

2024 NASA Virtual OBB All Hands Meeting

3 and 5 December 2024

Connection

Tuesday, 3 December

Teams: [Join the meeting now](#)

Meeting ID: 288 898 594 315

Passcode: 7SCmFN

Dial in by phone: [+1 256-715-9946,,394928416#](#) United States

Phone conference ID: 394 928 416#

Thursday, 5 December

Teams: [Join the meeting now](#)

Meeting ID: 269 201 097 204

Passcode: 2JSQUg

Dial in by phone: [+1 256-715-9946,,630784393#](#) United States

Phone conference ID: 630 784 393#

TUES – 3 Dec. 2024

NASA OBB/ESD Update

1:00-1:40pm Welcome/Program Update for NASA Ocean Biology & Biogeochemistry/Flight mission update/Q&A – **L. Lorenzoni, K. Bisson**/NASA Headquarters

Ocean Biology and Biogeochemistry: Our Science I

1:40-3:00pm Flash Talks (7 minutes each)

1. Seasonality in marine organic carbon export and sequestration pathways – **R. Li**/UCSB
2. The NASA BlueFlux-II campaign: quantifying carbon fluxes along the blue carbon land-ocean-aquatic continuum – **B. Poulter**/GSFC
3. Mapping coastal wetland changes from 1985 to 2022 in the US Atlantic and Gulf Coasts and Estimating Lateral Carbon Fluxes – **C. DiVittorio**/WFU
4. Photobleaching as a major sink of Chromophoric Dissolved Organic Matter (CDOM) in the Global Ocean– **C. Fichot**/BU
5. Tracking Post-Wildfire Sediment Dynamics and Marine Ecosystem Stress: Insights from Legacy and Modern Satellite Missions – **L. Berberian**/UC Merced
6. Seasonal re-entrainment of respired organic matter decouples surface and annual net community production in the Southern Ocean – **S. McClish**/UH
7. Evolution of sediment-derived CDOM upon fluxing to a river-dominated coastal water column – **J. Beckler**/FAU

8. Scale-dependent drivers of air-sea CO₂ flux variability using the ECCO-Darwin model – **A. Fay**/LDEO
9. Fish from space: Remote sensing sheds light on the dynamics of mid-trophic levels in the California Current – **J. Guiet**/UCLA
10. Impact of Pacific Ocean Heatwaves on Phytoplankton Communities and Export Production – **L. Arteaga**/UMBC
11. Integrating Phytoplankton Genomics and Remote Sensing to Detect Iron Stress from Space – **A. Munro**/UCI

THURS - 5 Dec. 2024

NASA Ocean Biology Processing Group Updates

1:00-1:20 NASA Ocean Biology Processing Group Update, Field Program Support Group Update, SeaBASS – **B. Franz, A. Mannino, C. Proctor**/NASA GSFC

NASA Headquarters Update

1:20-1:50 – NASA updates/ROSES/Opportunities/Q&A **L. Lorenzoni, K. Bisson**/NASA Headquarters

Ocean Biology and Biogeochemistry: Our Science II

1:50-3:00pm Flash Talks (7 minutes each)

1. The relationship between global kelp forest dynamics and climate modes – **T. Bell**/WHOI
2. Mapping marine debris and other floating matters using satellite observations: what's really possible and how? – **C. Hu**/USF
3. Linking Chemical Composition of Untreated Wastewater in Estuarine and Coastal Waters with Laboratory, In Situ, and EMIT Spaceborne Spectroscopy – **E. Scrivner**/SDSU
4. Coastal Vulnerability in the Face of Increasing Wildfires: A Land-sea Perspective Integrating Physical, Biological, and Socioeconomic Factors – **A. Lopez**/UC Merced
5. How have Florida's red tides changed over the past 40 years? Bridging CZCS to MODIS observations – **Y. Yao**/USF
6. Observed anthropogenic carbon changes in Subantarctic Mode Water: From formation regions to interior pathways – **D. König**/UH
7. Aquaverse: An Aquatic Inversion Scheme for Remote Sensing of Fresh and Coastal Waters – **R. O'Shea**/GSFC
8. Using domain adaptation to improve chlorophyll-a predictions from optical remote sensing data – **A. Saranathan**/GSFC
9. Phytoplankton communities quantified from hyperspectral ocean reflectance correspond to pigment-based communities - **S. Kramer**/MBARI
10. Seasonal variability of surface ocean carbon uptake and surface chlorophyll-a concentration in the West Antarctic Peninsula – **J. Turner**/ODU