

Maine Library of Geographic Information Board Meeting
Wednesday, April 19, 2023
10:00 AM to 12:00 Noon

Seat #	Attending	Present/Online	Notes
1	Nicholas Marquis	X	
2	Brian Guerrette	ABSENT	
4	Nate Kane	X	<i>Awaiting re-appointment</i>
5	Vinton Valentine	X	
6	Gregory Copeland	X	
7	Vern Maxfield	ABSENT	
8	Leticia vanVuuren	X	
9	<i>Vacant, Statewide Ass'n of Counties</i>	-	<i>Nomination at Governor's Office</i>
10	Katie Bernhardt	X	<i>Awaiting re-appointment</i>
11	Sarah Haggerty	ABSENT	
12	<i>Vacant, Public Utilities</i>	-	
13	Aaron Weston	X	
14	Patrick Cunningham	X	
15	Mal Carey, Public	X	
16	Maria Jacques	X	<i>Awaiting re-appointment</i>
Staff:			
Claire Kiedrowski, Executive Director		X	
Heather Meserve		ABSENT	
Guests:			
Walt Anderson		X	
Bob Bistras		X	
Judy Colby-George		X	
Kevin Deneault		X	
Jon Giles		X	
Nate Herold		X	

Megan Hess	X	
Rena Kalmon	X	
Tara King	X	
Christopher Lewis	X	
Todd Metzler	X	
Emily Pettit	X	
Jon Rice	X	
Becky Schaffner	X	
David Spencer	X	
Mike White	X	
Clarence Young	X	

1. Roll Call of Members – Leticia vanVuuren
2. Meeting minutes of February 15, 2023 – Leticia vanVuuren
 - a) Motion to approve February 15, 2023 meeting minutes made by Vinton Valentine, second by Aaron Weston.
 - i) Yea: 8 Nay: 0 Abstain: 0
3. Meeting minutes of March 15, 2023 – Leticia vanVuuren
 - a) Motion to approve March 15, 2023 meeting minutes as amended by Gregory Copeland, second by Nate Kane.
 - i) Yea: 8 Nay: 0 Abstain: 0
4. *“High-Resolution Coastal Land Cover: Coastal Change Analysis Program (C-CAP) Overview and Status”* – Nate Herold, Physical Scientist, NOAA Office for Coastal Management
 - a) Presentation with Slide Deck
 - b) Timeline Review:
 - i) 1-meter Impervious, Canopy, and Water: May 2023 (publicly available via NOAA Digital Coast: June)
 - ii) 10-meter Canopy products to UMaine: May 2023 (30-meter publicly available derivatives: June)
 - iii) Full 1-meter C-CAP scheme mapping: September 2023
 - c) Mal Carey
 - i) Can you speak on the degree and range of AI (artificial intelligence) involvement in 1-meter product?
 - (1) Most influential place is in phase 1 products. Products being developed by private company using their own ensemble of AI, which is proprietary, but they meet the specifications that we require.
 - ii) Pastureland – unmowed/mowed or crop land growing/harvested, parking lots with cars vs no cars, etc. How do you determine those things?
 - (1) AI does some of it, then we do manual review and correction as well. Most difficult right now is RVs parked in grassy areas, so they look like buildings. A lot of QA (quality assurance) for this.

- iii) For narrow classifications along water bodies, how do you differentiate when the linear change is very small in one dimension?
 - (1) This is improved with higher resolution.
 - iv) Has anyone raised issue of regulatory use of a product that uses AI?
 - (1) Not sure that it's any different from general concerns that might have been involved with any past landcover efforts.
 - d) Vinton Valentine
 - i) Since the latest versions of C-CAP can't be compared backwards, are there any plans to rework earlier C-CAP data to fit this model, so some time series stuff can be done?
 - (1) The 30-meter and 1-meter products can never be directly compared. Plan to update the 30-meter product one last time, so it becomes historical and can only be used for 2021 and earlier. Hi-res products are being set up so that the first dates are set in 2021, so you'll be able to pull a longer-term time series for change information out. Having both available in the same timeframe, you'll get that common crossover point. As far as older high-resolution products, we may rework some of the older ones.
 - (2) The 2012 Wells 1-meter product?
 - (a) We will rework that dataset.
 - e) Todd Metzler:
 - i) What type of OGC (Open Geospatial Consortium) services will be hosted for these data? What are the end point URLs (Uniform Resource Locator)?
 - (1) We don't have the endpoint URLs yet. We will have both tiled and cached as well as imaged services. To make a clean break between the old high-resolution data and this new stuff, we will not be including this new data in the current services. The new stuff will be in listed as a new service.
- 5. Geospatial Program Committee – Clarence Young, Leticia vanVuuren
 - a) We are currently between orthoimagery and other geospatial acquisition programs.
 - b) If we want to do an ortho project in Spring 2024, we need to start working on the specifications now. We will need a scope plan for stakeholders and consultants in the fall.
 - c) If you would like to be part of the working group, please contact Clarence, Claire, or Leticia.
 - d) The goal is to have the working group in place by the next meeting.
- 6. GeoLibrary budget request to the Legislature – Clarence Young
 - a) General funds requests were staged into supplemental budget process. There is a working session happening as this meeting is happening, so we will look for additional information following the session.
- 7. Timmons Group Messaging Update – Clarence Young
 - a) Shared a pdf of a tri-fold pamphlet that was developed by the group with Timmons.
 - b) Also worked with them to develop a story map.
 - i) Link: <https://storymaps.arcgis.com/stories/df47ce207d634ea2ab49e307517ddc19>
 - c) Mal Carey:
 - i) What communications have gone on with the Governor's climate people?
 - (1) There hasn't really been any since the funding of the carbon mapping project.
- 8. Executive Director's Report – Claire Kiedrowski
 - a) Technical Committee. Formal presentation 2x/year?
 - i) Request from the committee to reduce presentations from quarterly to 1 or 2 times per year. Monitoring would continue, but formal presentation would be reduced to 1 or 2 times.
 - ii) Discussion on at least 2x/year rather than 1. Suggested dates are June/December.
 - b) Current Projects

