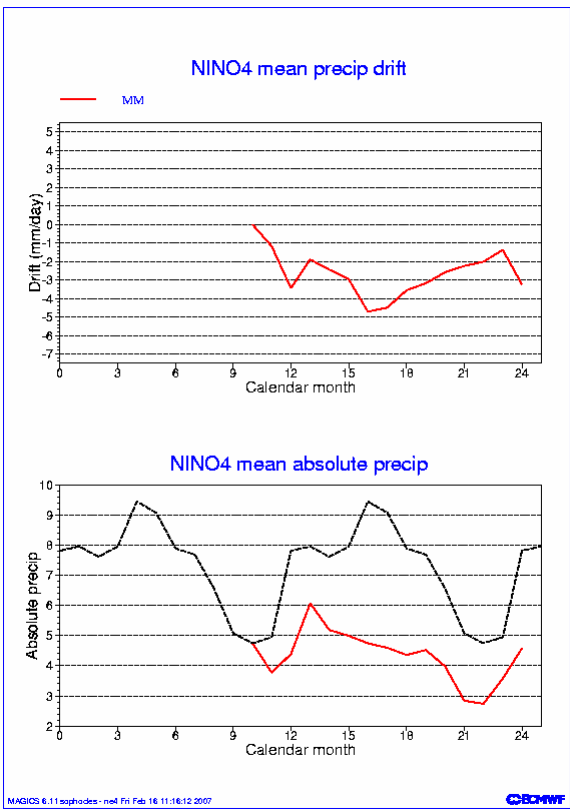
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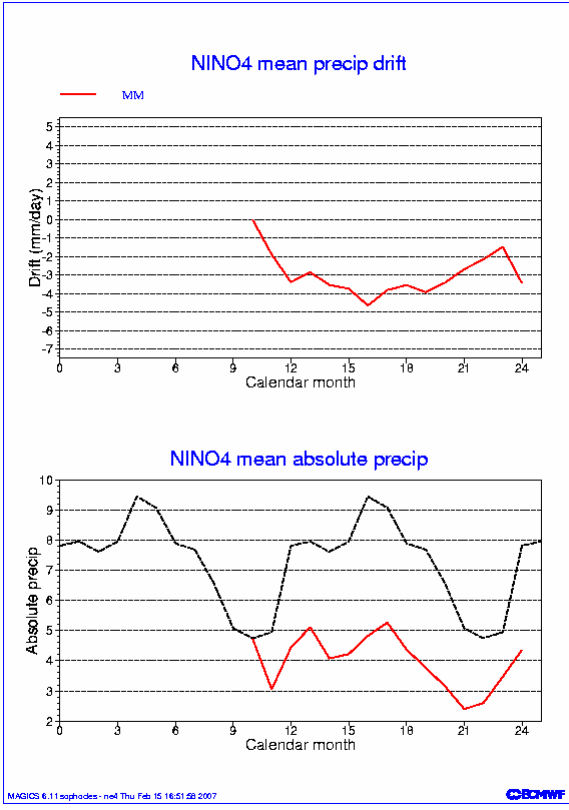
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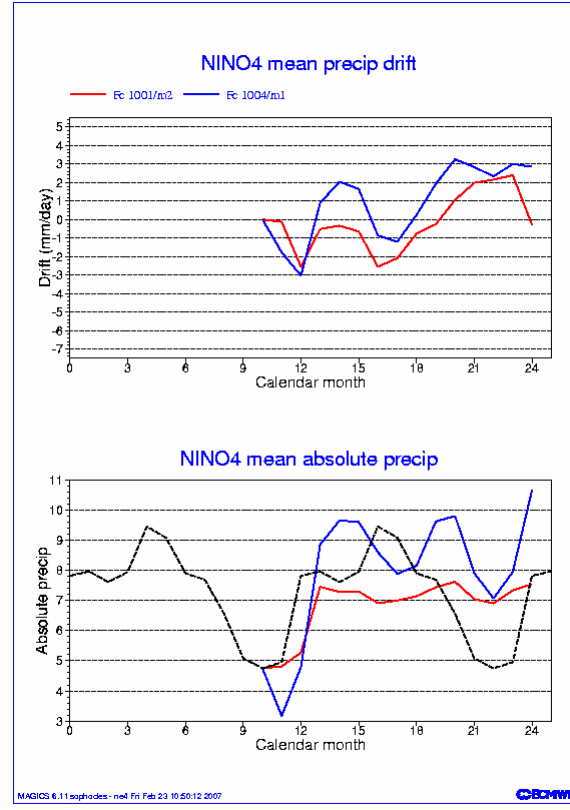
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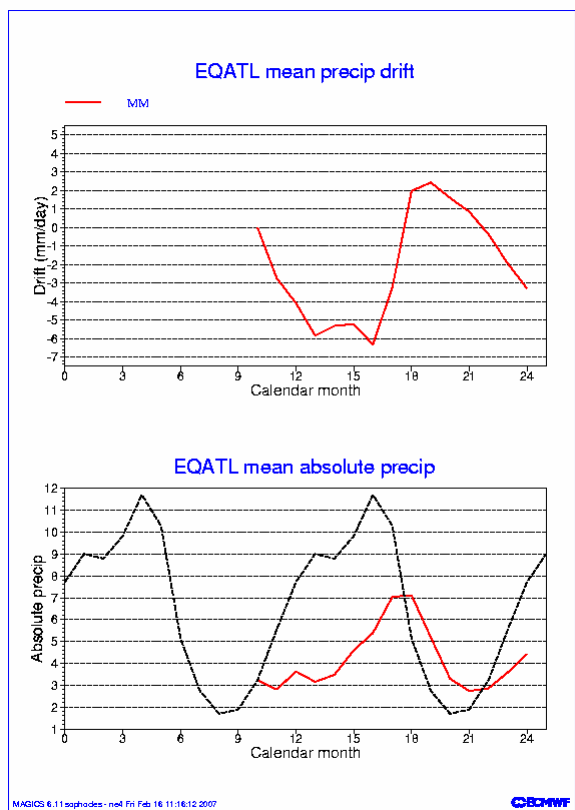
