

B25C - Coastal Wetland Carbon and Nitrogen Cycles: Recent Advances in Measurements, Modeling, and Syntheses II Poster

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0	Tuesday, 14 December 2021 17:00 - 19:00 Convention Center - Poster Hall, D-F
sedime focus o process regulate Our abi at the ladiscuss climate	marshes, mangroves, and seagrass sequester significant amounts of "blue carbon" in soils, ints, and biomass. They have potential as a negative emissions technology. With the increasing policy in climate change mitigation, we need to understand and accurately predict wetland carbon items. Complex interactions of climate, land use, sea level, nitrogen pollution, and human management is the strength of the carbon sink and the greenhouse gas balance (including CO2, CH4, and N2O). It is to measure and model vertical and lateral exchanges, as well as the soil and sediment processes, and-ocean interface is limited. We aim to bring together researchers from various disciplines to coastal carbon and nitrogen pools and fluxes, and their roles in global biogeochemical cycling and change mitigation. We also aim to report advances in eddy flux, lateral flux, field experiments, remote, modeling, and synthesis that support coastal wetland carbon accounting.
Туре	
Poster	
Index	Terms
Ask a	question or comment on this session (not intended for technical support questions).
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21 Papers

B25C-1453

The Mangrove Microbiome—Bacterial underpinning of blue carbon storage on the south coast of China Sean Crowe



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B25C-1454

Variations in Sedimentary Microbial Communities and Biogeochemical Cycles Along Natural Salinity Gradients in Pristine Versus Impacted Tidal Rivers

Aaron Martinez



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B25C-1455

Mangroves at the Edge: Water and Energy Fluxes in Hot Deserts Tidal Ecosystems of the Arabian Gulf Augustine Nwokoye



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B25C-1456

Carbon dioxide Uptake Fluxes in Coastal Salt Marshes Reveal Ecological Similitudes and **Environmental Regimes**

Mohammed T. Zaki



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B25C-1457

Carbon Flux in a Semi-Arid Mangrove Ecosystem in Magdalena Bay, B.C.S Mexico Josediego Uribe Horta



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B25C-1458

Comparative Vegetation History, Sea Level Change, and Human Impact in Housatonic and Connecticut River Marshes with Linkages to Long Island Sound

Dorothy M Peteet



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B25C-1459

Continuous, Automated CO₂, CH₄, and N₂O Fluxes from Tidal Salt Marsh Soils: A Snapshot Margaret Capooci



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B25C-1460

Digital Hemispherical Photography based LAI estimate detects higher underestimation of Radiative Transfer Model extracted LAI in a mangrove forest site, India

Somnath Paramanik



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B25C-1461

Eco-evolutionary responses of Schoenoplectus americanus carbon sequestration under global environmental change

Helena S Kleiner



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B25C-1462

Estimation of tidal marsh blue carbon storage using lidar-derived geomorphic tools Bonnie Turek



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Hot Spots and Hot Moments of Wetland Methane Emissions in the San Francisco Bay - Sacramento San Joaquin River Delta: Detection and Prediction with a Data-Driven Model Gracie Pearsall



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B25C-1464

Investigating CO₂ and CH₄ Fluxes Across a Heterogeneous Restored Tidal Salt Marsh in the South San Francisco Bay, California, Using Eddy Covariance, Chamber, and Porewater Measurements Julie Shahan



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B25C-1465

Methane and Carbon Dioxide Fluxes in a Temperate Salt Marsh: Comparisons Between Plot, **Ecosystem and Component Measurements**

Andrew Hill



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B25C-1466

Methane and Nitrous Oxide Emissions to the Atmosphere are Low from Two Temperate Seagrass **Dominated Ecosystems**

Alia Al-Haj



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B25C-1467

Organic Carbon Burial in Mangrove-Salt Marsh Ecotones of Apalachicola Bay, Florida: the Role of Reactive Iron

Prakhin Assavapanuvat



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B25C-1468

Present-day organic carbon accumulation rates in the Louisiana coastal wetlands Jose Silvestre



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B25C-1469

Quantifying Potential Coastal Carbon Sinks of Louisiana's Habitats Bingqing Liu



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B25C-1470

Representing coastal wetland vegetation responses to salinity in Earth system models Sophia LaFond-Hudson



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B25C-1471

Response of organic matter to short-term failure of monsoon: An insight into the carbon and nitrogen cycle in a hypersaline lagoon.

Santrupta Samantaray



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B25C-1472

Seagrass Blue Carbon Mapping using Open Sentinel-2 Data and Cloud Computing in support of the Nationally Determined Contributions of The Bahamas

Alina Blume



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B25C-1473

Spatial and Vertical Patterns of Soil Organic Matter in the Salt Marshes of the Venice Lagoon (Italy) Alice Puppin



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Category: Biogeochemistry (terrestrial and marine)

Section: Biogeosciences

Neighborhoods: 3. Earth Covering

Type: Poster

Cross-Listed: H - Hydrology

Cross-Listed: GH - GeoHealth

Cross-Listed: GC - Global Environmental Change

Cross-Listed: A - Atmospheric Sciences

