



Meeting Agenda for the 3rd Annual Meeting of **CARBOCHANGE**

“Changes in carbon uptake and emissions by oceans in a changing climate”

MRI-UI, Skúlagata 4, 101 Reykjavik, Iceland
07-10 April 2014

Monday, April 07 2014

17:00-18:00	REGISTRATION
18:00-19:00	Icebreaker reception

Tuesday, April 08 2014

08:30-09:00	REGISTRATION
-------------	--------------

SESSION 1 – Welcome and status Chair: Christoph Heinze

09:00-09:05	Short welcome on behalf of the consortium	Christoph Heinze
09:05-09:20	Welcome on behalf of MRI-UI	Jóhann Sigurjónsson
09:20-09:50	CARBOCHANGE – status and perspective	Christoph Heinze

Tuesday, April 08 2014 (ctd.)

SESSION 2 – Core theme overview Chair: Stefanie Meyer		
09:50-10:05	Core theme 1: Key processes and feedbacks, future scenarios, and vulnerabilities	Nicolas Gruber* Marion Gehlen
10:05-10:20	Core theme 2: Observing systems of ocean carbon changes	Andrew Watson* Aida Ríos
10:20-10:35	Core theme 3: Data model integration	Fortunat Joos* Nicolas Metzl
10:35-10:50	Overarching activity: Global synthesis and synergies with international projects	Corinne Le Quéré
10:50-11:15	Coffee break	
SESSION 3 – WP overview Chair: Leif Anderson		
11:15-11:45	WP1: Biochemical processes and feedbacks (i) Remineralisation and oxygen consumption rates from oxygen and CFC data (ii) Temperature-dependent remineralization in a warming ocean increases surface $p\text{CO}_2$ through changes in marine ecosystem composition	Reiner Steinfeldt Joachim Seg-schneider
11:45-12:15	WP2: Physical processes and feedbacks (i) Complete compensation of SAM-induced sea-to-air CO_2 flux in a $1/4^\circ$ ocean model (ii) Preliminary analysis of the SOSCEX II high resolution combined glider experiment (iii) Report on physical processes in the Atlantic (iv) optional: Will a diminishing Arctic Ocean sea ice coverage increase the flux of carbon into the deep ocean?	Jim Orr Pedro Monteiro Patricia Zunino Leif Anderson
12:15-14:00	Lunch break & poster session	

Tuesday, April 08 2014 (ctd.)

SESSION 3 ctd. – WP overview Chair: Emma Huertas		
14:00-14:30	WP3: Future scenarios under different emission curves and vulnerability analysis (i) Overview of WP3 progress (ii) On the use of coupled climate-carbon simulations in the recent IPCC WG1 AR (iii) Detecting and attributing the anthropogenic influences on air-sea carbon fluxes over the last decades	Ian Totterdell Laurent Bopp Roland Séférian
14:30-15:00	WP4: Surface observing system (i) Atlantic Ocean data (ii) Southern Ocean data (iii) Atmospheric data	Ute Schuster Jacqueline Boutin Brian Ward
15:00-15:30	WP5: Deep ocean, time series, choke points (i) Mesoscale variability around Cape Verde Ocean Observatory (ii) On decadal changes of the inventory of anthropogenic carbon in the Atlantic (iii) Comparison of anthropogenic CO ₂ storage between observations and models in the Atlantic	Björn Fiedler Reiner Steinfeldt Aida F. Ríos
15:30-16:00	Coffee break	
SESSION 3 ctd. – WP overview Chair: Brian Ward		
16:00-16:30	WP6: Systematic model calibration using observational data (i) Overview of WP6 results (ii) Evaluation of global biogeochemical ocean models simulated on millennial time scales	Laurent Bertino Iris Kriest

Tuesday, April 08 2014 (ctd.)

16:30-17:00	WP7: Data-model and model-model comparison (i) Introduction (ii) Global C _{ant} synthesis effort using eMLR(C*) (iii) ENSO and variability in the marine carbon cycle	Jim Orr Nicolas Gruber Kathrin Keller
17:00	Workshop/panel option 2	
	SOCAT: SOCAT progress (version 3, automation, version 4), auditorium, 17:15-18:30, all partners are welcome	Dorothee Bakker
	Session on weighted optimal estimates, small room (15-20 p.), 17:15-19:00, targeted for Theme 3 members, open to all interested	Fortunat Joos
	Outreach Panel, small room (10 p.), 17:15-18:15	Stefanie Meyer

Wednesday, April 09 2014

09:00-09:45	Scientific key note: Two time series for the price of one	Jón Ólafsson
SESSION 3 ctd. – WP overview Chair: Emil Jeansson		
09:45-10:15	WP8: Global synthesis and outreach to policy makers (i) Update on the Global Carbon Budget (ii) GLODAP2 (iii) Update on SOCAT	Corinne Le Quéré Siv Lauvset Dorothee Bakker
10:15-11:00	Coffee break & poster session	
11:00-11:30	WP9: Data and information management (i) Update on model output data management (ii) Update on observational data management (iii) GEOTRACES Intermediate Data Product	Jim Orr Reiner Schlitzer Reiner Schlitzer

Wednesday, April 09 2014 (ctd.)

11:30-12:00	WP10: Management of the project (i) Financial management (ii) Scientific management	Hege Høiland Stefanie Meyer
-------------	--	--------------------------------

12:00-14:00	Lunch break & poster session	
-------------	------------------------------	--

SESSION 4 – WP break-out groups and panel meetings

14:00-17:00	WP group meetings	
-------------	--------------------------	--

17:00-17:30	SSC meets IAB	
-------------	----------------------	--

17:30-18:00	SSC meeting	
-------------	--------------------	--

19:00	Conference Dinner	
-------	-------------------	--

Thursday, April 10 2014

09:00-09:45	Scientific key note: Research on ocean acidification and ocean carbon uptake: What synergies are needed in the future?	Jean-Pierre Gattuso
-------------	---	---------------------

SESSION 5 – Reports and discussion
Chair: Christoph Heinze

09:45-10:30	Report WP break-out groups	
-------------	----------------------------	--

10:30-11:00	Coffee break	
-------------	--------------	--

11:00-11:30	Messages from panels and workshops, summary of IAB feedback	
-------------	---	--

Thursday, April 10 2014 (ctd.)

11:30-12:30	Member's General Assembly: Status of synthesis papers, future synthesis plans Summary of the meeting Final discussion on open issues, final meeting
12:30-13:00	Networking and future project funding
13:00-14:00	Lunch break