

Map-py Wednesday for February

deck: hackmd.io/@mapamore/S1li5WXqkg (<http://hackmd.io/@mapamore/S1li5WXqkg>)

Welcome

- Announcements
- Sna-py Talk
- "Talk Show"

Save the date! SoTM 2025: Manila, PHL



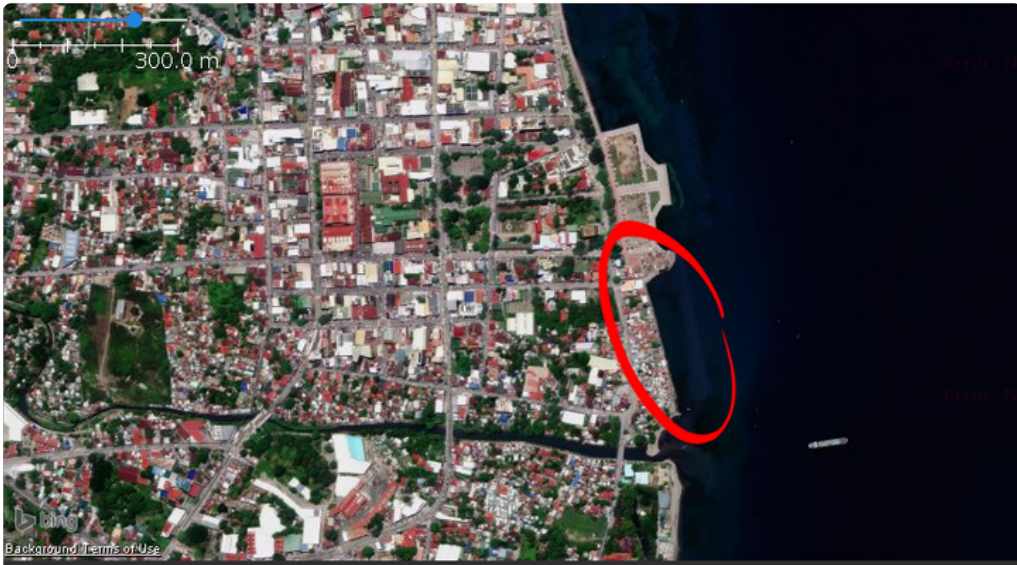
(<https://postimg.cc/6ymMpTXH>)

- 3-5 October
- Manila, Philippines
- see: <https://2025.stateofthemap.org> (<https://2025.stateofthemap.org>)

Sentinel-2 mosaics in OSM

- ESA program of earth observation satellites providing global color imagery, in 10 m resolution
 - higher resolution than Landsat, but lower than commercial providers (Bing, ESRI, etc.)
- EC Copernicus License is OSM-compatible:
 - See https://osm.org/wiki/Contributors#EU_Copernicus_.28GME.29_data (https://osm.org/wiki/Contributors#EU_Copernicus_.28GME.29_data)

Bing (above) and Copernicus Sentinel-2 (below):



(<https://>



postimg.cc/2VScQyfD)

Latest mosaic from Sentinel-2



(<https://postimg.cc/jCp5Y0gG>)

⚠️ Some screenshots and URLs are inaccessible because of an ESA service outage today. Sorry!

⚠️ SERVICE MESSAGE

We would like to inform you about the planned cloud upgrade, aimed at improving service stability and performance. The upgrade will cause unavailability of the Copernicus Data Space Ecosystem services from 18.02.2025 22:00 CET to 19.02.2025 05:00 CET described [here](#).

Cloud upgrade has been **extended** until **19.02.25 08:00 CET**.

Before the service break, please remember to save any in-progress work in your notebooks to permanent storage (folder "storage" in Jupyter file explorer).



