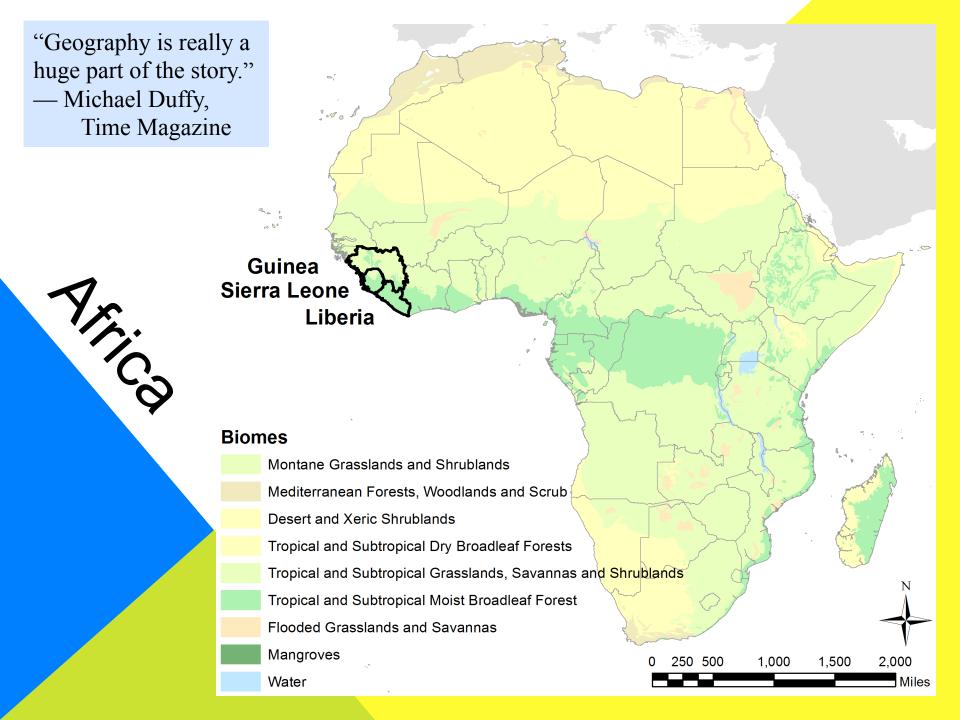
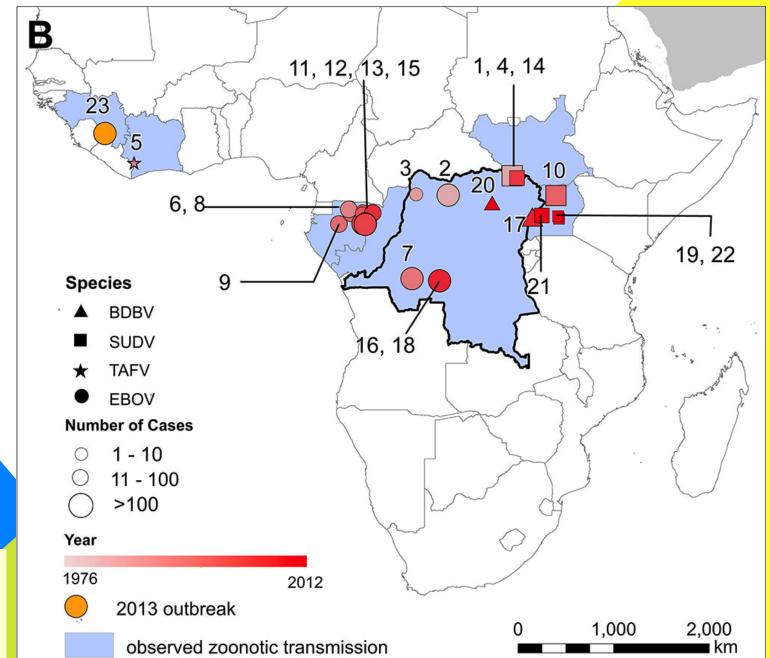


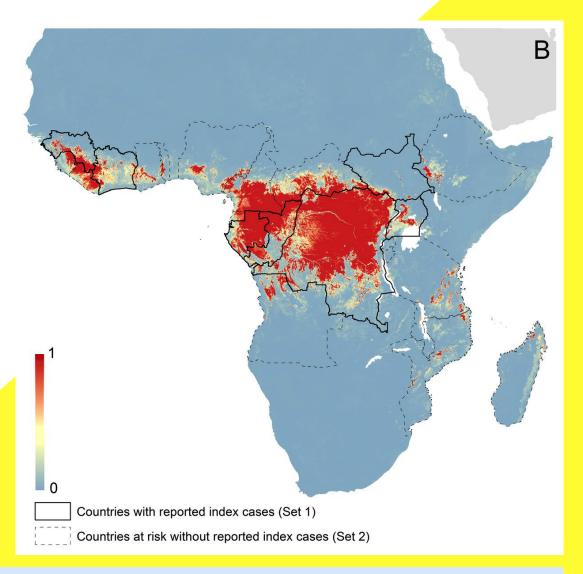
Supporting Ebola First Responders in West Africa through OpenStreetMap





100%

"Mapping the zoonotic niche of Ebola virus disease in Africa", Pigott, et al., *eLife* 2014;10.7554/ eLife.04395



