Résultats très préliminaires du nouveau système CNRM-CM5 en préparation a l'AR5

Il faut lire : « ca tourne »

Collaboration Météo-France/Cerfacs
MISSTERRE – Mai 2009

Le modèle CNRM-CM5 (beta)

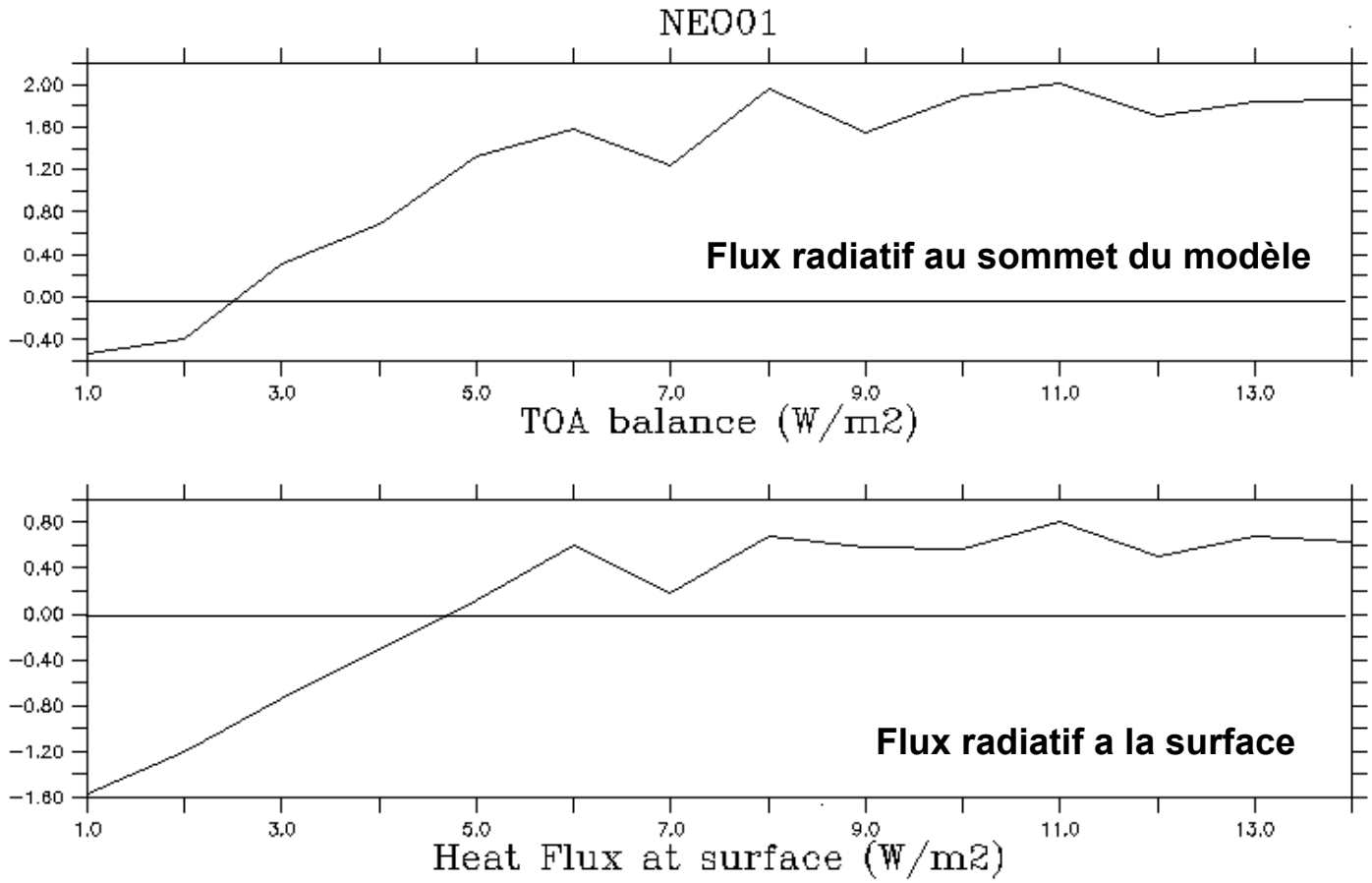
Atm: ARPEGEv5.1
Océan: NEMOv3-conf-ORCA1
Glace: LIM2 (a remplacer par GELATOv5)
Sol: ISBA

