

Project Number 282910 ÉCLAIRE Kick-off Meeting: Brescia 2011 Minutes of the C4-C2 Session: Interlinkages C2 and C4



Title: Interlinkages C2 and C4

Time: Tuesday: 16.00-18.00

Chair: Wim de Vries (Almut Arneth)

Attendees: Till Spranger, Magnus Anger, Marthijn

Schaap, Adrian Leip, Gert Jan Reinds, Almut Arneth, Massimo Vienno, Dg Augustin, Rasmus Houburg, Frank

Dentener, Max Posch, Pierre Celier, Stefan Reis, Pierre Cellier, Klaus Butterbach Bahl, Albert Bleeker, Mark Sutton (part time).

Minutes by: Max Posch/Wim de Vries

Aim

Brief description/discussion of interlinkages WP4.1-WP4.3 (modelling carbon sequestration, species change, critical load exceedance) and WP2.3 (modelling air pollution exposure):

- Information needs by C2 and C4 models and database harmonization
- Simulation protocol and scenarios
- Agenda of meeting in month 6 and potential participants

Topics discussed with Issue, decisions/conclusions and actions

Interaction WP8 and 17: presentation by M Theobald.

Model application/simulation protocol and databases for C2 and C4 models

Issue: There is a need for a model application or simulation protocol for Atmospheric

models (TCMs) and Response models (DGVMs and DSVMs):

Decision: Make template for model inputs/outputs and a separate model

application/simulation protocol with following Issues:

- Model inputs and, esp., outputs: resolution, units, type of 'scenarios' (single

drivers vs. real scenarios)

- Get info on soil, land cover, historic climate (1900/50/80-2050/2100)!. Might

be different for sub-grid studies and European applications.

Actions: -Get list of characteristics (potential outputs) and contact person for each

model (Almut)

-Make template with specification of I-O, spatial and temporal resolution of

DGVMs and DSVMs (Allesandro and Almut/Wim)

- Give overview of CTMs based on alternative template (Martijn Schaap)
Martijn sends around common output formats for atmospheric community as

a starting point. Includes description of (i) Common units for I-O from emission to exposure to response models and (ii) Spatial and temporal

resolution used for modeling and presentation

Related comments

- Ecosystem modelers: when presenting an ensemble comparison, we can show mean/min-max etc. of all 6 models (DGVMs and DSVMs).
- Timing issues! Start with 'simplified', existing databases and models for gaining experience ...[air pollutants: RCPs not so good; use EEA/IIASA scenarios from X-project]
- There are previous protocols which could be used as template, i.e. NitroEurope for DGVMs and DSVMs and also an existing tools for atmospheric models (basis for template Martijn Schaap).



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Present information on contact persons

 Atmospheric models (TCMs): WP6/WP7: 6 CTMs: EMEP (Dave Simpson), TM5 (frank Dentener), EURAD, LOTOS, LMDz-ORCHIDEE(g), MATCH

 Response models (DGVMs and DSVMs): WP14/15: 4 DGVMs: CLM-CN (Alessandro Cescatti), Jules (Lina Mercado), LPJ Guess (Almut), O-CN (Soenke Zaehle) and 2 DSVMs: VSD+-FORSPACE (Gert Jan Reinds) and Jules-MADOC (Chris Evans)

Scenarios

Issue Definition of scenarios

Decision Describe common input scenarios: 2-3 driving scenario studies

Furthermore What-if sensitivity scenarios

Action Define common set for ensemble application: lead by Wilfried

Month 6 meeting

Issue: Meeting

Decision Before the meeting we will prepare documents on (i) input-outputs of

models and databases used to enable harmonization, (ii) a simulation

protocol, including information on scenarios to be applied

Topics of meeting is sitting together to finalize documents on all aspects. Participants meeting are experts related to

CTMs WP6/7

DGVM WP14

DSVM WP14 and 15

Critical loads: WP16

Zooming group: WP8 and WP17

Scenarios

Database harmonization

Idea is Get started with one type of model approach for learning by doing.

Actions

Action	Due	Who
Make a template on input data and output data, with their spatial and temporal extent and resolution, and databases used by the various involved models	November	Wim/ Almut a.o.
Schedule a meeting on application protocol	November	Almut (meeting for all
Have meeting begin next year	Feb/March 2012	involved modellers)
Write a model application protocol with	Begin 2012	Almut/Wim, Allesandro,
scenarios and information on resolution of		a.o. with Wilfried
presenting results		Winiwarter