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precip eq. Atlantic

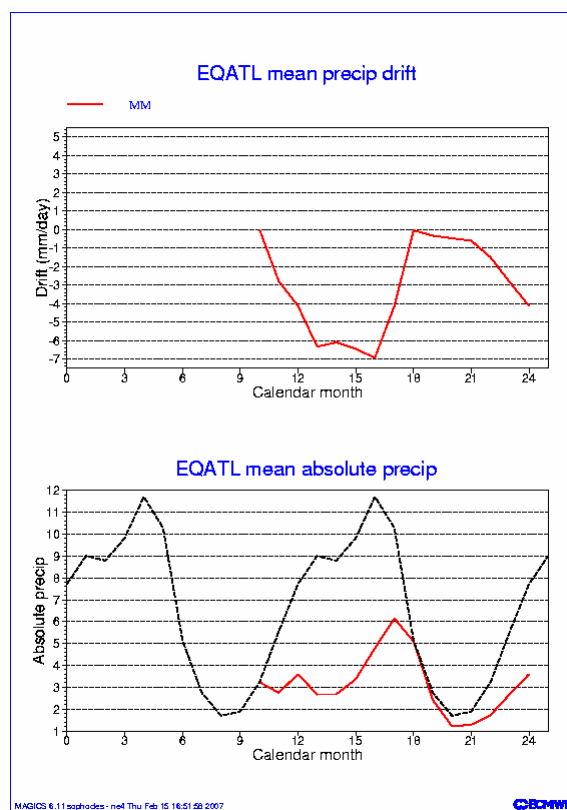
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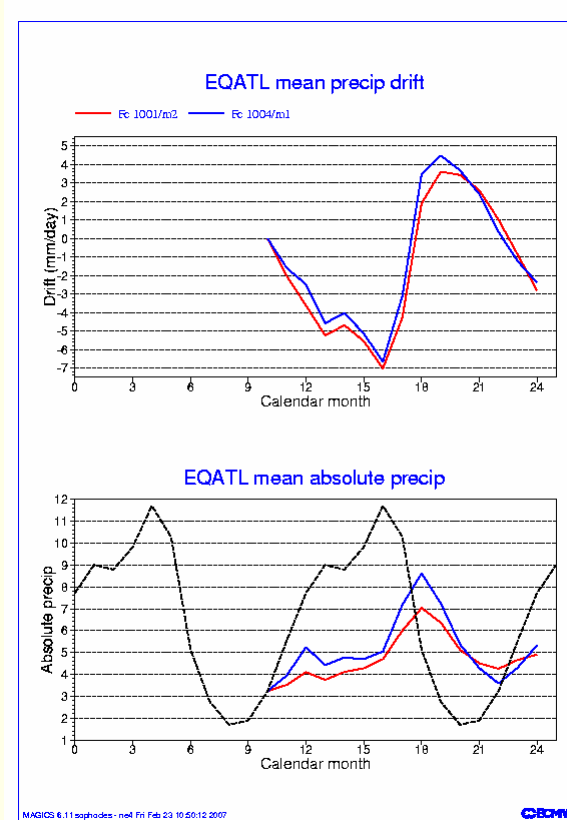
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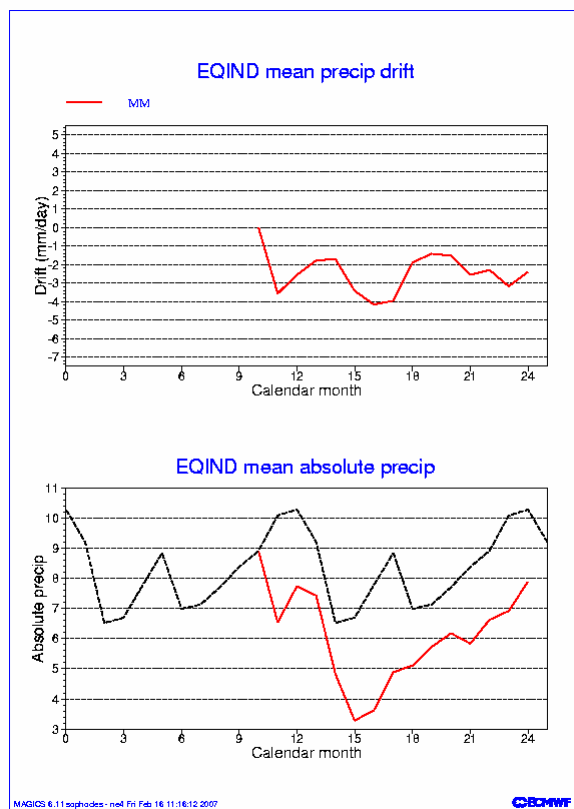
