



Workshop

“Regional Carbon Cycle Assessment on Land and Oceans”

Organized by
COCOS (Coordination Action on Carbon Observation Systems)
and
RECCAP (Regional Carbon Cycle Assessment and Processes)

6-8 October 2010
Viterbo, Italy

Draft Agenda

DAY 1

09:00

- **Welcome**
- **Objectives of the workshop:** Pep Canadell / Riccardo Valentini / Toste Tanhua
- **COCOS objectives:** Han Dolman
- **RECCAP objectives:** Philippe Ciais, Pep Canadell

09:45

METHODOLOGY

Top down and bottom up components (short presentations and discussion)

- RECCAP Soft Protocol for regional carbon budgets: Philippe Ciais (France), Pep Canadell (Australia)
- Carbon budget uncertainties: how to measure them and express them. Ian Enting (Australia)
- Delivery of data: Bob Key (USA)
- An inverse modelling approach combining SeaWiifs and MODIS products, in-situ production data, trap data, and large data sets on DIC, dissolved nutrients and O₂: Reiner Schlitzer (Germany)
- Mapping time-varying distribution of anthropogenic carbon (Samar Khatiwala)

13:00- Lunch

14:00

GLOBAL MODEL EFFORTS CONTRIBUTING TO REGIONAL SYNTHESSES

10 minutes talk + 10 minutes discussion

- **Global atmospheric CO₂ inversions:** Kevin Gurney (USA), Rachel Law (Australia), Philippe Peylin (France)
- **Global modelled terrestrial sources and sinks:** Stephen Sitch (UK), Pierre Friedlingstein (France)
- **Global fire emissions:** Guido van der Werf (The Netherlands)
- **Global modelled oceans sources and sinks:** Corinne Le Quere (UK)
- **Interior ocean inversions:** Niki Gruber (Switzerland)

15:30

REGIONAL SYNTHESSES

10 minutes talk + 10 minutes discussion

- **Arctic tundra:** David McGuire (Alaska, USA), Torben Christensen (Sweden)
- **Arctic Ocean:** Nick Bates (Bermuda)
- **Russia:** Han Dolman (The Netherlands), Anatoly Shvidenko (Austria)
- **Nordic Seas:** Are Olsen (Norway)

17:00

- Break out: Land regional budgets

17:00

- Break out session: Ocean regional budgets

18:00 - END OF DAY

DAY 2

09:00

REGIONAL SYNTHESSES (continuation)

10 minutes talk + 10 minutes discussion

- **North America** (US, Canada, Mexico): Mac Post (US), Ken Devis (USA), Werner Kurz (Canada)
- **North Atlantic:** Ute Schuster (UK)
- **Europe:** Sebastiaan Luyssaert (Belgium), Philippe Ciais (France)
- **South Atlantic:** Aida Rios (Spain), Mario Hoppema (Germany)
- **Africa Continental:** Riccardo Valentini (Italy), Bob Scholes (South Africa), Yadvinder Malhi (UK)

12:00

- Break out session: Land regional budgets

12:00

- Break out session: Ocean regional budgets

13:00 - Lunch

- **East Asia :** Shilong Piao (China), Akihiko Ito (Japan)
- **North Pacific Ocean:** M. Ishii (Tsukuba, Japan), R. Feely (NOAA, USA),
- **Indian Ocean:** Nicolas Metzl (France), V. Sharma (India), Marta Alvarez (Spain).
- **South Asia (India):** tba
- **Southeast Asia:** Prabir Patra (Japan), Pep Canadell (Australia)

17:00

- Break out session: Land regional budgets

17:00

- Break out session: Ocean regional budgets

18:00 - END OF DAY

DAY 3

09:00

REGIONAL SYNTHESSES (continuation)

10 minutes talk + 10 minutes discussion

- **Australia Continental:** Vanessa Haverd, Mike Raupach (Australia)
- **Southern Ocean:** Andrew Lenton (CSIRO, Australia), Bronte Tilbrook (CSIRO, Australia)
- **South America:** Emanuel Gloor (UK), Umberto da Rocha (Brazil)
- **South Pacific Ocean:** Chris Sabine (USA)

GLOBAL DATA EFFORTS CONTRIBUTING TO REGIONAL SYNTHESSES

10 min. talks + 10 discussion

- **Global ocean surface CO₂**: Taro Takahashi (Columbia University, USA), Rik Wanninkhof (NOAA, USA)
- **Global ocean carbon storage**: Samar Khatiwala (Columbia University, USA), Toste Tanhua (Kiel, Germany)
- **Rivers and lateral fluxes (globe)**: Peter Raymond (USA)
- **Coastal Ocean**: Alberto Borges (Belgium)
- **Marginal Seas**: Kitack Lee (Korea), Toste Tanhua (Germany)

13:00 - Lunch

14:00
Discussion towards final
carbon budgets: Land

14:00
Discussion towards final
carbon budgets: Ocean

14:00
Discussion global products
supporting regional synth.

16:00
Plenary

Reports on key issues for land, ocean and global syntheses.
General discussion

17:00
Next Steps

- Timetable (meetings, deadlines, drafts)
- Publications and other products
- Others

18:00 - END OF MEETING