

## Blue Carbon: Beyond the Inventory

Royal Society of Edinburgh

Thursday 11<sup>th</sup> November

09:00 REGISTRATION – Teas & Coffees

10:00 Session #1

Opening Remarks – **Professor Bill Austin** (Chair Scottish Blue Carbon Forum, for Scottish Government)

Welcome on behalf of the RSE – **Professor Marcel Jaspars** (VP-International, RSE)

Welcome on behalf of the Scottish Government – **Mairi Gougeon MSP** (Cabinet Secretary for Rural Affairs and Islands, Scottish Government)

Scotland's Natural Environment - **Professor Andrew Millar** (Chief Scientific Advisor on Environment, Natural Resources and Agriculture, for Scottish Government)

Message of Support from the IOC/UNESCO – **Dr Vladimir Ryabinin** (Executive Secretary, Intergovernmental Oceanographic Commission)

Reflections from COP26 – **Dr Kirsten Isensee** (Programme Specialist – Ocean Carbon Sources and Sinks, IOC/UNESCO)

11:00 Session #2

***Blue Carbon Initiative: transforming science into effective policy and management***

Emily Pidgeon, Kirsten Isensee, and Dorothee Herr

***Blue Carbon in NDCs – Case Studies in Ambition***

Stacy Baez, Tom Hickey, Simon Reddy

***The ecology of coastal ecosystems (tbc)***

Catherine Lovelock (Keynote)

12:00 Lunch & Posters

13:00 Session #3

***Tiger sharks, scientists, and entrepreneurs partner to guide the discovery of world's largest seagrass meadow in The Bahamas***

Wells Howe, S. David Harris, Carlos M. Duarte, Austin J. Gallagher

***Estimating the Size of the Global Seafloor Organic Carbon Sink – Uncertainties and Data Limitations***

Markus Diesing

***Scotland's forgotten carbon: exploring the mechanisms that drive carbon burial and storage in mid-latitude fjords.***

Craig Smeaton, Cui Xingxang, Hangdong Yang, Negar Haghypour, Timothy Eglinton, Thomas Bianchi and William Austin

***Interactive effects of climate change and land use change on carbon burial at millennial timescales***

Kamenos NA, J Mao, RAR McGill, J Newton, P Gulliver, HL Burdett

***How do we find macroalgal particulate organic carbon sinks and how do we protect them?***

Ana M Queirós, Michel Bedington, Andrew Bell, James Clark, Christine Pascoe, Daniel Smale, Paul J Somerfield, Karen Tait, Ricardo Torres and Rob Wilson

***Blue Carbon – An Irish Perspective***

Grace M Cott, Andrea Fuchs, Lisa Jessen, Shannon Burke, Pedro Beca-Carretero and Dagmar B Stengel

15:00 **Tea & Posters**

15:30 **Session #4**

***Blue Methane: Challenges and Opportunities Posed by Methane Emissions for Blue Carbon Accounting***

J. Patrick Megonigal, James Holmquist, Genevieve Noyce, and Kevin Kroeger  
(Keynote)

***Estimating Aboveground Biomass and Biomass Change of Mangrove Forests in the Niger Delta.***

Nwobi, C.J., Williams, M., and Mitchard, E. T. M.

***Potential Contribution of Mangroves to Indonesia's Natural Climate Solution***

J. Boone Kauffman, Virni Budi Arifanti, Subarno, Muhammad Ilman, and Nisa Novita

***Belize Blue Carbon: Establishing a national carbon stock estimate for mangrove forests***

H.K. Morrisette, S. Baez, L. Beers, N. Bood, S. Crooks, J. Lefcheck, N. Martinez, K. Novelo, and S.W.J. Canty

**Friday 12th November**

**09:00 REGISTRATION** – Teas & Coffees

**10:00 Session #5**

***Academia meets policy: how do parliaments use blue carbon academic research to support policymaking?***

Roxana T Shafiee, Damon Davies, Anna Brand and Alexa Morrison

***The feasibility of establishing seabed sediment blue carbon MPAs: a UK case study***

Graham Epstein & Callum M. Roberts

***Climate mitigation potential of the European shelf seabed: significance, risks, recoverability, value and management***

Ruth Parker, Lisa Benson, John Aldridge, Natalie Hicks, Dorte Krause-Jensen, Michael Burrows, Carol Robinson, Tiziana Luisetti, William Austin, Johan van der Molen, Jordan Gacutan, Rui Vieira

**11:00 Tea & Posters**

**11:30 Session #6**

***Towards shelf seabed carbon management in England***

Parker, R., Aldridge, J, Bullimore, R, Mynott, F, Proctor, W, Lamb. P, Chaniotis, P, Cook, D

***Guiding the restoration of our estuaries and coasts***

Benjamin C Green, Eve Leegwater, Rachel Hudson, Will Manning, Joe Kenworthy, Mike Best, Colin Scott, Celine Gamble, Azra Glover, Joanne Preston, Alison Debney and Roger Proudfoot

***Coastal and Marine Blue Carbon in a U.S. MPA: An Assessment and Guidance for Managers***

Hutto, Sara; Hohman, Rietta; Tezak, Sage

**12:30 Discussion**

**13:00 Lunch and Posters**

**14:00 Session #7**

***Operationalising marketable blue carbon***

Peter I. Macreadie, Alistar I. Robertson, Bernadette Spinks, Matthew P. Adams, Jennifer M. Atchison, Justine Bell-James, Brett Bryan, Long Chu, Karen Filbee-Dexter, Lauren Drake, Carlos M. Duarte, Daniel A. Friess, Felipe Gonzalez, Quentin Grafton, Kate J. Helmstedt, Melanie Kaebernick, Jeffrey Kelleway, Gary A. Kendrick, Hilary Kennedy, Catherine E. Lovelock, J. Patrick Megonigal, Damien T. Maher, Emily Pidgeon, Abbie A. Rogers, Rob Sturgiss, Stacey M. Trevathan-Tackett, Melissa Wartman, Kerrie A. Wilson, Kerrylee Rogers (Keynote)

***The interpretation of justice in blue carbon projects***

Mark Huxham, Robyn Shilland, Anne Kairu

***Requirements for Connecting Coastal Blue Carbon Projects to the Carbon Market and Evaluating Inclusion of Seascape Carbon***

Stephen Crooks, Iginio Emmer, Moritz von Unger, Lisa Beers, Leah Glass

***A case for a UK Saltmarsh Carbon Code: Evidence, Intervention, and Investment***

A Burden, M Reed, A Hipkiss, T McGrath, M Skov, W Austin, R Fitton, C Mahon, C Evans, A Garbutt, H Rudman, K Born, N Pontee, R Field

**15:30 Discussion & Closing Remarks**

**16:00 Posters & Drinks Reception**

**17:00 Close of Meeting**