Machine: SX9 Météo-France

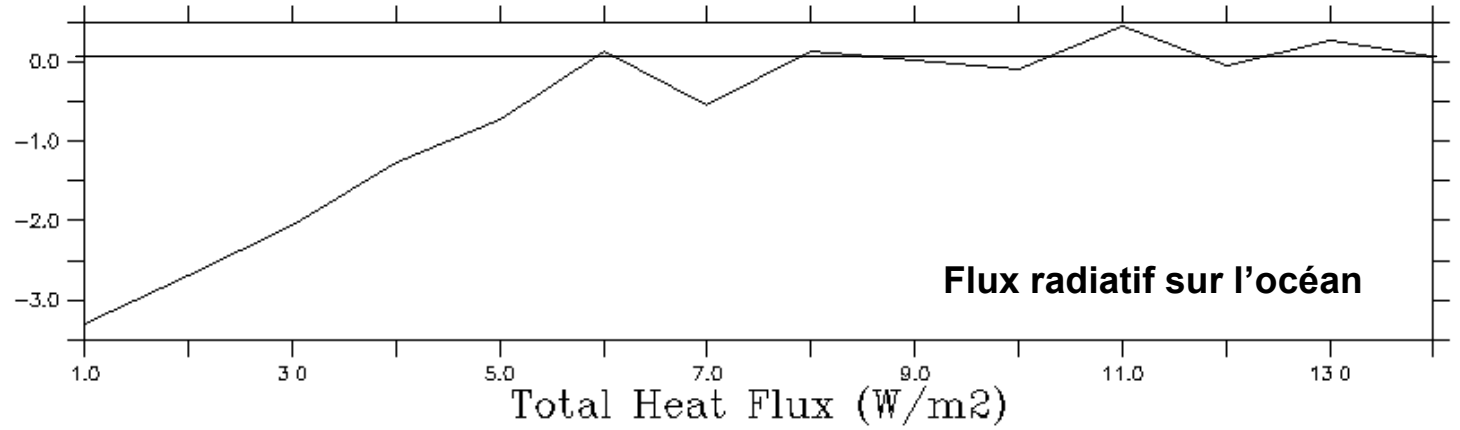
20 ans de simulations

Le but: Mise en évidence des biais régionaux majeurs (très probablement indépendants du tuning final: namelist de couplage etc.)

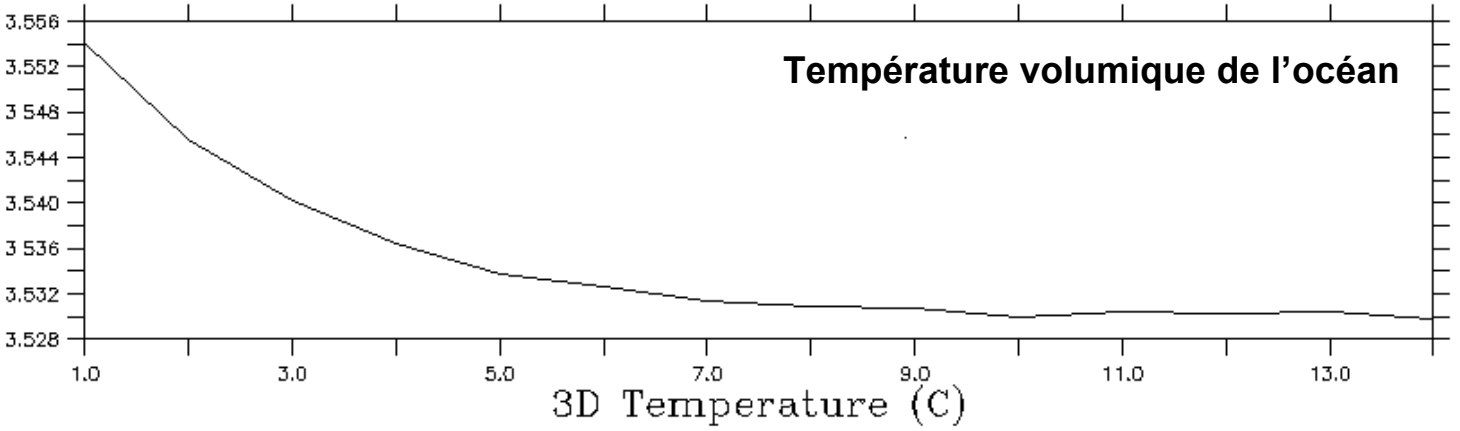
Bilan des flux (TOA et surface)



Sur l'océan….



