Draft Agenda

- Assimilation:
  - N. Mathieu:
- Forecast
  - N. Mathieu:2005 AMMA dry-run exercise
- Diagnostics
  - PM Ruti: AMMA diagnostics
  - F. Guichard: Transect example
- Strategy for modelling improvement
  - F. Guichard: Eurocs experience
- Surface Modelling
  - A. Boone – P DeRosnay: LSM intercomparison
- Data base

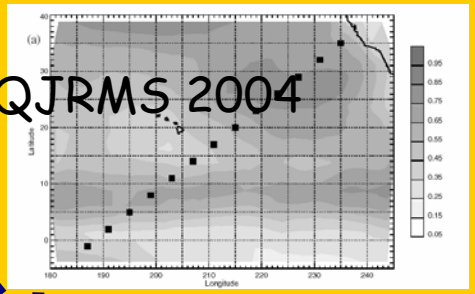
WAM dynamics: intercomparison project

- Transect
- 2D horiz. domain
- AEW and Prec diagnostics

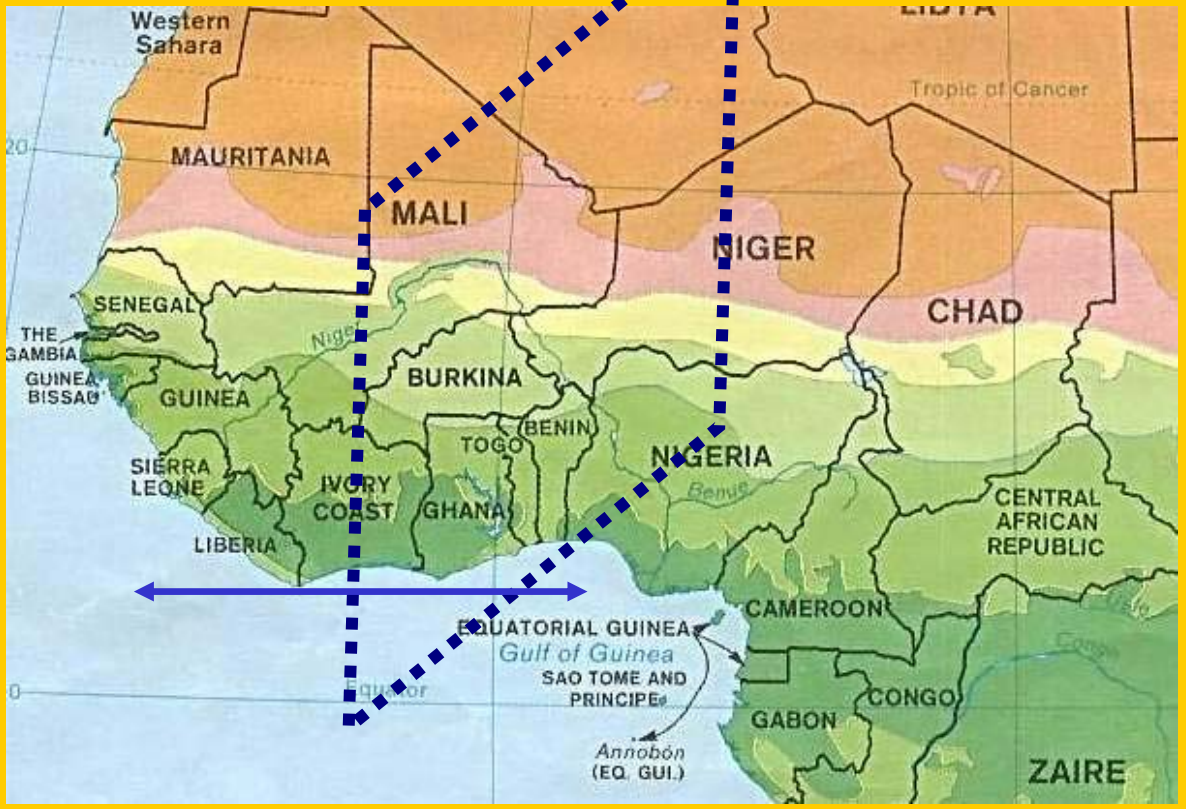
- **http://amma-mip.lmd.jussieu.fr**

4.1.2-3 Transect intercomparison

Following Siebesman et al., QJRMS 2004



Transect definition:
20°S - 40°N
Zonal aver. 10°W-10°E



4.1.2-3 Transect intercomparison

Main data

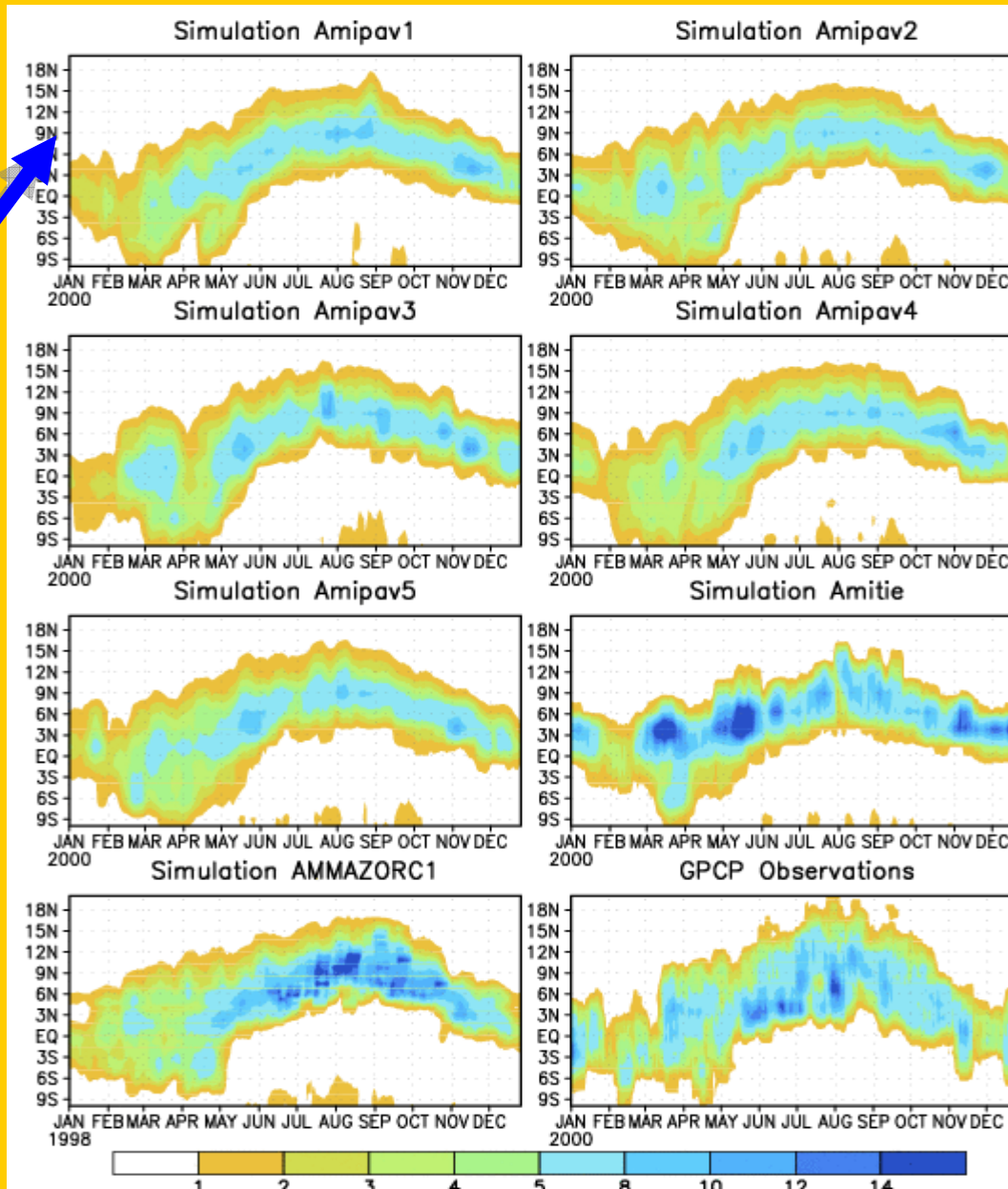
Description	short name
Temperature	ta
Zonal wind	ua
Meridional wind	va
Specific Humidity	hus
Cloud Fraction	cl

Description	short name
Sea level pressure	psl
Precipitation	pr
Minimum daily surface air temperature	tasmin
Maximum daily surface air temperature	tasmax
Surface Air Temperature	tas
Surface air specific humidity	huss
Surface Latent Heat Flux	hfls
Surface Sensible Heat Flux	hfss
Sfce Downwelling LW Radiation	rlds
Sfce Upwelling LW Radiation	rlus
Sfce Downwelling SW Radiation	rsds
Sfce Upwelling SW Radiation	rsus
Zonal Surface Wind Speed	uas
Meridional Surface Wind Speed	vas
Outgoing Longwave Radiation	rlut

Optional

Description	short name
Surface air potential temperature	tpot
Surface air equivalent potential temperature	tpote
Surface air relative humidity	hurs
Large-scale precipitation	lspre
Convective precipitation	conpre
Convective heating rate	dtcon
Moistening heating rates	dqcon
Wind components at 925 hPa	ua925, va925
Wind components at 700 hPa	ua700, va700
Wind components at 600 hPa	ua600, va600
Wind components at 200 hPa	ua200, va200

