

Introduction to Humanitarian Mapping

New Initiatives from
University Libraries Data Services Group

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February 2021

What is Humanitarian Mapping?

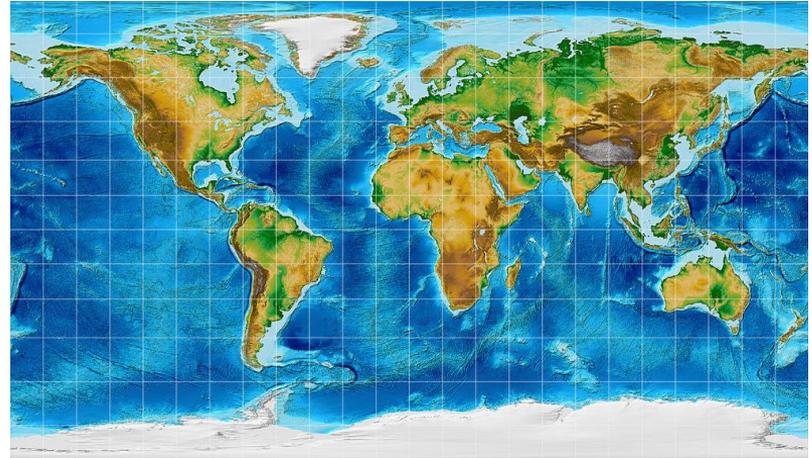
- McGowan (2020): “Humanitarian mapping requires participants to be both data users and data creators as they consult satellite images and GIS data to create and share maps.”
- “Means to teach data literacy and research data management competencies, with **minimal** coding or statistical expertise required.”
- In many parts of the world, with even the most basic geographic information, such as driving routes and medical service locations, are unavailable.
Humanitarian mapping is here to change this reality.

Humanitarian OpenStreetMap Team (HOT)

- Hot is a leader providing resources and tools for volunteer mappers and training materials to guide the hosts of OpenStreetMapping parties
- HOT's efforts produce free, updated maps that relief organizations, NGOs use to respond to disasters, political & economic crises
- HOT allows all participants to join a global community in supporting humanitarian causes and sustainable development goals by mapping and validating data

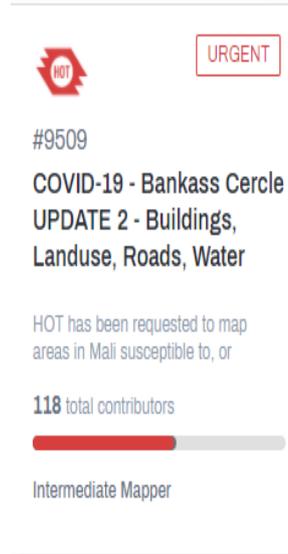
HOT Missing Maps project

- Applies principles of open source: open exchange, collaborative participation, transparency, community-oriented development.
- Open Data Sharing: information can be freely used, shared and built on by anyone for any purpose.
- Supports data literacy and research data management practices supported by University Libraries Data Services Group.



Benefits of Humanitarian Mapping

- Big data project with a tangible deliverable that can be showcased on résumés and shared with potential employers.
- Gain digital literacy skills
- Act upon Seton Hall's mission of servant leadership



 URGENT

#9509
COVID-19 - Bankass Cercle
UPDATE 2 - Buildings,
Landuse, Roads, Water

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

118 total contributors

Intermediate Mapper



 HIGH

#3993
Tanzania Development
Trust: Mwanza East

- Author: HOT - Requesting
Organization: **Tanzania

3223 total contributors

Intermediate Mapper



 HIGH

#6665
Cucuta Colombia
#MigrationCrisis

Colombia has seen an influx of
refugees moving through the country.

2416 total contributors

Beginner Mapper

How to Sign-Up for OpenStreetMap

- Use this [link](#) to create your OpenStreetMap account
- Afterwards, create a [HOT account](#)
- Start mapping and validating previously mapped areas!
- Don't forget to hit "Submit task" once you finish



Email

Email Confirmation

Free and editable

Unlike other maps, OpenStreetMap is completely created by people like you, and it's free for anyone to fix, update, download and use.

