

GCI for Disaster Response: OpenAerialMap



OpenAerialMap

HOT IS NOT A
TYPICAL EO
DATA
PROVIDER



END USER

We make maps for
humanitarian relief,
public health, and
global development
organizations



Remote mapping: Aerial imagery



Remote mapping: Digitization



Field mapping and trainings

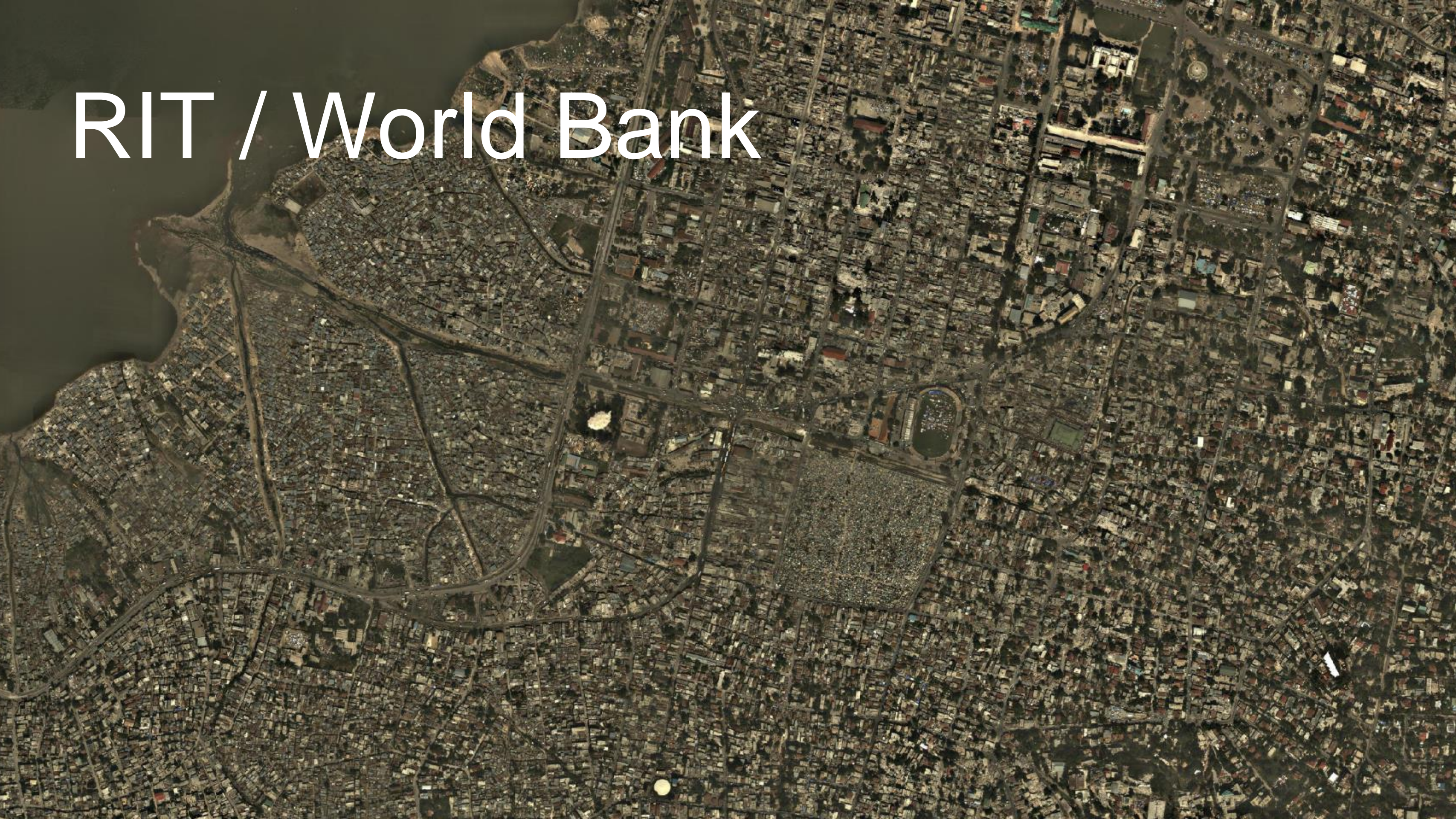


7 years ago...

Open imagery helped drive
tracing in OpenStreetMap



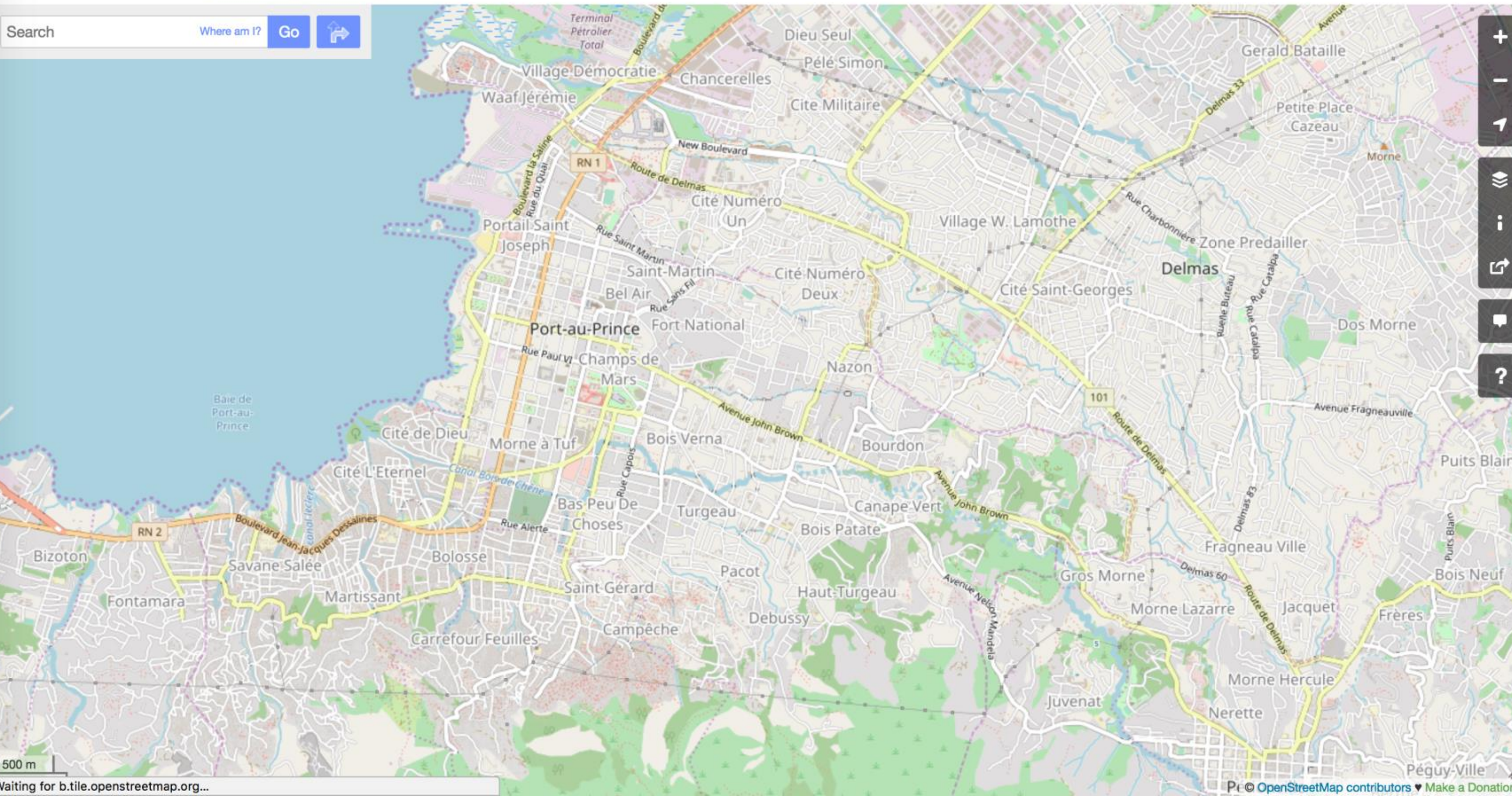
DigitalGlobe



RIT / World Bank

Search

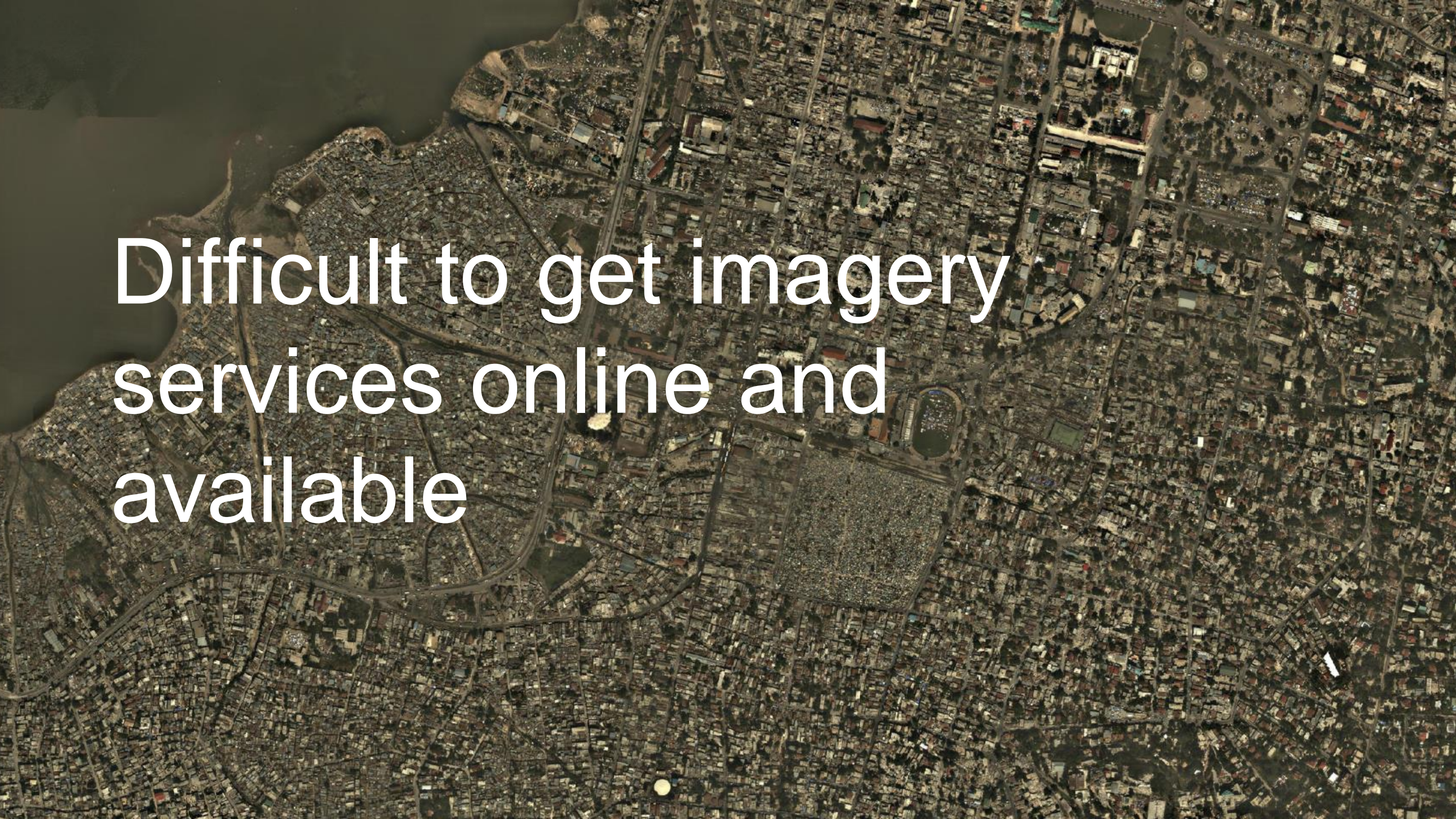
Where am I? 



500 m

Waiting for b.tile.openstreetmap.org...

© OpenStreetMap contributors ♥ Make a Donation

An aerial photograph of a densely populated urban area, likely a slum or informal settlement. The image shows a vast expanse of closely packed, small, rectangular structures, possibly shacks or small houses, covering the landscape. A body of water is visible on the left side of the frame. The overall color palette is dominated by earthy tones, with some brighter patches of green and blue. The text "Difficult to get imagery services online and available" is overlaid in white, sans-serif font on the left side of the image.

Difficult to get imagery
services online and
available

7 YEARS AGO IMAGINED A WORLD

RIGHT
LICENSE OF
IMAGERY

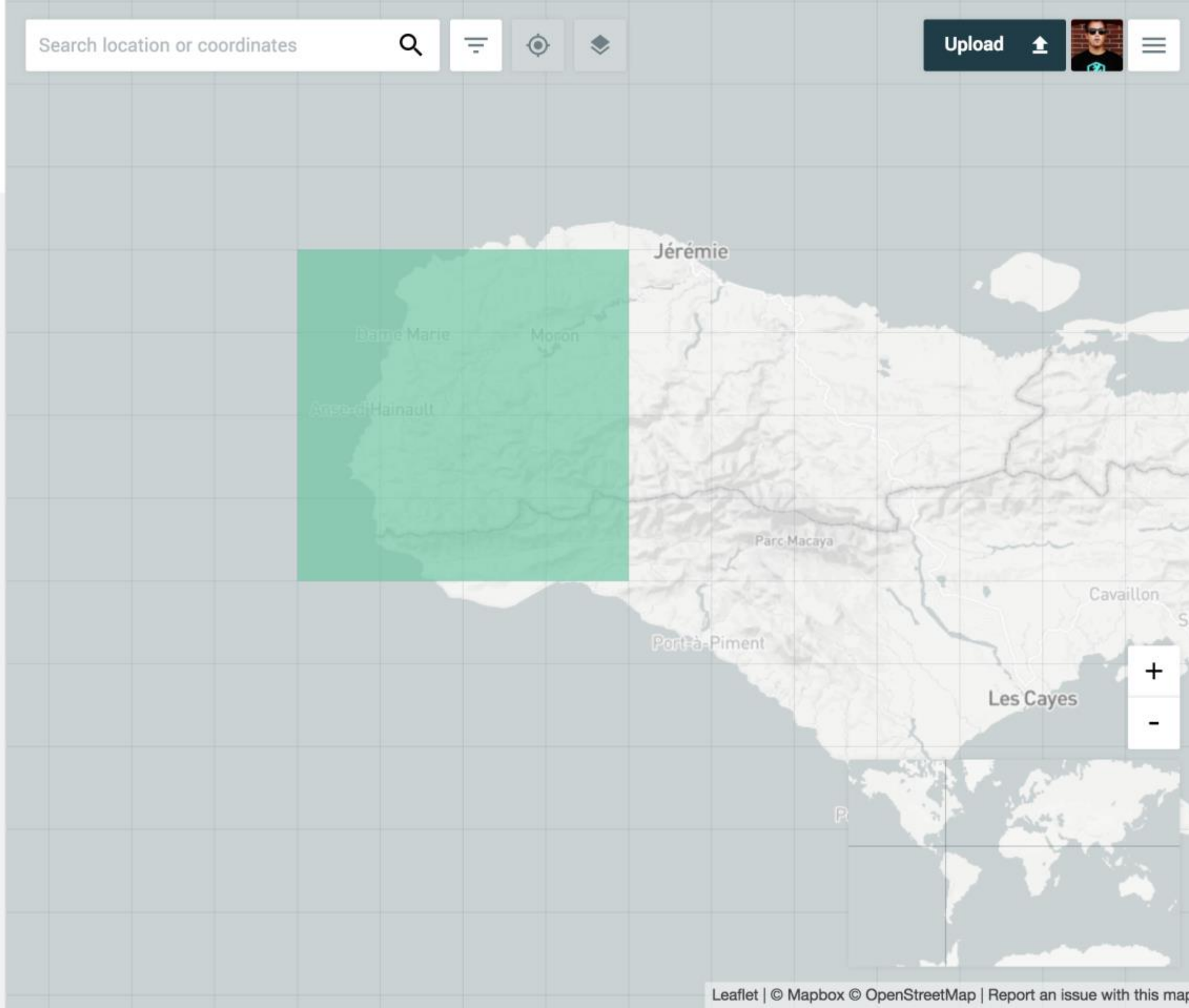
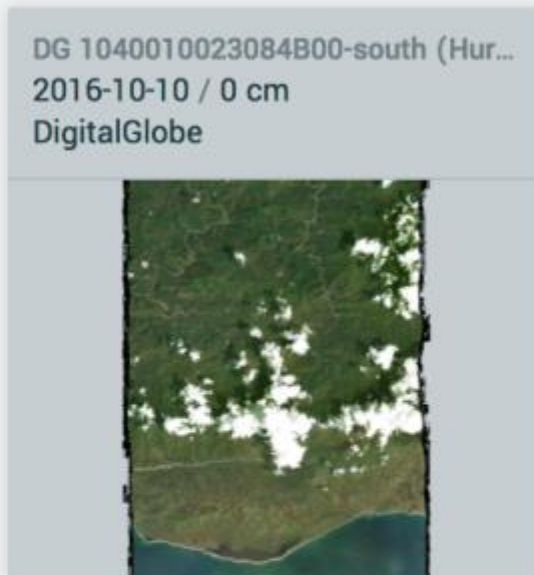
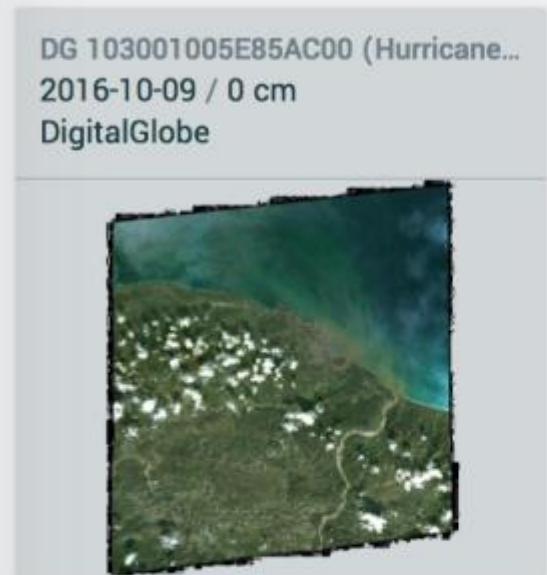
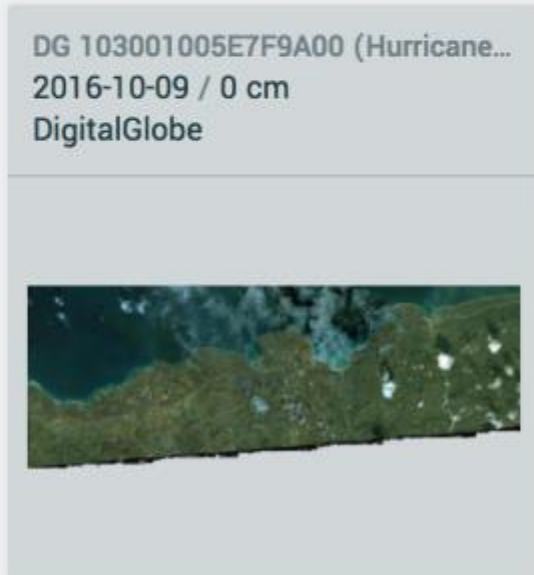
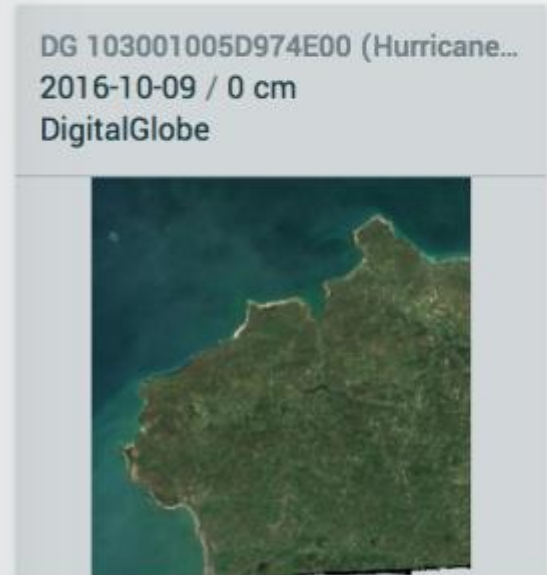
+


