

Minutes GHG-Europe SC-Telecon

Wednesday, 19 October 2011, 15:00-16:15

Participants: Sergey Blagodatskiy, Han Dolman, Axel Don, Annette Freibauer, [Barbara Michel], Dario Papale, Enrico Tomelleri

Top 1: Wrap-up of first reporting

- It was agreed to use the EU-fin and EU-xpert software for subsequent reportings and stick to the same reporting responsibilities, i.e. Coordination sends assignments to WP leaders; WP leaders send assignments to task leaders
- A list with bugs encountered in the system (e.g. closing of assignments) will be passed on to the developers and hopefully improved for next reportings
- Most limiting factor for the whole reporting process was the holiday season -> not applicable for next reporting but for final reporting which we have to start earlier

Top 2: Deliverables

Postponed deliverables:

- D1.1: Workshop on recent and past agricultural management (tillage practice, fertilizer application, harvest rates) -> **Feb. 2012** (Michael)
 - ➔ Preparation in progress; details available by the end of Nov. 2011
- D1.6: Complete driver maps for agricultural management practice for past to present -> **Dec. 2011** (Michael)
 - ➔ Deliverable postponed to 2012
 - ➔ A new colleague (hiring under way) will support this work
- D1.7: Complete socio-economic driver maps with high accuracy for 1990-2020 and lower accuracy for 1950-1990 -> **Nov. 2011** (Michael)
 - ➔ Will be ready by end of Nov. 2011
- D5.3: Protocols for land use change and management model evaluation and site simulations in WP 2 and 3 -> **Feb. 2012** (Philippe, Nicolas)
 - ➔ Status report:
 - At the general assembly of 2011, it was discussed that data from sites subject to land use change from WP2 were not yet available to WP5 modelers
 - Nicolas Viovy will soon contact the responsible person in WP2 for the site data description and coordinates in order to prepare for the models forcing (probably CRU NCEP added to the 1 km WORLDCLIM Climatology)
 - It is suggested to organize a teleconf with WP2 and WP4 people
 - By Feb. 2012 model-data comparison protocols, and associated site level forcing, in liaison with WP4 sectoral models will be provided.
- D5.4: Complete generic and data oriented model evaluation using data collected from previous projects (completed for data oriented models) -> **Dec. 2011** (Philippe, Nicolas)

→ Completed:

Evaluation has been completed a) for data oriented models (through cross validation technique) and b) for generic process based models used in WP5. The ecosystem models both data driven and generic were evaluated against top-down atmospheric inversion fluxes over Europe for the first time, which was not performed in former projects. Analysis focus on evaluation on different time and space scales. A publication is in preparation for the Project.

- D7.4: Heterogeneous data uncertainty protocol -> **Feb. 2012** (Dario)
 - Joint activity between C-Extreme and GHG-Europe
 - Protocol for the exchange of data sets between projects (-> white paper) is currently prepared by Adrian Leip and will be available by February 2012

- D7.5: Prototype of the QA/QC tools -> **Nov. 2011** (Dario)
 - Tools are ready and are currently tested at two "prototype"
 - Should be ready by the end of November 2011

- D7.6: Storage of uncertainty meta-data in a standardized form in the project database -> **Feb. 2012** (Dario)
 - Uncertainty estimation for fluxes are still a problem: how to aggregate fluxes?
 - The method to calculate uncertainty clearly depends on the scientific questions
 - The project should use the know-how of the climate modeling community
 - Further discussion on this matter is necessary

- D8.6: Annual policy briefing documents of project results -> **Nov. 2011** (Annette)
 - The results of the project are not at such a stage as to provide a policy briefing document, yet
 - Therefore a project brochure targeting policy stakeholders has been prepared for the conference "Carbon in a changing World". It will soon be published in the magazine "International Innovation" and is available for download from the project website

Due/upcoming deliverables according to the work plan:

- D5.1: Mid-term synthesis of GHG-Europe results as two scientific publications -> **Sept. 2011** (Philippe, Nicolas)
 - Completed:
 - Two publications available
 - a) the follow up synthesis of Europe's GHG balance from CarboEurope data, with N species, that was completed in 2010:
Schulze ED, Ciais P, Luyssaert S, *et al.* (2010) The European carbon balance. Part 4: integration of carbon and other trace-gas fluxes (vol 16, pg 1451, 2010). *Global Change Biology*, **16**, 2399-2399.
 - b) the new mid-term synthesis including CH₄ and N₂O inversions:
Luyssert *et al.* (in prep.) The European CO₂, CO, CH₄ and N₂O balance between 2001 and 2005

- D5.6: Delivery of complete functional relationships and spatio-temporal patterns for the future vulnerability analysis -> -> **Feb. 2012** (Philippe, Nicolas)
→ Status report:
Work is well advanced to characterize IAV patterns and analogue years for NEE, GPP, TER over the continent. The pattern analysis results are now available for data driven models, and being extended to generic models.
- D7.7: First version of the standardized and quality controlled data in the database -> **Dec. 2011** (Dario)
→ Since D7.7 is closely related to D7.5 and D7.6 there will most likely be some delay

Top 3: 18 months work plan (month 19-36)

- Annette has provided a draft for cross-cutting objectives of the project (see document attached)
- The SC is asked to provide feedback on this draft until mid November; upon final approval the coordination office will circulate it to all Task leaders
- All Task Leaders shall indicate how their task contributes to the cross-cutting objectives up to month 36 (Dec. 2012) + identify intermediate results up to month 27 (March 2012) which will form the basis for discussions at the next Annual Meeting in April 2012
- The aim should be increased awareness on the need of cooperation within the project

Top 4: call for proposals to the scientific community to fill data/science gaps impossible to cover by GHG-Europe

- Since the data + meta data in the GHG-Europe database are too heterogeneous it has been decided to assemble and provide them according to the project regions
- Information on individual sites in the regions including ancillary data is still scarce; Han only received little input from the Regional Coordinators after last year's initiative (letter by Annette to Regional Coordinators)
- In collaboration with Han and Dario, Barbara will collect this data until the end of the year (Dec. 2011) and makes it available through the project and the database website
- As a milestone we aim to have first results available from the work with the data until the next Annual Meeting in April 2012

Top 5: Data use policy & Memorandum of Understanding (MoU) on data sharing between projects

- The Data Use Policy is available through the database website -> http://www.europe-fluxdata.eu/newtcdc2/GHG-Europe_home/Guidelines/Obtaining/datapol.aspx
- The MoU has been accepted by the CarboExtreme General Assembly
- We will set-up a Doodle vote for GHG-Europe asap do decide on the MoU (a 2/3 majority will be need to accept it)
- Since NitroEurope has already terminated agreements on data sharing should be done on an individual basis
- CC-Tame signature pending

Top 6: Database

- For easy updating all driver maps (spatial data) produced in WP1 will be available through the MPI ftp-server; Dario will include a sub-site in the central database that describes the meta data and links to the ftp-server
- Dario will talk to Ivan and Matthias on how to best integrate/link to the forest and peatland database/meta-database

Top 7: Young Scientists

- It has been decided to give more visibility to the Young Scientists during the next Annual meeting by:
 - ➔ Granting an award for the best poster has been proposed
 - ➔ Encourage PIs/Senior scientists to involve Young Scientist in session talks/presentations