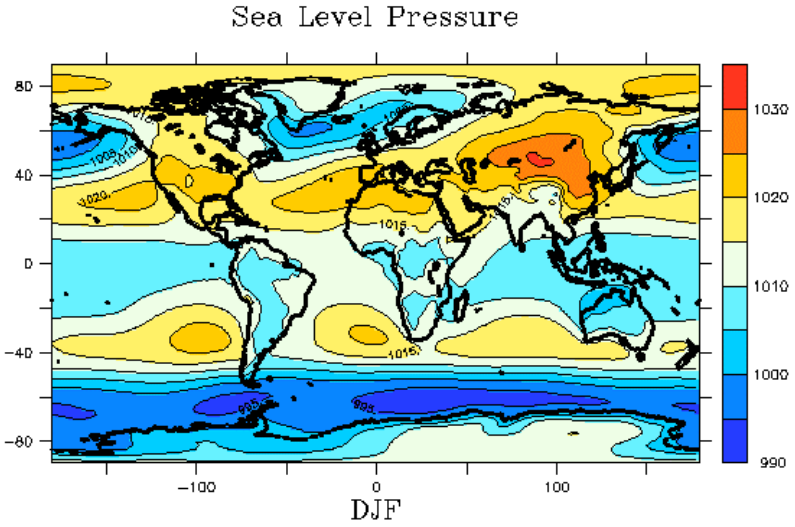
Flux radiatif sur l'océan



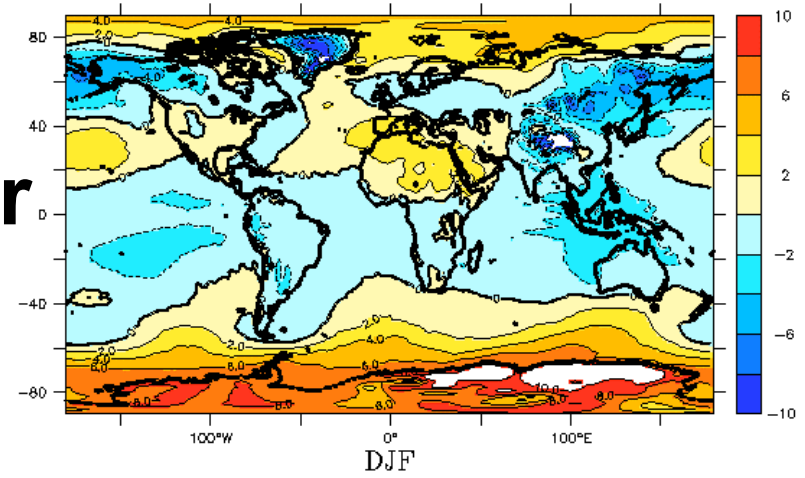
Température volumique de l'océan

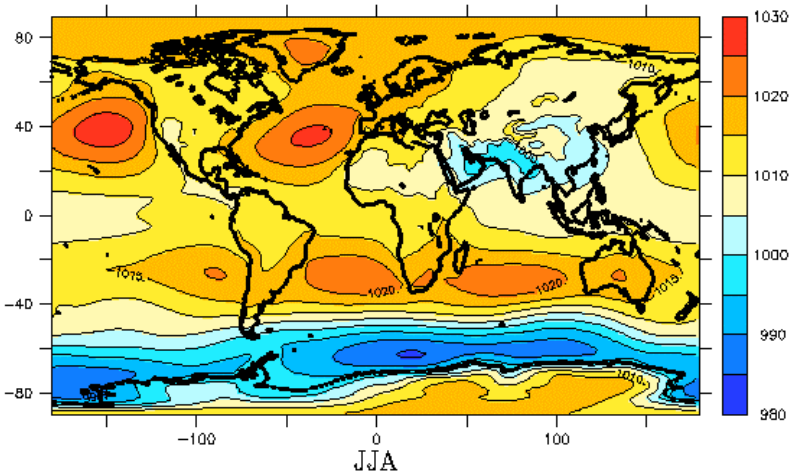
Pression de surface

