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EPA Region 9 HABs In-Person Meeting Presented in Collaboration with California's Surface Water Ambient Monitoring Program (SWAMP)

April 25 – 27, 2017

Agenda

Day 1 – Tuesday, April 25, 2017

Marine and Coastal HABs		
Time (PDT)	Presentation Title	Presenter
12:00 - 1:00 pm	Registration	EPA
1:00 - 1:20 pm	Welcome and Opening Remarks	Sue Keydel, EPA, & Meredith Howard, SCCWRP
1:20 - 2:00 pm	Overview of Marine and Freshwater HABs - Droughts, Blooms, Warm Blobs, and Other Anomalies in the Eastern Pacific	Raphael Kudela, University of California, Santa Cruz
2:00 - 2:30 pm	Impacts of HABs on Fish and Shellfish Harvest	Vera Trainer, NOAA (presenting via Webinar)
2:30 - 3:00 pm	NOAA HABs Research and Infrastructure (ECOHAB, MERHAB and PCMHAB)	Marc Suddleson, NOAA
3:00 - 3:20 pm	Q&A and Open Discussion	EPA
3:20 - 3:35 pm	Break	
3:35 - 4:05 pm	Forecasting HABs in the Coastal Zone: Are we there yet?	Clarissa Anderson, University of California, San Diego
4:05 - 4:35 pm	Remote Sensing and Forecasting Systems in Marine and Great Lakes	Richard Stumpf, NOAA
4:35 - 5:00 pm	Q&A and Open Discussion on Marine and Coastal Issues	EPA
5:00 pm	Overview of Day 2 and Adjourn	
5:00 pm	Networking opportunity	

Day 2 – Wednesday, April 26, 2017

Freshwater HABs Overview		
Time (PDT)	Presentation Title	Speaker
8:00 - 8:15 am	Registration	EPA
8:15 - 8:40 am	Introduction	EPA
8:40 - 9:10 am	The Ultimate Challenge: Mitigating harmful cyanobacterial blooms in a world experiencing human nutrient enrichment and climatic change	Hans Paerl, University of North Carolina
9:10 - 9:30 am	Temporal and Geographic Progression of <i>Prymnesium</i> (the 'Golden Alga') in the Southwestern United States	Dave Caron, University of Southern California
9:30 - 9:55 am	Q&A and Facilitated Discussion	EPA
9:55 - 10:10 am	Break	
States and Tribes HABs Experience and Efforts		
10:10 - 10:30 am	Utah's Efforts to Address Harmful Algal Blooms	Ben Holcomb, Utah Department of Environmental Quality
10:30 - 10:50 am	Washington's Anatoxin-a Experience	Joan Hardy, formerly with Washington Dept. of Health
10:50 - 11:20 am	Ohio EPA HAB Response and Lessons Learned	Heather Raymond, Ohio EPA (presenting via Webinar)
11:20 - 12:00 pm	Q&A and Facilitated Discussion – What is blooming & where – species, toxins, concentrations, locations	EPA
12:00 - 1:00 pm	Lunch	

Surface Water Blooms Monitoring		
1:00 - 1:20 pm	Guidelines for Design and Sampling of Cyanobacterial Toxin and Taste-and-Odor Studies	Jennifer Graham, U.S. Geological Survey (presenting via Webinar)
1:20 - 1:45 pm	Using Citizen Science to Monitor HABs	Jennifer Maucher, NOAA
1:45 - 2:05 pm	An Approach to Educating, Monitoring, and Managing Harmful Algal Blooms	Hilary Snook, U.S. EPA Region 1 (presenting via Webinar)
2:05 - 2:30 pm	Q&A and Facilitated Discussion on Surface Water Bloom Monitoring	EPA
2:30 - 2:45 pm	Break	

2:45 - 3:10 pm	New HAB Monitoring and Assessment Techniques and Tools	Meredith Howard, Southern California Coastal Water Research Project
3:10 - 3:40 pm	Freshwater Harmful Algal Blooms in California and the Surface Water Ambient Monitoring Program's Statewide Assessment and Support Strategy	Katharine Carter, North Coast Regional Water Quality Control Board
3:40 - 4:00 pm	Cyanobacteria and Citizens in the Eel River, Northern California	Keith Bouma-Gregson, University of California, Berkeley (presenting via Webinar)
4:00 - 4:20 pm	Applications of Remote Sensing & Satellite Data: Initial observations from 800 kilometers above California	Richard Stumpf, NOAA & Randy Turner, SFEI
4:20 - 4:50 pm	Q&A and Facilitated Discussion - Surface Water Bloom Monitoring	EPA
4:50 - 5:00 pm	Wrap-up and Adjourn	
5:00 pm	Networking opportunity	

Day 3 – Thursday, April 27, 2017

Management and Mitigation		
Time (PDT)	Presentation Title	Speaker
8:30 - 8:40 am	Welcome and Recap	Meredith Howard, SCCWRP
8:40 - 9:15 am	Waterbody Management Approaches for HABs	Mario Sengco, U.S. EPA (presenting via webinar)
9:15 - 9:35 am	Application of DNA-based Tools for Algal Bloom Monitoring	Tim Otten, Bend Genetics, LLC
9:35 - 9:50 am	Q&A and Facilitated Discussion	SCCWRP
9:50 - 10:05 am	Break	
10:05 - 10:35 am	Managing Cyanobacteria in the East Bay Regional Park District	Hal MacLean, East Bay Regional District
10:35 - 10:55 am	From Green to Clean: Restoring Pinto Lake	Jackie McCloud, City of Watsonville, CA
10:55 - 11:15 am	One Size Does Not Fit All: Choosing an Appropriate Remediation and Management Approach for Water Quality	David Caron, University of Southern California
11:15 - 11:35 am	Permitting Requirements for Algae and Aquatic Weed Control	Philip Isorena, California State Water Resources Control Board
11:35 am - 12:00 pm	Open Discussion on Waterbody Management Approaches	SCCWRP
12:00 - 1:30 pm	Lunch – Optional working lunch: Basic Cyanobacteria ID with Microscopes	Jennifer Maucher, NOAA

Source Water Protection and Drinking Water Management		
1:30 - 1:40 pm	Introduction	EPA
1:40 - 2:10 pm	Preventing HABs at the Source: Tools and strategies for effective source water protection	Bo Williams, U.S. EPA
2:10 - 2:40 pm	U.S. EPA's Support Tools for Managing the Risks of Cyanotoxins in Drinking Water	Hannah Holsinger, U.S. EPA
2:40 - 2:55 pm	Break	
2:55 - 3:15 pm	Developing a Cyanotoxin Management Plan - Case Study: Highlands Mutual Water Company	Amy Little, California State Water Resources Control Board
3:15 - 3:40 pm	HABs-Impacted Water Treatment in Full-Scale Practice: A comprehensive performance evaluation approach to optimization	Tom Waters, U.S. EPA (presenting via webinar)
3:40 - 4:30 pm	Open Discussion on Drinking Water Management and Source Water Protection	EPA
4:30 - 4:45 pm	Wrap up and closing thoughts	EPA and SCCWRP

Questions

For additional information about logistics, please contact either Susan Keydel, U.S. Environmental Protection Agency, or Meredith Howard, Southern California Coastal Water Research Project.

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