Picy Ox

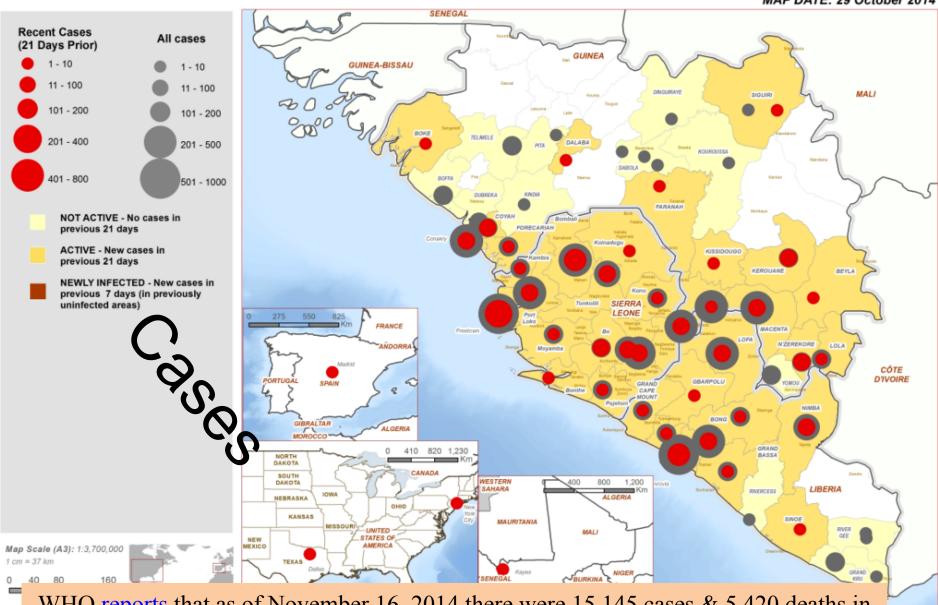
"Mapping the zoonotic niche of Ebola virus disease in Africa", Pigott, et al., *eLife* 2014;10.7554/ eLife.04395

"A large survey of small mammals in and around Gabon identified three species of bats which were infected with Ebola viruses... Subsequent serological surveys and evidence linking the potential source of human outbreaks to bats lend support to the hypothesis of a bat reservoir."

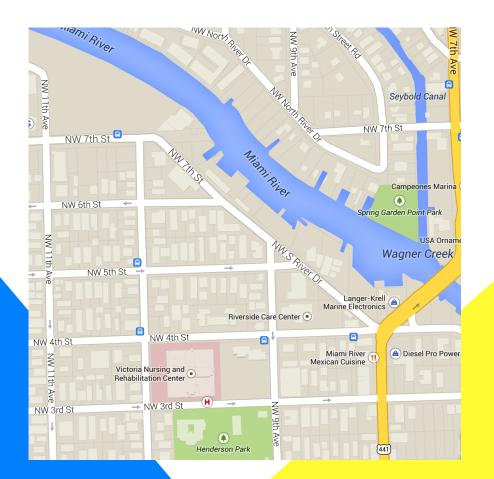
EBOLA OUTBREAK RESPONSE: REGIONAL CONFIRMED AND PROBABLE CASES

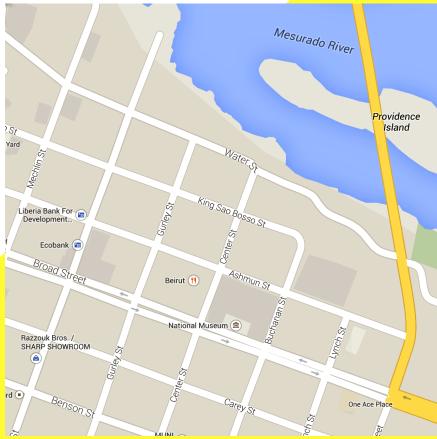
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MAP DATE: 29 October 2014



WHO <u>reports</u> that as of November 16, 2014 there were 15,145 cases & 5,420 deaths in eight countries, and for health-care workers, 584 cases & 329 deaths in seven countries.

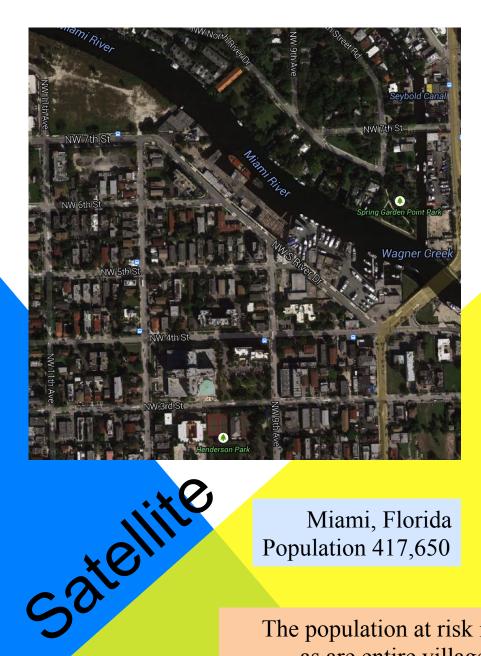


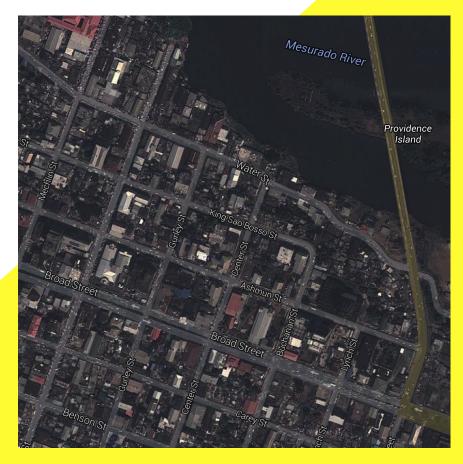


8

Miami, Florida Population 417,650 Monrovia, Liberia Population 970,824

Where is the population at risk? How does one reach them?

