**Gulf of Maine HAB Symposium: Science and Management**

**Tuesday, March 10, 2020**

**New Hampshire Department of Environmental Services Pease Field Office**

**222 International Dr #175, Portsmouth, NH 03801**

**8:00 Continental Breakfast**

8:30 Motyka Overview of facility, A/V, logistics

8:35 Anderson / Welcome & Introduction, Meeting Objectives, WHCOHH Overview

 Brosnahan

8:45 Dortch /Suddleson NOAA Program Update

**9:00**  **Regional Perspective (2019 retrospective and 2020 monitoring plans)**

 Kanwit/Lewis Spatial and temporal patterns of HABs and toxicity in ME

 Nash Spatial and temporal patterns of HABs and toxicity in NH

 Schroeder Phytoplankton monitoring in NH

 O’Neil /Petitpas Spatial and temporal patterns of HABs and toxicity in MA

 Libby MWRA survey results

 Borkman/Liberti Spatial and temporal patterns of HABs and toxicity in RI

 Tarr/Rourke/Smith Update from CFIA

 **Discussion/Synthesis**

10:00 **Break**

**10:15 Regional Research in 2019**

 Hubbard *Pseudo-nitzschia* in the GOM (title TBD)

 Keafer Early warning of shellfish toxicity along the eastern Maine coast using Environmental Sample Processors (ESPs): evaluation of the "Leaky Gyre" Hypothesis

 Archer Toxin composition as a predictive tool

 Townsend A new hypothesis to explain unusual distributions and transport of *A. catenella* in the NE Gulf of Maine in 2019 in relation to changes in the Jordan Basin gyre.

**11:15 Projects and plans**

Vallee Spring Flood Potential & New Hydrologic Services

Smith/Deeds ECOHAB DSP regional project, overview and plans Brosnahan/Richlen Introduction to HABON-NE, WHOI HAB Hub and related initiatives

 Discussion

**12:00 Lunch (provided)**

1:00 **Forecasting**

 Anderson 2019 cyst observations, empirical forecast for 2020

 Stumpf/Li The Gulf of Maine *Alexandrium catenella* 2019 hindcast and outlook for 2020 bloom season

**1:30** Open Discussion: Regional research and manager needs/plans

**2:05 Invited Science Talks (15 min each)**

 Pershing Gulf of Maine Climate Change Impacts and Projections

 Clark <https://hab.whoi.edu/maps/regions-us-distribution/>

2:30 **Break**

2:45 Gallager Real-Time Detection and Classification of Marine and Freshwater

 HABs and Their Toxins Using HABStats, an Imaging Raman Flow

 Cytometer

 Aluru Neurobehavioral consequences of domoic acid exposure during

 early development

 Brosnahan *Alexandrium* phenology and biogeography response to climate change

3:45 **Wrap-up**

**4:00** **Adjourn**