



CARBOCHANGE

2013 Annual Meeting EU FP7 large-scale integrating project CARBOCHANGE
“Changes in carbon uptake and emissions by oceans in a changing climate”

UEA, Norwich, UK, 24-26 April 2013

Start of programme: Wednesday April 24, 08:30

End of programme: Friday April 26, 13:00

Wednesday	April 24	
08:30-09:00	REGISTRATION	
	SESSION 1: Welcome and status	Chair: C. Heinze
09:00-09:05	Short welcome on behalf of the consortium	C. Heinze
09:05-09:20	Welcome from UEA	Professor David Richardson, Pro-Vice-Chancellor for Research Enterprise & Engagement
09:20-09:35	CARBOCHANGE – status and perspective	C. Heinze
	SESSION 2 : Core theme overview	
09:35-09:50	Core theme 1: major items and next steps <i>Key processes and feedbacks, future scenarios, and vulnerabilities</i>	N. Gruber, M. Gehlen
09:50-10:05	Core theme 2: major items and next steps <i>Observing system of ocean carbon changes</i>	A. Rios, A. Watson
10:05-10:20	Core theme 3: major items and next steps <i>Data model integration</i>	F. Joos, N. Metz
10:20-10:35	Overarching activity: Major items and next steps	C. Le Quéré
10:35-11:00	Coffee break	
	SESSION 3 : WP overview	Chair: D. Bakker
11:00-11:30	<i>WP1 - Biochemical processes and feedbacks</i> The effect of remineralization and burial in global biogeochemical models CO ₂ exchange through the Strait of Gibraltar: a review and future perspectives	I. Kriest (15 min) E. Huertas (15 min)
11:30- 12:00	<i>WP2 - Physical processes and feedbacks</i> Reconciling air-sea CO ₂ fluxes and anthropogenic CO ₂ budgets in a changing North Atlantic North Atlantic variability of oceanic CO ₂ uptake in response to simulated past, present and future climate change	A. Rios (15 min) N. Goris (15 min)

12:00 – 14:00	Lunch break + poster session	
		Chair: T. Johannessen
14:00-14:30	<p>WP3 - <i>Future scenarios under different emission curves and vulnerability analysis</i></p> <p>Introduction to the WP</p> <p>CO2 and Climate Impulse Response Functions</p> <p>Climate carbon-cycle feedbacks over Southern Ocean</p> <p>Water masses: a CMIP5 multimodel diagnosis</p>	<p>I. Totterdell (5-10min)</p> <p>F. Joos (10 min)</p> <p>T. Roy (10 min)</p>
14:30-15:00	<p>WP4 - <i>Surface observing systems</i></p> <p>One year of underway $d^{13}C$ (CO_2) data in the North Atlantic Ocean</p> <p>Recent results on CO_2 variability in Atlantic and Southern Ocean</p> <p>QUIMA VOS line</p> <p>Observations obtained with the Nuka VOS line</p> <p>Surface pCO_2 in the Southern Ocean, observations on board RRS James Clark Ross</p> <p>Over-Determination of the carbon system in the North Atlantic</p>	<p>(5 min each)</p> <p>T. Steinhoff</p> <p>J. Boutin</p> <p>M. S. Casiano</p> <p>A. Omar</p> <p>V. Kitidis</p> <p>B. Ward</p>
15:00-15:30	<p>WP5 - <i>Deep ocean, time series, choke points</i></p> <p>Coupling DIC/^{13}C to estimate the anthropogenic carbon change in Irminger Basin and in Indian Ocean (new results)</p> <p>A brief overview of results from the Irminger Sea and the Iceland Sea time series stations</p> <p>Highlights of WP5</p>	<p>V. Racape (10 min)</p> <p>J. Olafsson (10 min)</p> <p>WP5 (10 min)</p>
15:30-16:00	Coffee break + Poster session	Chair: F. Hoffmann
16:00-16:30	<p>WP6 - Systematic model calibration using observational data</p> <p>Overview of progress, achievements and problems in WP6</p> <p>Progress towards a coupled marine terrestrial carbon cycle data assimilation system</p> <p>Multiple climate targets in an observation-informed Bayesian approach: Implications for allowable carbon emissions</p>	<p>L. Bertino, M. Scholze (5 min)</p> <p>A. Terwisscha van S. (10 min)</p> <p>F. Joos (15 min)</p>
16:30-17:30	<p>Outreach Panel, SCI 0.67</p> <p>Gender Panel, SCI 0.66</p> <p>Workshop on methods to weigh models, LGMAC</p>	<p>F. Hoffmann</p> <p>M. Hoppema</p> <p>F. Joos</p>
18:00-19:00	Ice breaker reception	

Thursday	April 25	Chair: I. Kriest
09:00-9:30	Scientific key note: Sunke Schmidtko, UEA: complementary view of changes in ocean physics and biogeochemistry	
09:30-10:00	<i>WP7 - Data-model and model-model comparison</i> Progress overview Deep-Ocean evaluation of forced models with natural C-14 Detection and attribution of climate change impact on ocean oxygen	Toste+Jim (5 min) H. Wagner (12 min) O. Andrews (12 min)
11:00-10:30	<i>WP8 - Global synthesis and outreach to policy makers</i> Update on GLODAP, SOCAT, Carbon budgets, and ocean inversions Variability of the Global Ocean Carbon Sink (1998-2007)	A. Olsen (15 min) P. Landschützer (15 min)
10:30 – 11:00	Coffee break and poster session	Chair: J. Boutin
11:00-11:30	<i>WP9 – Data management</i> Update on data management – model output Update on data management – observations Discussion/questions	J. Orr (10 min) B. Pfeil (10 min) (10 min)
11:30 – 12:30	Target discussion to develop ways to better constrain the decadal trend in the ocean CO ₂ sink	Introduced by C. le Quéré
12:30-13:30	Lunch	
	SESSION 4: break out groups and meetings	
13:30-16:30	Break-out groups on WP work planning (coffee break in between) ICOS OTC meeting: after break-out meeting of WP 4 and 5	4 rooms available
16:30-17:15	SSC meets International Advisory Board	LGMAC room
17:15-18:00	SSC meeting	LGMAC room
19:00	Dinner in town	

Friday	April 26	Chair: C. Heinze
09:00-9:30	Scientific key note: Han Dolman, Uni Amsterdam: Current state of systematic carbon cycle observations	
	SESSION 5: Management and reports	
9:30-09:50	Reporting and management issues	F. Hoffmann, H. Høiland
09:50 – 10:10	Messages from the panels	
10:10-10:30	Networking and future project funding	
10:30-11:00	Coffee break	
11:00-12:00	Report break-out groups	
12:00-13:00	Member General Assembly: Final discussion on open issues, next meeting	
13:00-14:00	Lunch	

Workshops:

Fortunat Joos: Workshop on methods to weigh models (D7.4) (Wednesday 16:30 – 17:30) 30 people, room LGMAC

Truls Johannessen: ICOS OTC (Thursday after WP 4+5 break-out)

Are Olsen: GLODAP – after meeting (Friday 1400-1800, Saturday 0800-1500)

Panel meetings (Wednesday 16:30 – 17:30):

Friederike: Outreach Panel, room SCI 0.61

Mario: Gender Panel (if needed), room SCI 0.66

Toste: IPR Panel (if needed)

Rachels office: 0.37, down the corridor from 0.67