

IFLA PRESENTS

An Evidence for Global and Disaster Health Special Interest Group (E4GDH) and Health and Biosciences Libraries Section (HBS) Joint Webinar



IFLA PRESENTS

Librarians Supporting Humanitarian Information Efforts

A Look at OpenStreetMap Mapping and the Evidence Aid
COVID-19 Evidence Collection

Bethany McGowan

Purdue University

Jo Wood

Public Health England



privacy

This event is being recorded, including chat.

Recording will be posted on the HBS and E4GDH publications page.

Microphones **have been muted** for this event.

Questions or comments? Please type into the chat or Q&A box.

The talk is GDPR-compliant

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IFLA Health and Biosciences Libraries Section (private group)



speakers



Bethany McGowan

Purdue University
Assistant Professor of Information Studies and Health
Sciences Information Specialist



speakers



Jo Wood

Public Health England
Knowledge and Evidence Specialist

Evidence Aid
COVID-19 Project Co-Ordinator



for your reference

Humanitarian OpenStreetMap Team (HOT) Task Manager:

<https://tasks.hotosm.org/>

Evidence Aid COVID-19 Evidence Collection:

<https://evidenceaid.org/evidence/coronavirus-covid-19/>



background

IFLA Journal article library-sponsored data competitions:

<https://doi.org/10.1177/0340035219854214>

Portal article on student motivation for participation in extracurricular mapathons: <https://preprint.press.jhu.edu/portal/sites/ajm/files/mcgowan.pdf>

motivations: altruistic—i.e. for the global good, to help; also to boost data sciences skills, resume



mapathons

Mapathons are coordinated mapping events in which participants use GIS data and satellite imagery to create open-source maps for humanitarian support.

They have been used to improve coverage of under-mapped communities and support disaster relief efforts, economic assessments, and energy management analyses.

Mapping activities offer librarians a learner-centered means to teach data literacy and visual literacy.



OpenStreetMap

The Humanitarian OpenStreetMap Team (HOT) provides free resources and training to prospective mappers and Mapathon hosts. <https://www.hotosm.org/>

Librarians seeking hands-on mapping experience can visit the HOT site to practice mapping and to learn to host Mapathons. The site also allows Mapathon hosts to advertise public events and allows Mappers to view information about upcoming Mapathons. www.missingmaps.org/events

Examples of how libraries have hosted Mapathons to support disaster relief efforts are highlighted in the news, showcasing the work of librarians at [MIT](#) and [Columbia University](#).



mapping as instruction

Mapping teaches students to validate data sources, observe and question data gathering methods, and question data quality—practices that improve both data literacy and evidence-based decision making.

Maps can also be used as evidence to formulate and support research inquiries.

For example, what can a map tell you about community health needs? What challenges might a community face if the closest freshwater source is 100 miles away or if the community is disconnected from major road infrastructure?



Edit feature

University Grounds Zoom to this

Fields

Name
Purdue University

Operator
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Address
123 Street Unit
City State Postcode