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precip eq. Indian

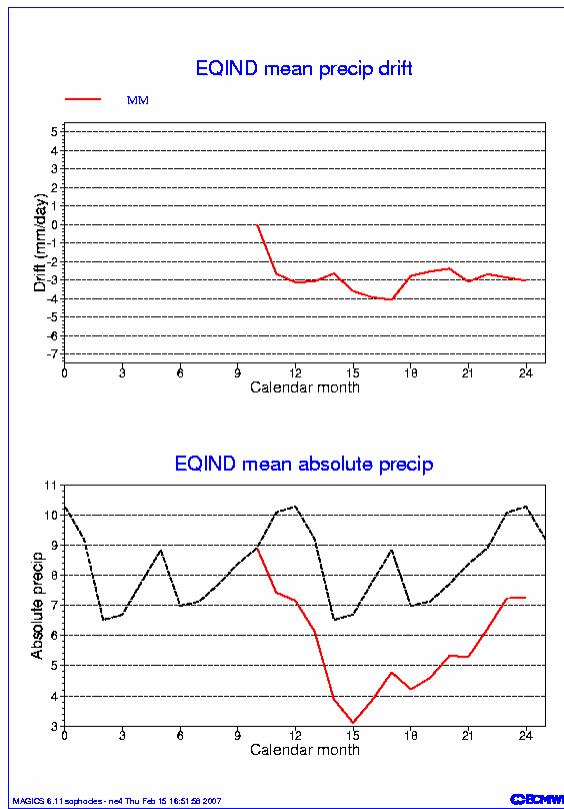
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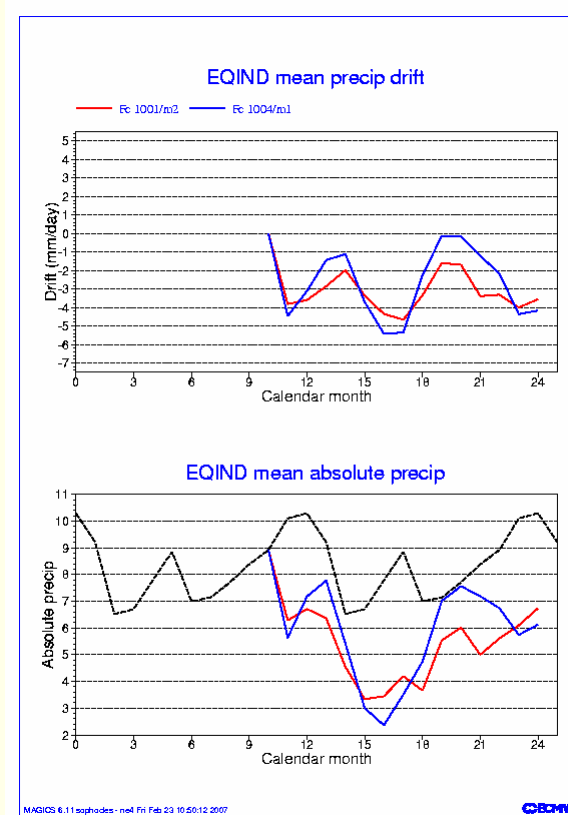
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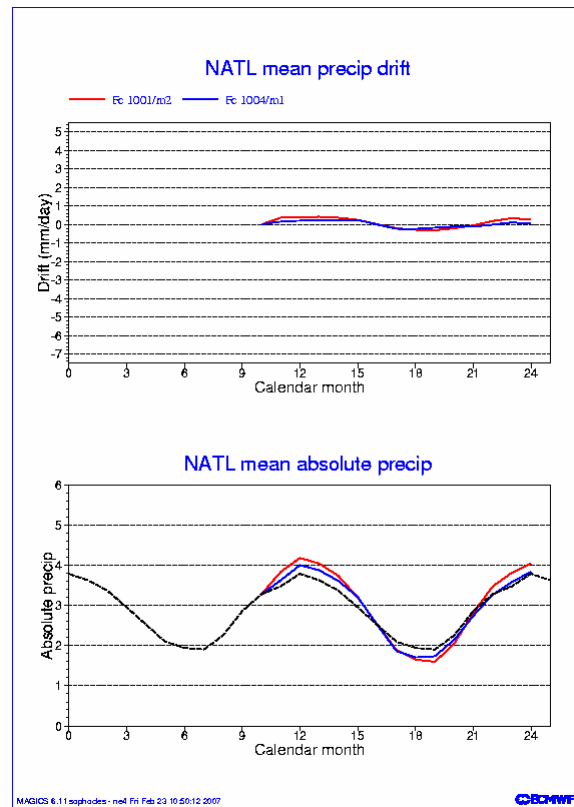