TOOLS TO
SEARCH AND
ACCESS



BETTER AND FASTER USE OF
IMAGERY IN OPENSTREETMAP
FOR DISASTER RESPONSE


11 images within selected grid square




 OpenAerialMap


DG 1040010022588400
(Hurricane Matthew)

DigitalGlobe




 Display as

TMSThumbnail

 Open in

[iD editor](#) | [JOSM](#)

 Copy image URL

[TMS](#) | [WMTS](#)





DATE



2016-10-10

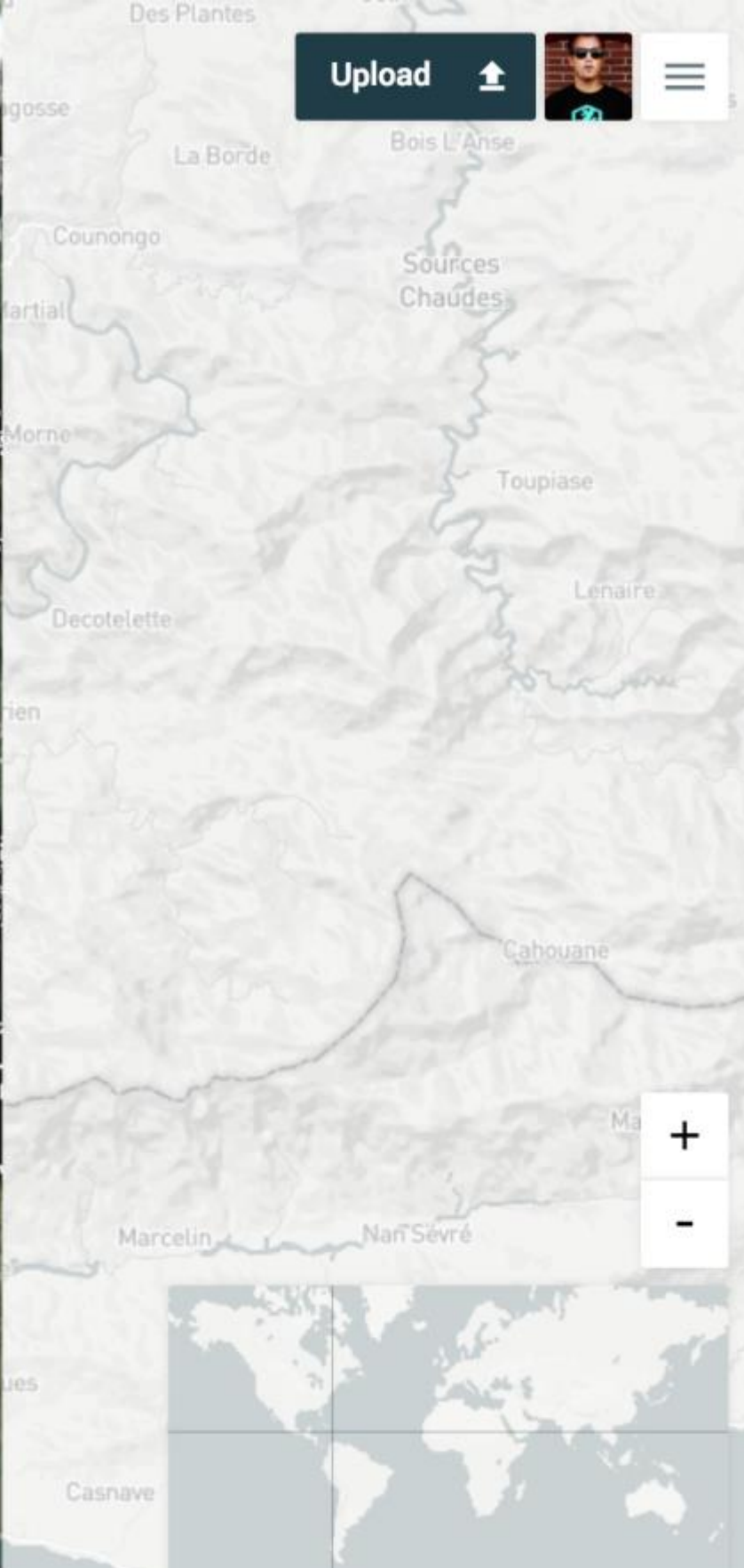

RESOLUTION



0 cm


Search location or coordinates



Upload







Leaflet | © Mapbox © OpenStreetMap | Report an issue with this map



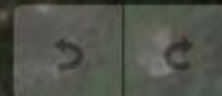
Search features

Search

Point

Line

Area



Save



Custom

300 ft

Edits by [timdine](#), [Elis25](#), [Arkmagi](#), and 14 others

234 hidden features

Aa

2.0.2

 Search



bing © 2017 DigitalGlobe, © 2017 GeoEye, © 2017 Microsoft Corporation

300 ft

🕒 Edits by [timdine](#), [Elis25](#), [Arkmagi](#), and 14 others

234 hidden features

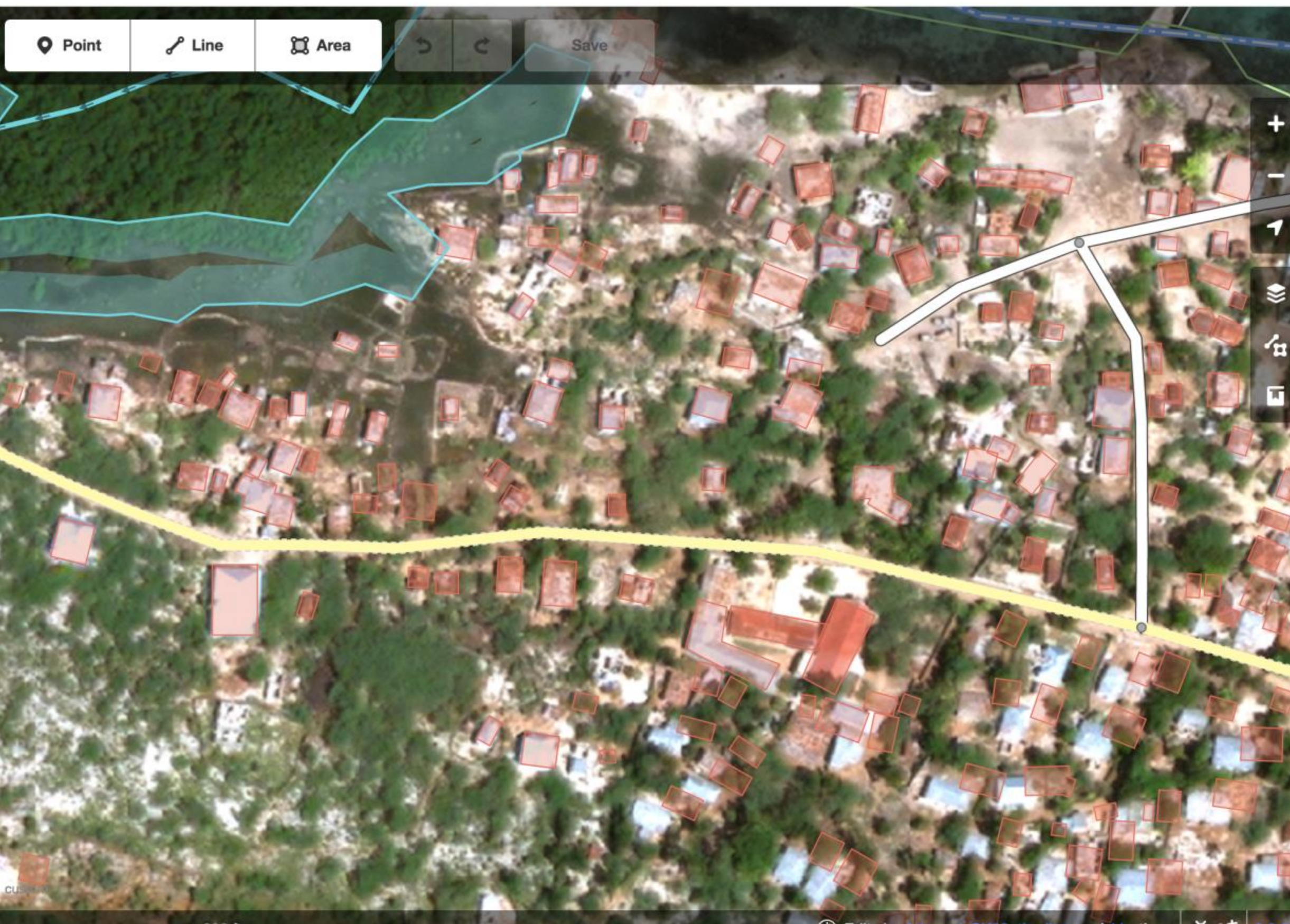
★ Aあ

2.0.2



Search features

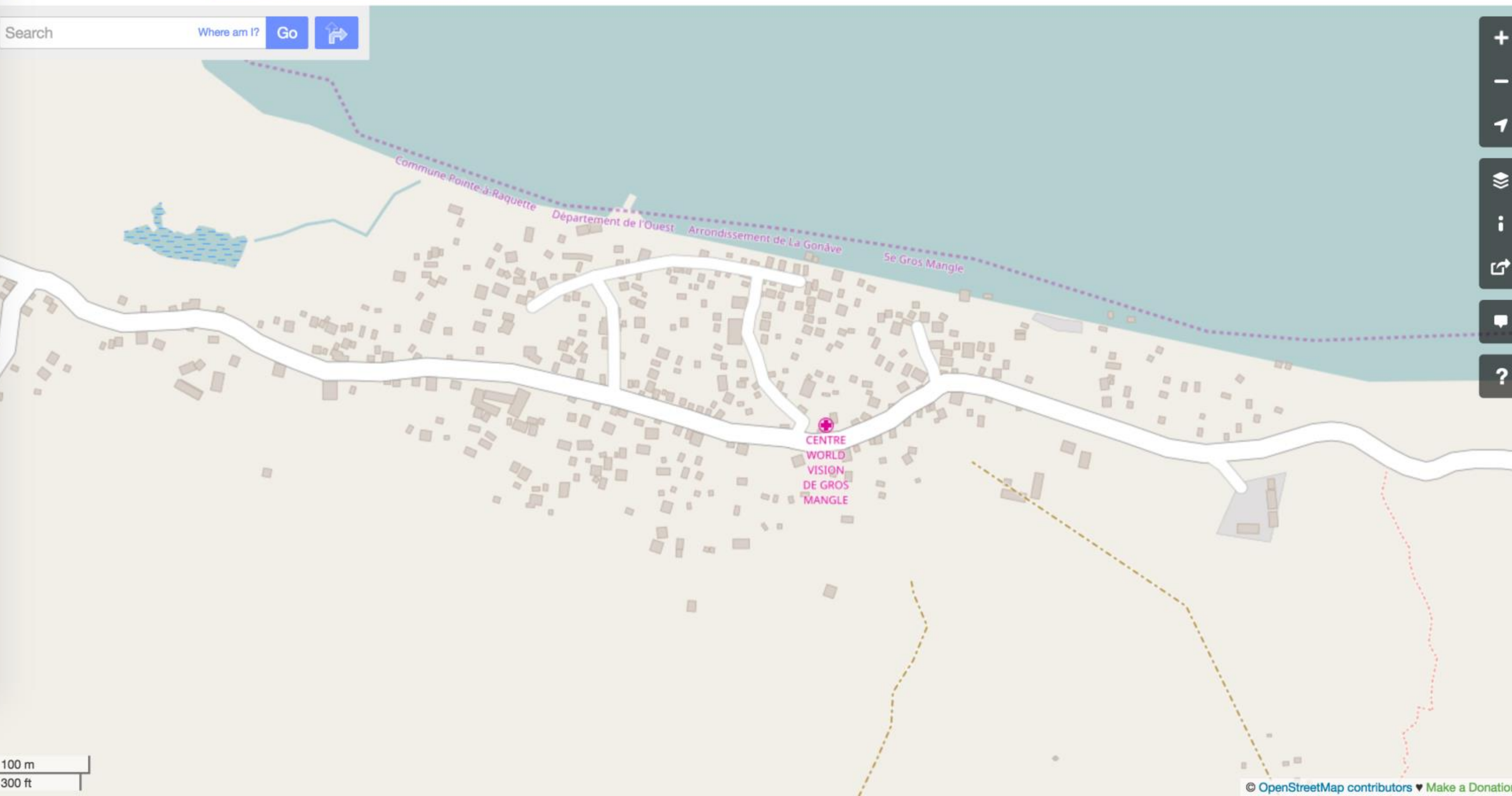
Search



Search

Where am I?

Go





OpenAerialMap

A distributed commons for sharing aerial imagery.

OpenAerialMap is a set of tools for searching, sharing, and using open satellite and drone imagery.

www.openaerialmap.org



Browse

Search and Find



API

Access the Data

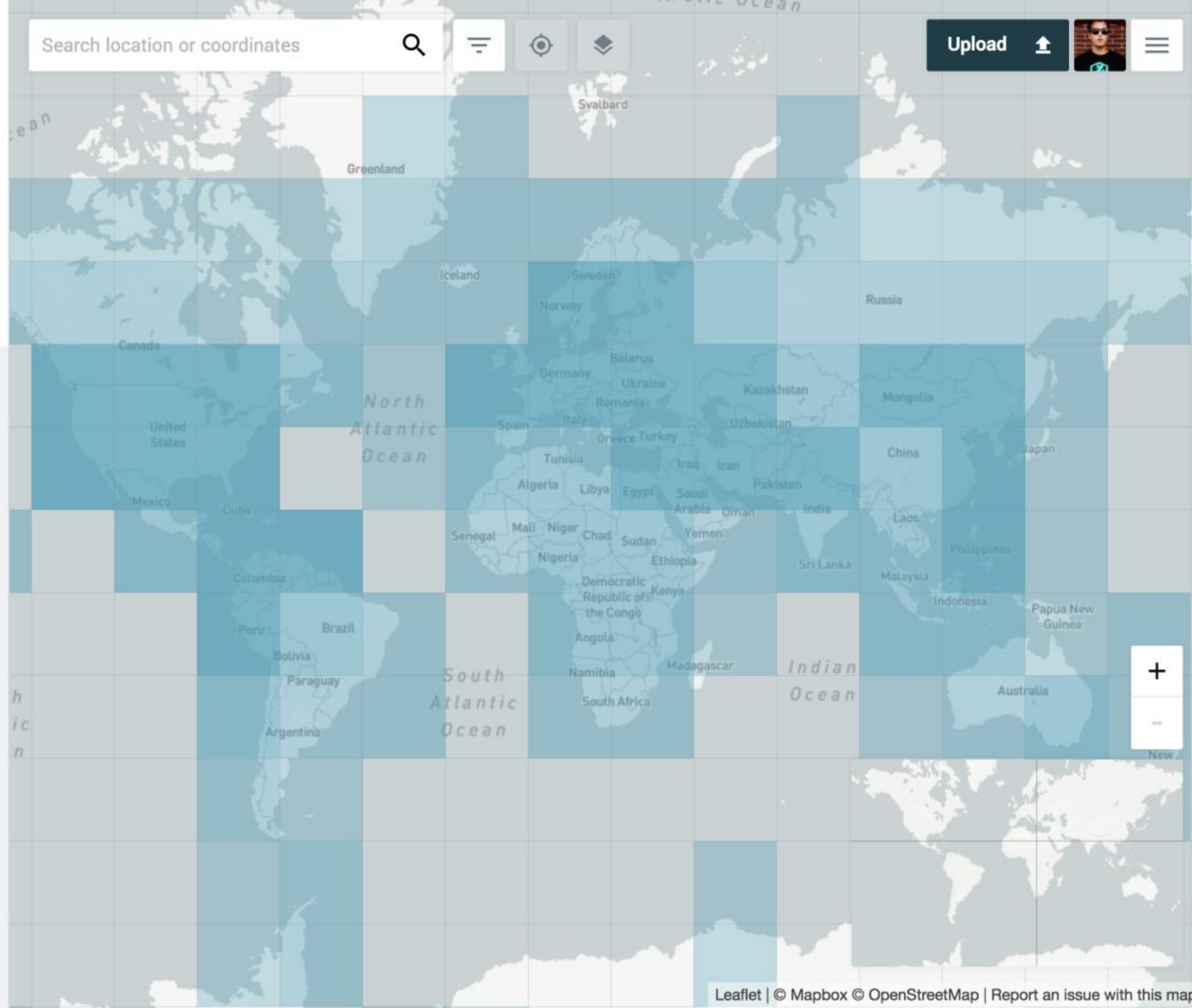
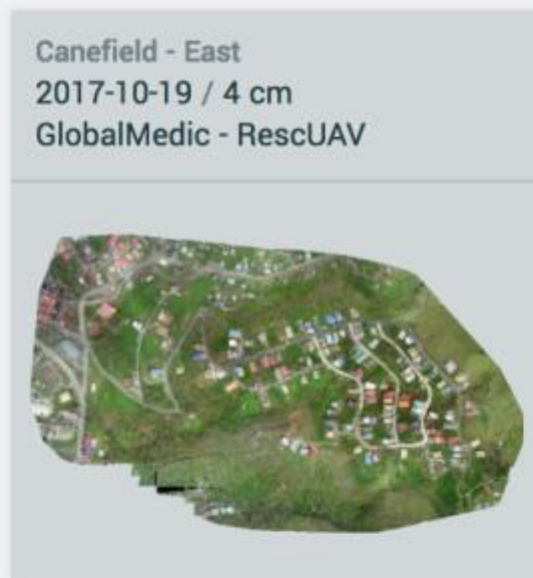
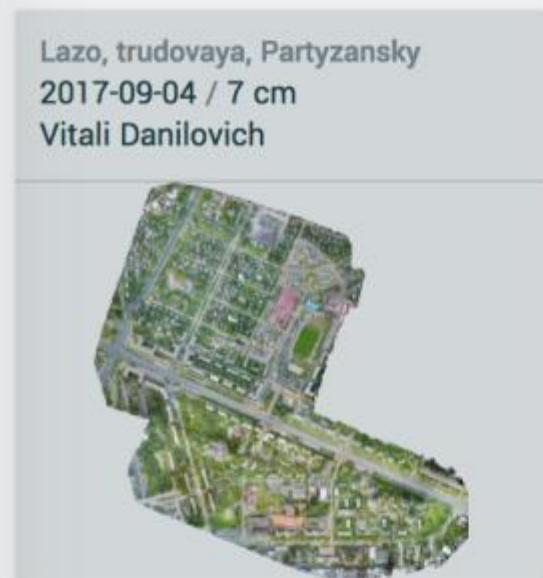


