November 7, 2022 Education Working Group Call

Attendees: Abby Lewis, Dexter Howard, Alyssa Willson, Cazimir Kowalski, Olivia Tabares, John Zobitz, Jason McLachlan
Regrets: Anna Sjodin

Agenda/Notes:

1. Updates or Requests for Input
   a. Ethics in Forecasting Project Updates
      i. Abby/Dexter met with Olivia talked about marine forecast module, she is open to have help and Dexter will help with that
      ii. Cazimir and Jason looked over it and Caz is working on revisions and will run by labmates this week to have a draft ready by the end of the week
         ● In the two groups (SKC and GA) that we have talked to about incorporating Indigenous values there was strong representation of Indigenous people.
         ● Imagine who the readership and who will be likely to adopt it which changes the framing of the problem. How do you accommodate cultural values and data sovereignty when working with Indigenous communities, btu doesn't presuppose what those values are.
         ● This makes a slight shift in the goal of the module. Will be useful to have feedback from the group on how it works since it is different from the original development of the module for what it was originally used.
         ● What to do for authorship since Georgia/others were involved?
            ○ Georgia Smies is very busy and is stepping back. She is excited to have this published, but isn't looking for authorship, but we can circle back to her
            ○ Helena Kleiner (ND grad student) worked closely with Georgia so would be good to include
      iii. Abby drafted authorship guidelines
         ● Jason will share this with Helena
         ● And this can be useful as the group thinks about coauthorship
      iv. Reaching out to editor - we talked about this before
         ● Should we wait until we see Caz/Jason's drafted module?
         ● Abby will wait until the end of the week
      v. Abby will reach out to Justin Welbergen about flying foxes. Justin presented at the Oceania Chapter community meeting recently
   b. Olivia's Population Ecology Class
      i. How did it go?

- Class went well but balancing time between the different subjects has been challenging. Olivia hopes to increase the R literacy of the students in the class without compromising theory.
- There is a similar dynamic in Jason's forecasting class

    ii. Ecological Society of America Latin American and Caribbean Chapter symposium "We are stronger together: Building community to face barriers for Latin American and underrepresented ecologists"
- Olivia is helping to coordinate this symposium
- She would like to present about the ethics in forecasting fisheries module and how context and different stakeholders are involved with an emphasis on native/underrepresented folks
- It would be for next year's ESA, but the Symposium calls go out soon
- Enthusiastic about supporting this and can use info/examples from across EFI
- Could use info from Alyssa's paper for context - so far culturally relevant pedagogy
- Want to seriously listen to people to learn about barriers
- How to overcome the barriers. There have been efforts that have gotten us to a certain point, but what can we do further.
- Chapter is frustrated that ESA says it is working on DEI, but ran into issues for that. The Chapter tried to bring in people from other countries for ESA 2022, but ended up not having the funding to support travel to Montreal so only had one white women from Canada that spoke.
- Continue to talk to the TEK group since they face similar barriers.

c. Macrosystems EDDIE

    i. GLEON presentation on Macrosystems EDDIE and NEON Forecasting Challenge aquatics forecasts

    ii. Working on a more robust way to save process of the modules so students can come back to where they left off. This would be nontrivial updates for the Shiny app

    iii. Sensing the Earth: Tribal College Faculty Data Science Experience Presentation about the EDDIE modules
- Overview of the modules and then walk through a module

    iv. Jody is also planning to give a presentation providing an overview of EFI

    v. How to tailor for both EDDIE and EFI?
- TCUs are variable
- Don't give the whole overview of everything available. Make an ad to show how it can help Indigenous communities

- ● Here are problems or challenges that the environment poses to Native communities, here is how forecasting can be useful in terms of monitoring and understanding and incorporating TEK
- ● Collaborative way to take knowledge people already have and provide power for Indigenous communities.
- ● The existing tools are general, but have a real interest in working to develop modules that would frame things in specific context that would be more important to the communities
- ● We've been working with some groups, but want to become useful collaborators
- ● Forecasting is new so
- ● Move from the broader goal of forecasting, to the specific needs of students and instructors which is the ground work for stepping up activities. The pieces can add up (e.g., Alyssa's
- ● The goal is to get us to understand where the communities are coming from so we can be useful to make tools useful

d. Other potential updates – the following individuals were not available for today's call
  i. Gerbrand updates
  ii. Anna - Forecasting, Prediction, Projection Vocabulary Manuscript
  iii. Antoinette's learning goals and concepts