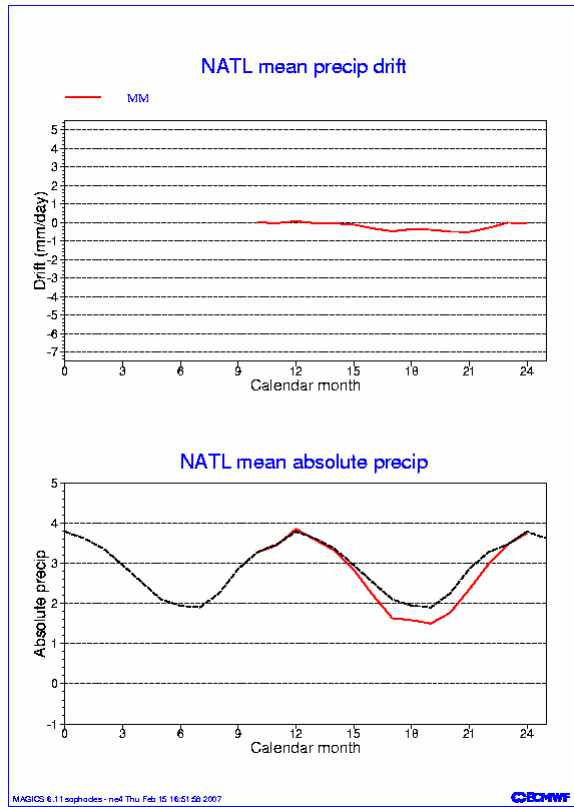
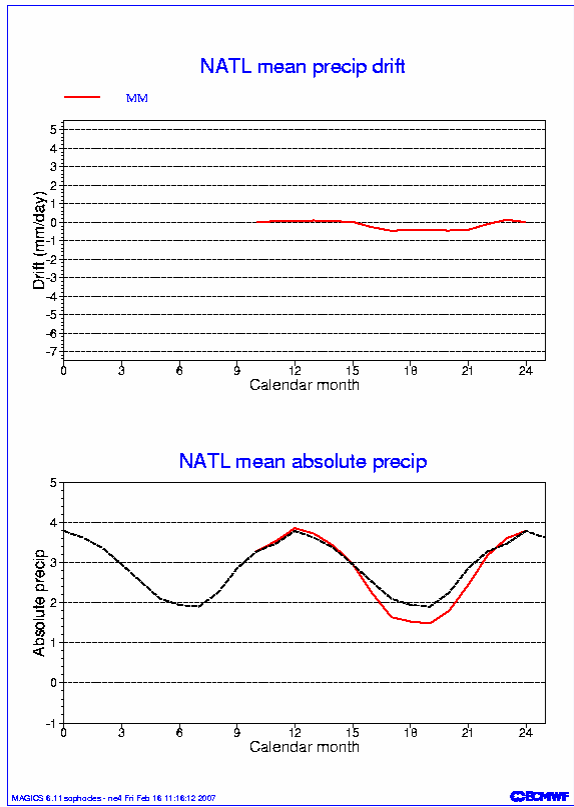
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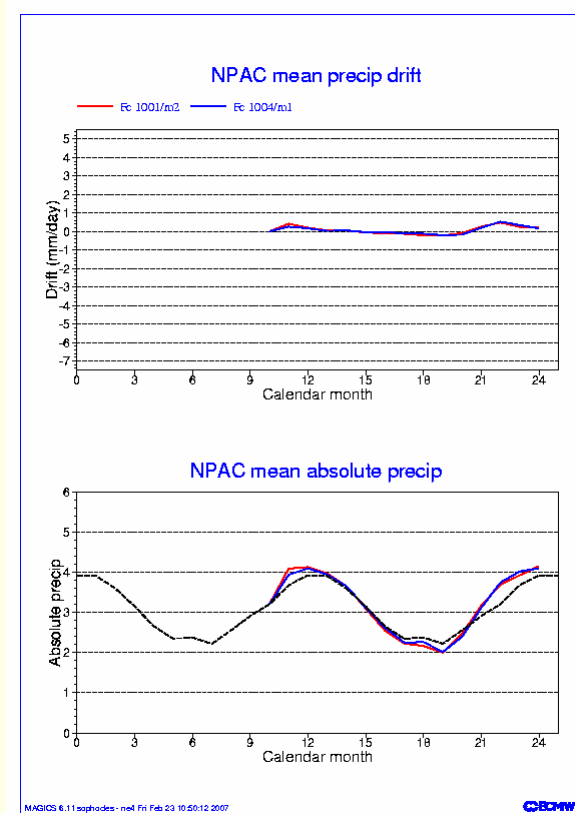
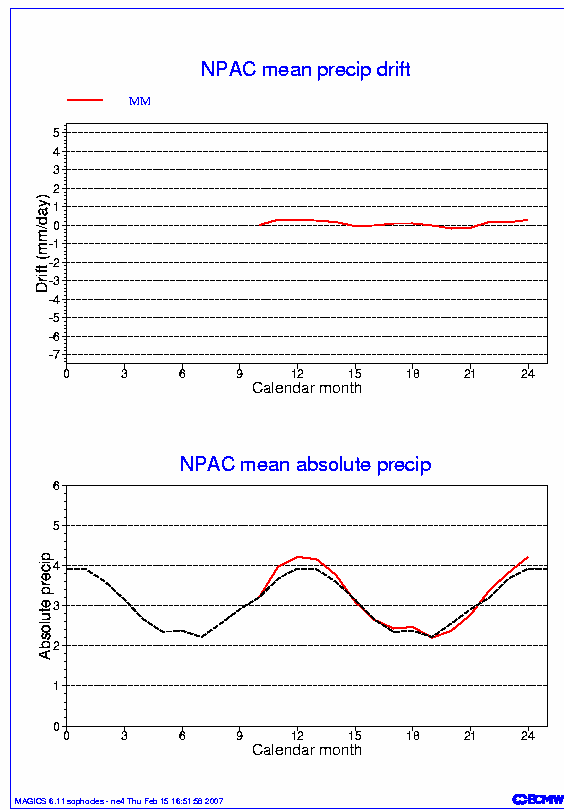
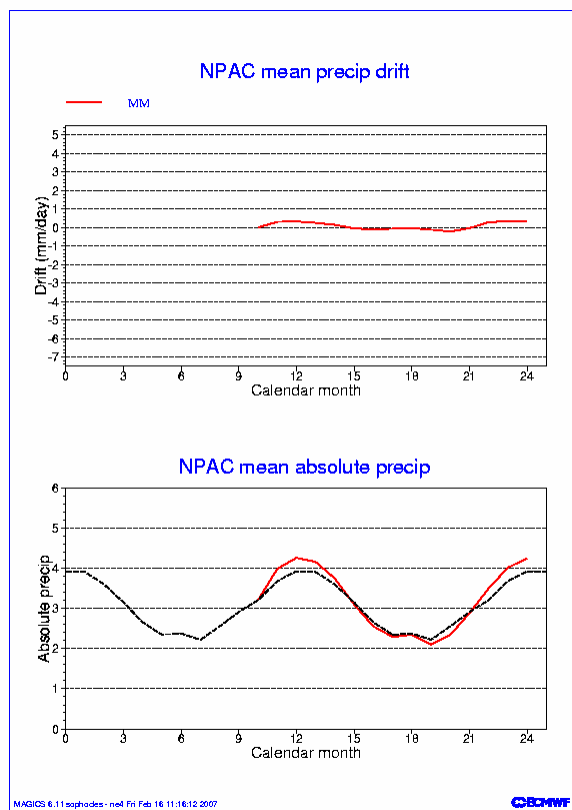
