**November 15, 2023**

**HAB Liaison Advisory Committee Meeting**

**Minutes**

**Purpose:** AC meeting is a structure for keeping partners informed and opportunity to obtain guidance for the coming year

1. Welcome & Roll Call – Sherry L.
   1. NCCOS - Shelly
   2. NOAA CoastWatch - Melanie
   3. Nation Sea Grant - Chris
   4. New York – Antoinette
   5. Ohio - Chris
   6. Michigan - Heather
   7. Mississippi-Alabama -Steve, LaDon
   8. Texas – NIA (not in attendance)
   9. Louisiana - Julie
   10. Washington - Katie
   11. Maryland – NIA (at CERF)
   12. MARACOOS - NIA
   13. GCOOS - Barb
   14. GLOS - Ana
   15. SECOORA - Natalie
   16. SCCOOS – NIA (returning from int’l HAB meeting, Japan)
   17. NANOOS - NIA
2. Looking Back – Review of last year highlights – Betty S. - <https://www.flseagrant.org/research/noaa-hab-liaison-project/>
3. Looking Up
   1. National
      1. Federal Partner Updates
         1. Shelly T. (NOS - NCCOS): this position has led to further engagement in the NE and especially with NMFS regarding aquaculture, the Chesapeake workshop was a success (discussed briefly), and an identification of the need for further interaction with IOOS
         2. Melanie A. (NESDIS – NOAA CoastWatch): this position has helped with workshops (Blue-Green Algae SOS and oceanography), CW Trainings, and identification of needed capacity for more trainings, especially with regard to aquaculture, IWA, and SFA
      2. Liaison Updates – Chris P. (National Sea Grant): discussed need for all liaison positions to be formally evaluated next spring. In the quarterly liaison meeting that followed, Chris elaborated that the process is unclear at this point but the review could entail a meeting similar to the one held Nov. 15th. More information will be forthcoming but plan is to evaluate for success and continued feasibly, although all will need to be official competitions, which will take time.
4. Looking Around (Current Hot Issues)
   1. State & Regional
      1. Time for folks to discuss needs/opportunities related to project.
      2. NY – Freshwater - Fellow 10-week training program for under-represented communities, 1st time to offer a CEI in that area. Trained to use microscope for phytoplankton, develop education videos. Marine District – BloomOptix (private – diagnostic tool (AI) – goal to bring from FW to Marine. Gives results in real-time. – Train AI by developing partner (loaner equipment). Next step – schedule training in spring. Trying to engage other researchers (Chris Gobler). Connect with DEC FW systems on Long Island. Planning SG Mid-Atlantic Region biannual meeting – April 23-25, 2024, in Virginia Beach, VA. Session that highlights AI advancements as it related to extension.
      3. OH – asked to participate in NCCOS program review of HABHRCA. If there’s anything that he can elevate up let him know. Optimistic that they will get an NIH extension and if that happens, they will be hiring an extension coordinator. GLOS is under new leadership and looking for input.
      4. MI – Leadership transition, started facilitating HABs partners meetings in the state, planning for a larger meeting in March 2024, would be interesting to see how rec and charter fishers use the CW data (website transferred to CW GLERL)
      5. MSAL – We have HABs and hope you all can fix. Kind of sporadic and a problem for tourism and fishing. Outreach – do work with oyster farming and did a workshop just last week. Food quality for oysters using optics which will catch if HABs are popping up. Have been able to link HABs as a water quality issue to oyster farming using some DWH$. Still need better predictors in the GOM.
      6. GCOOS – received directed funding for AL and Dolphin Island Sea Lab received 2 IFCBs. GCOOS is building an IFCB portal for the GOM. Texas did have a Karenia brevis bloom (1st since 2018). NCCOS put out respiratory forecast. Bloom didn’t last long – good demonstration that we had ducks in a row… ready for intense bloom.
      7. LA – Revived visiting chair position thru SG – this semester inland HABs position – how salinity and light play a role in longevity. More inland that is an issue. Have two new specialists, fisheries and water quality. Is a problem but a lot more needs to be done. Noted the challenge of predication modeling given the vast differences between HABs regionally.
      8. WA – Teri King retired recently and taken new position as WA/OR coordinator for NOAA fisheries. She was resident HABs expert for many years. Partnered with NOAA on SoundToxins. Michelle L. – water quality specialist has taken over lead. Are working on figuring out how to replace Teri’s capacity.
      9. GLOS – Pilot project funded thru IOOS started in 2020 – lots of partners – ESPs this summer integrate surface vehicle, also being tested automonous system that uses neural networks to try to ID phytoplankton. Lake Michigan – Green Bay – working with UWis to characterize cyano species and toxins. GLOS beginning to integrate datastream into a platform. In regards to HaBHRCa – IOOS has put together information. Note that Ana S. is leaving, will need to identify a replacement.
5. Looking Forward
   1. Supporting Research Projects - DinoShield
      1. NCCOS, UDel & ACOE
      2. Stakeholder engagement
         1. Workshop in spring 2024
         2. Edu videos
   2. Internal Communications - HABchats
      1. Evaluation for future direction
   3. Meetings/Presentations –
      1. NCCOS HABs & Hypoxia Review
      2. GOMCON
   4. Brainstorm Products
      1. Announcement of HABchats in Sea Grant Newsletter
      2. Glossy flyer, etc. – Low burden - highlight document of SG investment/involvement in HABs (IWG) - <https://uflorida-my.sharepoint.com/:p:/g/personal/staugler_ufl_edu/EWhuFQO6cxtHj3BWN1NHKX4BHJzSamMIGw-11ZFEZSq44g?e=hgFfjU>