Différence entre climatologie CNRM-CM5 et NCEP

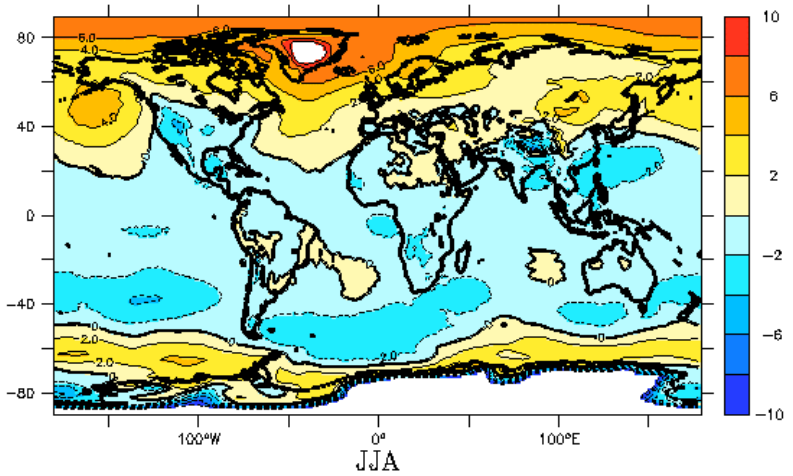


Hiver



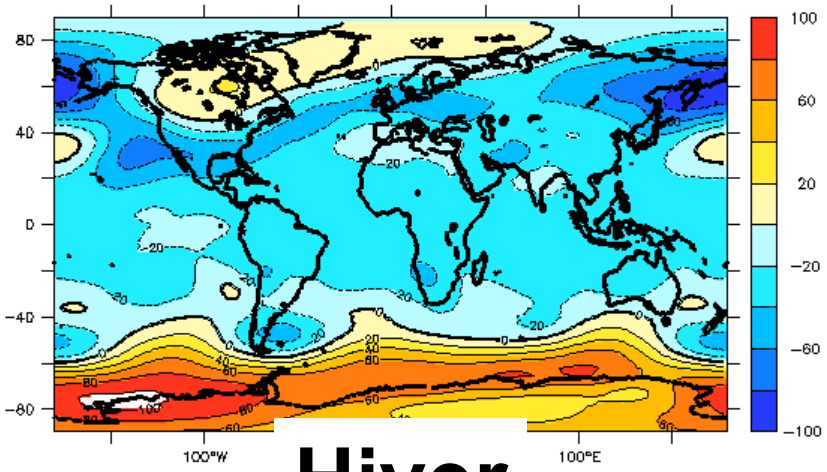


Été



Z500

Différence entre climatologie CNRM-CM5 et NCEP



