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ECLAIRE Task 21.1

Harmonization of scenarios

Purpose



- Scenarios: concepts for future development
- Harmonization: use same assumptions throughout ECLAIRE
- No ECLAIRE scenarios
- No harmonization when not needed (assess needs!)
- Scenario group to provide and update information on externally available work (IPCC AR5)

Scenario group



- Emission scenarios – Wilfried Winiwarter
- Climate model scenarios – Magnuz Engardt
- Land use scenarios – Adrian Leip
- ECLAIRE integration – Claire Howard

Emissions



- Representative Concentration Pathways (RCPs)
- Results of different IAMs, tuned to different radiative forcing in 2100
- Cover CO₂, CH₄, N₂O, aerosol and ozone precursors
- Considerable range in results, depending on inputs

Eurocordex: EURO-CORDEX-Simulations - Windows Internet Explorer provided by SMHI
 http://www.euro-cordex.net/EURO-CORDEX-Simulations.1868.0.html

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UNICAN WRF311 t.b.d. t.b.d. historical t.b.d. 1950-2005 planned

Scenarios - Status of Work, last update: August 24, 2011

Institute	Model	Resolution	Driving Model	Driving Experiment	Driving Ensemble Member	Period	Status
CLMCOM	CCLM48	0.11	mpi-esm-lr	rcp45	t.b.d.	2006-2100	planned
CLMCOM	CCLM48	0.11	hadgem2-es	rcp45	t.b.d.	2006-2100	planned
CLMCOM	CCLM48	0.11	t.b.d.	rcp45	t.b.d.	2006-2100	planned
CLMCOM	CCLM48	0.11	mpi-esm-lr	rcp85	t.b.d.	2006-2100	planned
CLMCOM	CCLM48	0.11	hadgem2-es	rcp85	t.b.d.	2006-2100	planned
CLMCOM	CCLM48	0.11	t.b.d.	rcp85	t.b.d.	2006-2100	planned
CSC	REMO	0.11	mpi-esm-lr	rcp45	member x (t.b.d.)	2006-2100	planned
CSC	REMO	0.11	mpi-esm-lr	rcp45	member y (t.b.d.)	2006-2100	planned
CSC	REMO	0.11	mpi-esm-lr	t.b.d.	member x (t.b.d.)	2006-2100	planned
CSC	REMO	0.11	mpi-esm-lr	t.b.d.	member y (t.b.d.)	2006-2100	planned
DMI	HIRHAM	0.11	ec-earth	t.b.d.	t.b.d.	2006-2100	planned
SMHI	RCA4	0.11	ec-earth	rcp26	t.b.d.	2006-2100	planned
SMHI	RCA4	0.11	ec-earth	rcp45	t.b.d.	2006-2100	planned
SMHI	RCA4	0.11	ec-earth	rcp85	t.b.d.	2006-2100	planned
SMHI	RCA4	0.11	hadgem2-es	rcp45	t.b.d.	2006-2100	planned
SMHI	RCA4	0.11	mpi-esm-lr	rcp45	t.b.d.	2006-2100	planned
UNICAN	WRF311	0.11	t.b.d.	rcp45	t.b.d.	2006-2100	planned
WEGC	CCLM48	0.11	hadgem2-es	rcp26	t.b.d.	2006-2100	planned

Results expected during 2012

Land use scenarios



- RCP based land use scenarios (one focal scenario per RCP)
- Published by Hurtt et al. (2011), Climatic Change
- $0.5^\circ \times 0.5^\circ$

Scenario session S7e



We will

- Present available scenarios
- Develop a questionnaire regarding scenario needs (what is needed in detail)
- Update scenario information throughout project duration and provide links/references (web page?)

Please attend session and/or contact us!