Upload

Contribute imagery

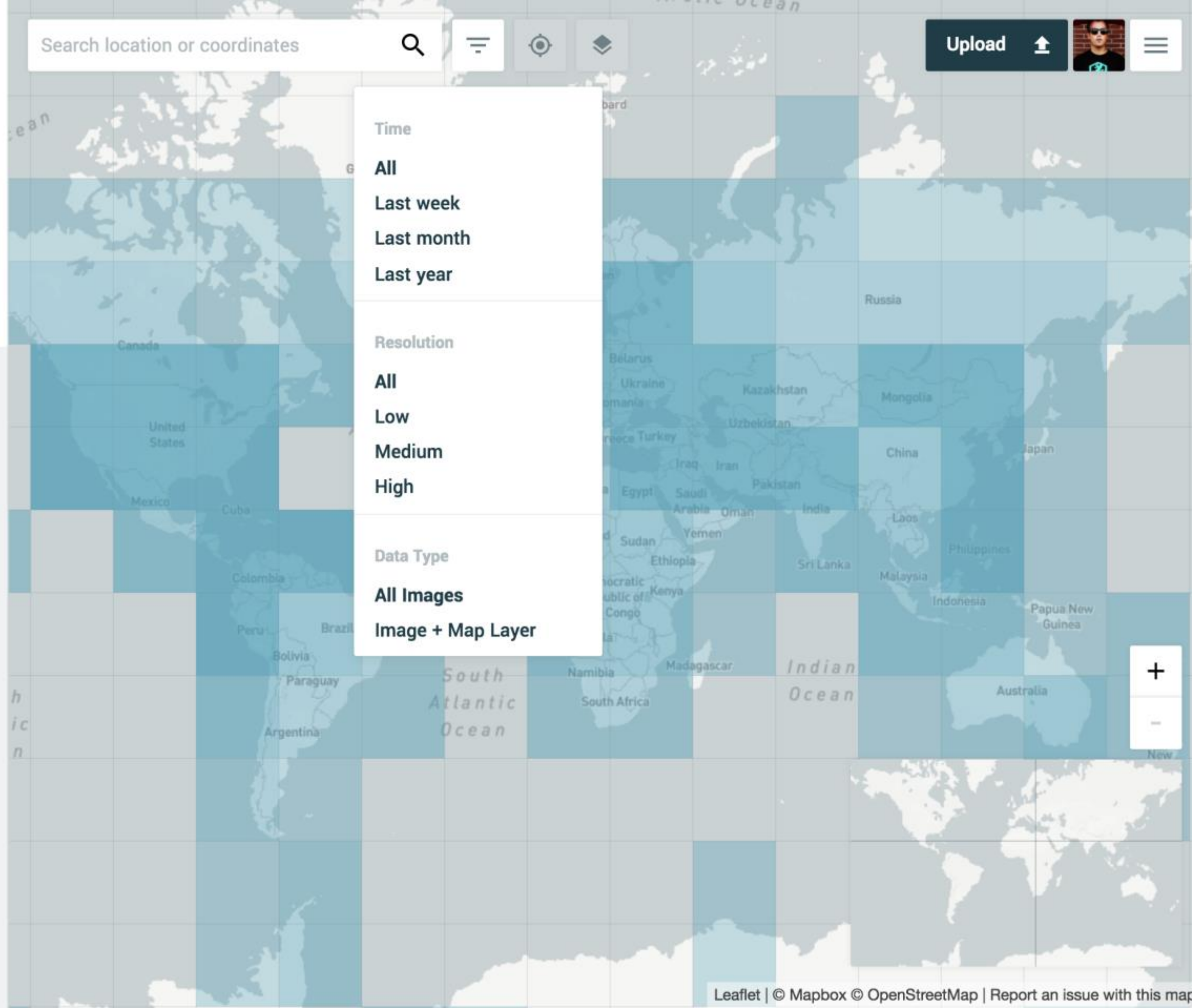
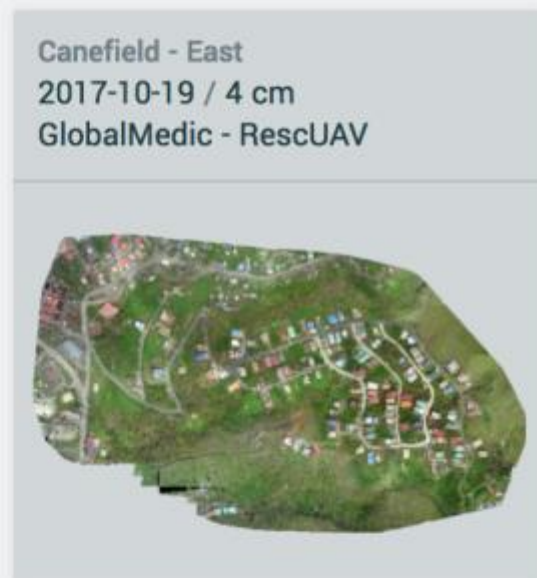
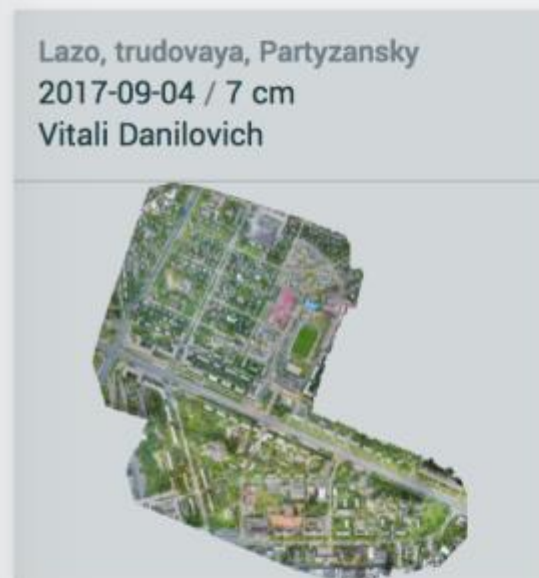
OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

Latest uploads



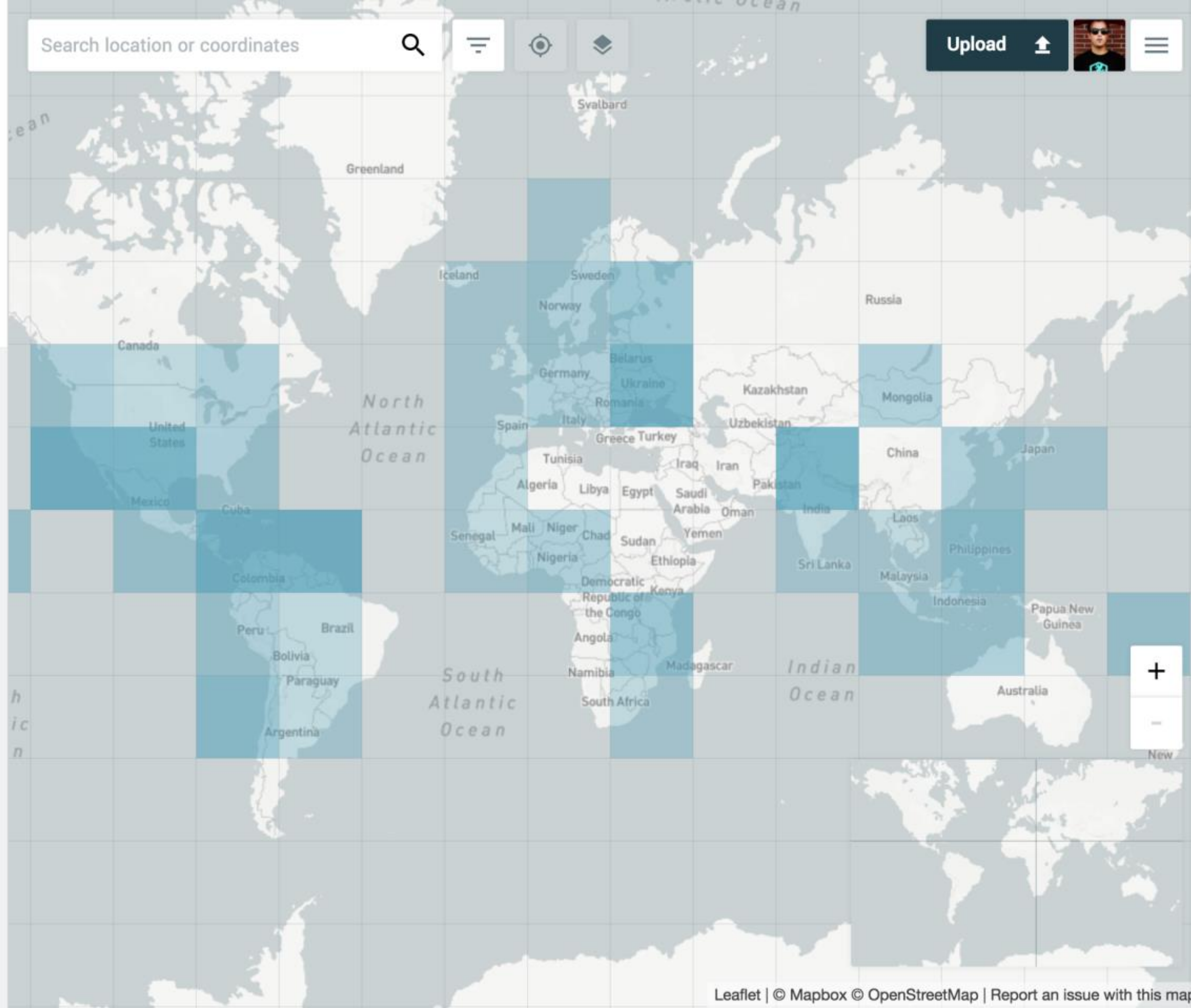
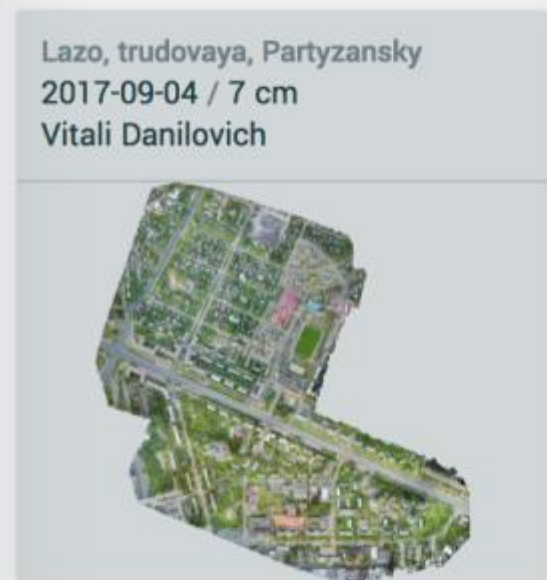
OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

Latest uploads



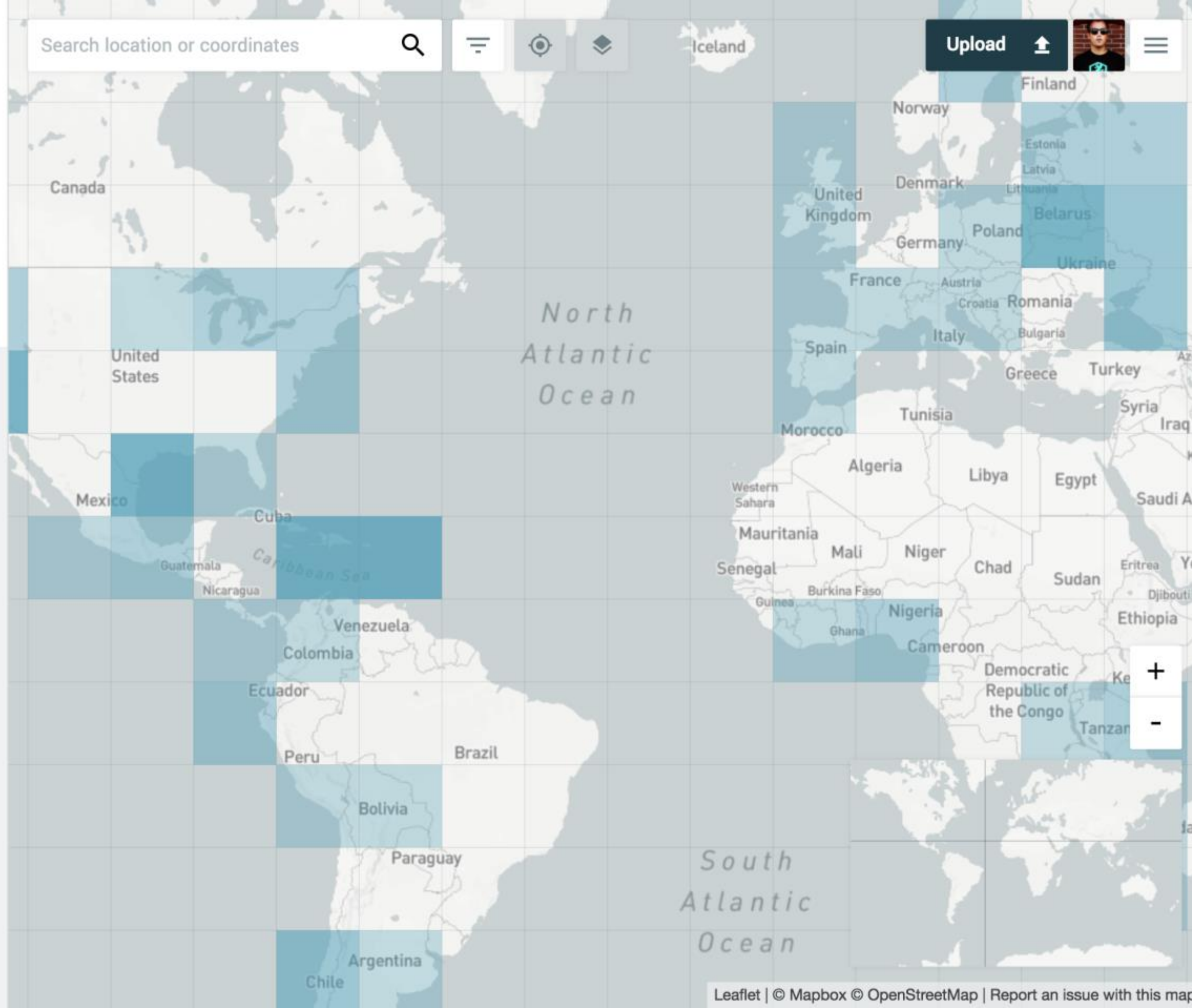
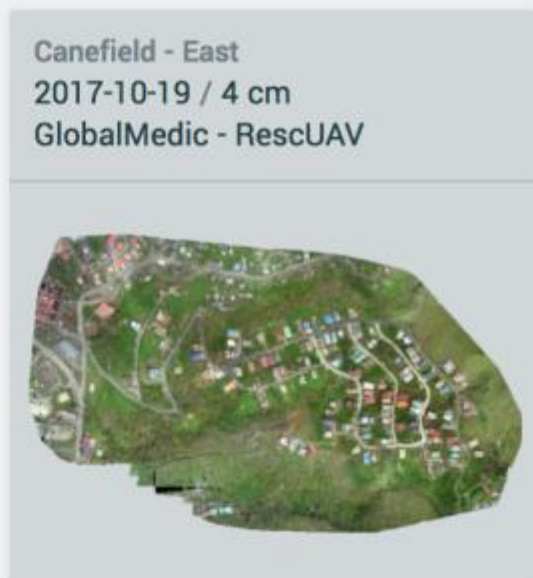
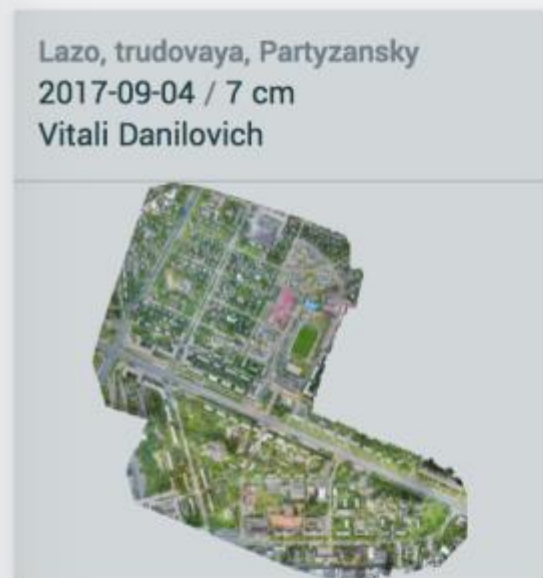
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Latest uploads