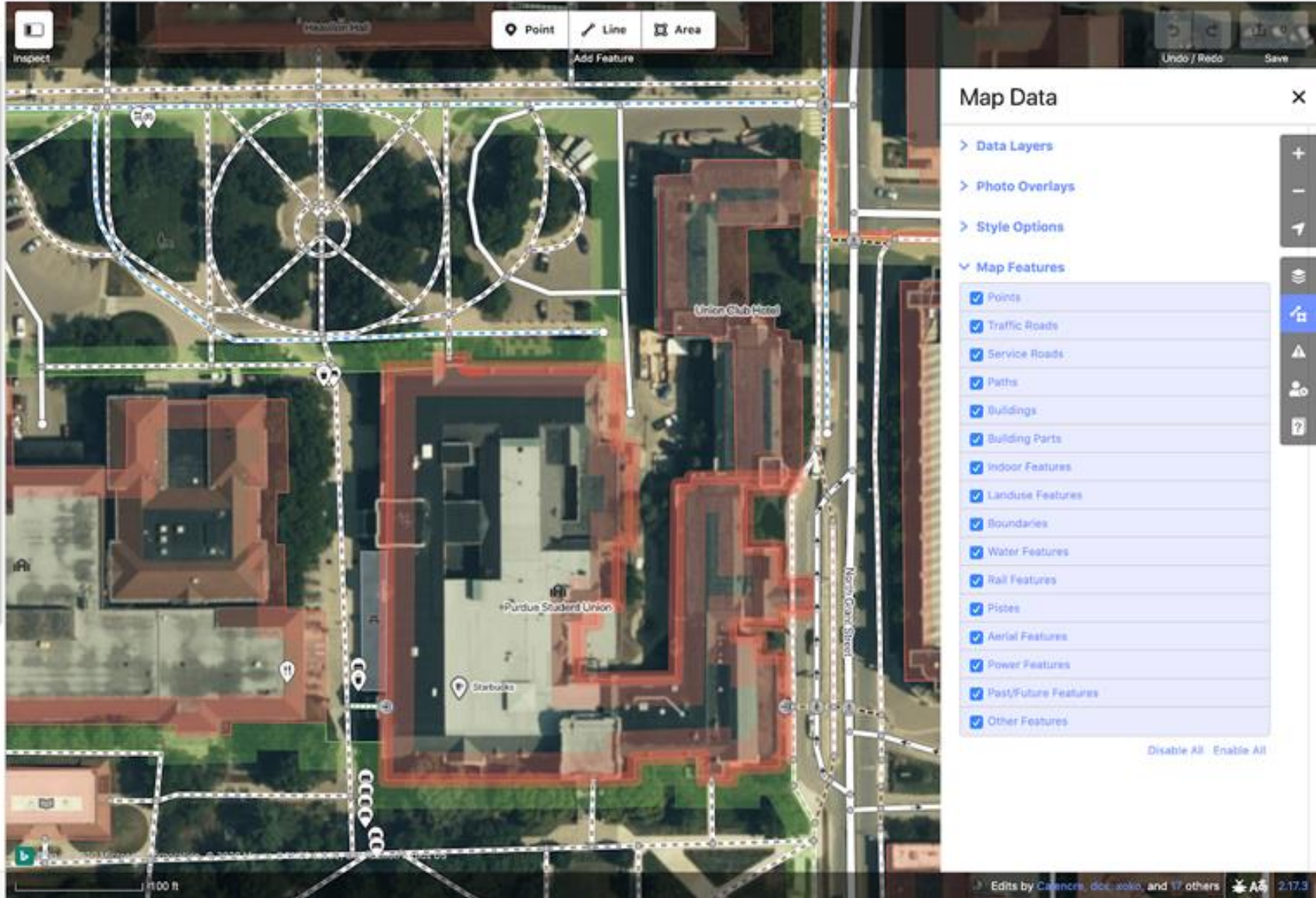
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Internet Connection
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GNIS Feature ID
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Wikidata
Purdue University
Description: public research univ...
Identifier: Q217741

Wikipedia
English



Map Data

- > Data Layers
- > Photo Overlays
- > Style Options
- > Map Features
 - Points
 - Traffic Roads
 - Service Roads
 - Paths
 - Buildings
 - Building Parts
 - Indoor Features
 - Landuse Features
 - Boundaries
 - Water Features
 - Rail Features
 - Pistes
 - Aerial Features
 - Power Features
 - Past/Future Features
 - Other Features

Disable All Enable All



mapping as instruction

The ***ACRL Visual Literacy Competency Standards for Higher Education*** can help guide the design of learning objectives, activities, and assessments that teach students to critically view and use map data and aerial photos to produce maps.

<http://www.ala.org/acrl/standards/visualliteracy>

Learning objectives for Mapathons can center on one or more of the competencies established for a visually literate individual in higher education, especially understanding the "ethical, legal, social, and economic issues surrounding the creation and use of images and visual media".



mapping as instruction

Visual Literacy for Libraries: A Practical, Standards-Based Guide, a resource that includes worksheets and activities that support discussions on the ethical and social aspects of map creation and trustworthiness, further supports visual literacy instruction.



mapping in action

At Purdue, I've hosted 1 to 3 extracurricular Mapathons each semester since Fall 2017, mostly for undergraduate students in health sciences-centered and data sciences-centered Learning Communities.