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RMSE & ensemble spread and Anomaly correlation



RMSE



ensemble st.dev



RMSE of persistence

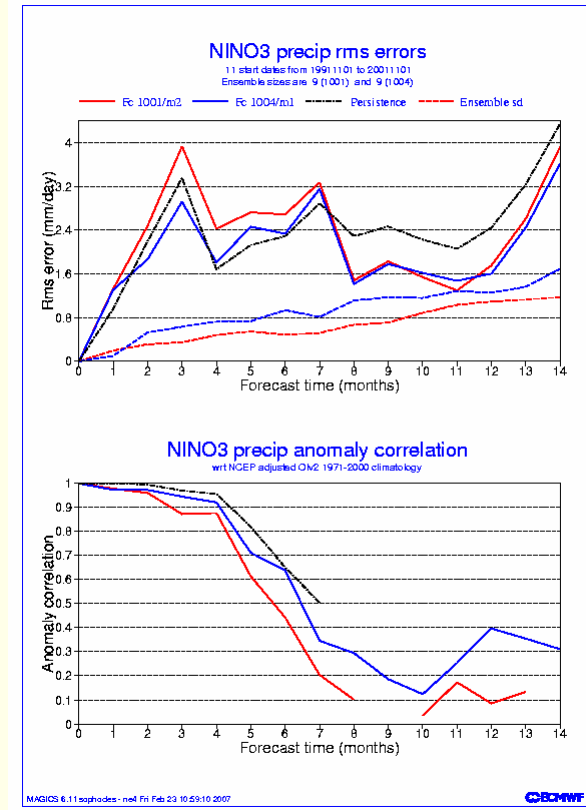
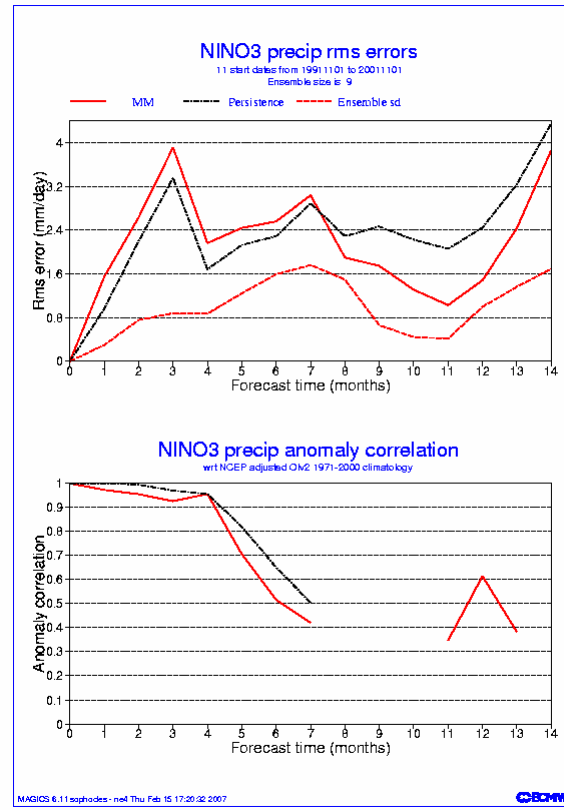
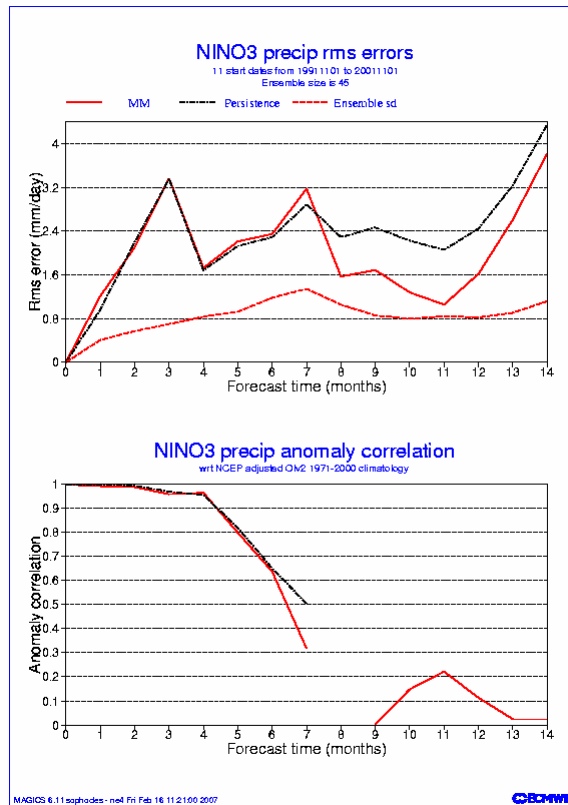
seasonal forecasts 1991-2001 Nov start dates: RMSE & spread and ACC