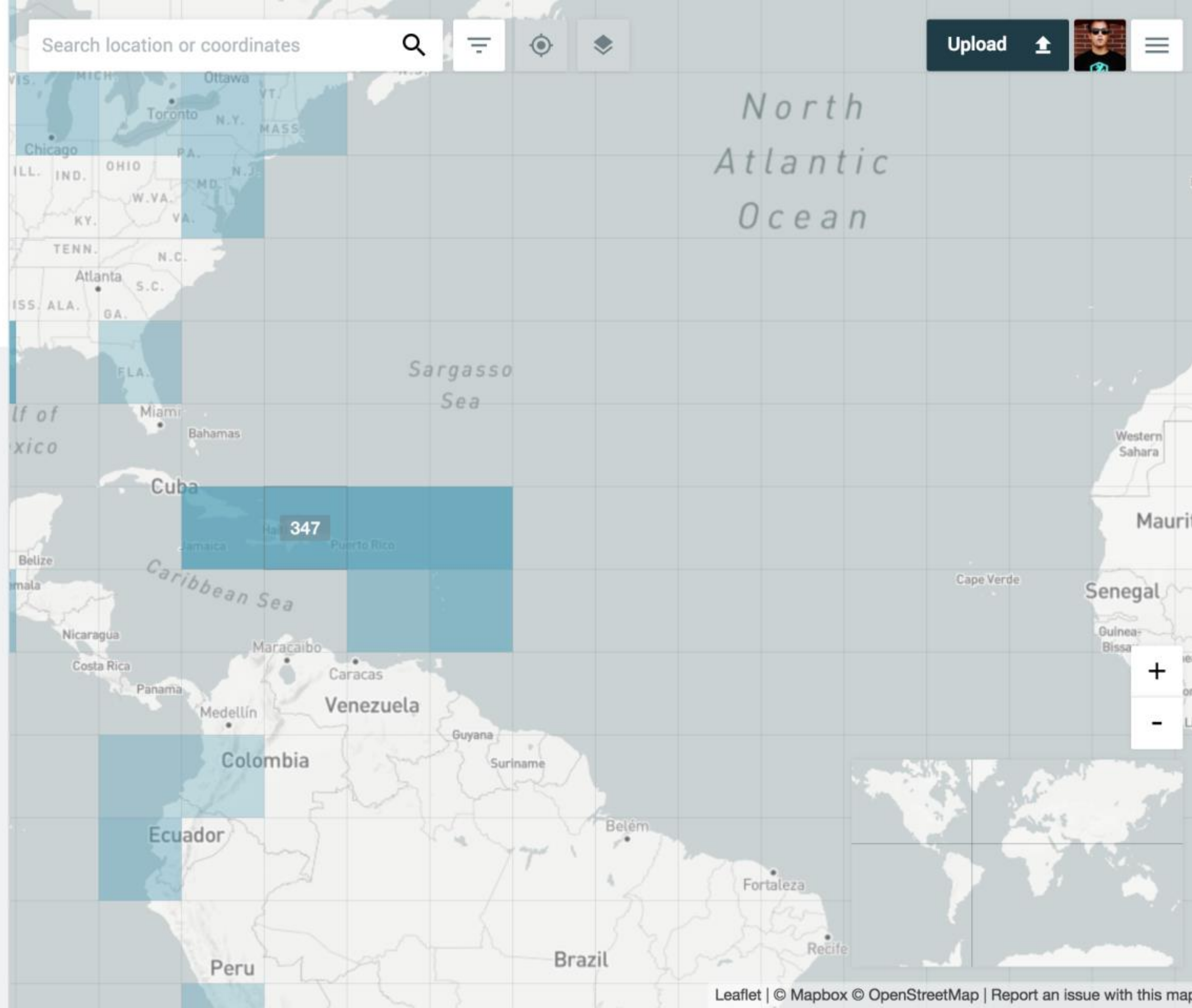
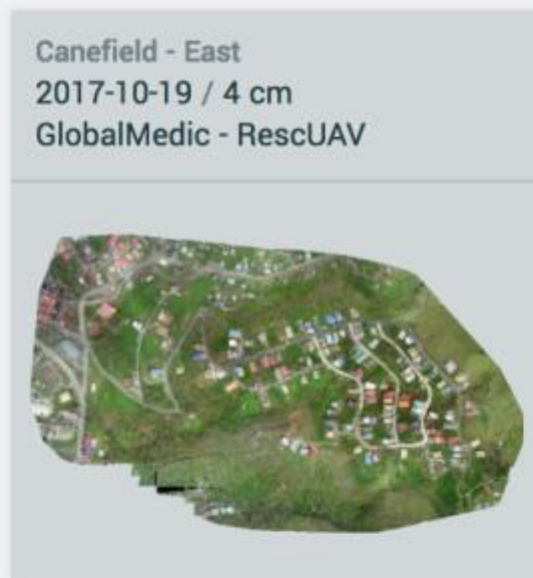
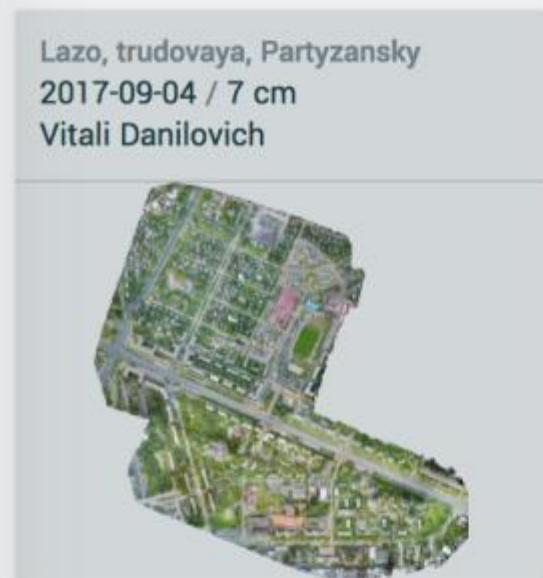
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Latest uploads



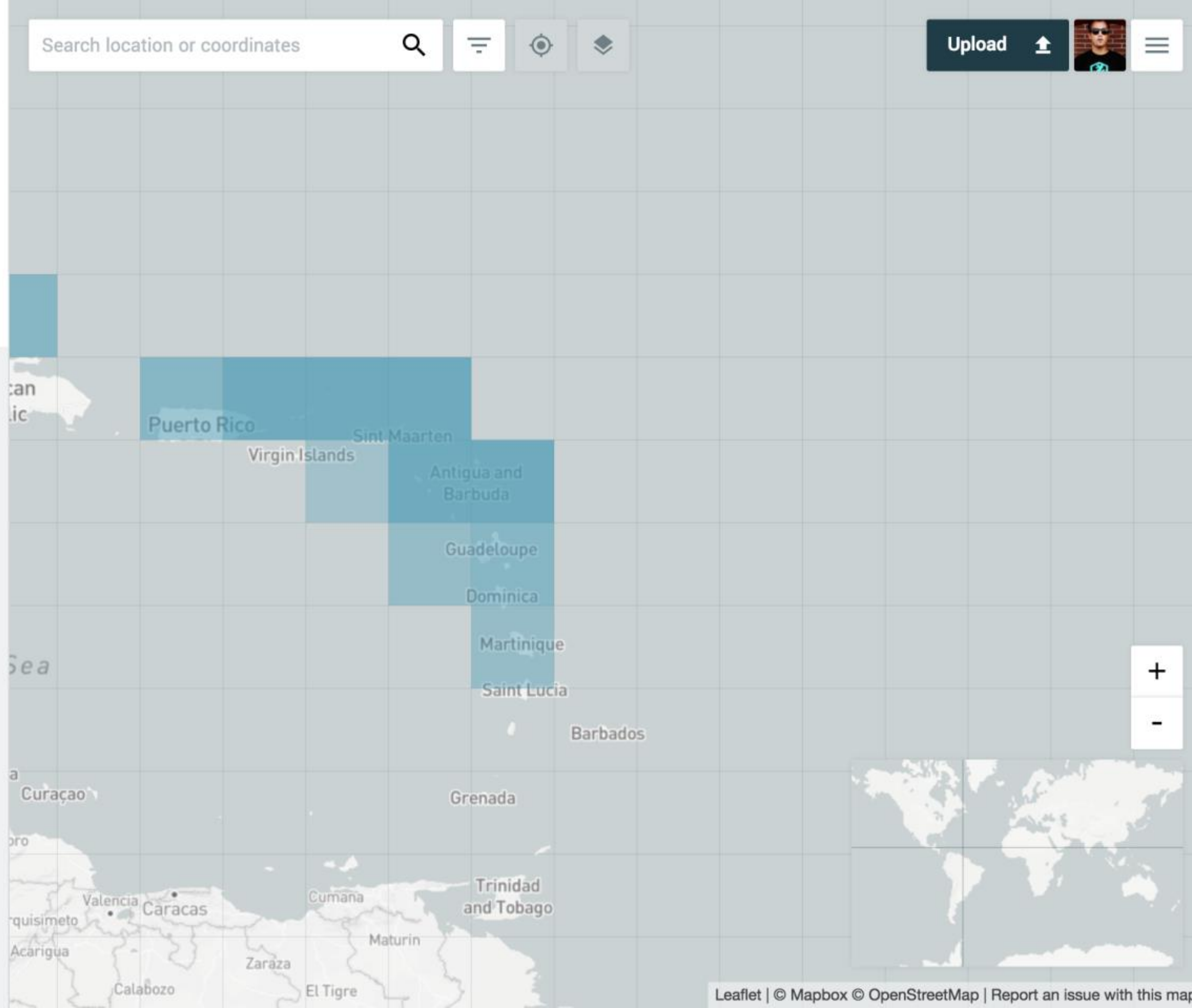
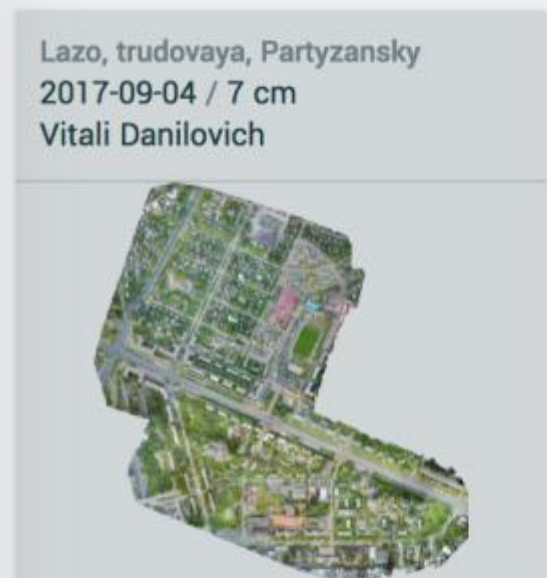
OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

Latest uploads



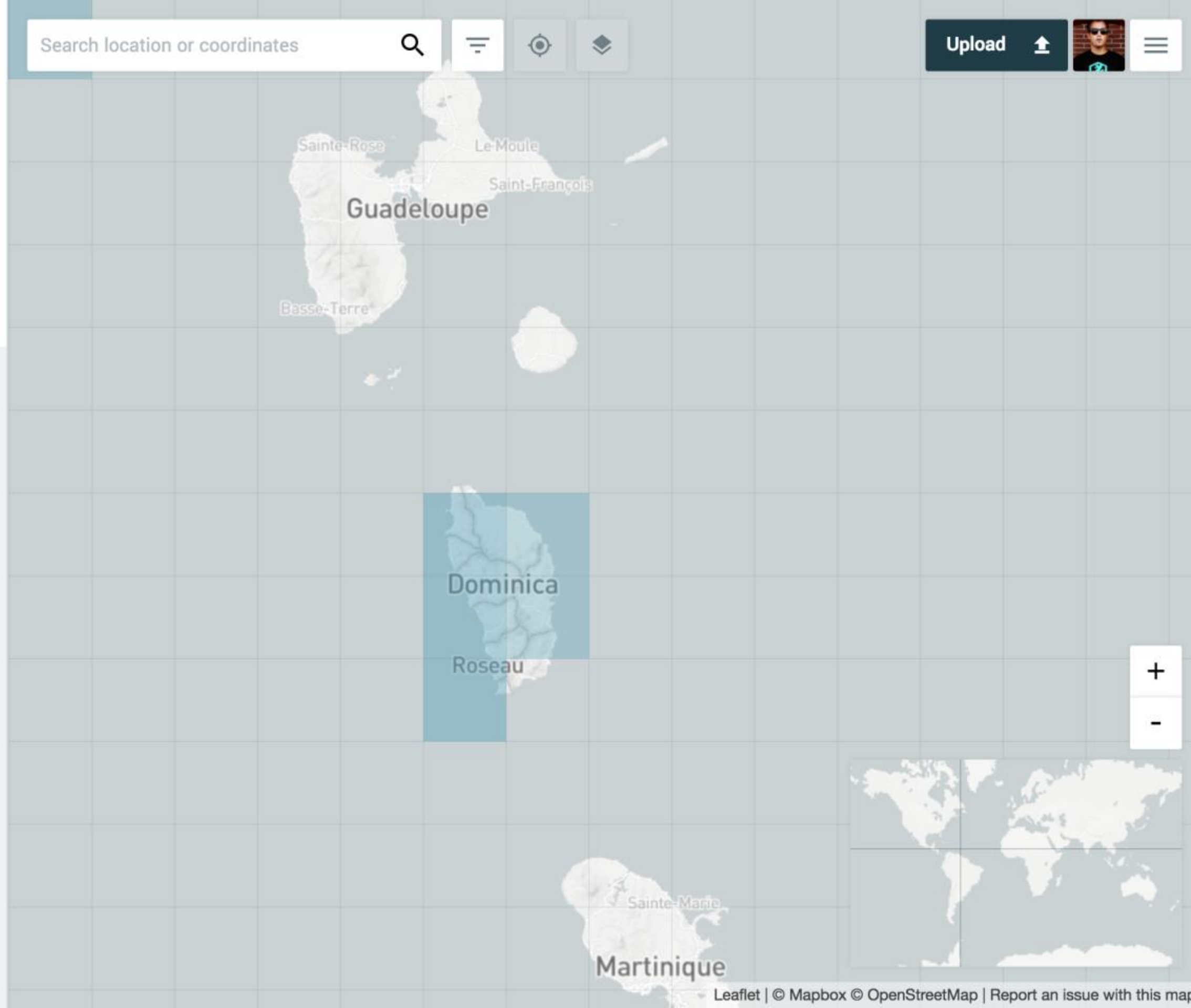
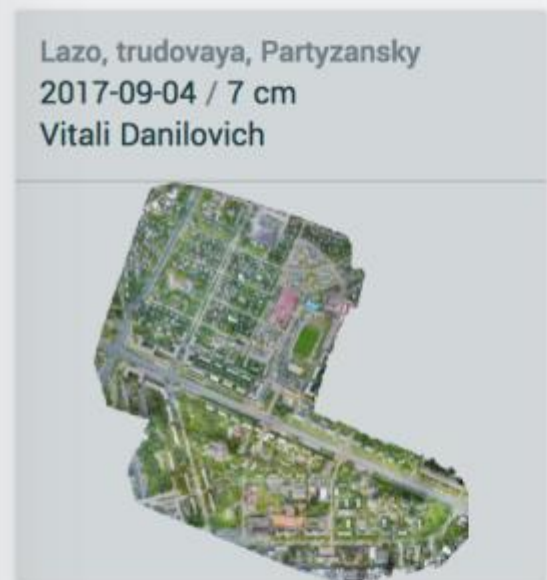
OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

Latest uploads

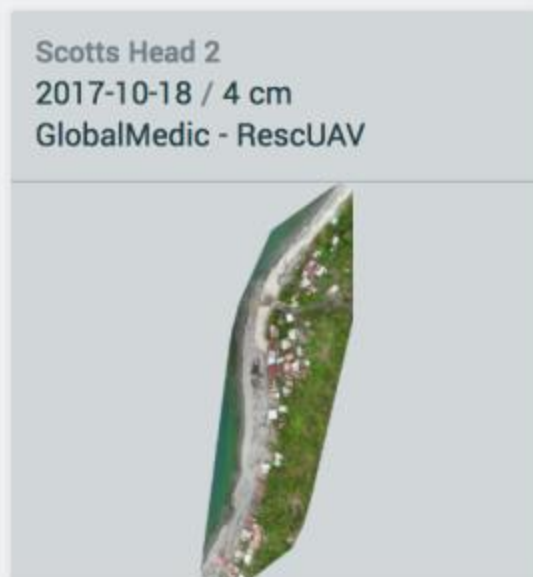
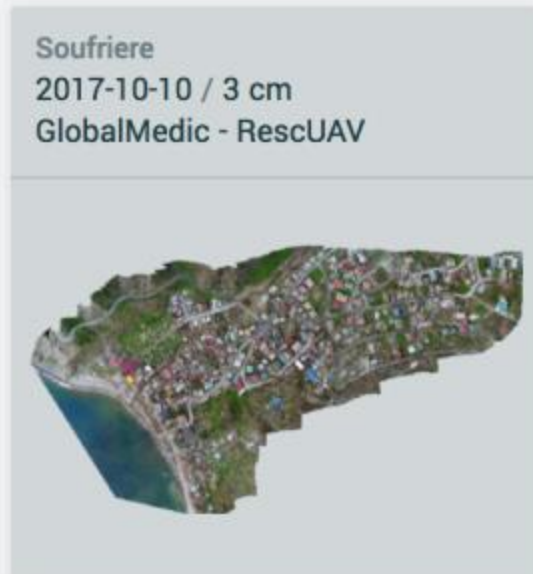
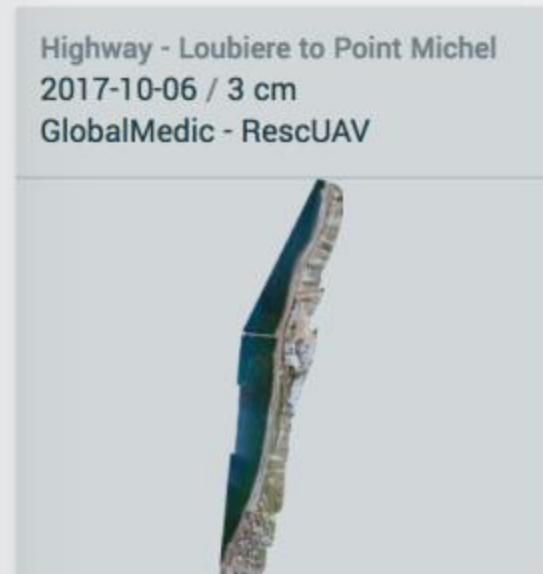


OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

Latest uploads



12 images within selected grid square



Search location or coordinates



Upload




Dominica


Roseau

+


-


 OpenAerialMap

Soufriere



GlobalMedic - RescUAV



 Display as

TMS

Thumbnail

 Open in

[iD editor](#) | [JOSM](#)

 Copy image URL

[TMS](#) | [WMTS](#)