Learning Communities proved to be an effective learning environment for the Mapathons because most require student participation in extracurricular activities like Mapathons, which offers synergistic opportunities for librarians and learning community stakeholders.





BETHANY MCGOWAN

Beginner mapper

 Bethany McGowan

My Stats

My Projects

My Tasks

My Teams



33m

Time spent mapping



164

Buildings mapped



0

Km road mapped



0

Points of interests
mapped



0

Waterways mapped



mapping and COVID-19

Mapathons can be hosted completely virtually, making them an ideal activity for distance learning. Once mappers create an OpenStreetMap account, they can map during planned events and on their own time.



mapping and COVID-19

“Globally HOTA is committed to fighting COVID-19 by providing 3 critical services:

1. Helping government agencies and responders with basic data needs: ... providing this through the UN’s Humanitarian Data Exchange, among other ways.
2. Helping to identify populations living in places most at risk: prioritizing [an] existing queue of mapping projects to get volunteers immediately mapping areas with high proportions of COVID-19 cases, or of greater vulnerability.
3. Creating new mapping projects in highest risk places”





Difficulty level ▼


More filters

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Show map



Showing 14 of 3,193


 URGENT

#8823
COVID - 19 RAPID RESPONSE - DADAAB

To support COVID-19 responses in refugee camps in Kenya, this project

484 total contributors

Intermediate Mapper


 URGENT

#8997
COVID-19 - Yelimane Cercle 5 - Kayes Region, Mali

HOT has been requested to map areas in Mali susceptible to, or

540 total contributors

Beginner Mapper


 URGENT

#9143
COVID-19 - Saint Andrew, Kingston, Jamaica

The 2020 Atlantic Hurricane Season began June 1st. HOT has been

905 total contributors

Beginner Mapper

 URGENT

#9164
Beirut Port Explosion - Extended Damage Radius

Project restricted due to density and existing mapping. Help map Beirut!

199 total contributors

Intermediate Mapper



#8997 | HOT

URGENT

COVID-19 - YELIMANE CERCLE 5 - KAYES REGION, MALI

COVID-19 · Mali

HOT has been requested to map areas in Mali susceptible to, or identified as impacted, by the COVID-19 outbreak. Please join our global effort to help control this disease by mapping on this project.