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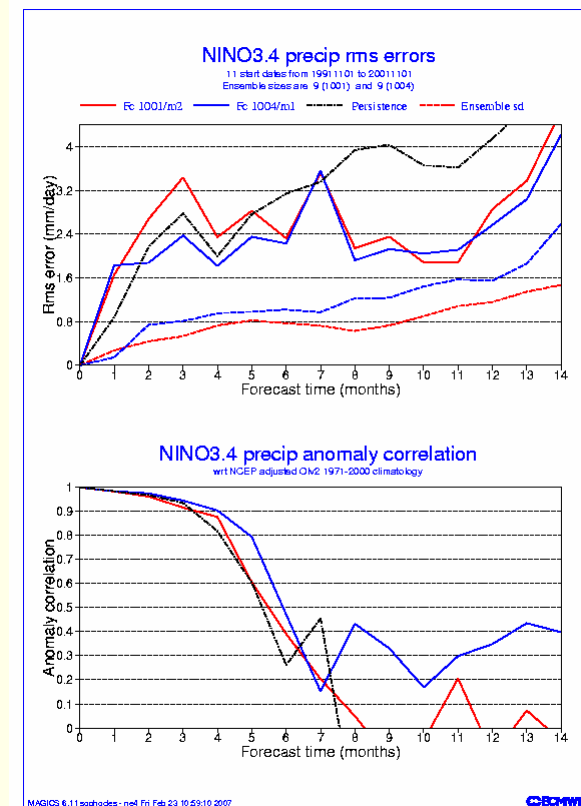
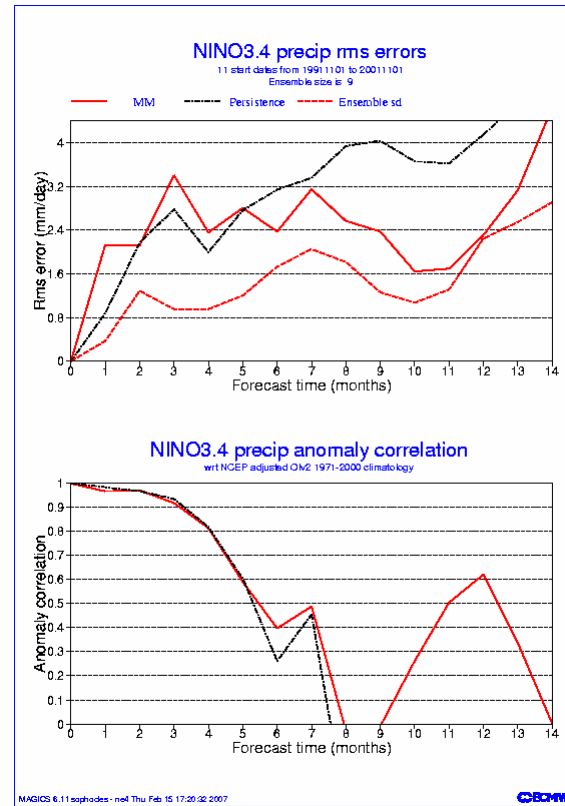
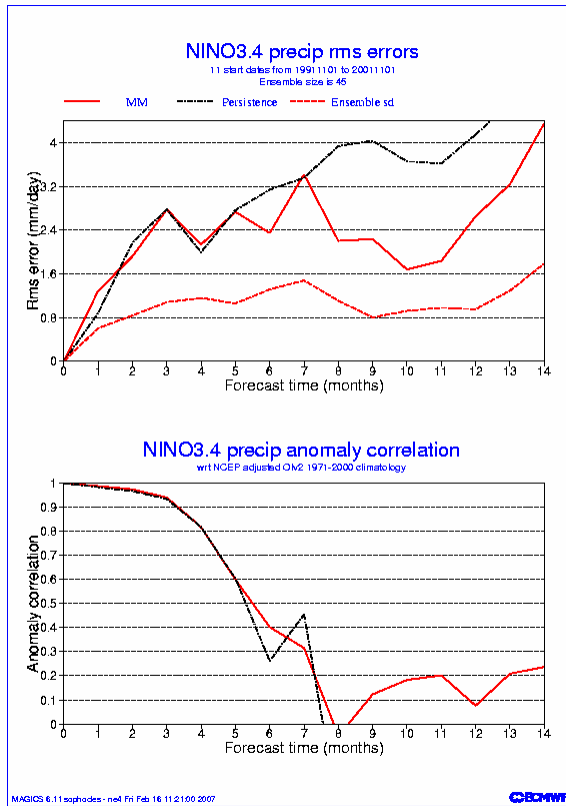
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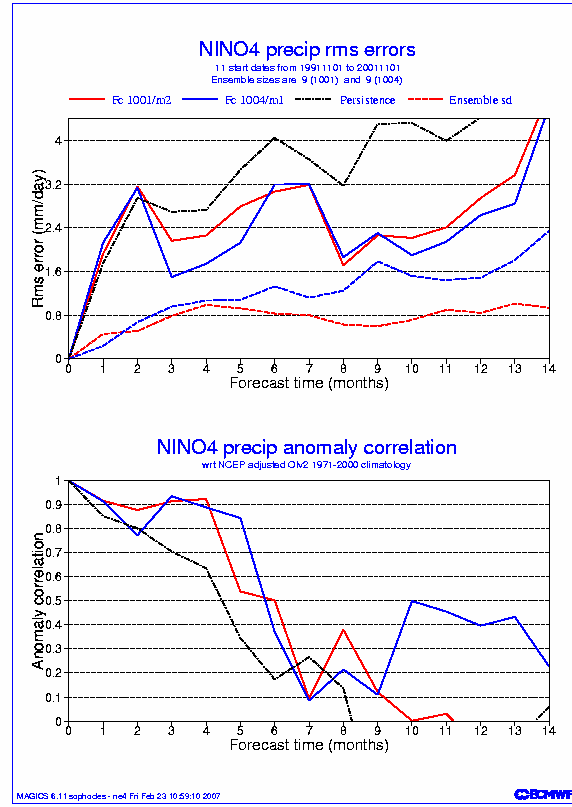
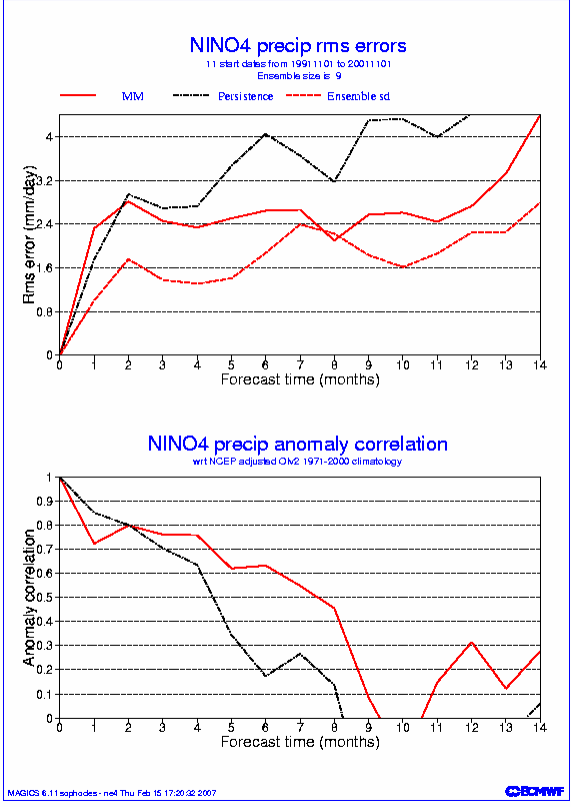