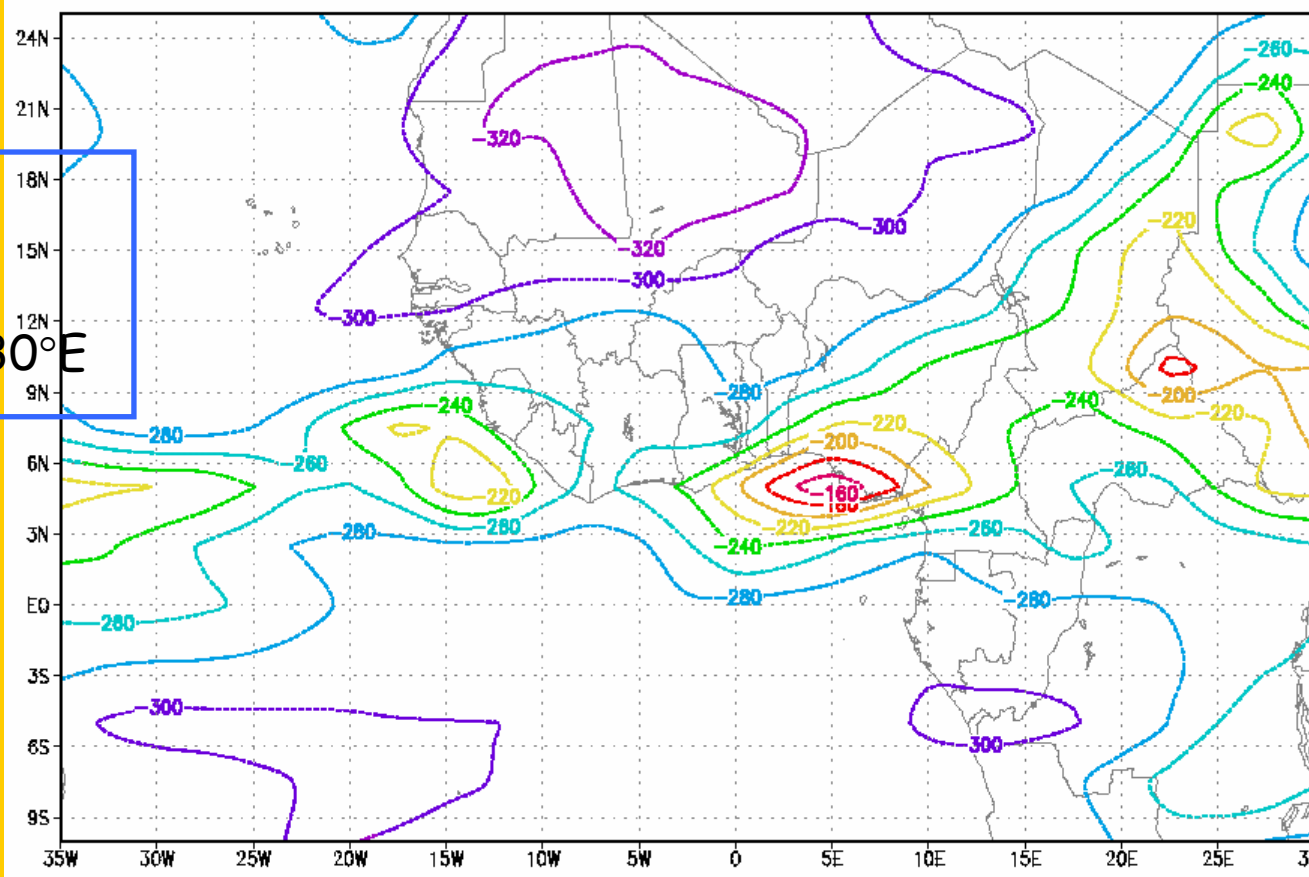
Intercomparison project: seasonal cycle



Hovmoller for sim prec.
or the year **2000** by 5 AMIP
uns with KE convection
cheme (Amipav1-5), one AMIP
un with Tiedtke scheme
Amitie)
nd one high resolution run
AMMAZORC1

4.1.2-3 horizontal domain

Horizontal domain
for diagnostics
10°S-25°N and 35°W-30°E



4.1.2-3 2D horizontal domain

Main data

Description	short name
Zonal wind component at 600 hPa	ua600
Zonal wind component at 925 hPa	ua925
Meridional wind component at 925 hPa	va925
Vorticity at 700 hPa or 850 hPa???	vor700
2m Temperature	tas
Sensible heat flux	hfss
Net surface radiation	radsfc
Soil moisture	mrso
Outgoing longwave radiation	rlut
Integrated liquid water content	prw
Precipitation	pr

Optional

Description	short name
Large scale precipitation	lspre
Convective precipitation	conpre
Top cloud height (pressure)	ptop
Model SST	sst
2m potential temperature	tpot
2m relative humidity	hrss
2m specific humidity	huss
2m equivalent potential temperature	tpote
SW downwelling radiative flux at TOA	rsdt
SW upwelling radiative flux at TOA	rsut
SW downwelling radiative flux at the surface	rsds
SW upwelling radiative flux at the surface	rsus
LW downwelling radiative flux at the surface	rlds

How to contribute

IO stategy

Input data : AMIP SSTs & SICs

we strongly recommend you to use
the sea surface temperatures and sea-ice issued
from the AMIPII for the 2000 and 2003 years:

SST and Sea-ice for 2000 year

SST and Sea-ice for 2003 year

Output data : format, temporal frequency, horizontal resolution

The files will be provided in **NetCdf** format.

If you are not able to provide netcdf files, please contact us.