TYPES OF MAPPING



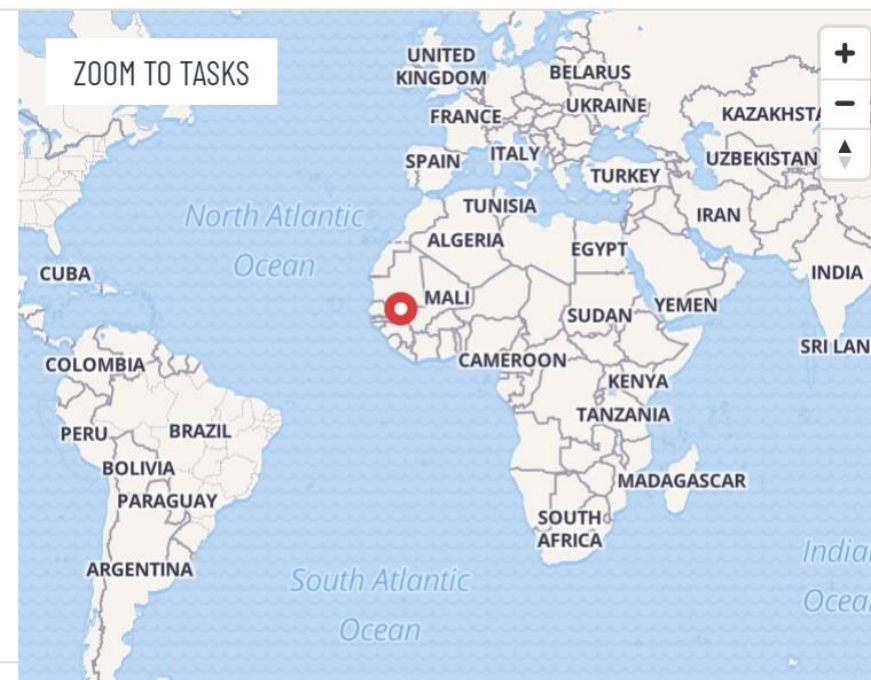
IMAGERY

Custom TMS Layer

348 total contributors

Last contribution 39 minutes ago

Beginner Mapper



[Overview](#) · [Description](#) · [Coordination](#) · [Teams & Permissions](#) · [Questions and comments](#) · [Contributions](#)

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DESCRIPTION

HOT has been requested by OpenStreetMap Mali and the Mali Red Cross to map areas in Mali susceptible to, or identified as impacted, by the COVID-19 outbreak. Please join our global effort to help control this disease by mapping on this project.

Globally HOT is committed to fighting COVID-19 by providing 3 critical services:

1. Helping government agencies and responders with basic data needs: we're providing this through the UN's Humanitarian Data Exchange, among other ways.
2. Helping to Identify populations living in places most at risk: prioritizing our existing queue of mapping projects to get volunteers immediately mapping areas with high proportions of COVID-19 cases, or of greater vulnerability.
3. Creating new mapping projects in highest risk places; which is what this project does. Every feature you map will help in this objective!

The goal of this project is to digitize the buildings using MAXAR Premium Imagery. Although open to beginner level mappers, the buildings in this project may be quite dense, please split or unlock the task and move on to something you are more comfortable with if needed.

|COVMali



#8997 | HOT

🕒 URGENT

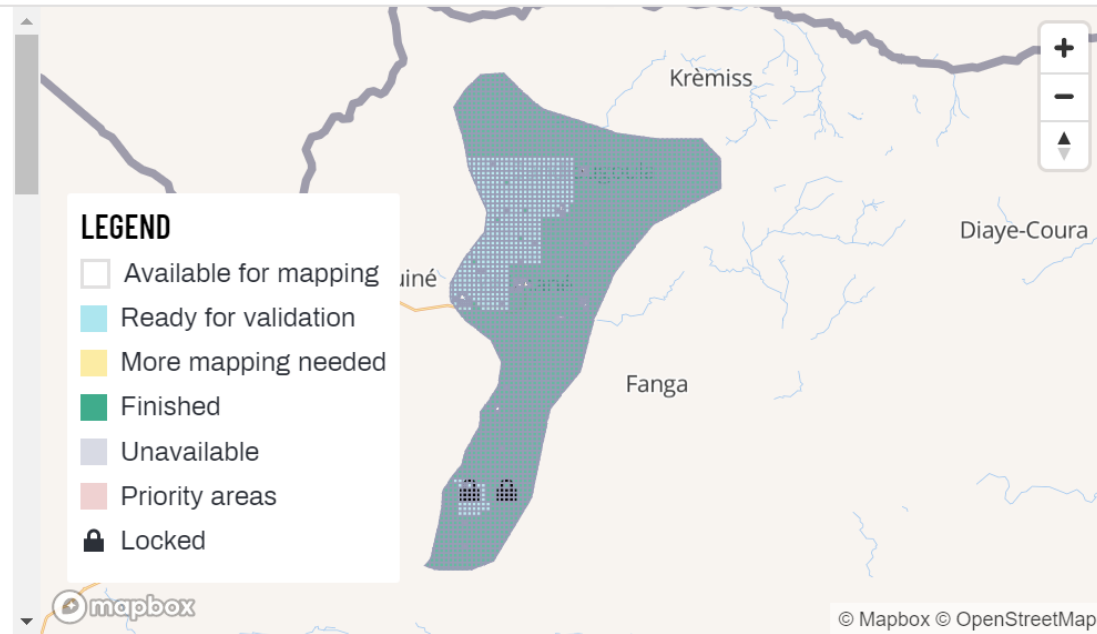
COVID-19 - YELIMANE CERCLE 5 - KAYES REGION, MALI

COVID-19 · Mali

TASKS INSTRUCTIONS CONTRIBUTIONS

Project Specific Mapping Notes

- **Imagery and Offset (existing mapping does not match):** Use the Maxar Premium imagery, but adjust it so it **aligns with the existing mapping**. Leave a comment when you save and/or mark done/stop mapping to say you adjusted the imagery.



