

# MPI-ESM-LR/German Climate Forecast System 1 (GCFS1) Model configuration

## ECHAM6:

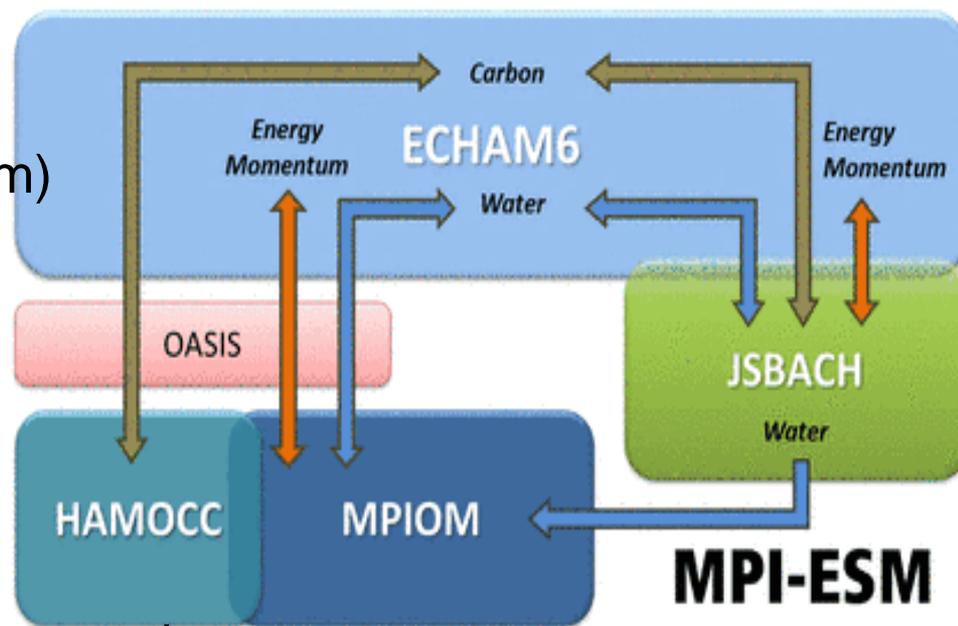
- horizontal  $\sim (1.9^\circ \times 1.9^\circ)$
- vertical up 47 to in 0.1hPa (80 km)
- Landmodel: **JSBACH**
- Hydrological run-off model

## MPIOM:

- horizontal:  $1.5^\circ$
- vertical: 40 levels down to 5km
- Sea-ice model
- Bio-geo-chem model **HAMOCC** not active

## OASIS3:

- Daily coupling between atmosphere and ocean



# MPI-ESM-LR/German Climate Forecast System 2 (GCFS2) Model configuration

## ECHAM6:

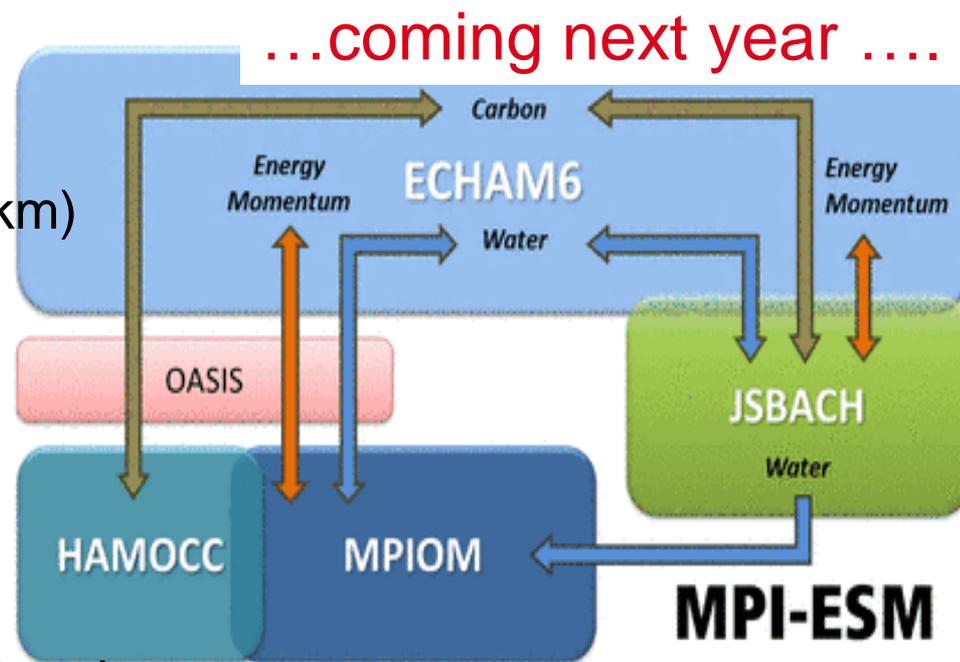
- horizontal  $\sim (.9^\circ \times .9^\circ)$
- vertical up 95 to in 0.1hPa (80 km)
- Landmodel: **JSBACH**
- Hydrological run-off model

## MPIOM:

- horizontal:  $0.4^\circ$
- vertical: 40 levels down to 5km
- Sea-ice model
- Bio-geo-chem model **HAMOCC** active