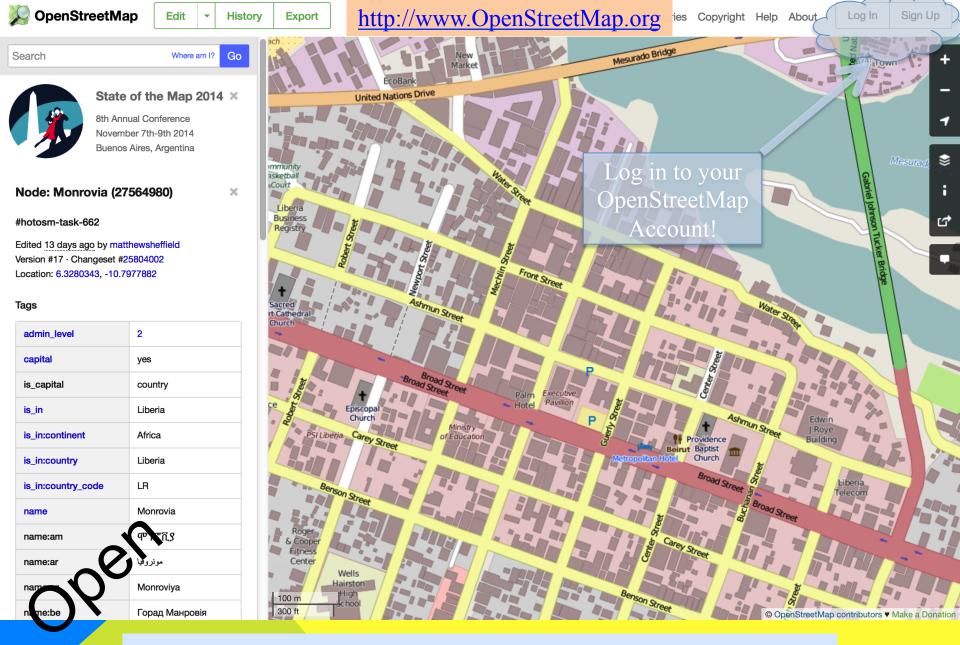




Miami, Florida Population 417,650

Monrovia, Liberia Population 970,824

The population at risk is there, but harder to locate... as are entire villages and roads in rural areas.



Monrovia, Liberia — with **features** identified by volunteers like you! Using the OpenStreetMap platform — open data, open source.

English

About Updates Projects Working groups Leadership Get Involved Donate



FEATURED PROJECT

West Africa Ebola epidemic

The Ebola Outbreak that struck Guinea in march 2014 later spread to Liberia, Sierra Leone and Nigeria causing at the beginning of august 1711 infections and 932 deaths. Aid organisations are taking emergency measures to contain the spread of this highly infectious and deadly virus. It is crucial for this work to drive rapidly through the territory and quickly locate those infected.

The Humanitarian OperateetMap Team [HOT] applies the principles of open source and open data sharing for humanitarian response and economic development.

The Humanitarian OpenStreetMap Team receives requests for better maps in specific areas from WHO, the Red Cross, Doctors Without Borders, et al.

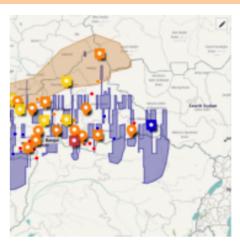
http://hot.OpenStreetMap.org/projects



West Africa Ebola epidernic



Haiti



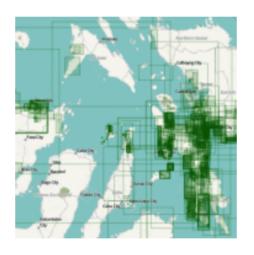
Central African Republic Activation



Mongolia, mapping Ulaanbaatar



OSM community mapping for Flood Preparedness in Malawi



Typhoon Haiyan

HOT works on many projects!

GIS Support for the MSF Ebola response in Guinea in 2014 (Case Study)

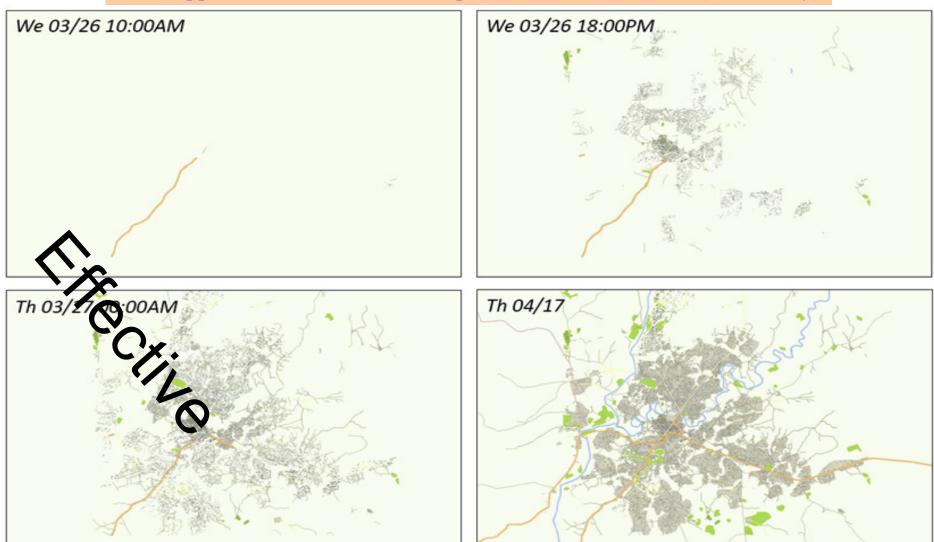


Table 2: Initial mapping of three cities as completed by the OSM volunteers within three days. Volunteers continued to work on maps of the region even after that period (see image bottom right).