DATE

2017-10-10


RESOLUTION


3 cm


PROVIDER


GlobalMedic - RescUAV

Search location or coordinates














Upload




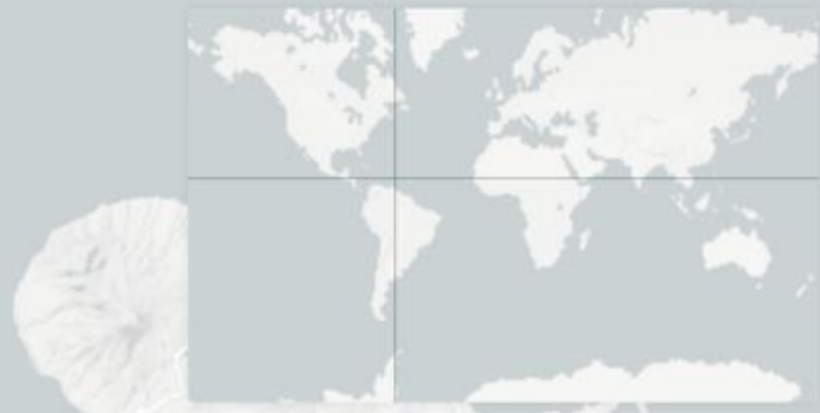












Leaflet | © Mapbox © OpenStreetMap | [Report an issue with this map](#)



Soufriere



GlobalMedic - RescUAV



Display as

TMS

Thumbnail



Open in

[iD editor](#) | [JOSM](#)



Copy image URL

[TMS](#) | [WMTS](#)

DATE

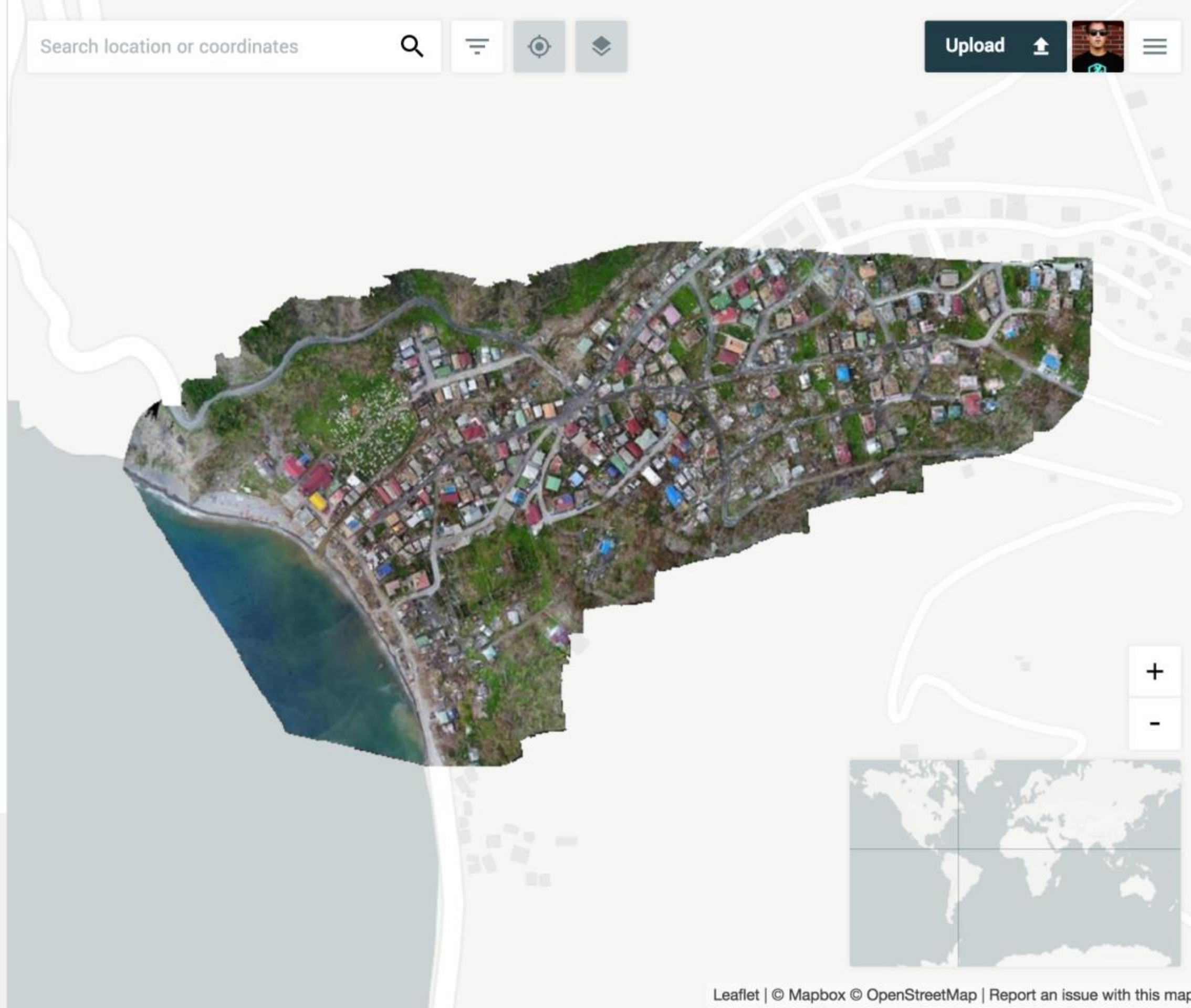
2017-10-10

RESOLUTION

3 cm

PROVIDER

GlobalMedic - RescUAV





Search features

Search



custom

500 ft



Edits by MattRomaine, Super-Map, spatialbits, and 25 others

483 hidden features



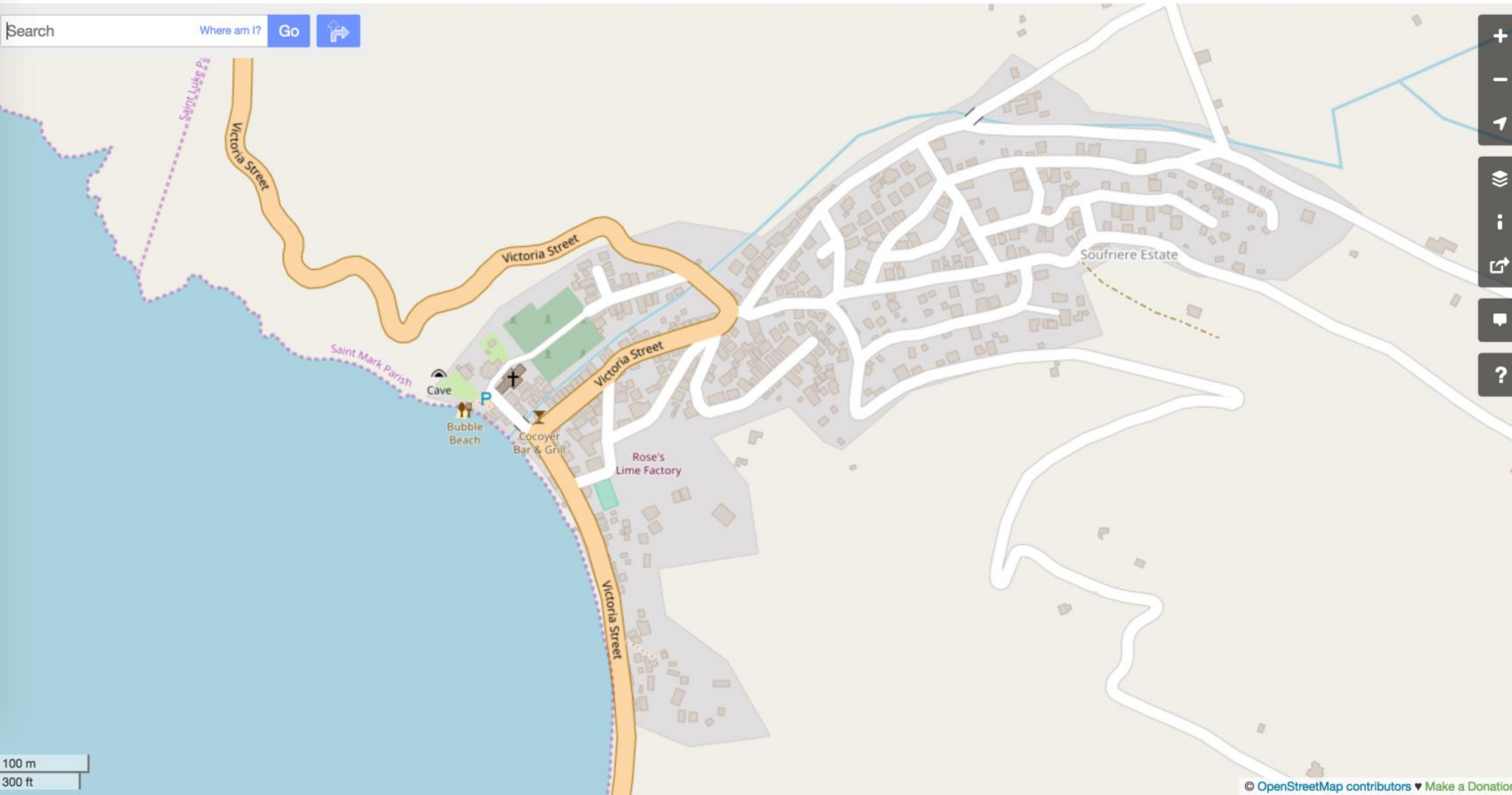
2.4.3



Search

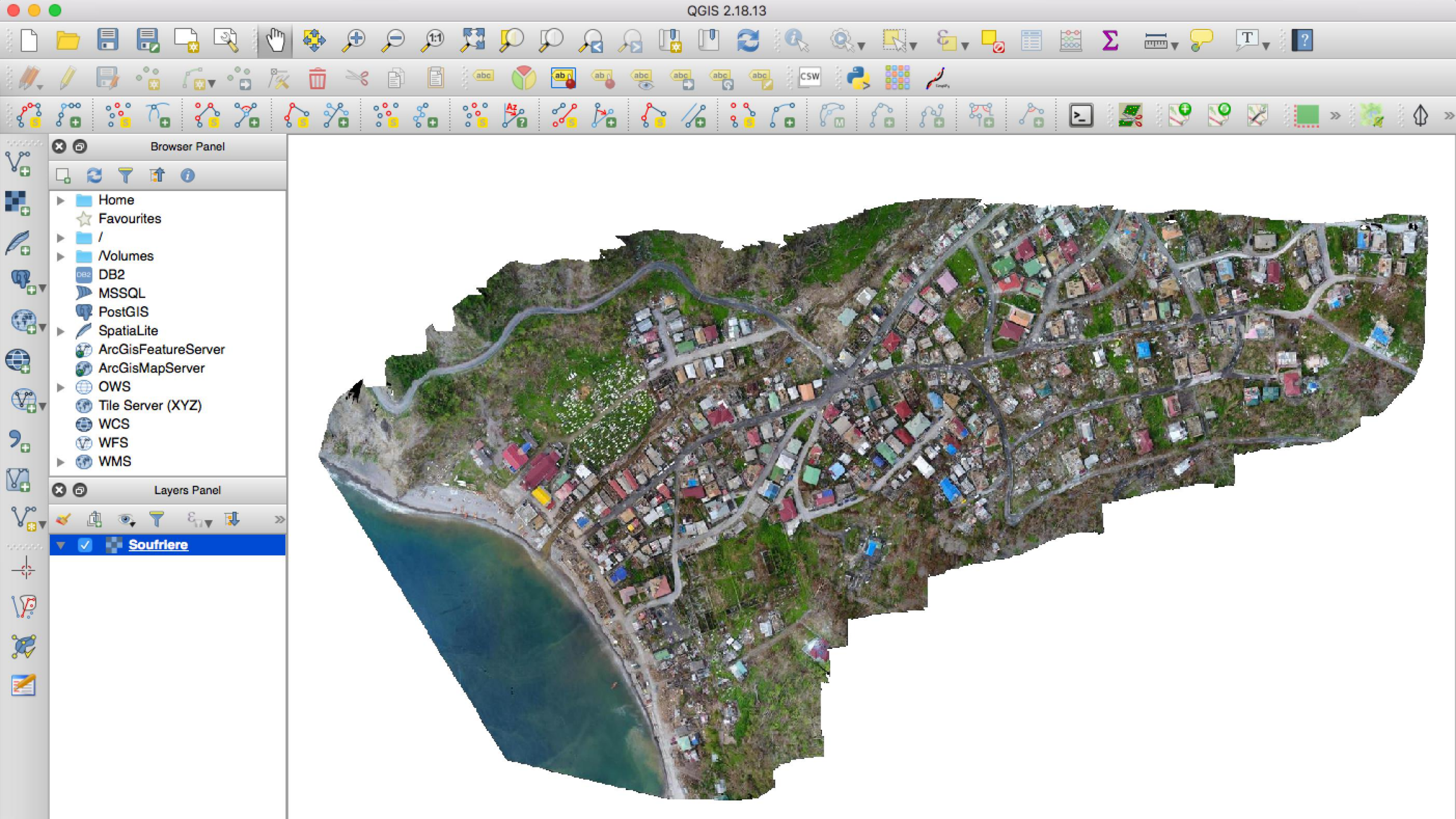
Where am I?

Go



100 m

300 ft



BEYOND
SATELLITE, UAV
PILOTS HAVE BEEN
PUBLISHING

20170518_USA_CA_SF_Dogpatch



Autonomous Imagery (www.autonomousimagery.com)



Display as

TMS

Thumbnail

Open in

[iD editor](#) | [JOSM](#)

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[TMS](#) | [WMTS](#)

DATE

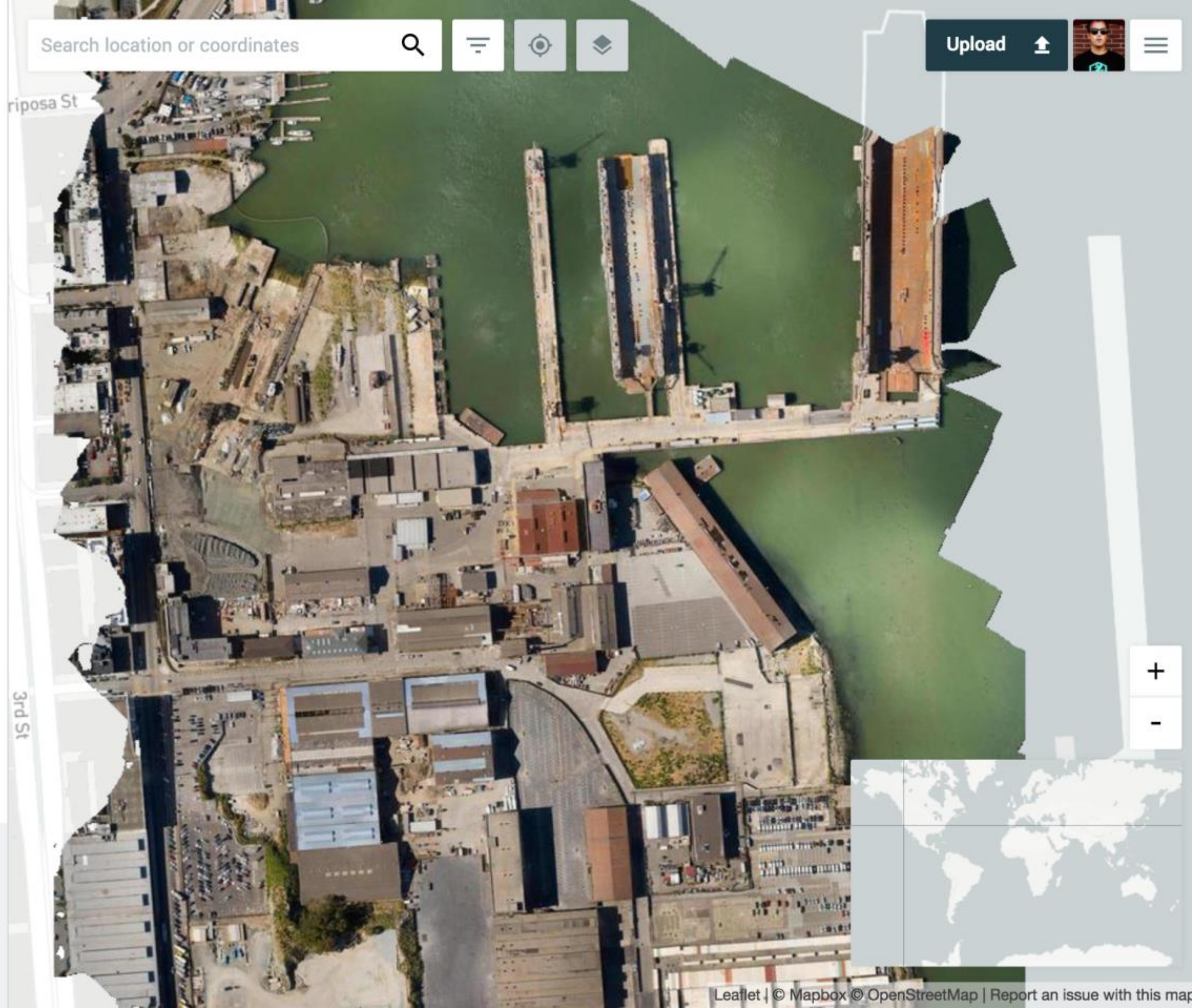
2017-05-18

RESOLUTION

2 cm

PROVIDER

Autonomous Imagery




Search location or coordinates







Upload





 OpenAerialMap

20170625_DE_Spreewald




Autonomous Imagery (www.autonomousimagery.com)




 Display as

TMS

Thumbnail

 Open in

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 Copy image URL

[TMS](#) | [WMTS](#)