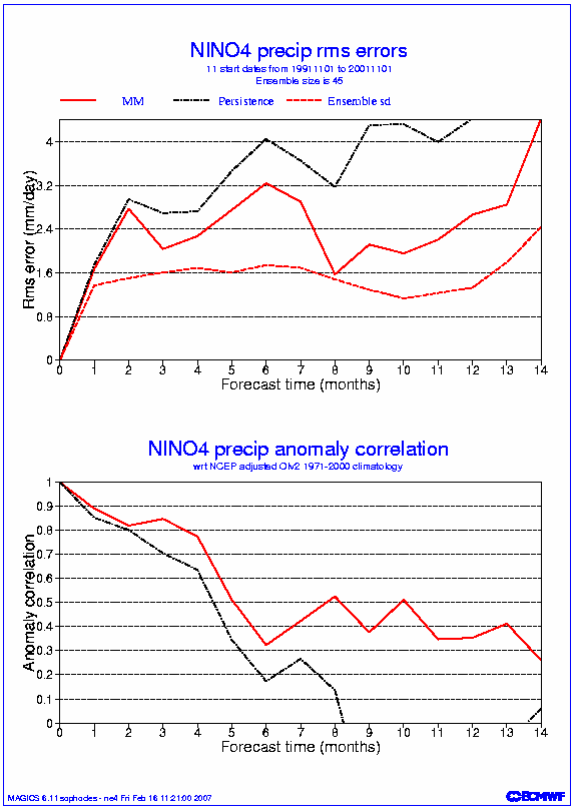
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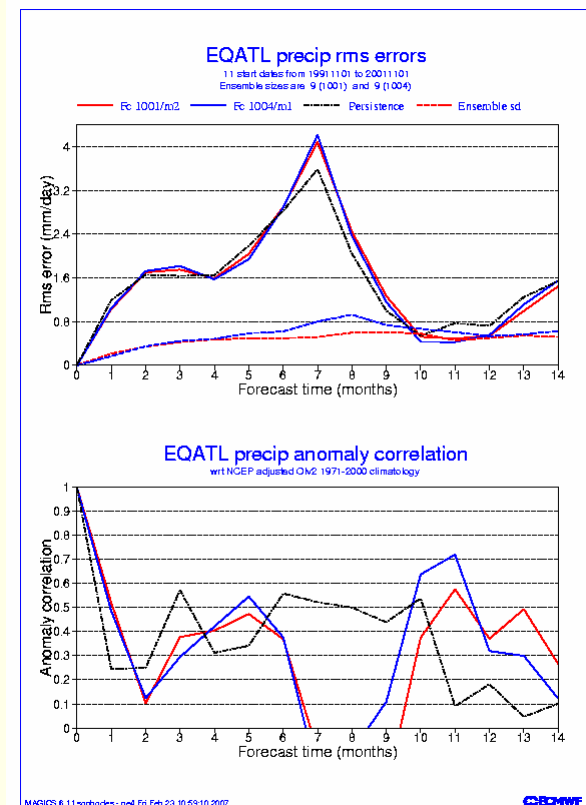
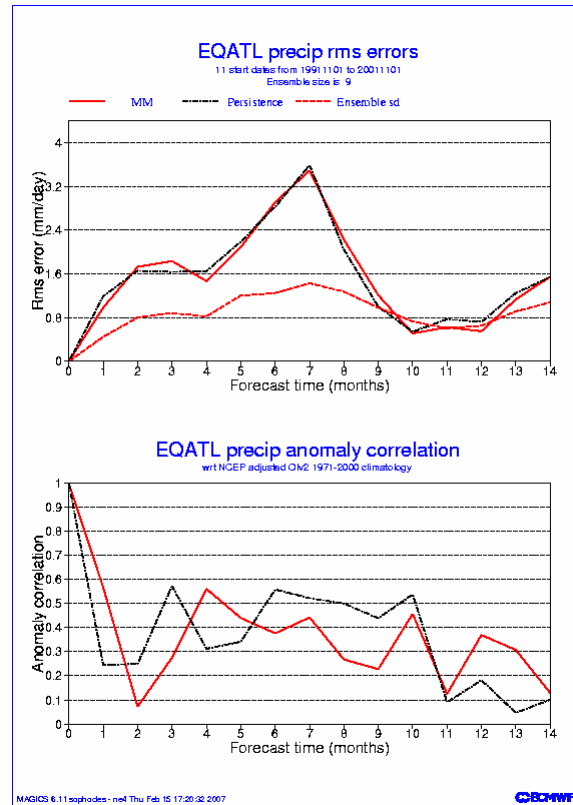
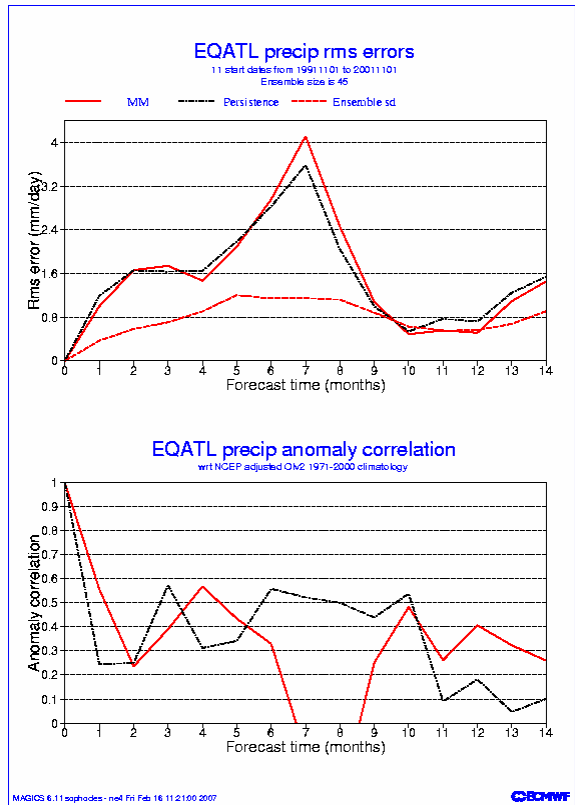
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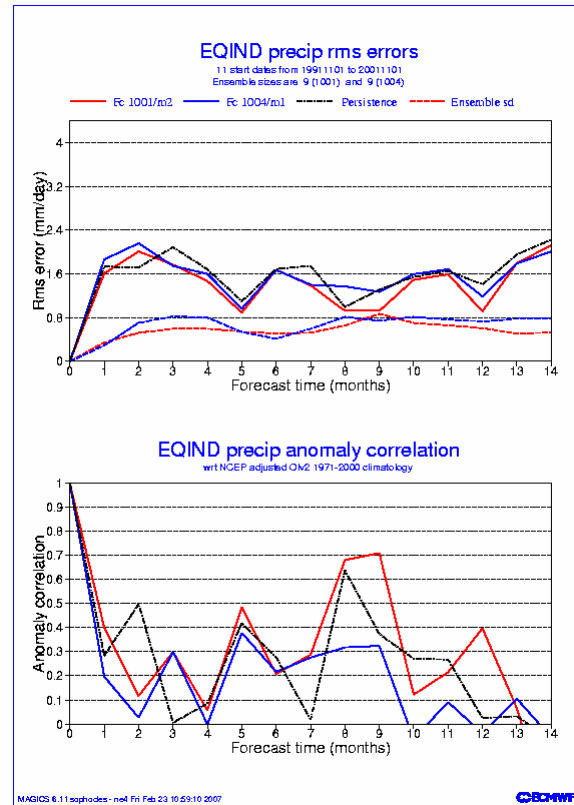