"Based on this information, MSF [Doctors Without Borders] programme staff were able to respond to the outbreak faster, in a more targeted way and with fewer resources."













Functional Laboratory Locations

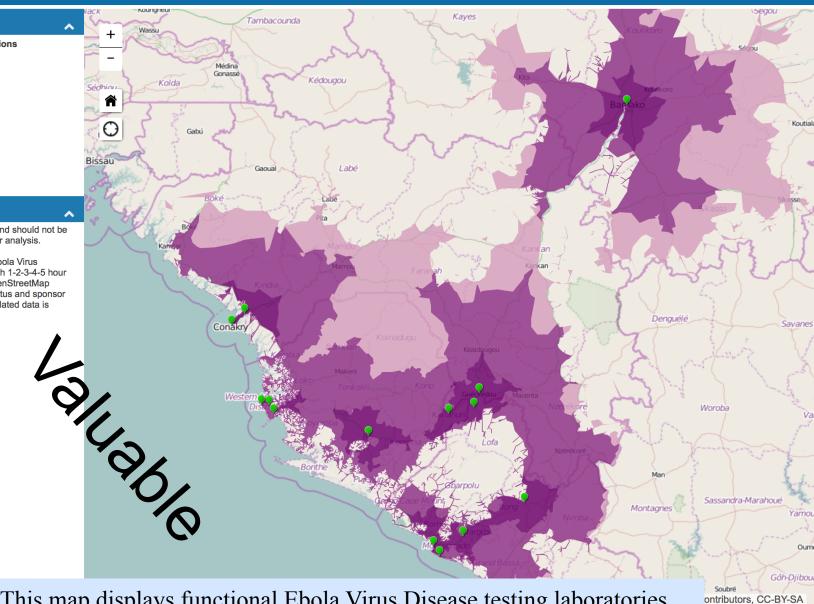
Drive Time (Hours)

Legend

About

NOTE: This is a draft product and should not be used for operational activities or analysis.

This map displays functional Ebola Virus Disease testing laboratories with 1-2-3-4-5 hour drive times calculated from OpenStreetMap Roads. Laboratory location, status and sponsor info is subject to change as updated data is received.



"This map displays functional Ebola Virus Disease testing laboratories with 1-2-3-4-5 hour drive times calculated from OpenStreetMap Roads."

Laboratories and Drive Times

Projects



Sort by: High priority first ▼

#692 Ebola Outbreak, Freetown - More Buildings

Author: HOT

n OSM Tasking Manager

Requesting organization:: MSF

Created by AndrewBuck - Updated 2 minutes ago - Priority: urgent



#672 Ebola Outbreak, Port Loko, Bombali districts, 💄 6 road network

- Author: HOT
- · Priority: High

Doctors Without Borders (MSF/DWB), the World Health

Organization (WHO), and other humanitarian organizations are deploying for the Ebola epidemic going on there. More detailed basemap data (roads, villages, streets) is needed to assist in the response.

The purpose of this task is to make a first pass over the area and put in roads and important landuse areas.

Created by PierZen - Updated 7 minutes ago - Priority: urgent

About the Tasking Manager

OSM Tasking Manager is a mapping tool designed and built for the Humanitarian OSM Team collaborative mapping. The purpose of the tool is to divide up a mapping job into smaller tasks that can be completed rapidly. It shows which areas need to be mapped and which areas need the mapping validated.

This approach facilitates the distribution of tasks to the various mappers in a context of emergency. It also permits to control the progress and the homogeinity of the work done (ie. Elements to cover, specific tags to use, etc.).

Questions About Tasks, Mapping or HOT?

If you have any questions about a project, a task or mapping in general please ask on our mailing list: HOT E-Mail List

Or visit us in our IRC Chat Channel, just select #hot from the pop down channel list: OSM HOT IRC Channel #hot

General inquries and comments are welcomed at: info@hotosm.org

Current volunteers and



Each HOT project has one or more tasks, worked on by many individuals. Project #672 in this snapshot has six volunteers and a low completion rate of 32%. Login, type in this web address, and click on a project.

#672 - Ebola Outbreak, Port Loko, Bombali districts, road network Instructions Contribute Activity Stats

Justification

There is a resurgence of the Ebola outbreak, and a risk of the epidemic spreading with the multiplication of sites of infection. Maps are needed to help locate people at risk and to support distribution of food and material.

Changeset Comment
#hotosm-ebola-672

2014 West Africa Ebola Response Wiki Coordination Page

Please map in all roads and residential landuse in the area using bing imagery.

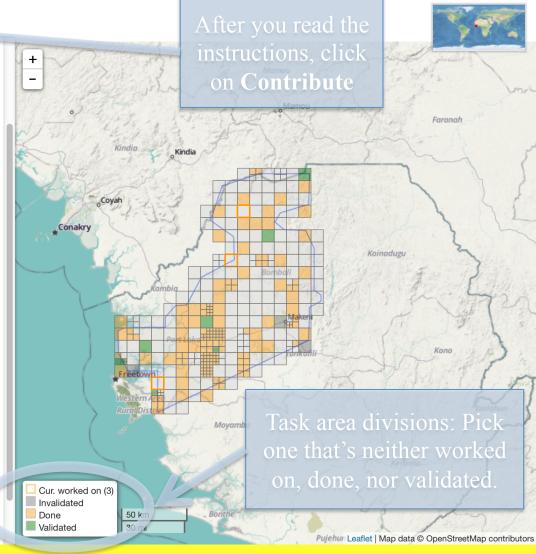
Map roads (dirt roads) and smaller paths for as far as you can follow them. Tag roads according to the Highway Tag Africa wiki page. Most roads connecting villages should either be *unclassified* or *tertiary* with only occasional small clusters of isolated houses being connected to the road network by a *track* (only use path if it would be too small to even drive a 4x4 vehicle on).