DATE

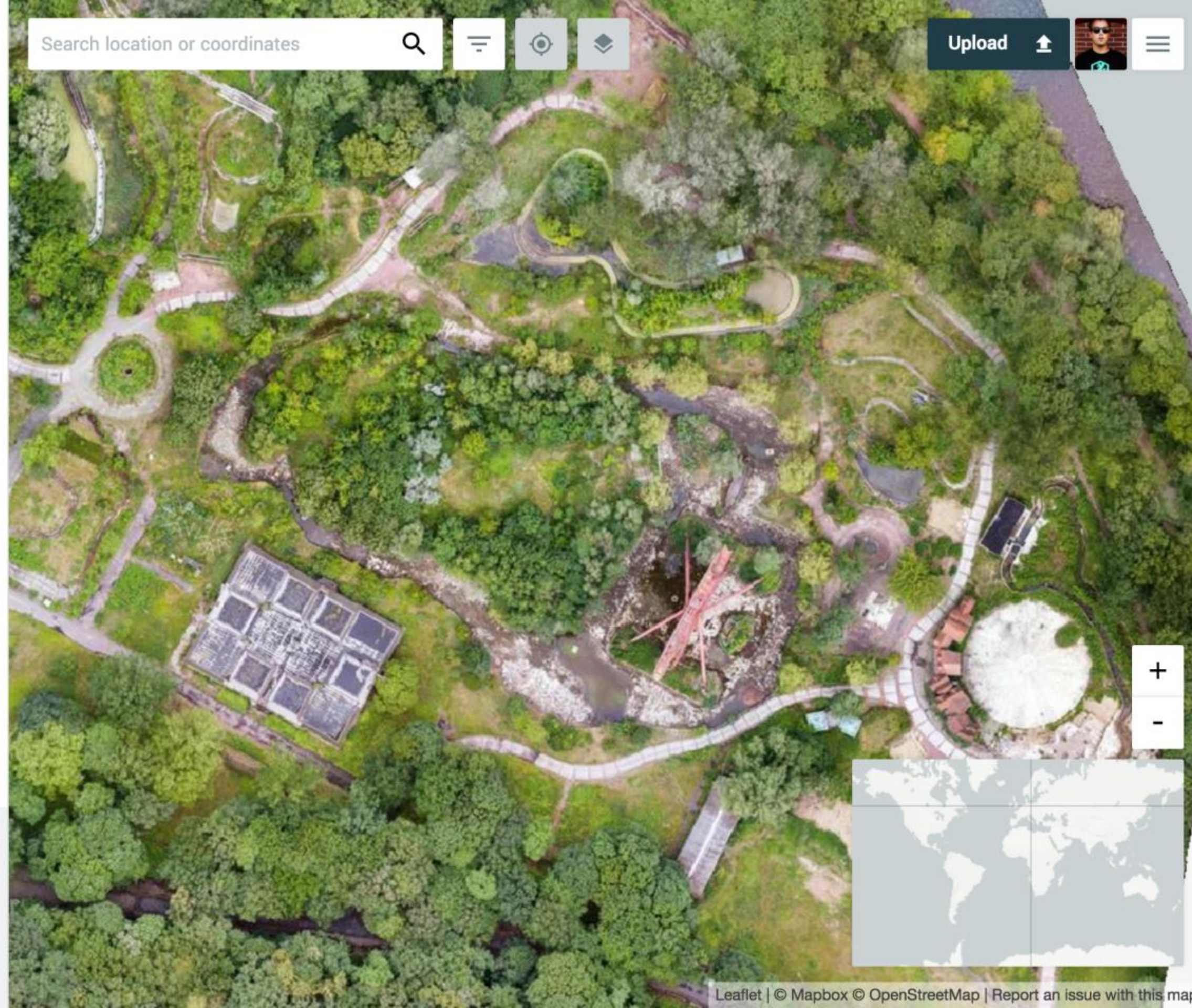
2017-06-25


RESOLUTION

2 cm





PROVIDER

Autonomous Imagery
(www.autonomousimagery.com)





 OpenAerialMap

2017-09-10 Moscow Shipyard




trolleway




 Display as

TMS

Thumbnail

 Open in

[iD editor](#) | [JOSM](#)

 Copy image URL

[TMS](#) | [WMTS](#)

DATE

2017-09-09





RESOLUTION

9 cm



PROVIDER

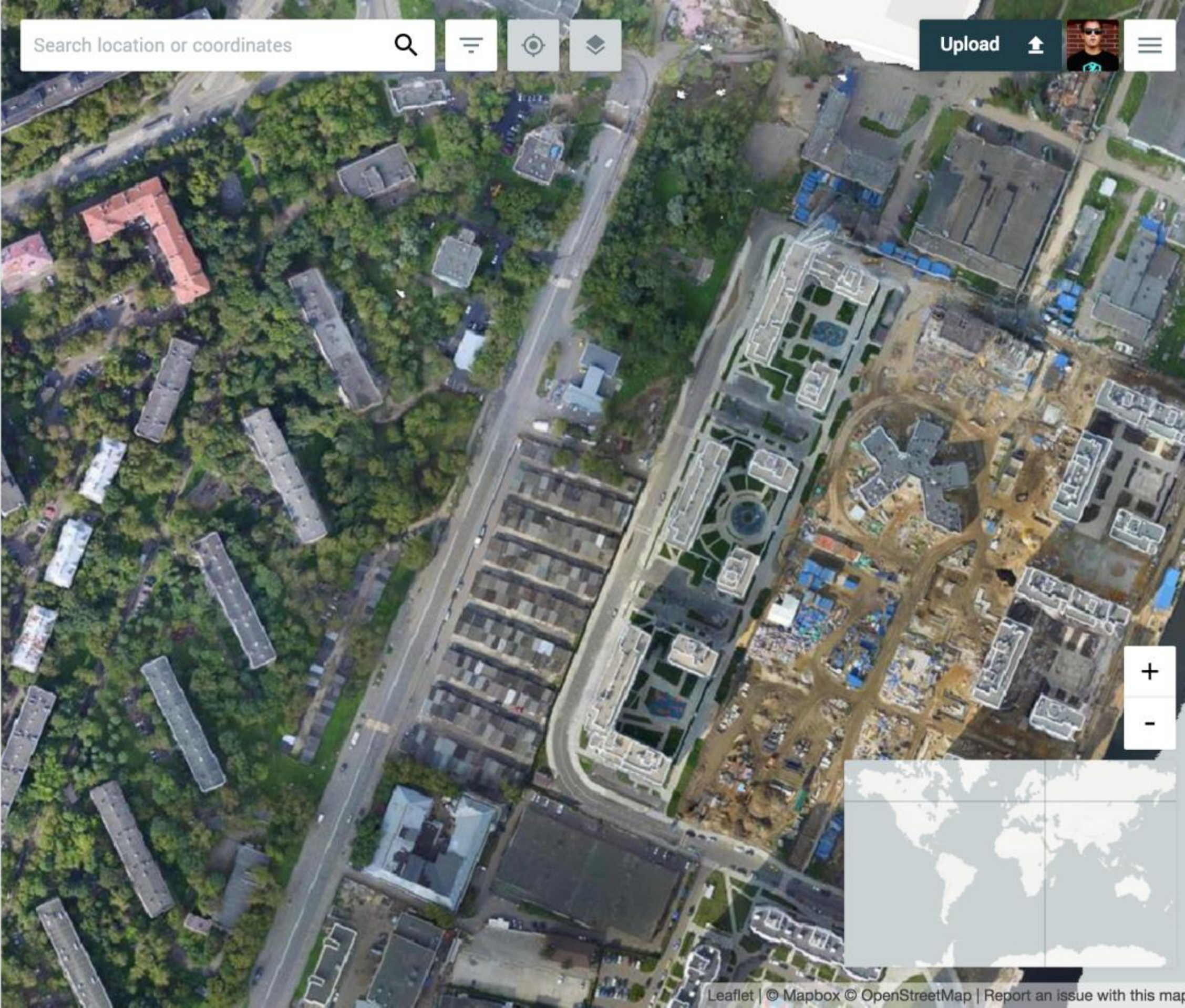
trolleway

Search location or coordinates




Upload






+





-




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 OpenAerialMap

Desa Way Hawang - Kabupaten Kaur




Indonesian Red Cross




 Display as

TMS

Thumbnail

 Open in

[iD editor](#) | [JOSM](#)

 Copy image URL

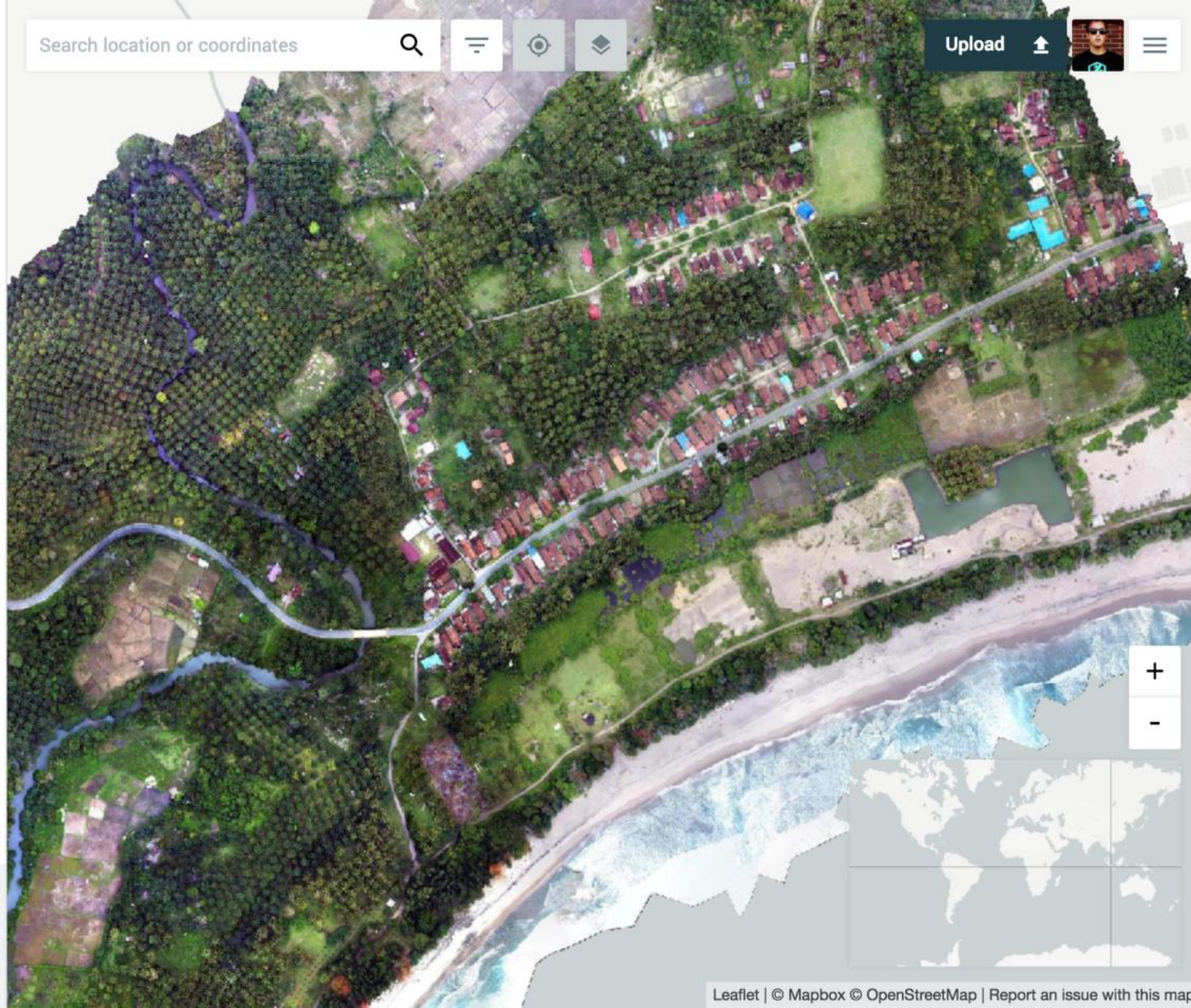
[TMS](#) | [WMTS](#)


DATE

2017-07-24





RESOLUTION

5 cm





 OpenAerialMap

UAV4R-C1P1 Abaca (NO GCPs -
with blurry frames)




V-TOL Aerospace




 Display as

TMS

Thumbnail

 Open in

[iD editor](#) | [JOSM](#)

 Copy image URL

[TMS](#) | [WMTS](#)

DATE

2017-09-26


RESOLUTION


7 cm


PROVIDER


V-TOL Aerospace

Search location or coordinates










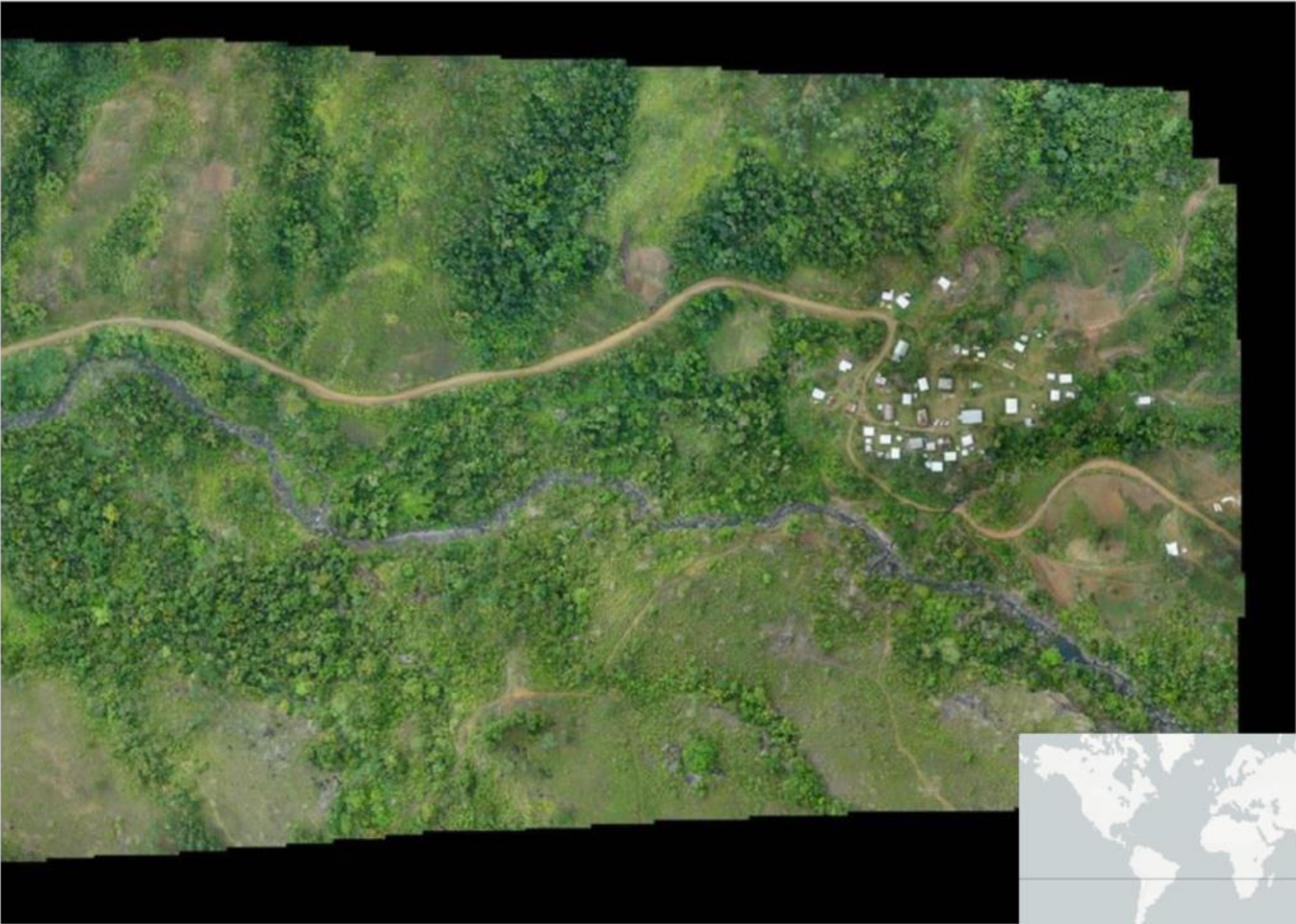


Upload










+

-



Leaflet | © Mapbox © OpenStreetMap | [Report an issue with this map](#)

- * 35 countries
- * 100+ providers have contributed imagery
- * 4,500+ images have been contributed

BUILDING A COMMUNITY OF UAV OPERATORS AND IMAGERY PROVIDERS



ENABLE MORE IMPACT THROUGH ACCESS



Tanna Tanna Hospital Ortho 06042015



Government of Vanuatu



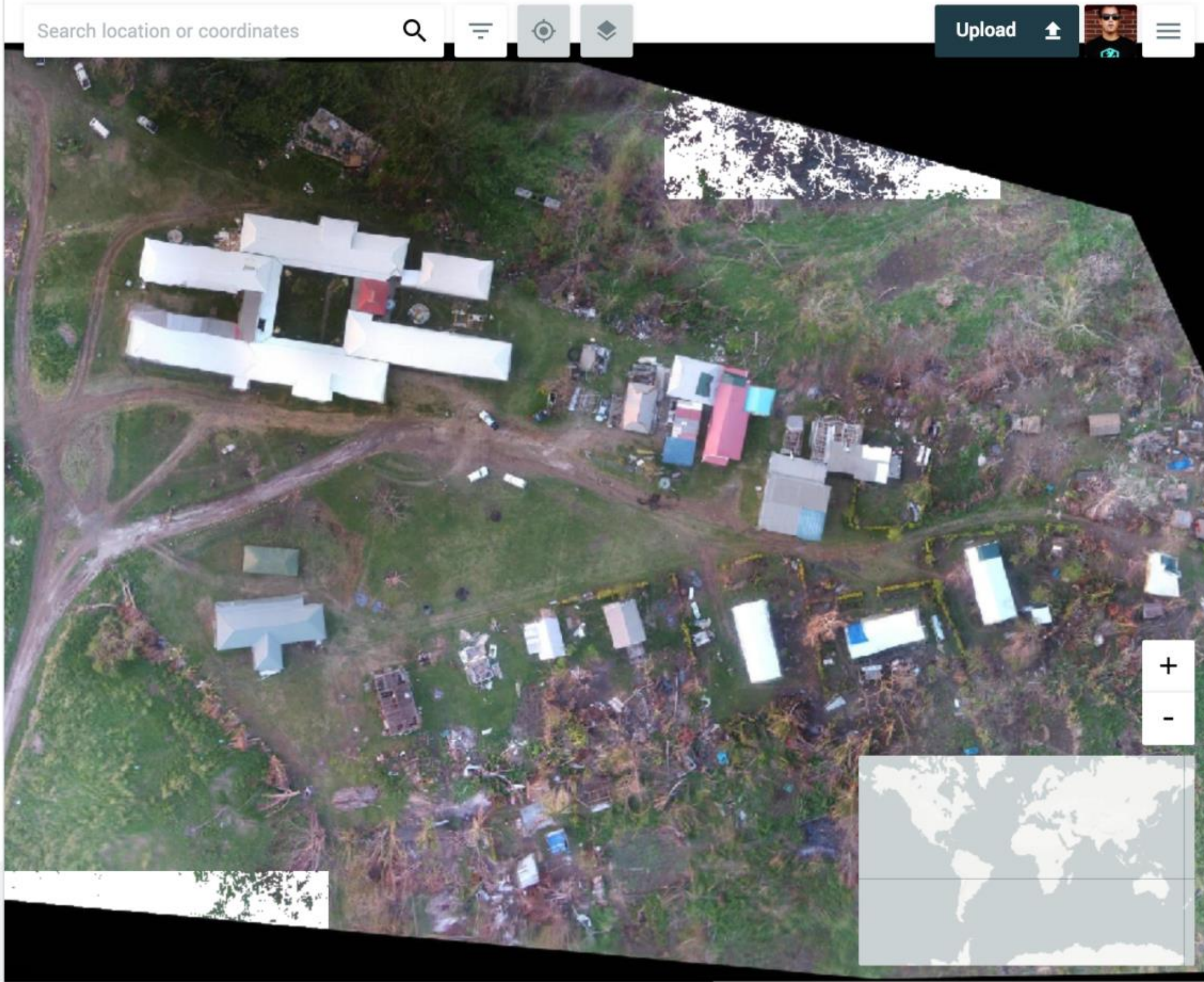
Display as **TMS** Thumbnail

Open in [iD editor](#) | [JOSM](#)