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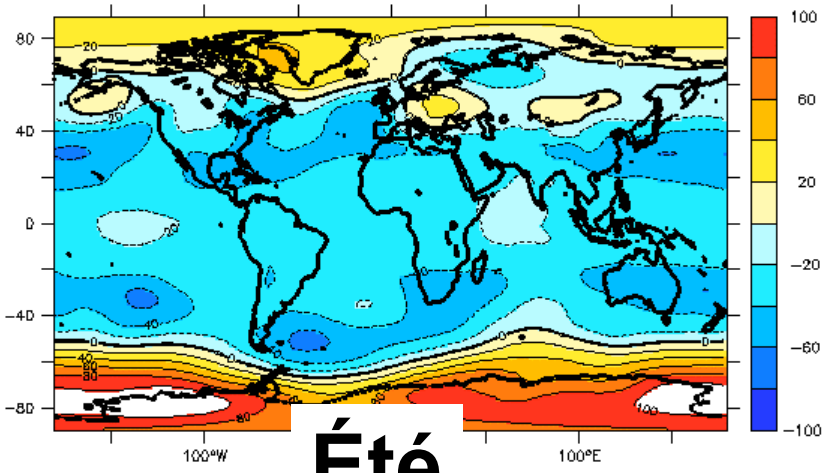
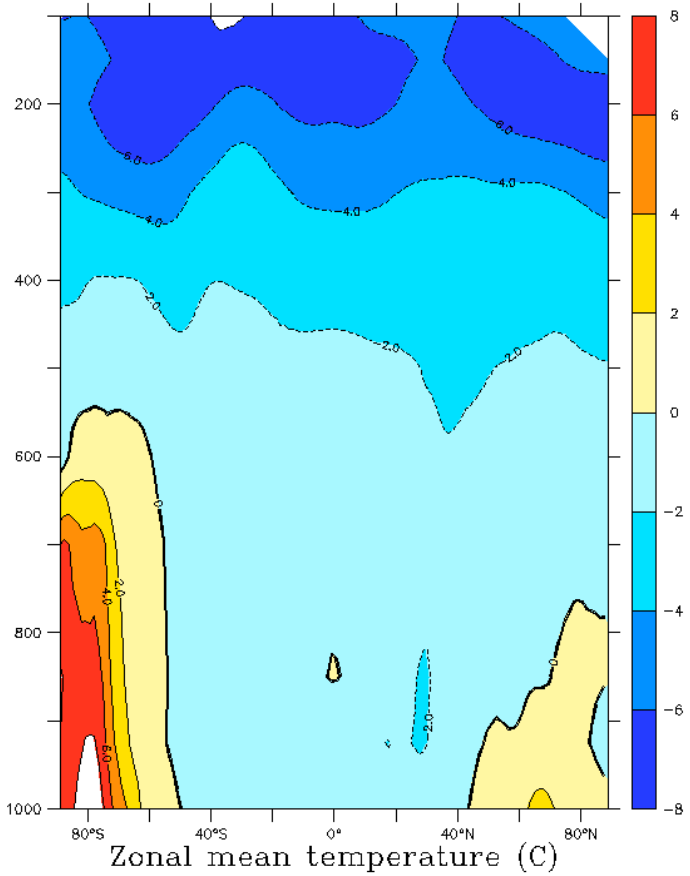


Été

Température Zonale

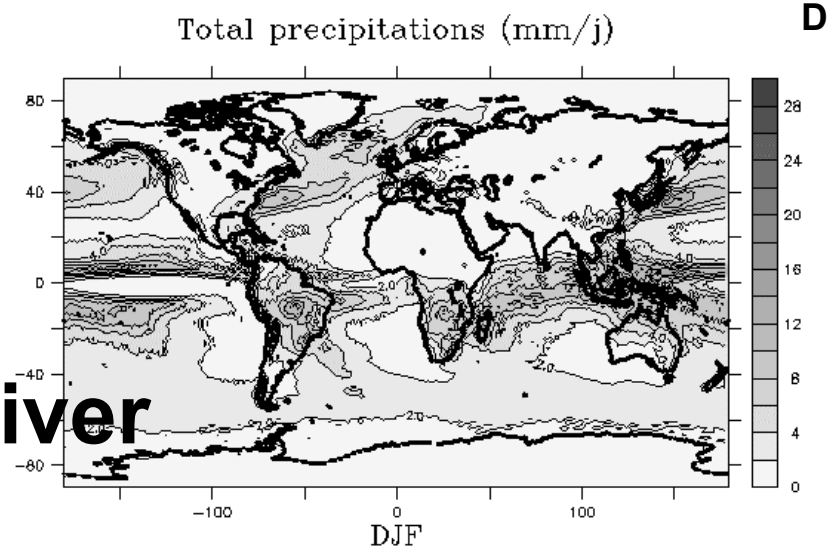
Différence entre climatologie CNRM-CM5 et NCEP