Also trace landuse=residential around clusters of houses and mark large open areas (not fields, just smooth open ground next to towns) as leisure=common as these are potential helicopter landing sites. Another common up to eful feature to tag is school areas, easily identified as 1 or 2 long buildings at the edge of the village often with two small toilet buildings behind them. The schools are almost always accompanied by a large open area for the children to play in tag the whole area of the school complex with amenity=school and tract the school buildings and bathrooms (don't worry about the buildings in the rest of the town for now).

Note that for some areas, clours will obscure the view. In these areas, do your best. We will revise the mapping on these areas when new imagery is available.

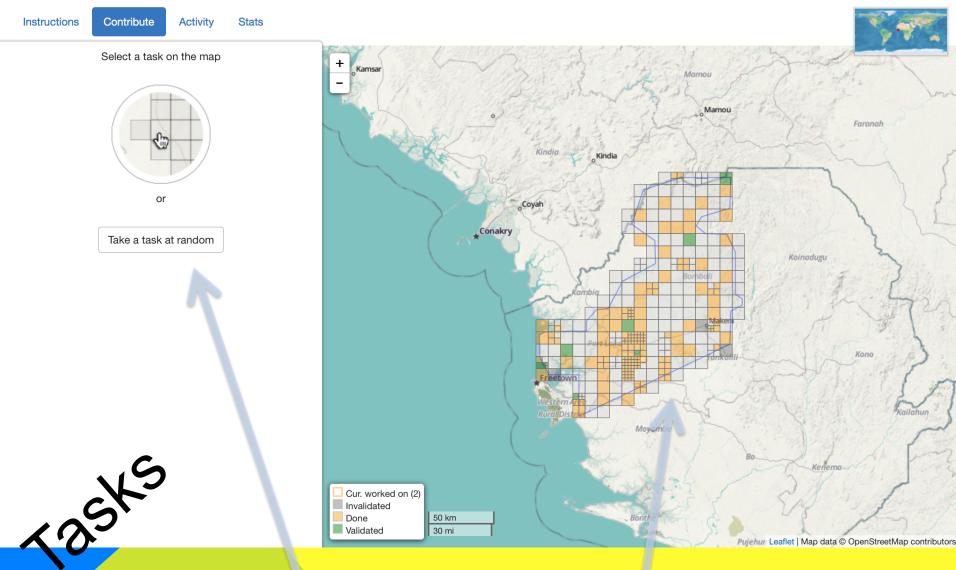
Save with credit to AtO Comment the changeset with: Sierra Leone, #hotosm-ebola_678

And use the factor of source tag either on the objects you create or on the changes it itself using JOSM): source=Bing

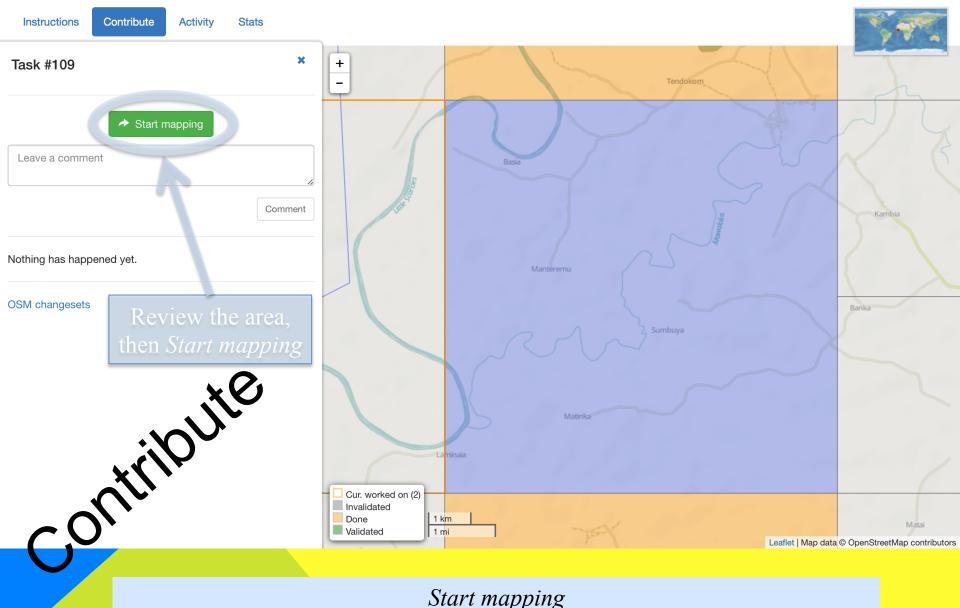


Read the instructions carefully.

Note the standard tags recommended, and the link to Highway Tag Africa.

