

## Agenda: OCB Workshop, Lateral Carbon Fluxes in Tidal Wetlands

Location, Tilley Conference Room, USGS Gosnold Building, WHOI Quissett Campus

### Tuesday August 21, 2018.

7:45 to 8:30	Shuttle and cars from Inn on the Square to Gosnold Building	
8:00	Breakfast at conference room	
8:45	Conference starts	
8:45 - 9:15	Introduction, Background, and Charge	K. Kroeger
9:20 - 10:15	Conceptual models of lateral flux: Sources, processes, transport DIC, DOC production Porewater exchange Particles both biological and mineral	All
10:15 - 10:30	Break	
10:30 – 11:00	Predictors and Drivers: Arriving at a realistic scaling approach Predicting rates of production and exchange How can we develop and test predictions?	All
11:00 – 12:00	C Source: Data on Stocks, Productivity and Respiration Model estimates Discussion	L. Windham-Myers R. Feagin All
12:00	Lunch	
1:00 – 2:30	Measuring lateral fluxes: Flow x Concentration [Hydrodynamics, closing a water budget Contributing marsh area] Additional approaches to water budgets, contributing area High frequency concentrations	N. Ganju  B. Bergamaschi A. Wang, A. Menendez
2:30 – 2:45	Break	
2:45 – 4:40	Additional modeling approach Porewater exchange approaches Sediment fluxes Organic particle fluxes	C. Osburn C. Tobias N. Ganju M. Tzortziou

	Alternative approaches: Are simplifications possible? Can lower frequency data serve as part of calibration data set?	All
4:40	Identification of discussion and data analysis topics, hypothesis testing for Day 2. What data processing and analysis needed to enable testing of hypotheses? If we can't test, what are the barriers?	
5:00	End Day 1	
5-5:15	Cars Gosnold to Landfall Restaurant, Woods Hole	
5-5:15	Shuttle Gosnold to Inn on the Square (if requested)	
6:00	Shuttle Inn to Landfall (if requested)	
5:30	Drinks, mingling Landfall	
6:30	Dinner Landfall	
7:30	JAWS!	
8:00+	Shuttle/cars Landfall to Inn	

### Wednesday August 22, 2018

7:45 to 8:30	Shuttle/cars from Inn on the Square to Gosnold Building
8:00	Breakfast at conference room
8:45	Conference starts
8:45 – 9:15	Summary of Day 1 Completion of any topics, new comments to add
9:15 – 9:30	Organizing breakout groups and objectives Preliminary groups: <ul style="list-style-type: none"> <li>1. Predictions/mapping of C cycle rates (Productivity, Respiration)</li> <li>2. Developing comparable lateral flux data across studies</li> <li>3. Mapping features that predict aquatic/porewater exchange</li> </ul>
9:30 – 12:00	Breakout groups
12:00	Lunch
1:00	Direct comparisons of Vertical and Lateral flux <ul style="list-style-type: none"> <li>▪ Timeseries comparisons</li> <li>▪ Seasonal or annual comparisons</li> </ul>

Net Ecosystem Carbon Balance

- Seasonal or annual budgets, including NEE, net storage, and lateral flux
- Can we make sense of the results?

Comparison of LF across gradients of aquatic exchange rate

5:00 End Day 2

5-5:15 Shuttle/cars Gosnold to Inn on the Square

\*Dinner on own

**Thursday August 23, 2018**

7:45 to 8:30 Shuttle and/or cars from Inn on the Square to Gosnold Building

8:00 Breakfast at conference room

8:45 Conference starts

Continued data analysis  
Planning further analyses  
Outlining report, manuscripts

12:00 Lunch/Conference End

11:00 to 1:00 Shuttle available Gosnold to Inn on the Square and Bus Depot