International Blue Carbon Scientific Working Group 12th Annual Meeting & Nordic Blue Carbon Workshop

September 9th – 13th, 2019 Nordatlantens Brygge, Copenhagen, Denmark

AGENDA



Coordinating organizations:









Workshop partner organizations:

















Funding organizations:



Day 1 – Monday, September 9 th	
6:00 - 8:00	Welcome Reception Drinks at Brewpub (en.brewpub.dk; Vestergade 29, 1456
PM	Københaven K)

Day 2 – Tues	sday, September 10 th
8:30 AM	Check-in
9:00	Host Welcome Moderator: James Fourqurean, Florida International University
	Welcome to the Region Marianne Holmer, University of Southern Denmark
	Workshop agenda and expected outcomes Jennifer Howard, Conservation International
	Welcome to the Nordic Blue Carbon Workshop Local organizing committee:
	Marianne Holmer, University of Southern Denmark Mats Björk, Stockholm University
	Christoffer Boström, Åbo Akademi University Dorte Krause-Jensen, Aarhus University
	Helene Frigstad, Norwegian Institute for Water Research Steven Lutz, GRID-Arendal
9:30	Introduction to Blue Carbon and the International Blue Carbon Scientific Working Group Chairs: Emily Pidgeon, Conservation International
10:00	Steve Crooks, Silvestrum Climate Associates Around the room introductions Everyone states their name, organization, country of origin, and why they are here
Session 1	Blue Carbon – A Nordic Perspective Organizers: Christoffer Boström, Åbo Akademi University; Dorte Krause-Jensen, Aarhus University; James Fourqurean, Florida International University Moderator: James Fourqurean, Florida International University Outcome: Synthesis Paper on Nordic Blue Forests in relation to climate change mitigation and adaption: current understanding and science gaps
10:30	Blue forests in Norway – status and knowledge gaps Jonas Thormar, Institute for Marine Research
10:45	Blue forests in Sweden – status and knowledge gaps Martin Gullström, Stockholm University

11:00	Blue forests in Finland – status and knowledge gaps Christoffer Boström, Åbo Akademi University
11:15	Blue forests in Denmark and Greenland – status and knowledge gaps Dorte Krause-Jensen, Aarhus University & Marianne Holmer, University of Southern Denmark
11:30	Coffee Break
Session 1 cont'd	Blue Carbon – A Nordic Perspective (continued)
11:45	Blue Carbon Distribution Map Hege Gundersen, Norwegian Institute for Water Research
12:00	Carbon Sequestration in the Salt Marshes of the Northern Wadden Sea Peter Müller, Aarhus University
12:15	Carbon sequestration of Danish saltmarshes/meadows Elizabeth Graversen, Aarhus University & Gary Banta, Roskilde University
12:30	Expanding Greenland seagrass meadows contribute new sediment carbon sinks Núria Marba, Instituto Mediterráneo de Estudios Avanzados
12:45	Discussion
1:00	Lunch – Provided
Session 2	Determined Contributions (NDCs), Greenhouse Gas Inventories and Actions Organizers: Emily Pidgeon, Conservation International; Steve Crooks, Silvestrum Associates; Dorothee Herr, IUCN; Steven Lutz, GRID-Arendal Moderator: Salvatore Aricò, IOC-UNESCO Outcome: Review of the Blue Carbon and NDC guidelines, IPBC
2:00	Inclusion of Blue Carbon in national inventories - lessons learned and challenges ahead Steen Gyldenkærne, Aarhus University
2:15	Mangroves: Integration in Payment for Carbon Services in Costa Rica Marco Quesada, Conservation International - Costa Rica
2:30	Blue carbon and the Kenyan NDC James Kairo, Kenya Marine and Fisheries Research Institute
2:45	New Guidelines for Blue Carbon in NDC, Inventories and National Climate Strategies Tamara Thomas, Conservation International
3:00	National work on blue carbon policies in Norway <i>Åsa Pedersen, Norwegian Environment Agency</i>
3:15	Discussion
3:45	Coffee Break and Group Photo
Session 3	Restoration of high latitude blue forests (seagrass, salt marsh, macro algae) Organizers: Steve Crooks, Silvestrum Climate Associates; Christoffer Boström, Åbo Akademi University Moderator: Christoffer Boström, Åbo Akademi University

	Outcome: Understanding structured restoration planning
4:15	Seagrass restoration in Sweden; implications for carbon and nitrogen stocks
	Per-Olav Moksnes, University of Gothenburg
4.20	Structured planning of restoration projects linking science to outcomes
4:30	Steve Crooks, Silvestrum Climate Associates
4:45	Kelp forest restoration: nudging a phase shift on a sea urchin barren
	Speaker: Hege Gundersen, Norwegian Institute for Water Research
5:00	Discussion
5:30	End