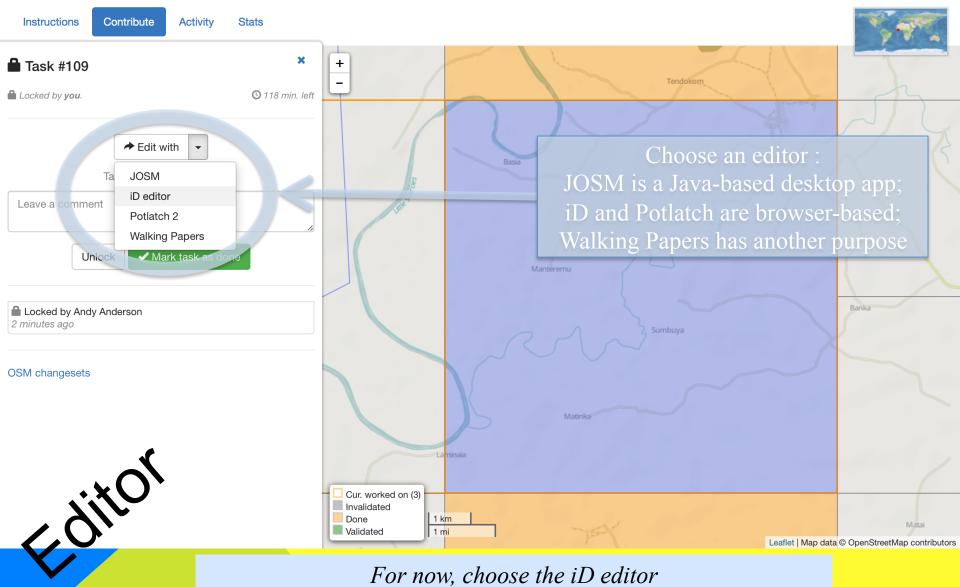


Select a task: click on a square on the map, or take one at random. A small one is a good place to get familiar with the process.



Start mapping

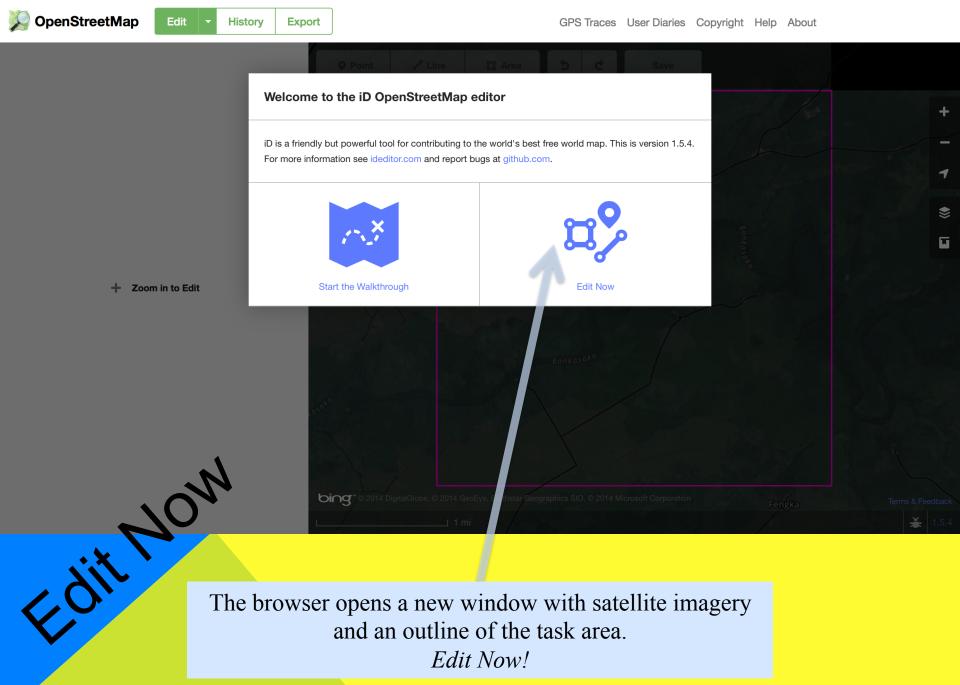
When you click this button, you lock this area so no one else can work on it.

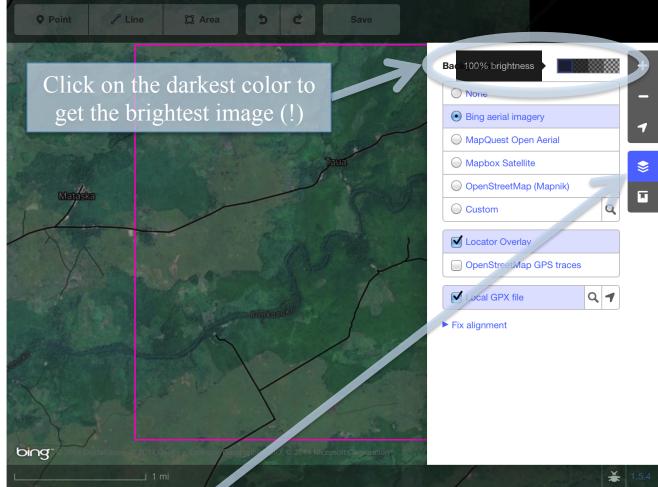


For now, choose the iD editor

This works best with Google Chrome browser.

Note: you may also want to split an area here to make it smaller.