Sentinel-2 files in JOSM

Imagery
Modify list of imagery layers displayed in the Imagery menu

Imagery providers Settings Offset bookmarks Cache Export MbTiles ImagelO

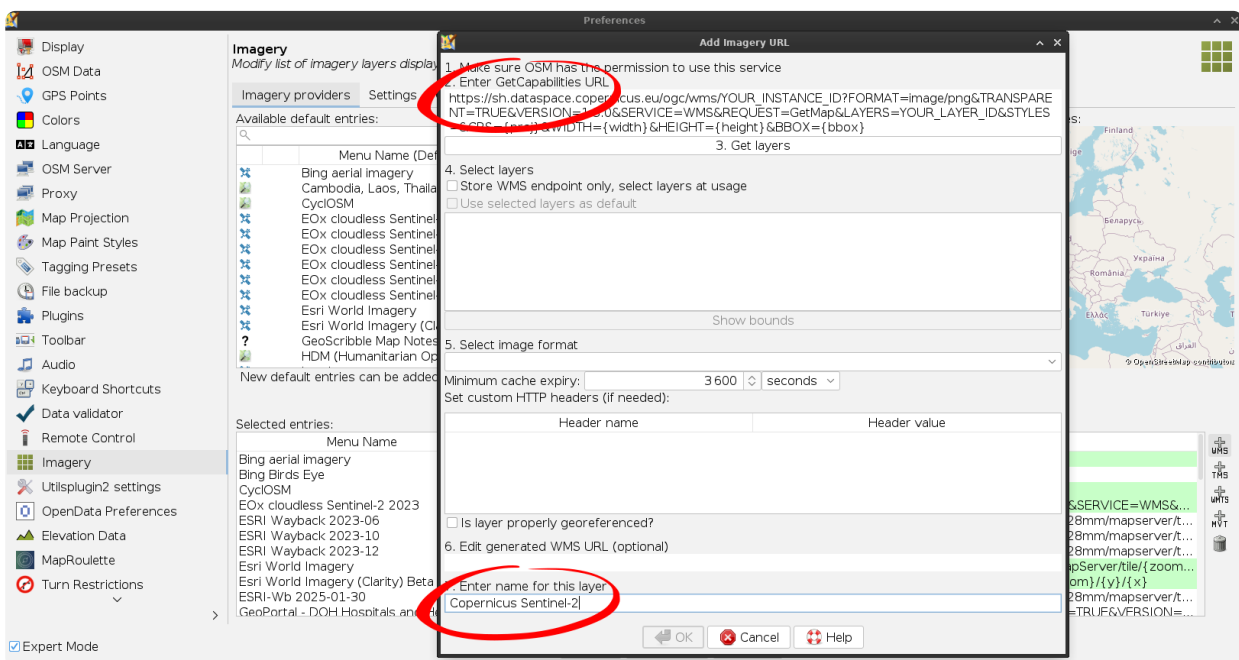
Available default entries:

	Menu Name (Default)	Imagery URL (Default)
✖	EOx cloudless Sentinel-2 2018	wms[18]:https://tiles.maps.eox.at/?FORMAT=image/p...
✖	EOx cloudless Sentinel-2 2019	wms[18]:https://tiles.maps.eox.at/?FORMAT=image/p...
✖	EOx cloudless Sentinel-2 2020	wms[18]:https://tiles.maps.eox.at/?FORMAT=image/p...
✖	EOx cloudless Sentinel-2 2021	wms[18]:https://tiles.maps.eox.at/?FORMAT=image/p...
✖	EOx cloudless Sentinel-2 2022	wms[18]:https://tiles.maps.eox.at/?FORMAT=image/p...
✖	EOx cloudless Sentinel-2 2023	wms[18]:https://tiles.maps.eox.at/?FORMAT=image/p...

- Sentinel-2 tile servers are available in JOSM (Preferences > Imagery), but not the most recent
- Now, let's fix that! ✂️

- Sign-up for an account: browser.dataspace.copernicus.eu (<http://browser.dataspace.copernicus.eu>)
- Sentinel Hub dashboard: shapps.dataspace.copernicus.eu/dashboard (<http://shapps.dataspace.copernicus.eu/dashboard>)
 - generate your **Instance ID** and determine your **Layer ID** to use in your configuration

In JOSM, go to Preferences > Imagery and add a new WMS entry



- **GetCapabilities URL:** `https://sh.dataspace.copernicus.eu/ogc/wms/YOUR_INSTANCE_ID?FORMAT=image/png&TRANSPARENT=TRUE&VERSION=1.3.0&SERVICE=WMS&REQUEST=GetMap&LAYERS=YOUR_LAYER_ID&STYLES=&CRS={proj}&WIDTH={width}&HEIGHT={height}&BBOX={bbox}`
- **Name the layer**
- Use `source=Sentinel-2` in your OSM changeset tag, if you used it for editing.
- Check your SH dashboard usage. There's a (low) monthly limit, so use it sparingly.
- Adjust the configuration for your needs:

2025-02-17 20%

Default

Sentinel-2 L2A

EFFECTS AND ADVANCED OPTIONS

Gain 1

Gamma 1

Advanced RGB effects

Red 0 1

Green 0 1

Blue 0 1

Mosaicking order Least cloud coverage

Upsampling Layer default

Downsampling Layer default

Reset all

Show visualisations Hide layer Share

Wrap up

- When configured properly, you can just load the layer in your next editing session. No other configuration needed.
- Alternative sources:
 - OpenAerialMap
 - ESRI Wayback
 - Public, high-resolution imagery are available from your government
- Any tips from participants?

Thank you! 🍷

Now, on to our "Talk Show"...