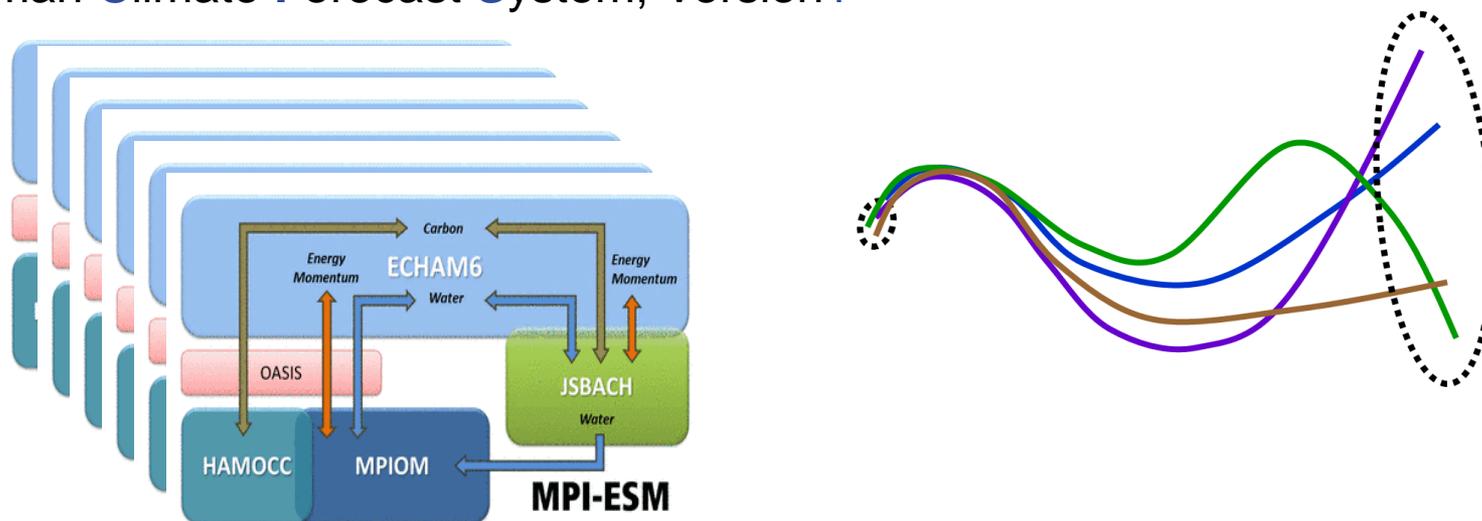
## OASIS3:

- hourly coupling between atmosphere and ocean



# GCFS1: Ensemble simulations for Hindcasts und Forecasts

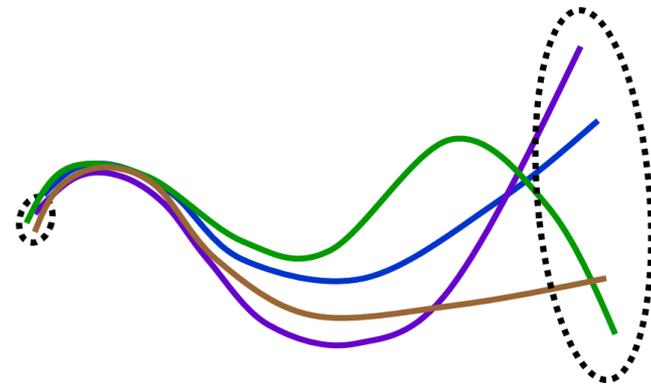
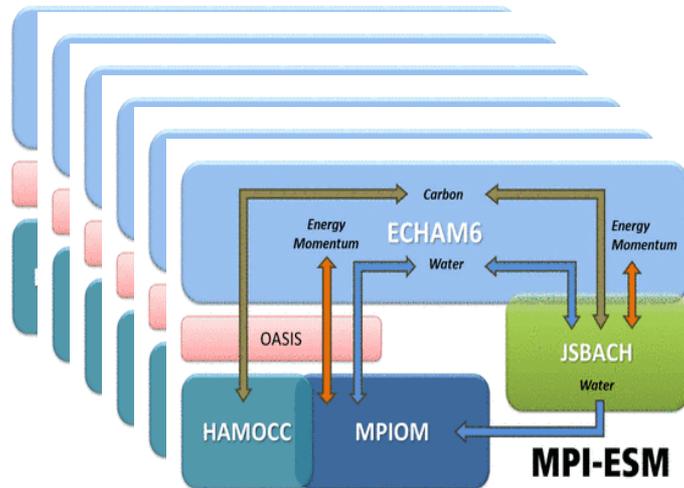
German Climate Forecast System, Version1



	Hindcasts/Reforecasts	Forecasts
<b>Ensemblesize</b>	15	30
<b>Startdates</b>	Each calendar month between 1981-2010 [2014]	Each month

# GCFS2: Ensemble simulations for Hindcasts und Forecasts

German Climate Forecast System, Version2



	Hindcasts/Reforecasts	Forecasts
<b>Ensemblesize</b>	30	50
<b>Startdates</b>	Each calendar month between 1993-2017	Each month



Further information:

Overview MPI models: <http://www.mpimet.mpg.de/en/science/models/mpi-esm>

Seasonal Forecasting at DWD:

[https://www.dwd.de/EN/ourservices/seasonals\\_forecasts/start.html](https://www.dwd.de/EN/ourservices/seasonals_forecasts/start.html)

Results of DWD Seasonal Forecasts:

[https://www.dwd.de/EN/ourservices/seasonals\\_forecasts/charts.html](https://www.dwd.de/EN/ourservices/seasonals_forecasts/charts.html)

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