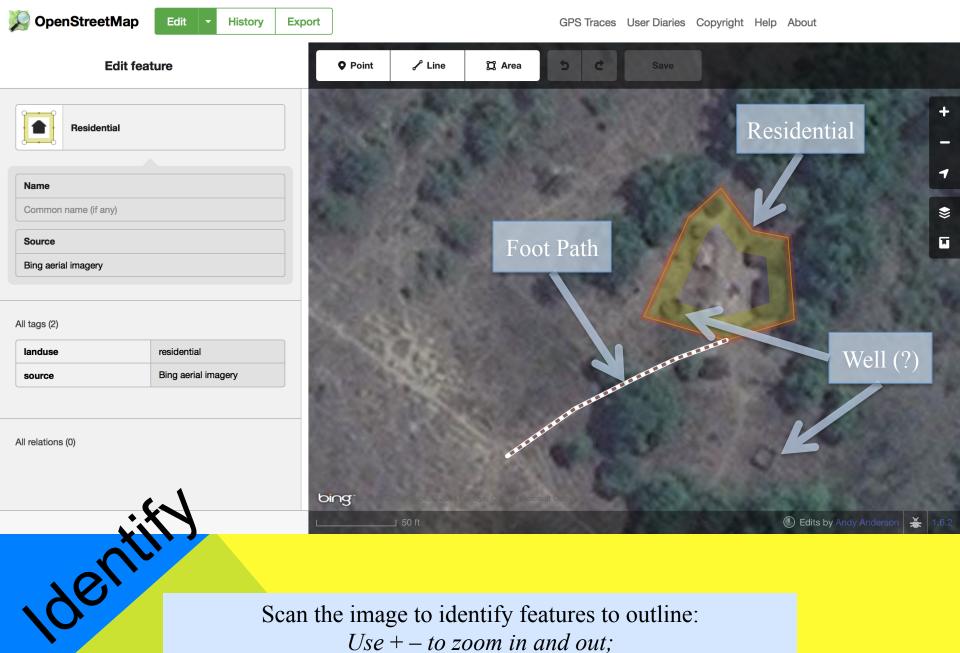
Zoom in to Edit

You'll usually want a brighter image, so:

Click on the **Background** button;

Click the brightest setting;

Click on the Background button again to dismiss the panel.



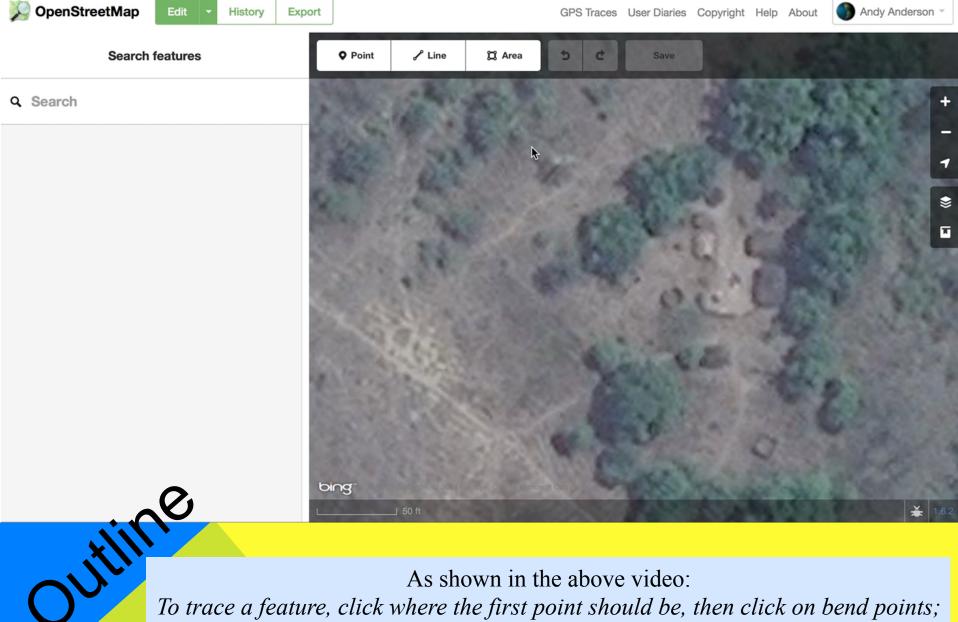
Scan the image to identify features to outline: Use + - to zoom in and out;Click-and-drag @or use arrow keys to move the image around.



Points for wells, monuments, and other points of interest;

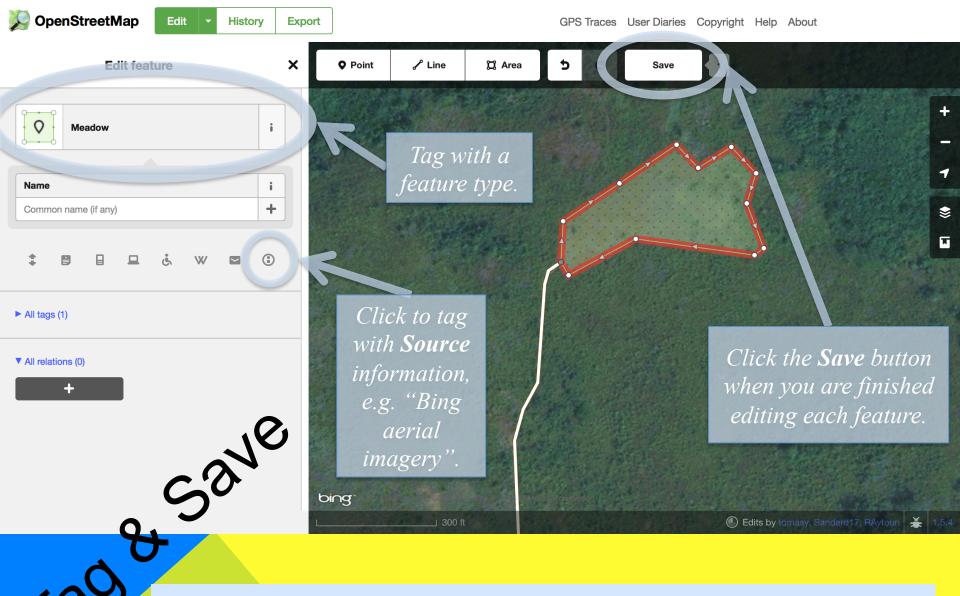
Lines for roads, tracks, paths, and rivers;

Areas for buildings, villages, school yards, and commons



To trace a feature, click where the first point should be, then click on bend points; To move the image, click-and-drag (won't leave a point) or use arrows keys.