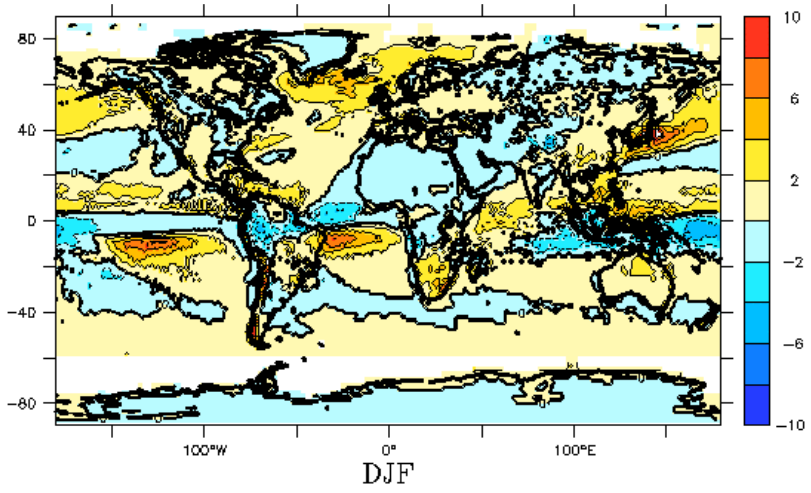


Précipitation

Différence entre climatologie CNRM-CM5 et CMAP

Hiver





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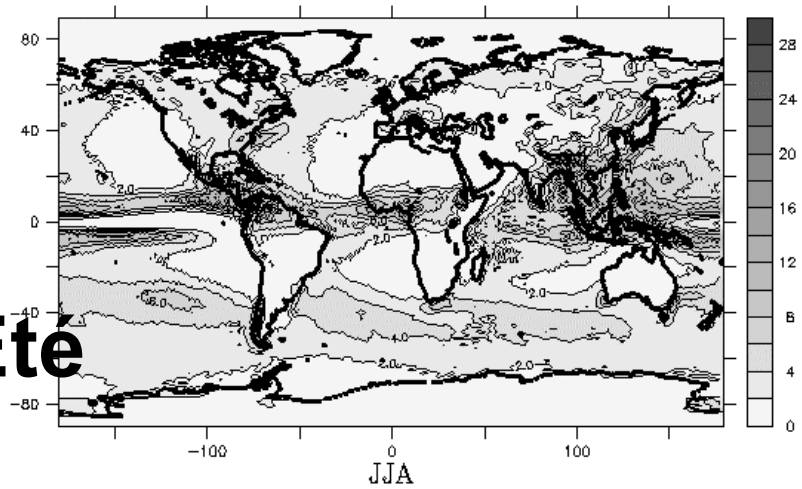
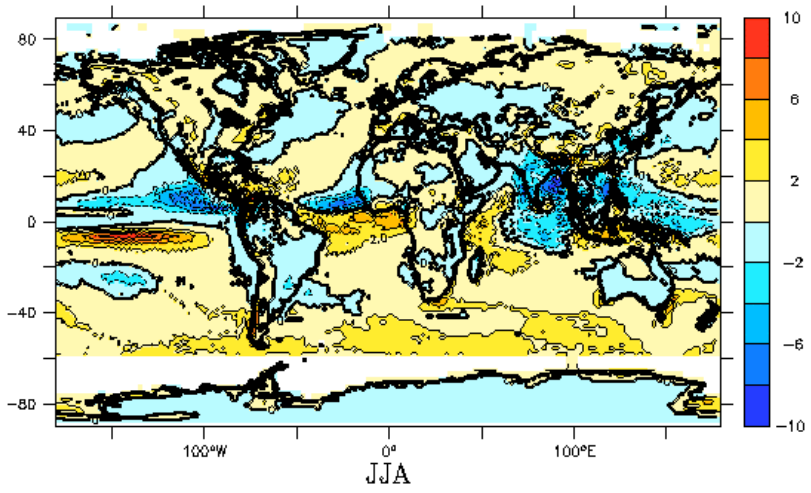