Copy image URL [TMS](#) | [WMTS](#)

DATE 2015-04-06

RESOLUTION 2 cm





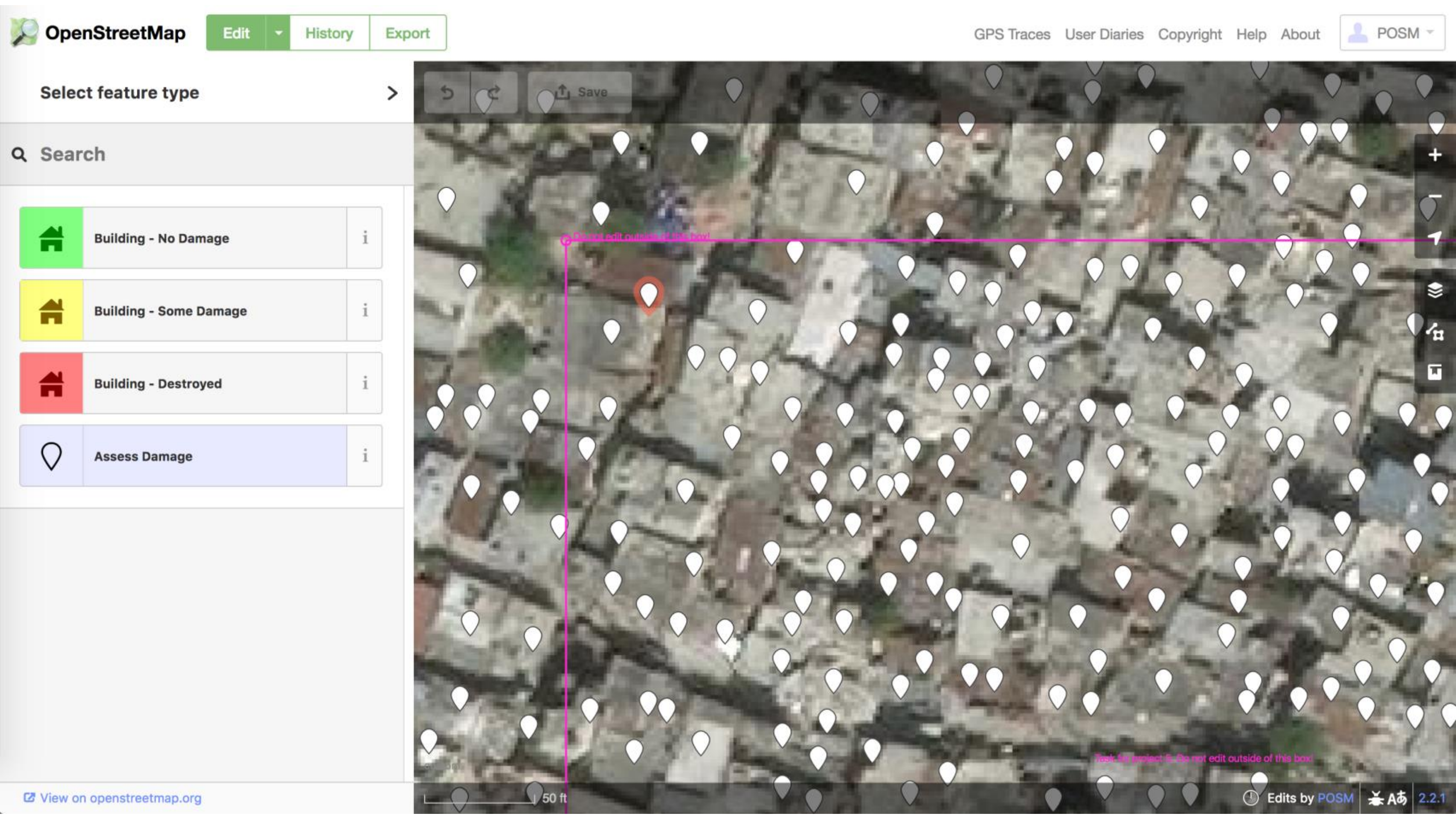
Search features

Search





CROWDSOURCING DAMAGE ASSESSMENTS



Select feature type



Search



Building - No Damage

i



Building - Some Damage

i



Building - Destroyed

i



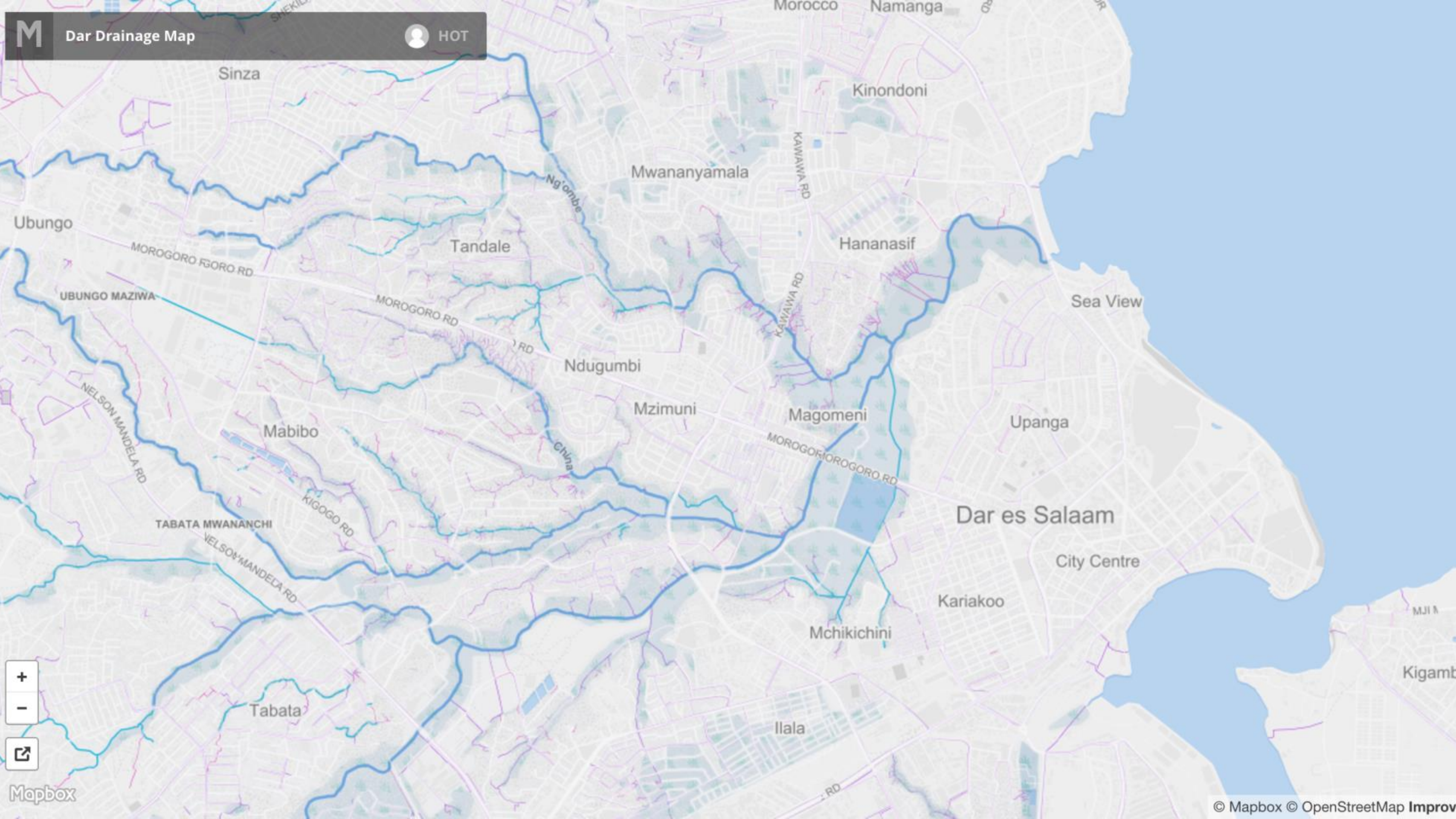
Assess Damage

i

MACHINE LEARNING FOR MALARIA ELIMINATION



FLOOD RISK IDENTIFICATION IN DAR ES SALAAM

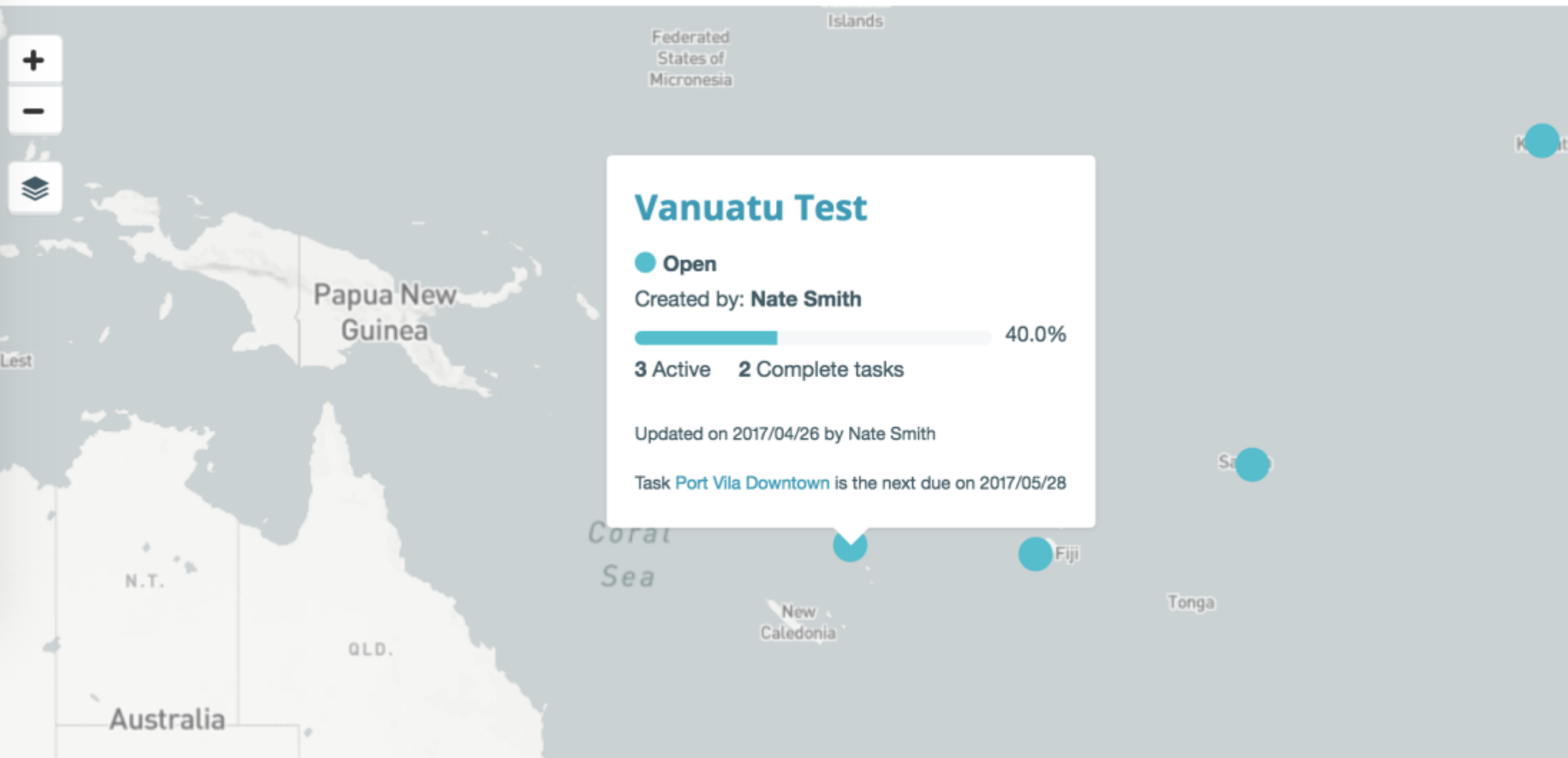


HUMANITARIAN COORDINATION IN THE PACIFIC (PacDID)

Imagery Coordination Service

Tracking and coordinating satellite and aerial imagery needs around the globe. Currently in beta.
View open requests below or [explore the search](#) to compare imagery.

5 active requests **0** closed requests



Active tasks (3)



A map snippet showing the Port Vila Central Hospital area. The hospital is highlighted in teal. Labels include 'Mangoes Resort' and 'Port Vila Central Hospital'. A road is labeled 'in Cook Avenue'.

VANUATU TEST
Port Vila Central Hospital
● In progress
Created by: **Nate Smith**
Assigned to: **SPC Surveyor**
Updated on 2017/04/27 by Nate Smith



A map snippet showing the Port Vila Central School and park area. The school and park are highlighted in teal. Labels include 'Independence Park', 'Port Vila Central School', 'Avenue Edmond Coton deau', and 'Rue Edinburgh'.

VANUATU TEST
Port Vila Central School and park
● In progress
Created by: **Nate Smith**
Assigned to: **SPC Surveyor**
Updated on 2017/04/28 by Nate Smith



A map snippet showing the Port Vila Downtown area. The downtown area is highlighted in teal. The label 'Port Vila' is visible on the left.

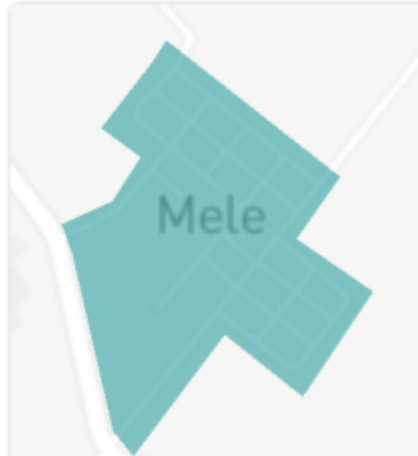
VANUATU TEST
Port Vila Downtown
● Open
Created by: **Nate Smith**
Assigned to: **SPC Surveyor**
Updated on 2017/04/27 by Nate Smith

Completed tasks (2)



A map snippet showing the Iririki Island area. The island is highlighted in teal. The label 'Iririki Island' is visible.

VANUATU TEST
Iririki Island area
● Completed
Created by: **Nate Smith**
Assigned to: **SPC Surveyor**



A map snippet showing the Mele area. The area is highlighted in teal. The label 'Mele' is visible.

VANUATU TEST
Mele area
● Completed
Created by: **Nate Smith**
Assigned to: **SPC Surveyor**
Updated on 2017/04/27 by Nate Smith