TYPES OF MAPPING



IMAGERY

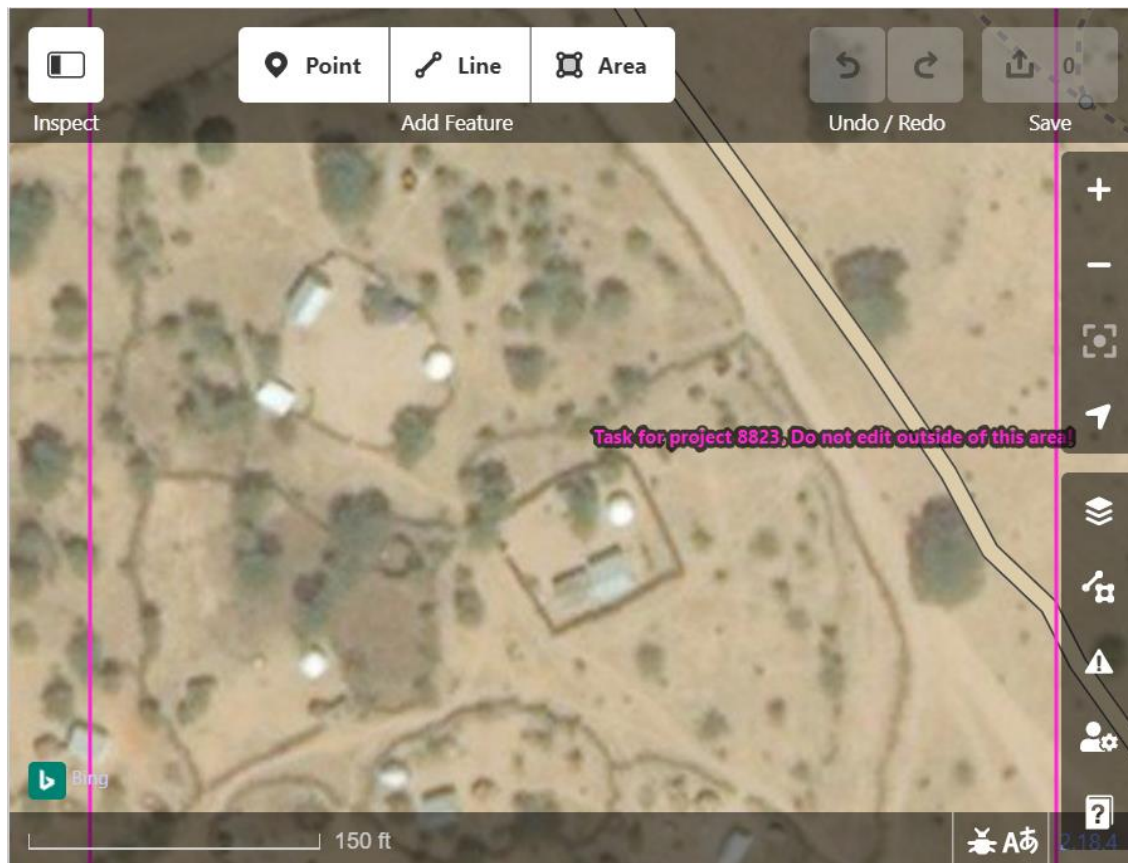
Custom TMS Layer

EDITOR

iD Editor

Map a task





#8823 | OSM Kenya



COVID - 19 RAPID RESPONSE - DADAAB · #928

🕒 1 hour, 59 minutes left

COMPLETION INSTRUCTIONS HISTORY

TASK STATUS ?

Is this task completely mapped?

Yes

No



Q&A

**Questions or comments?
Please type into the chat
or Q&A box.**