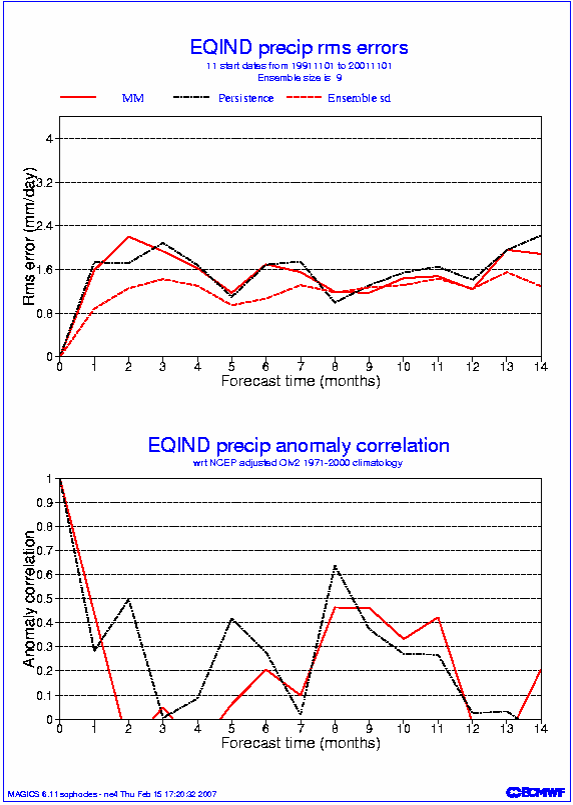
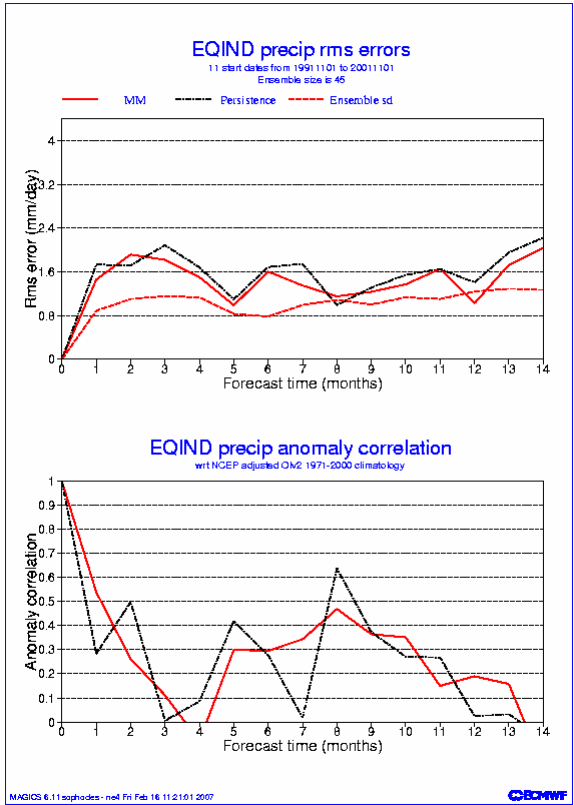
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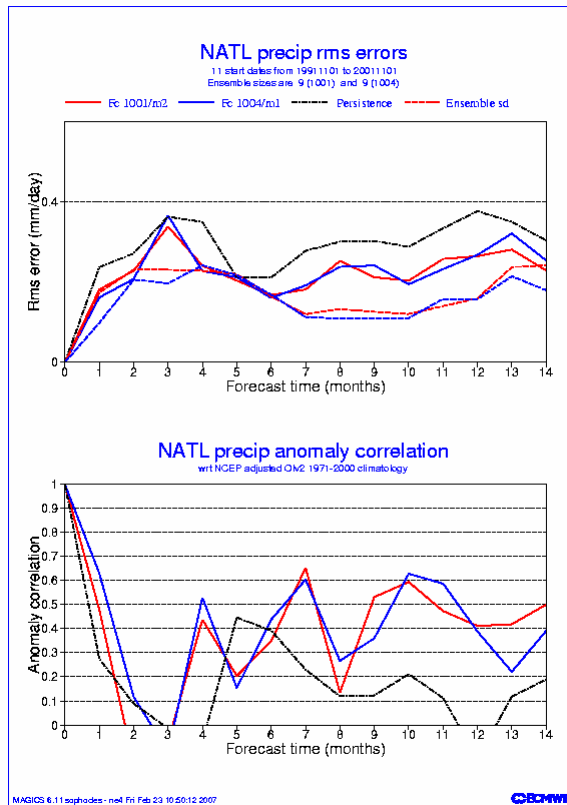
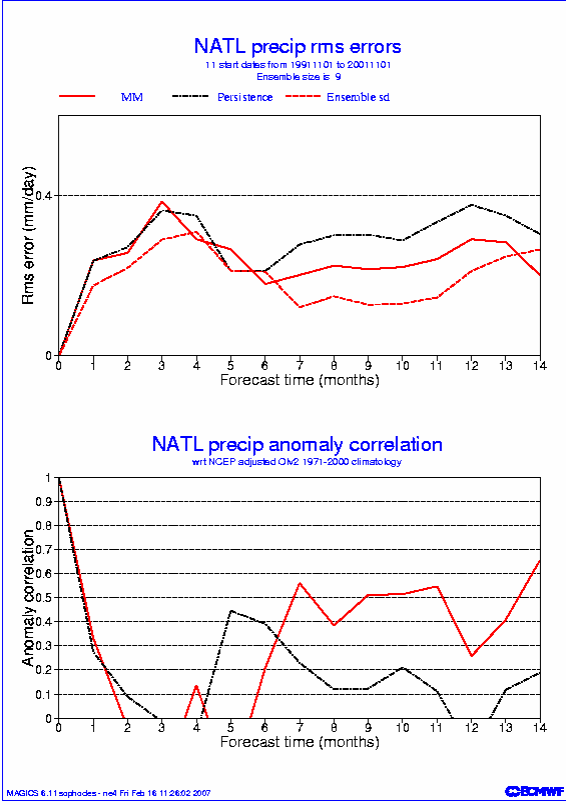
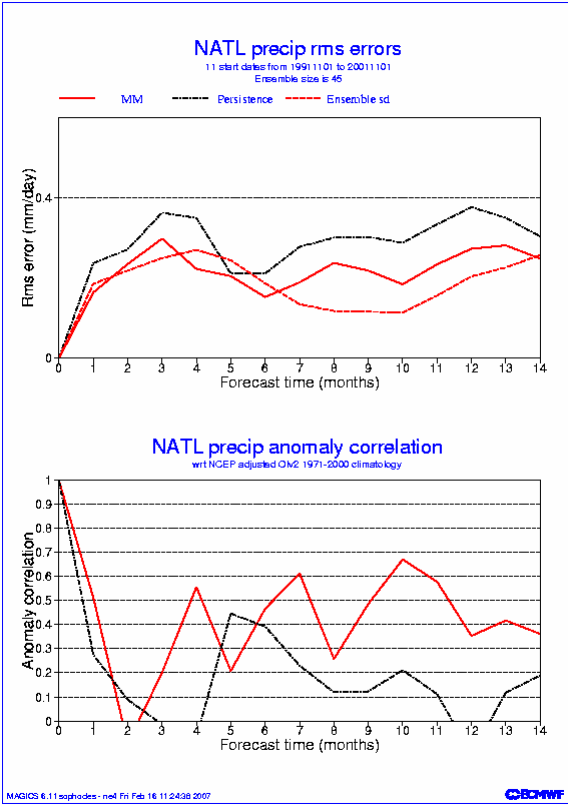
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