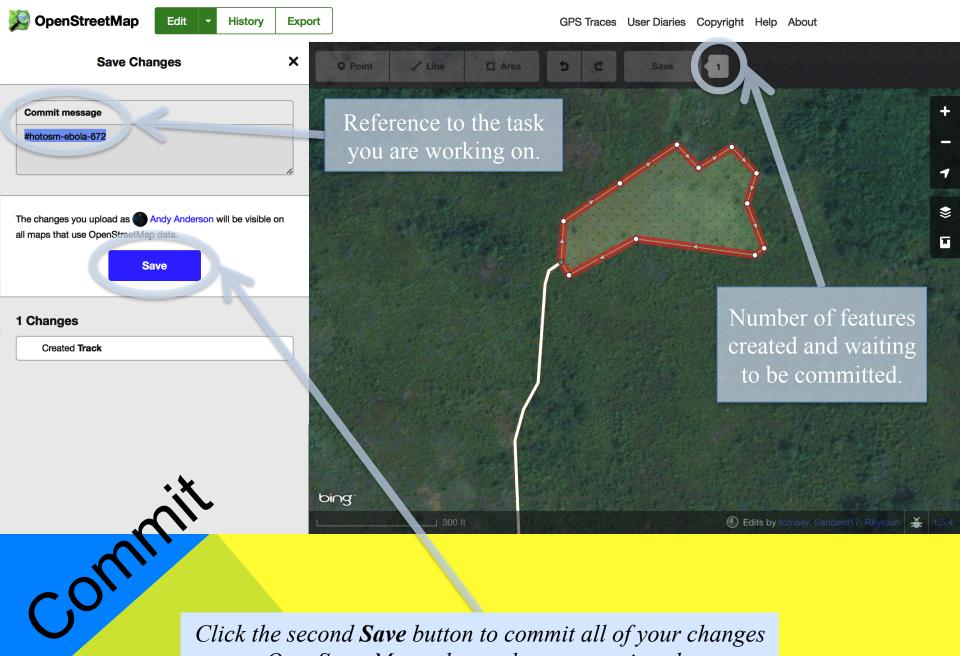
Double-click on the last point to finish (or, for areas, click the first point).



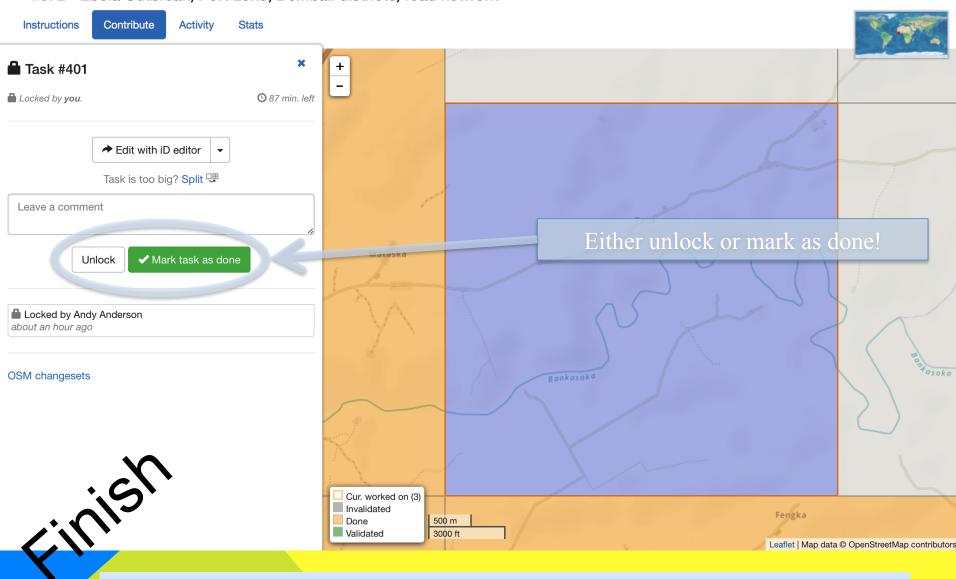
Every feature you create should be tagged with a type.

The source of imagery used should also be tagged (in the iD editor, not JOSM).

Click the **Save** button when you are finished editing each feature.



Click the second **Save** button to commit all of your changes to OpenStreetMap, where others can review them.



Finish by returning to the Task Manager window (separate from OpenStreetMap) and unlocking your task, or mark it as done!

Procedure Review:

1. From http://www.OpenStreetMap.org, Log in to Your Account.

SUMMAIN

- 2. From http://tasks.hotosm.org, Pick a Project.
- 3. For each project **Read the Instructions**.
- 4. Click on the link **Contribute**.
- 5. Click on Select a Task.
- 6. Click on **Start Mapping**.
- 7. From the menu, Choose an Editor.
- 8. Now back in OpenStreetMap, Adjust the Brightness.
- 9. Study the image to **Identify Features**, e.g. villages, roads, etc.
- 10. Select a Tool: Area, Line, Point and then Outline a Feature.
- 11. Set Tags for Feature Type and Source, and Save (Feature).
- 12. Then Repeat the above three steps, and often Save (Commit).
- 13. Return to Task Manager and either Unlock or Mark as Done.

Resources for more information:

Magazine Article: http://www.fastcompany.com

OpenStreetMap: http://www.OpenStreetMap.org

HOT page: http://hot.OpenStreetMap.org

Projects page: http://tasks.hotosm.org

Tutorial: http://learnosm.org/

Another tutorial: http://mapgive.state.gov

HOT Mailing List: https://lists.openstreetmap.org/listinfo/hot



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