COMING SOON

OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

Latest uploads

Lazo, trudovaya, Partyzansky
2017-09-04 / 7 cm
Vitali Danilovich



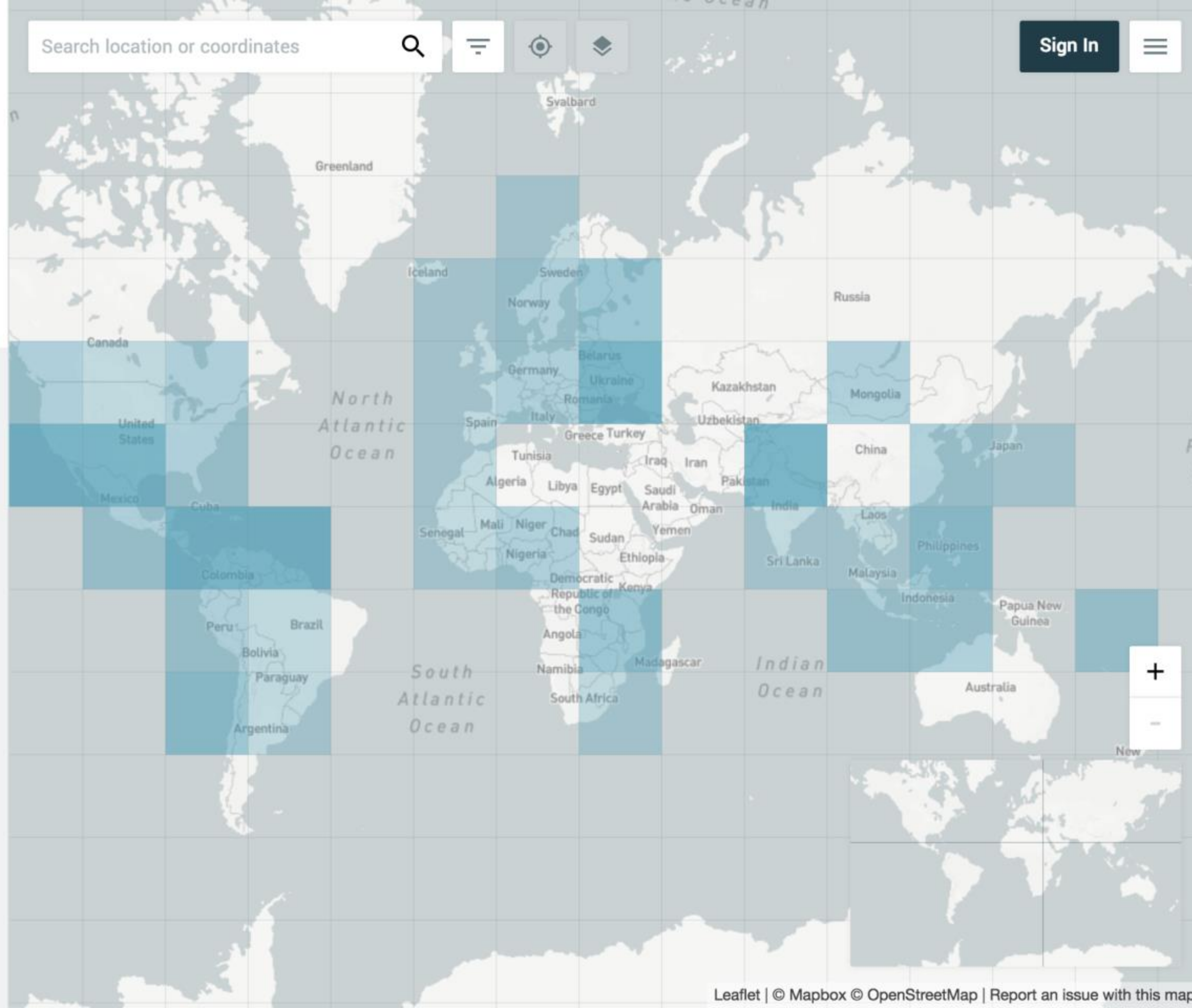
nu
2017-10-16 / 8 cm
gm

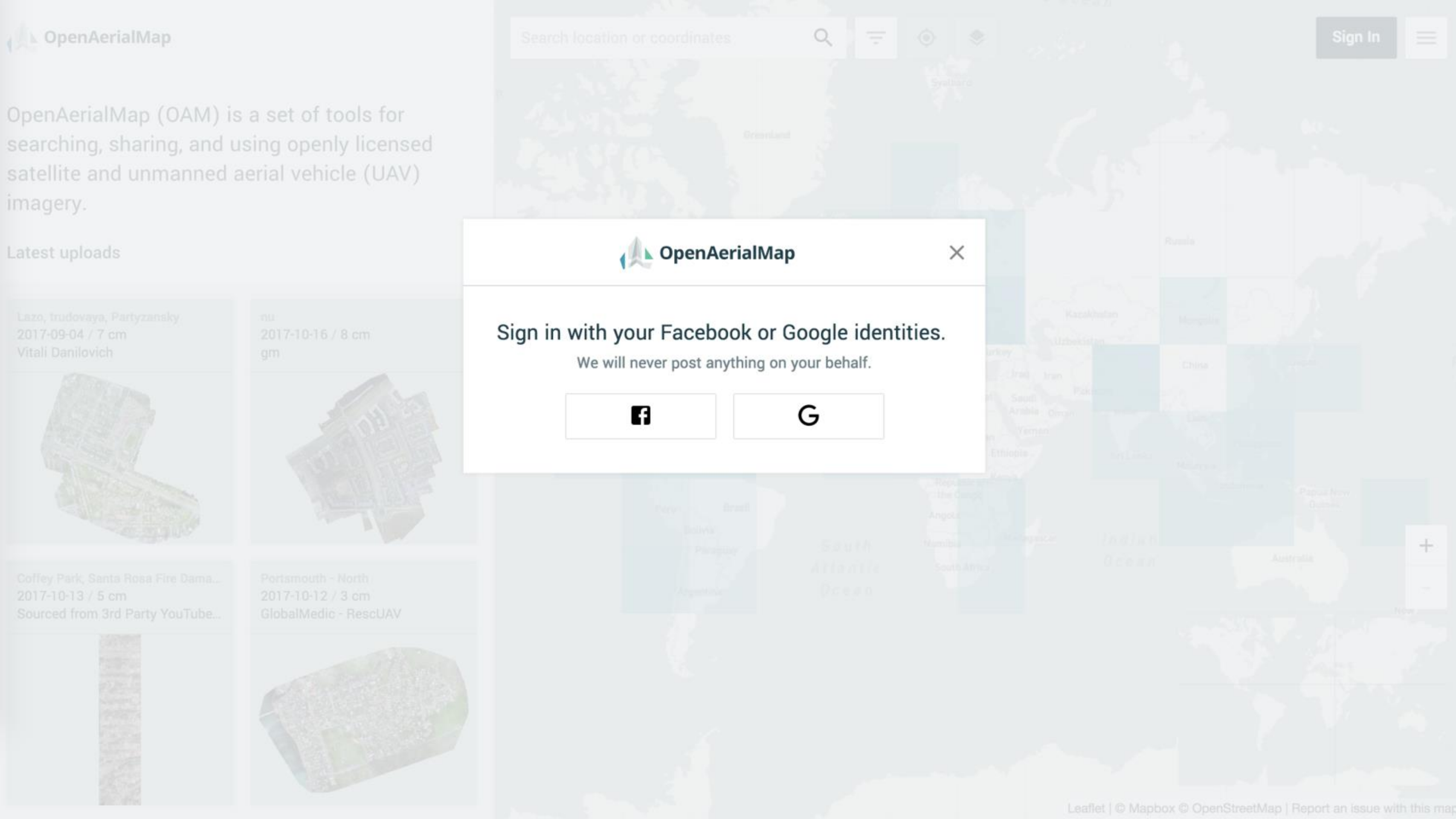


Coffey Park, Santa Rosa Fire Dama...
2017-10-13 / 5 cm
Sourced from 3rd Party YouTube...



Portsmouth - North
2017-10-12 / 3 cm
GlobalMedic - RescUAV





OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

Latest uploads

Lazo, trudovaya, Partyzansky
2017-09-04 / 7 cm
Vitali Danilovich



nu
2017-10-16 / 8 cm
gm





Coffey Park, Santa Rosa Fire Dama...
2017-10-13 / 5 cm
Sourced from 3rd Party YouTube...





Portsmouth - North
2017-10-12 / 3 cm
GlobalMedic - RescUAV



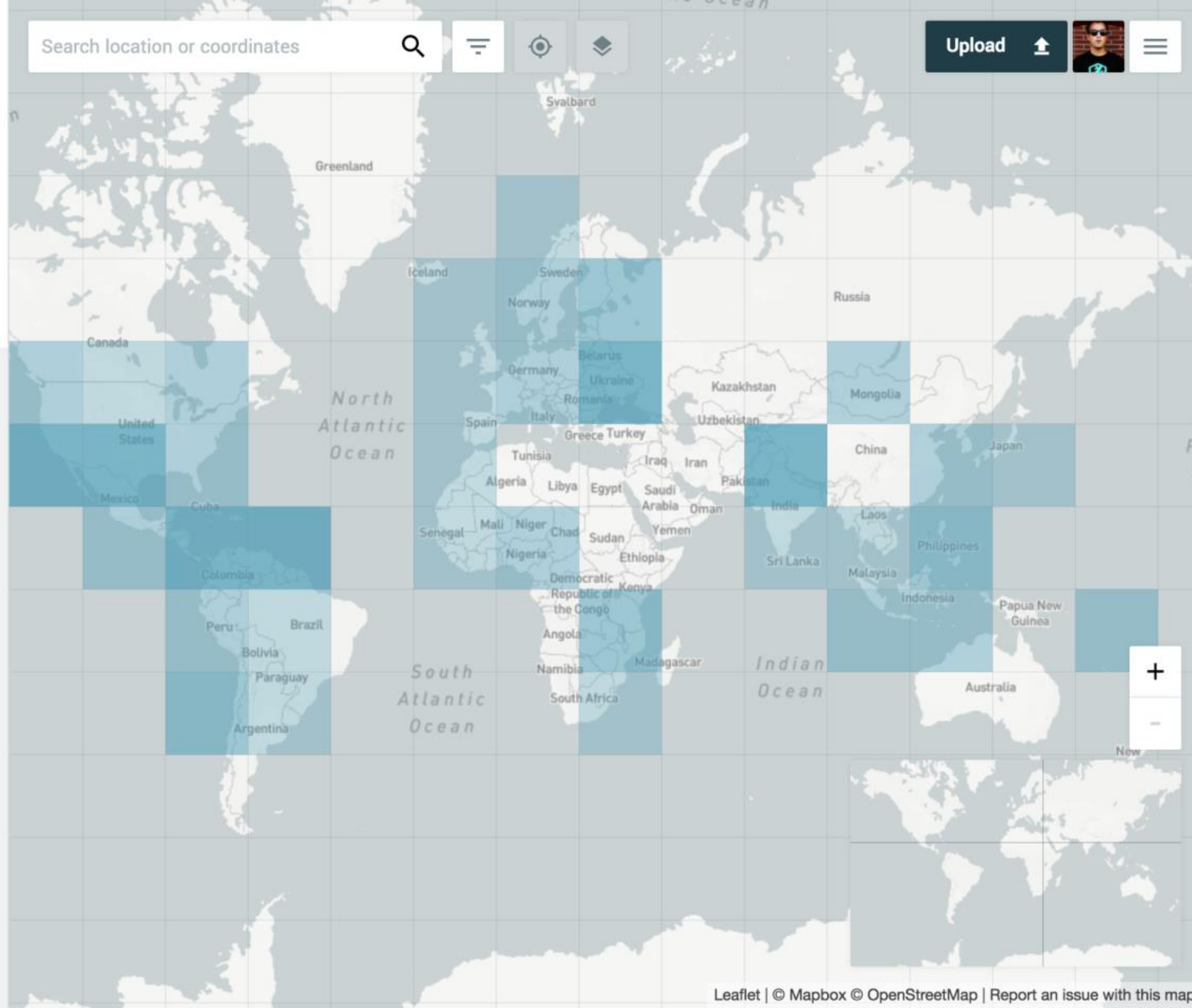
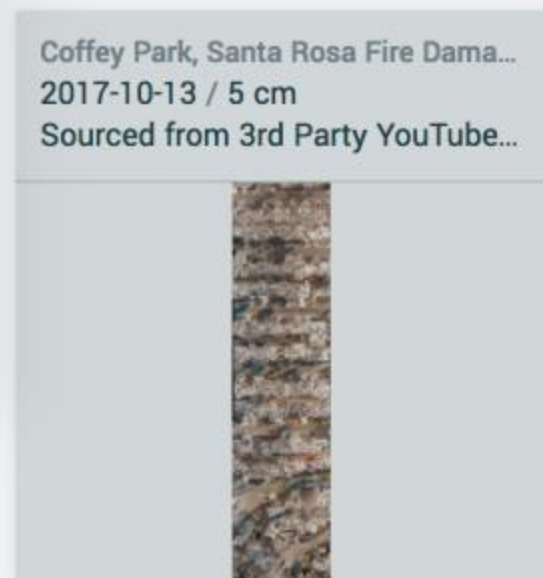
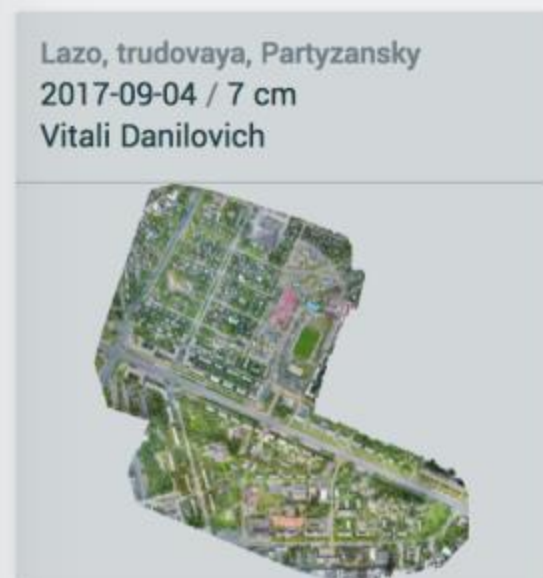
 OpenAerialMap 

Sign in with your Facebook or Google identities.
We will never post anything on your behalf.

OpenAerialMap (OAM) is a set of tools for searching, sharing, and using openly licensed satellite and unmanned aerial vehicle (UAV) imagery.

Latest uploads



Your Images

No uploaded images yet.

Your Profile



Nate Smith
nate@hotosm.org

[View your profile](#) >

[Edit your profile](#) >



Upload Imagery

Title

My New Imagery



Platform

☐ Satellite ☐ Aircraft ☒ UAV ☐ Ballon ☐ Kite

Sensor

High Quality Sensor

Type or model of image sensor or camera used (ex: Worldview-3).

Date start

Oct 21, 2017 12:00 AM



If the exact start time is unknown using 00:00:00 will suffice.

Date end

Oct 21, 2017 7:55 AM



If the exact end time is unknown using 23:59:59 will suffice.

Imagery location

Local File



Url



Dropbox



Drive



Select file source location

Tags

Comma-separated tags

Any additional metadata tags applicable to the dataset.

Contact

☒ Same as uploader ☐ Other

License

☒ CC-BY 4.0

New dataset



By submitting imagery to OpenAerialMap, you agree to place your imagery into the [Open Imagery Network \(OIN\)](#). All imagery contained in OIN is licensed [CC-BY 4.0](#), with attribution as contributors of Open Imagery Network. All imagery is available to be traced in OpenStreetMap.

Submit




Uploading image (26%)...


Dataset: My New Imagery

PLATFORM	uav
SENSOR	High Quality Sensor
PROVIDER	World Bank
ACQUISITION DATE	2017-10-21 at 0:00 - 2017-10-21 at 7:55
CONTACT	Nate Smith nate@hotosm.org

Image 0

STARTED	2017-10-21 at 7:58
STATUS	Processing 
INFO	Upload in progress.

Your Images

	<p>My New Imagery</p> <p>Uploaded: 2017-10-21T16:20:23.085Z</p> <p>Sensor: High Quality Sensor</p> <p>Resolution: 0.067000000000000675m</p> <p>File size: 35730.741k</p> <p>Edit Delete</p>
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Your Profile

	<p>Nate Smith</p> <p>nate@hotosm.org</p>
View your profile >	
Edit your profile >	



Nate Smith

hotosm.org

Hello!

My New Imagery
2017-10-21 / 7 cm



Contact: info@openaerialmap.org [About](#) [Help](#) [Terms](#)

Status ●

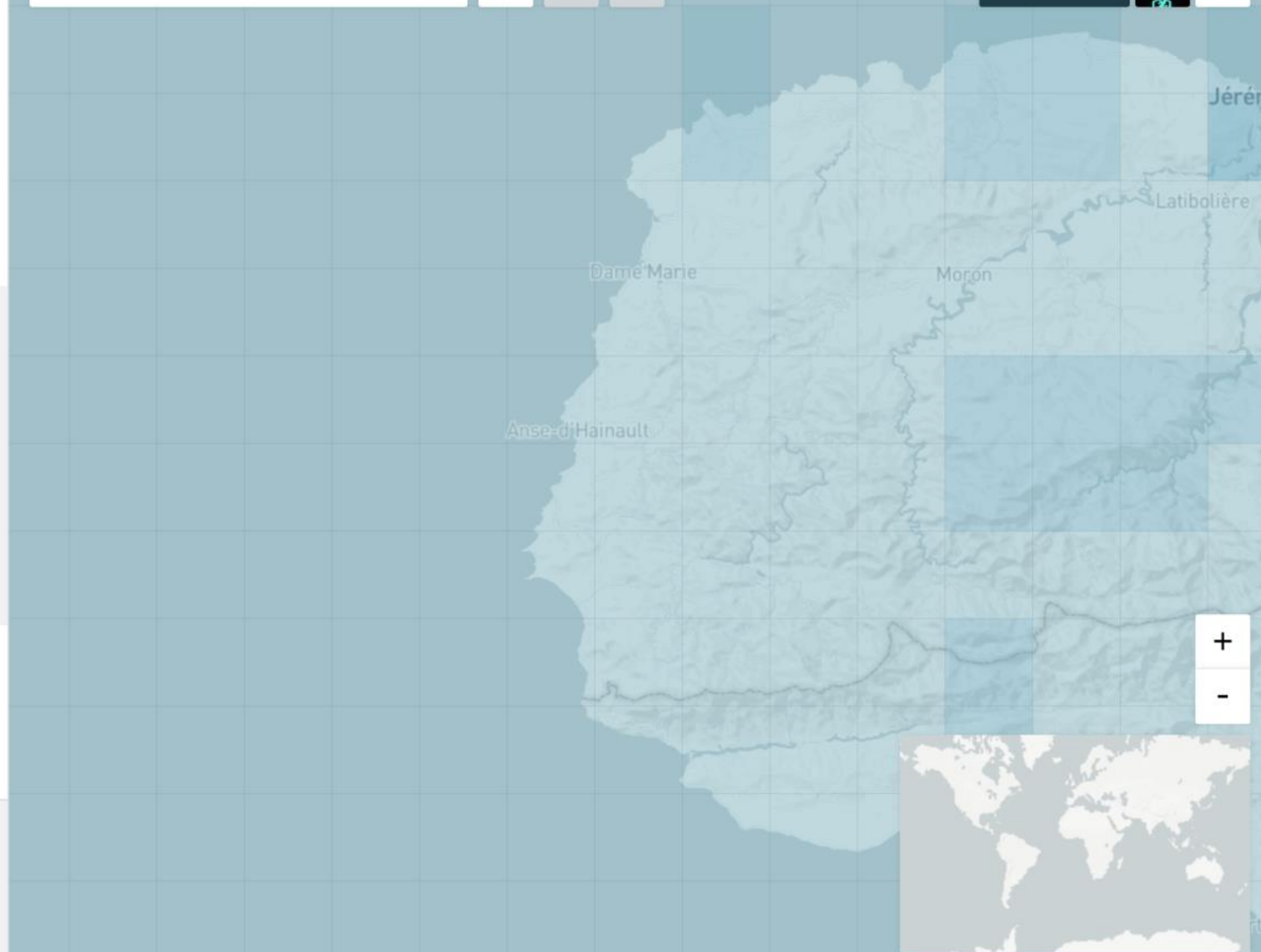
[Feedback](#)

Made with ❤️ by HOT partners and community.

Search location or coordinates



Upload





Astro Digital

astrodigital.com

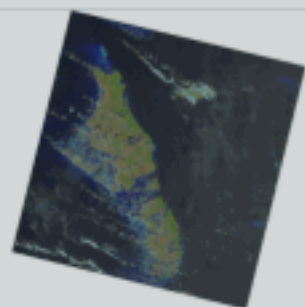
Our constellation of small satellites captures every location, daily. Imagery is analyzed in real time and streamed to your application via our API.

Image date: All ▾ Resolution: All ▾

LC81780212015219LGN00_bands...

May 2, 2017 / 33m

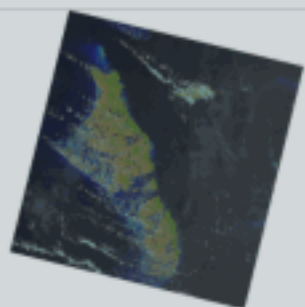
Astro Digital



LC81780212015219LGN00_bands...

May 2, 2017 / 33m

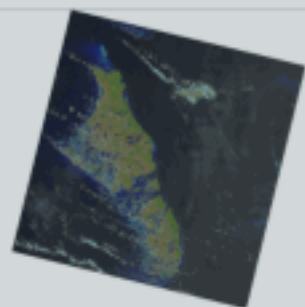
Astro Digital



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May 2, 2017 / 33m

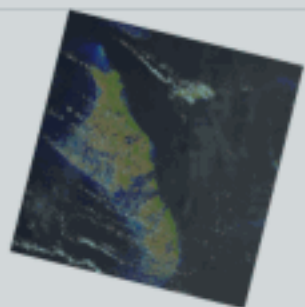
Astro Digital



LC81780212015219LGN00_bands...

May 2, 2017 / 33m

Astro Digital



INTEGRATING WITH KEY SOFTWARE



OpenDroneMap



DroneDeploy

Agisoft

PIX4D

More Resources

- * Community blog: <https://blog.openaerialmap.org/>
- * Join UAViators or other forums and rosters
- * Check out these resources:
 - * <https://uav-development.github.io/>
 - * <https://droneregulations.info/>



Australian Government

Department of Foreign Affairs and Trade



**humanitarian
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