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Publications

PUBLICATIONS

- **Fate of methane in canals draining tropical peatlands.** *Nature communications*
  Perryman, C. R., Bowen, J. C., Shahan, J., Silviani P A B, D., Dayanti, E., Andriyani, Y., Asyhari, A., Gangga, A., Novita, N., Anshari, G. Z., Hoyt, A. M.
  2024; 15 (1): 9766

- **Controls on spatial variation in porewater methane concentrations across United States tidal wetlands.** *The Science of the total environment*
  Koontz, E. L., Parker, S. M., Stearns, A. E., Roberts, B. J., Young, C. M., Windham-Myers, L., Oikawa, P. Y., Megonigal, J. P., Noyce, G. L., Buskey, E. J., Derby, R. K., Dunn, R. P., Ferner, et al
  2024: 177290

- **A New Coupled Biogeochemical Modeling Approach Provides Accurate Predictions of Methane and Carbon Dioxide Fluxes Across Diverse Tidal Wetlands** *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES*
  Oikawa, P. Y., Sihi, D., Forbrich, I., Fluet-Chouinard, E., Najarro, M., Thomas, O., Shahan, J., Arias-Ortiz, A., Russell, S., Knox, S. H., Mcnicol, G., Wolfe, J., Windham-Myers, et al
  2024; 129 (10)

- **Methane fluxes in tidal marshes of the conterminous United States.** *Global change biology*
  Arias-Ortiz, A., Wolfe, J., Bridgham, S. D., Knox, S., McNicol, G., Needelman, B. A., Shahan, J., Stuart-Haëntjens, E. J., Windham-Myers, L., Oikawa, P. Y., Baldocchi, D. D., Caplan, J. S., Capooci, et al
  2024; 30 (9): e17462

- **On the Relationship Between Aquatic CO2 Concentration and Ecosystem Fluxes in Some of the World's Key Wetland Types (vol 44, 1, 2023)** *WETLANDS*
  Richardson, J. L., Desai, A. R., Thom, J., Lindgren, K., Laudon, H., Peichl, M., Nilsson, M., Campeau, A., Jarveoja, J., Hawman, P., Mishra, D. R., Smith, D., D'Acunha, et al
  2024; 44 (6)

- **On the Relationship Between Aquatic CO₂ Concentration and Ecosystem Fluxes in Some of the World's Key Wetland Types** *WETLANDS*
  Richardson, J. L., Desai, A. R., Thom, J., Lindgren, K., Laudon, H., Peichl, M., Nilsson, M., Campeau, A., Jarveoja, J., Hawman, P., Mishra, D. R., Smith, D., D'Acunha, et al
  2024; 44 (1)

- **Combining Eddy Covariance and Chamber Methods to Better Constrain CO₂ and CH₄ Fluxes Across a Heterogeneous Restored Tidal Wetland** *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES*
  Shahan, J., Chu, H., Windham-Myers, L., Matsumura, M., Carlin, J., Eichelmann, E., Stuart-Haentjens, E., Bergamaschi, B., Nakatsuka, K., Sturtevant, C., Oikawa, P.
  2022; 127 (9)

- **Tidal and Nontidal Marsh Restoration: A Trade-Off Between Carbon Sequestration, Methane Emissions, and Soil Accretion** *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES*
  Arias-Ortiz, A., Oikawa, P. Y., Carlin, J., Masque, P., Shahan, J., Kanneg, S., Paytan, A., Baldocchi, D. D.
  2021; 126 (12)

- **The Potential of Satellite Remote Sensing Time Series to Uncover Wetland Phenology under Unique Challenges of Tidal Setting** *REMOTE SENSING*
  Miller, G., Dronova, I., Oikawa, P. Y., Knox, S., Windham-Myers, L., Shahan, J., Stuart-Haentjens, E.

2021; 13 (18)