Sign up to get started contributing. We'll send an email to confirm your account.

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

- Through this link, you may search for ongoing projects that need volunteers

The screenshot displays the Hotosm Tasking Manager interface. At the top, the navigation bar includes the 'HOT Tasking Manager' logo, links for 'EXPLORE PROJECTS', 'LEARN', and 'ABOUT', a language dropdown set to 'English', and buttons for 'Log in' and 'Sign up'. The main content area features a project card for '#9754 | Tanzania Development Trust' with the title 'TANZANIA DEVELOPMENT TRUST: #9754 NTUNTU DISTRICT'. Below the title, it indicates 'Missing Maps · Tanzania' and lists 'TYPES OF MAPPING' with icons for various map types. A progress bar shows '94 total contributors' and 'Last contribution 1 hour ago'. The user's role is listed as 'Beginner Mapper'. On the right, a world map highlights Tanzania with a red circle and a 'ZOOM TO TASKS' button. The map also shows other countries like Kenya, Madagascar, and South Africa.

Difficulty level ▾

Projects to map ▾

More filters

Sort by ▾

🔍 Search Projects

 **URGENT**

#9507
COVID-19 - Bankass Cercle UPDATE 1 - Buildings, Landuse, Roads, Water

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

281 total contributors

Intermediate Mapper

 **URGENT**

#9973
Cyclone Molave Flooding - Vietnam AOI1 - Buildings

Help map flooded areas in Vietnam! Cyclone Molave brought heavy rains.

922 total contributors

Beginner Mapper

 **URGENT**

#10054
Refugee Site Mapping for Tigray crisis - Wad Sharife - Sudan

Since early November, thousands of Ethiopians are fleeing from the

402 total contributors

Beginner Mapper

 **URGENT**

#10163
Hurricane Eta - Honduras 5 (El Progreso) - Buildings

Available to Beginner mappers, intermediate difficulty. After the

201 total contributors

Intermediate Mapper

 **HIGH**

#5509
Davao Del Norte, Philippines - Mapping for Food Security

In the Philippines, many areas lack the infrastructure to support local

3064 total contributors

Beginner Mapper

 **HIGH**

#5773
Mt Elgon Landslide Risk

A GFDRR project in support of Government of Uganda to study and

1658 total contributors

Beginner Mapper

 **HIGH**

#5942
Mapping elements at risk in JRasulov and Spitamen Districts, Tajikistan for

Mapathon 2 - Building footprint mapping in JRasulov and Spitamen

1694 total contributors

Beginner Mapper

 **HIGH**

#6161
Missing Maps: Dengue fever in Honduras - San Pedro Sula 7

'VALIDATION' Following a prolonged rainy season, Honduras is

46 total contributors

Beginner Mapper

Consider:

- Problem project addresses
- Geography
- GIS skill level required

And how it maps to your course objectives or organizational mission

Please reuse!

- We hope this presentation will help you launch Mapping Projects for use in your courses, student organizations for Servant Leadership Projects and Service Projects.
- Please use the information in this presentation with proper attribution to [Bethany McGowan](#), Assistant Professor [@PurdueLibraries](#) for her important research about Humanitarian Mapping.
- Also, thank you to [Francesca Giannetti](#), Digital Humanities Librarian [@RULibraries](#) [@rutgersdh](#) for sharing information about [#gisday](#) [#RUmapathon](#) [#OSMGeoWeek2020](#). Seton Hall Libraries plans to participate with Rutgers Libraries in 2021!

More information about Data Services:

Find us at: <https://library.shu.edu/data-services>

Email: data.services@shu.edu



[@ldeluca1101](#)

- Click [here](#) to schedule a Data Services Consultation



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ATLAS.ti



POLICYMAP