<https://uflorida-my.sharepoint.com/:p:/g/personal/staugler_ufl_edu/EQHR8muPPjZDih6qGO17H38Bs6RLixvQamLJLZA54GF0TA?e=avUWpX>

* + 1. Map or listing of HAB interested SGers – Haylee Meltzer, Map
    2. Evaluate NCCOS products website (usability/usefulness)

1. Heather/MI – Need – Algae is important but too much becomes a nuisance – trying to communicate the complexity – important roles. Trying to figure out how to communicate around that. Tool in state – trying to engage agencies if there is any input in how the tool is used. Which are the tools that people actually use.
2. Steve/MSAL – Sample surveys – Monica from NCEI websites. Practical guide for what can you do when a HAB occurs what Sea Grant staff could do from research, extension, education.

Follow up: Steve sent Betty examples, Betty sent a draft to Steve for review. Awaiting feedback.

1. Antoinette/NY – a few years ago the national effort to do a rip current campaign – do something similar but more targeted to social media and in multiple languages. NY DEC when they close the beaches the just do without any additional information. Telling story SG investment – w/ American Lobster doing Story Map to project a visual. Can control content and not make too wordy. (Heather/MI): remember to consider what languages for surveys

Follow up: Antoinette and Ana exchanged emails; Antoinette and Shelly seemed to get a lot of ideas and Shelly and Betty have discussed NY’s interest in A.I., LaDon’s interest in predictions, and Terry’s new position during their biweekly meeting last Monday.

1. Chris/OH – love story map idea. Recent success with minute long videos (101s) water treatment in HH, where do the blooms come from and how it behaves, and nutrient sources … what is the SG investment in this space – are successful because of partnerships in space.

Follow up: Chris sent the titles of the six videos: HABs, Ice Cover, Climate Change, Hypoxia, Microplastics, and Water Levels.

1. LaDon/MSAL – should be easier to query going forward (sub-projects and how many people are working on them)

https://www.flseagrant.org/research/noaa-hab-liaison-project/

**Chat**

LaDon Swann - MASGC to Everyone 4:02 PM

Our state agencies do a pretty good job monitoring and issuing advisories. They is still room to improve submitting their data to others.

Antoinette Clemetson to Everyone 4:09 PM

Ana - I'll contact you under separate cover for additional info about this technology. Thanks

Shelly Tomlinson to Everyone 4:10 PM

@LaDon Swann - MASGC just curious what your need is for prediction? Short-term forecasts, longer term seasonal? The Karenia respiratory forecast is set up to work along the entire US Gulf, so would be good to have a better idea of what your looking for here.

LaDon Swann - MASGC to Everyone 4:01 PM

Barb, Look forward to hearing more about what you mentioned. I am curious how the site differs from: https://www.ncei.noaa.gov/products/harmful-algal-blooms-observing-system

Barbara Kirkpatrick 4:03 PM

We will invite you to the ribbon cutting. But HABSOS only takes in traditional microscopy counts- not IFCB data.

LaDon Swann - MASGC 4:10 PM

Thanks Barb, I wonder if state agencies will use the DISL data instead of their data when decisions are made regarding advisories or closures.

Barbara Kirkpatrick 4:10 PM

I am sure it will take time!

LaDon Swann - MASGC to Everyone 4:11 PM

Look forward to that discussion. Some of this involves engagement with local communities about the resources available to them.

Barbara Kirkpatrick 4:12 PM

We can use you help!

Chris Winslow\_OSU Stone Lab/Ohio Sea Grant to Everyone 4:19 PM

https://iaglr.org/iaglr2024/

LaDon Swann - MASGC to Everyone 4:25 PM

When I Googled HABs gateway I got the responses I expected....not so much

Heather Triezenberg to Everyone 4:30 PM

That’s a good suggestion!

Betty, maybe that’s a survey question. What languages to translate into?

Antoinette Clemetson to Everyone 4:36 PM

Here's a link to the American Lobster storymap: https://arcg.is/1bXa5T0