Day 2 W	ednesday, September 11 th
Day 5 – W	editesday, September 11°
9:00 AM	Welcome
Session 4	Kelp forests and rocky shores in the Blue Carbon perspective
	Organizers: Kasper Hancke, Norwegian Institute for Water Research; Dorte Krause- Jensen, Aarhus University; Jennifer Howard, Conservation International
	Moderator: Jennifer Howard, Conservation International
	Outcome: Regional review paper of policy relevant science needs
9:15	Macroalgae in the blue carbon context and seaweed farming perspectives Dorte Krause-Jensen, Aarhus University & Carlos Duarte, King Abdullah University of Science and Technology
9:30	Export and fate of macroalgae from coastal habitats Morten Foldager Pedersen, Roskilde University
9:45	Long-term changes in macroalgae along the Norwegian coast Helene Frigstad, Norwegian Institute for Water Research
10:00	Seaweed farming in Norway – Blue carbon and blue economy perspectives Kasper Hancke & Jorunn Skjermo, Norwegian Institute for Water Research
10:15	Discussion
11:00	Coffee Break
Session 5	Sea level rise and its effects on blue carbon Organizers: Catherine Lovelock, University of Queensland; Neil Saintilan, Macquarie University; Marianne Holmer, University of Southern Denmark Moderator: Steve Crooks, Silvestrum
44.20	Outcome: To be confirmed
11:30	Sea level rise and carbon stocks Neil Saintilan, Macquarie University
11:45	Can we estimate blue carbon mitigation potential with sea level rise? Catherine Lovelock, University of Queensland
12:00	Biogeochemical constraints on carbon preservation Patrick Megonigal, Smithsonian Environmental Research Center

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12:15	Gyldensteen Coastal Lagoon and carbon cycling
12.20	Cintia Quintana, University of Southern Denmark
12:30	Carbon diagenesis, preservation, and seagrass
42.45	James Fourqurean, Florida International University
12:45	Discussion
1:15	Lunch – Provided
	Blue Carbon Science Updates
	Organizer: Emily Pidgeon, Conservation International
Session 6	Moderator: Miguel Cifuentes, Centro Agronómico Tropical de Investigación y
	Enseñanza
	Outcome: To be confirmed
2:15	UN Decade of Ocean Science
	Salvatore Aricò, IOC-UNESCO
2:30	Blue Carbon Manual, Volume 2
	Jean Brodeur, Conservation International
2.45	The Blue Forests Economy - illustrating options for multiple revenue streams based
2:45	on healthy blue forests to support goals in blue carbon and more
	Steven Lutz, GRID-Arendal
2.00	Novel Acoustic Remote Sensing Methods for Estimating Aboveground Biomass and
3:00	Sediment Organic Carbon of Seagrass Meadows Faiz Rahman, University of Texas Rio Grande Valley
	Ecosystem carbon stocks in tidal wetlands of the Pacific Northwest USA
3:15	Boone Kauffman, Oregon State University
3:30	Coffee Break
3.33	Methane and nitrous oxide emissions
	Organizers: Patrick Megonigal, Smithsonian Environmental Research Center; Mats
Session 7	Björk, Stockholm University
	Moderator: Dorothee Herr, IUCN
	Outcome: To be confirmed
	Overview of greenhouse gas emissions in blue carbon systems
4:00	Patrick Megonigal, Smithsonian Environmental Research Center
	Revision of Tier 1 methane emissions factor for ditches, ponds, and aquaculture
4:15	Catherine Lovelock, University of Queensland
	Effects of tidal marsh elevation on methane emissions
4:30	Peter Müller, Aarhus University
	Methane emissions from Baltic seagrass meadows
4:45	Mats Björk, Stockholm University
F-00	Methane emissions after tidal reintroduction in an Australian salt marsh
5:00	Neil Saintilan, Macquarie University
5:15	Discussion
5:30	Field Trip Information
5:30	Field Trip Information Cintia Quintana, University of Southern Denmark

7:00	Workshop Dinner at Toldboden (toldboden.com/en; 18-24 Nordre Toldbod, DK-1259)
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Day 4 – Thursday, September 12 th FIELD TRIP: Choose either Channel Tour (1/2 day) or Gyldensteen Tour (Full Day) (See travel tips document for more information)	
	Glydensteen Tour group meets inside Copenhagen Central Train Station
7:30 AM	(Banegårdspladsen 1, 1570 København V) in front of the 7-Eleven, box lunch will be
	provided during trip
12:00 PM	Channel Tour group meets in Nyhavn at the Memorial Anchor (Nyhavn 1F, 1051
12:00 PIVI	Københaven) for box lunch
1:00 - 3:00	Channel Tour
3:00	End for Channel Tour group
7:00	End for Glydensteen Tour group

Day 5 – Friday, September 13 th	
9:00 AM Session 8	Opening Remarks - Minna Epps, International Union for Conservation of Nature Designing a Nordic Roadmap for Blue Carbon Organizers: Marianne Holmer, University of Southern Denmark; Mats Björk, Stockholm University; Christoffer Boström, Åbo Akademi University; Dorte Krause- Jensen, Aarhus University; Helene Frigstad, NIVA; Steven Lutz, GRID-Arendal; Jim Fourqurean, Florida International University Moderator: Marianne Holmer and Emily Pidgeon
9:05	Break-out Groups and Discussion
10:45	Coffee Break
11:15	Break-out Groups and Discussion
11:45	Closing Remarks
12:00	Lunch – Provided - move to noon