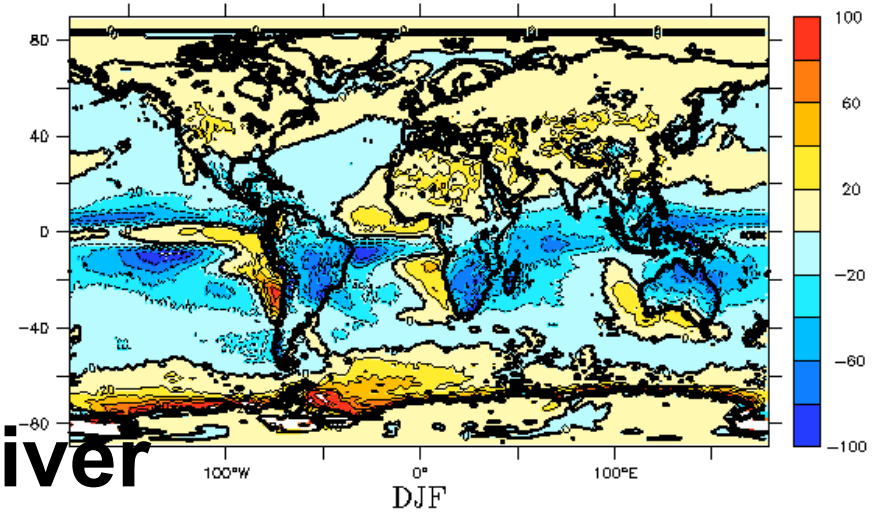
Flux radiatifs a la surface

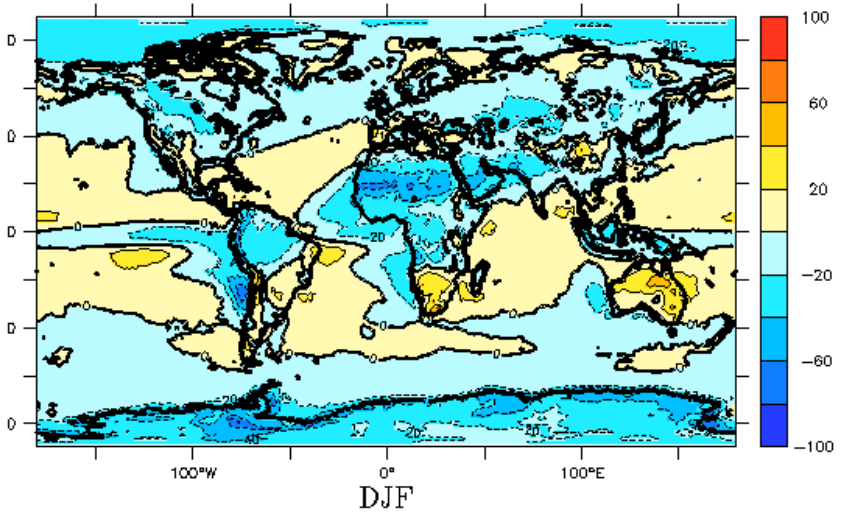
Différence entre climatologie CNRM-CM5 et ISCPP

Shortwave radiation

Longwave radiation

Hiver





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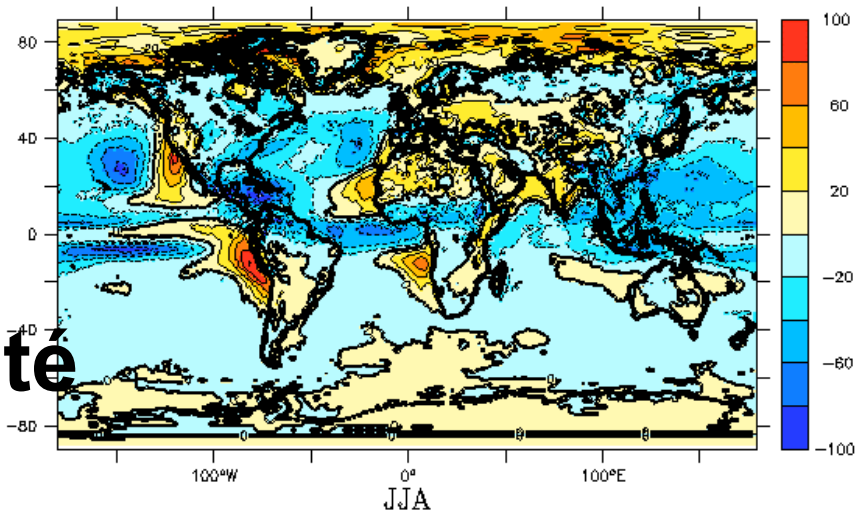
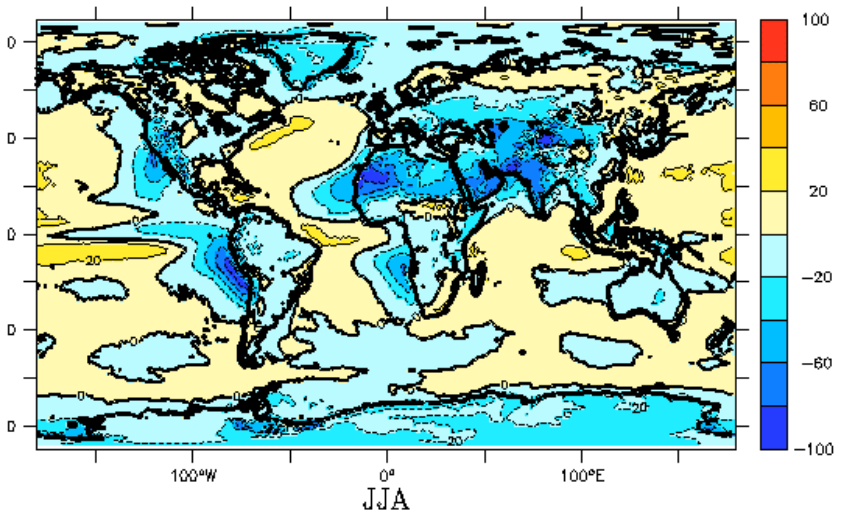