- i) LiDAR.
 - (1) 2021 MidCoast & DownEast project. It is now publicly available on national websites. The derivative products DEMs and 2' machine-generated contours are to be served by the GeoLibrary's Data Catalog.
 - (a) A data gap between the 2021 and 2017 datasets was found by NRCS Maine. This issue has been brought up with USGS and they are looking into what can be done to resolve this issue.
 - (2) 2022 South Central project. Project is on schedule; final acceptance by USGS is anticipated this summer with public availability in fall 2023.
 - (3) 2023 MidCentral Project. USGS has recommended funding and has upgraded our specifications from Quality Level 2 (QL2) to Quality Level 1 (QL1). This means that our original application (and funding) was for 2 points per square meter (ppsm) but has been upgraded to 8 ppsm, which is a tighter point density. A kick-off meeting of all stakeholders was held in mid-April. Contract paperwork with USGS is complete. A Memorandum of Agreement for funding with The Nature Conservancy is in progress.
- ii) Orthoimagery. All participants in the program have had their data delivered to them on hard drives. The final delivery of all orthoimagery (over 2 terabytes of data) should be shipped to the State this week. Once the State has the orthoimagery data, it will be loaded to the GeoLibrary Data Catalog in the summer 2023.
- iii) Land Cover
 - (1) Nate Herold of NOAA just provided us with an update and schedule on the 1-meter C-CAP Program.
 - (2) University of Maine will provide an update on the forest and carbon mapping projects at our next board meeting. Anticipated schedule is for a fall 2023 deliveries.
- c) Opportunity for USGS Broad Agency Announcement Program for 3DHP (3D Hydrography Program). This program will be modeled after the 3D Elevation Program, with an announcement and presentation in August, then an application period in the fall and finally an award announcement in late December/early January. Like the 3DEP program, this program will have matching funds. NRCS Maine is interested in this program.
 - i) Link: [The 3D National Topography Model Call for Action - Part 1: The 3D Hydrography Program | U.S. Geological Survey \(usgs.gov\)](https://www.usgs.gov/3d-topography-model-call-for-action-part-1)
- d) Board Membership Updates & Changes.
 - i) Governor Appointees – no movement on these individuals
 - (1) Re-appointments for Nate Kane & Maria Jacques
 - (2) New appointment Walter Anderson
 - ii) Senate President
 - (1) Katie Bernhardt re-appointment is in progress.
 - (2) Vern Maxfield, #7, representing Municipal Government, has stepped down from his position as of the last meeting, March 15, 2023. Maine Municipal Association has been contacted for a recommendation.
 - iii) Executive Director. Claire Kiedrowski is a part-time consultant working through an agency for the State of Maine. Her contract expires this June 30th, 2023 and she will not be renewing the contract. She expressed her appreciation for representing the GeoLibrary over the last few years and indicated her willingness to assist the next Executive Director during the transition process.

9. Guest & Board Comments

- a) Vinton Valentine asks for an update on the filling of the Executive Director position. Clarence Young indicated that the State still has the contracting vehicle in place with funds for contracting with a new part-time contractor. This will more than likely be the scenario in the near term with the goal of transitioning the part-time contract position to a full-time State of Maine employee, depending on the approval of the requested GeoLibrary budget to the legislature.

10. Next meeting agenda items

- a) UMaine Land Cover Updates for both Forestry Mapping & Carbon Mapping

11. Adjourn – motion made by Maria Jacques, second b Nate Kane. Adjourned at 11:30 am.