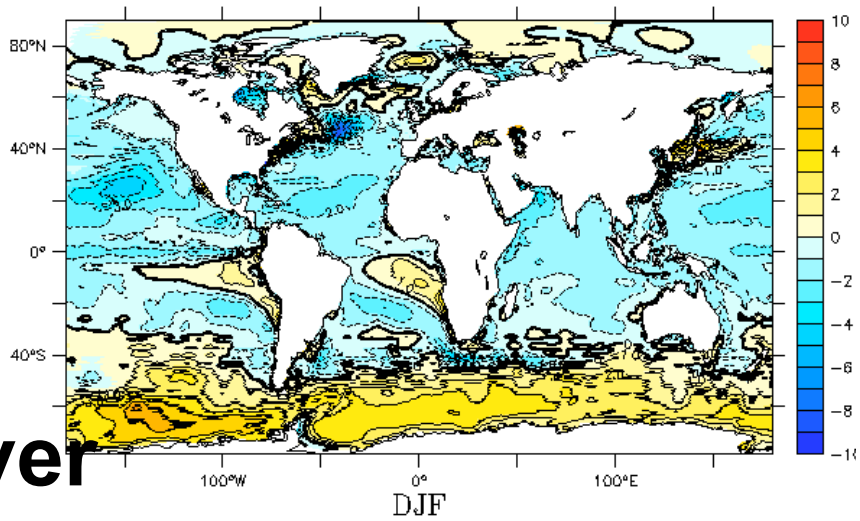
Température de surface

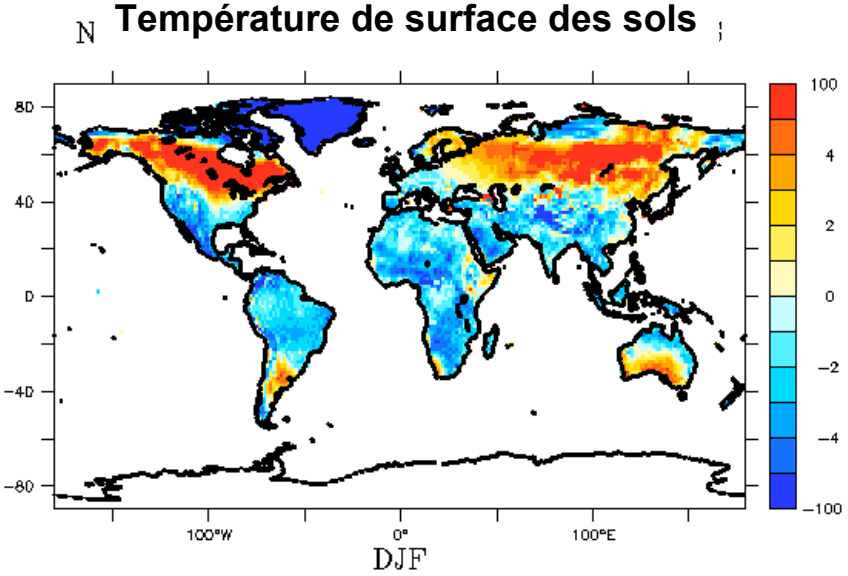
Différence entre climatologie CNRM-CM5 et HadISST/CRU

Température océanique

Température de surface des sols

Hiver





Été