

# LearnOSM

## Using Geofabrik and HOT Export

Reviewed 2016-09-05

After learning how to add and edit data in OpenStreetMap (OSM), now maybe you would like to obtain the data as a backup or to process it using Geographic Information System software that is Open Source, such as Quantum GIS ([www.qgis.org](http://www.qgis.org)).

### Getting OSM Data on Geofabrik Website

The OSM data can be obtained easily by downloading it from <http://download.geofabrik.de/openstreetmap/>

### OpenStreetMap Data Extracts

**New site layout** - we've tried to make it so that any old saved links still work; do tell us if there's a problem!

Welcome to Geofabrik's free download server. This server has data extracts from the [OpenStreetMap project](#) which are normally updated every day. Select your continent and then your country of interest from the lists below. (If you have been directed to this page from elsewhere and are not familiar with OpenStreetMap, we highly recommend that you read up on OSM before you use the data.) This download service is offered for free by Geofabrik GmbH.

**Neue Webseiten-Struktur** - Alle alten gespeicherten Links sollten aber trotzdem noch funktionieren.


Willkommen auf dem Geofabrik-Downloadserver. Hier gibt es Daten-Auszüge aus dem [OpenStreetMap-Projekt](#), die normalerweise täglich aktualisiert werden. Wählen Sie aus dem Verzeichnis unten den Kontinent und ggf. das Land, für die Sie Daten benötigen. (Wenn Sie von anderswo auf dieser Seite gelandet sind und von OpenStreetMap nichts wissen, dann ist es empfehlenswert, sich mit dem Projekt vertraut zu machen, bevor Sie mit den Daten arbeiten.) Diese Downloads werden von der Geofabrik GmbH kostenlos angeboten.

Click on the region name to see the overview page for that region, or select one of the file extension links for quick access.

Sub-Region	Quick Links		
	.osm.pbf	.shp.zip	.osm.bz2
Africa	<a href="#">[.osm.pbf]</a>	X	<a href="#">[.osm.bz2]</a>
Antarctica	<a href="#">[.osm.pbf]</a>	<a href="#">[.shp.zip]</a>	<a href="#">[.osm.bz2]</a>
Asia	<a href="#">[.osm.pbf]</a>	X	<a href="#">[.osm.bz2]</a>
Australia and Oceania	<a href="#">[.osm.pbf]</a>	X	<a href="#">[.osm.bz2]</a>
Central America	<a href="#">[.osm.pbf]</a>	X	<a href="#">[.osm.bz2]</a>
Europe	<a href="#">[.osm.pbf]</a>	X	<a href="#">[.osm.bz2]</a>
North America	<a href="#">[.osm.pbf]</a>	X	<a href="#">[.osm.bz2]</a>
South America	<a href="#">[.osm.pbf]</a>	X	<a href="#">[.osm.bz2]</a>

Technical details about this download service.  
[Old, CC-BY-SA licensed data](#) from before OpenStreetMap's license change.

GEOFABRIK®downloads



**Not what you were looking for?** Geofabrik is a consulting and software development firm based in Karlsruhe, Germany specializing in OpenStreetMap services. We're happy to help you with data preparation, processing, server setup and the like. [Check out our web site](#) and contact us if we can be of service.

**Nicht das Richtige dabei?** Die Geofabrik ist ein auf OpenStreetMap spezialisiertes Beratungs- und Softwareentwicklungsunternehmen in Karlsruhe. Gern helfen wir Ihnen bei der Datenaufbereitung, Datenkonvertierung, Serverinstallation und ähnlichen Aufgaben. [Besuchen Sie unsere Webseite](#) und sprechen Sie mit uns, wenn wir Ihnen helfen können.

Data/Maps Copyright 2013 Geofabrik GmbH and OpenStreetMap Contributors | Map tiles: Creative Commons BY-SA 2.0 Data: ODbL 1.0 | [Contact](#)

The data is divided into several regions. Indonesia can be found as part of Asia by clicking on the Asia sub-region on the blue table, and then the page will appear like this.

Download OpenStreetMap data for this region:

Asia

[\[one level up\]](#)

Commonly Used Formats

- [asia-latest.osm.pbf](#), suitable for Osmium, Osmosis, imposm, osm2pgsql, mkgmap, and others. This file was last modified 8 hours ago and contains all OSM data up to 2013-08-18T19:48:02Z. File size: 2.3 GB; MD5 sum: 5b240124c6fe5f9c2c8096b13ce2bf90.
- [asia-latest.shp.zip](#) is not available for this region; try one of the sub-regions.

Other Formats and Auxiliary Files

- [asia-latest.osm.bz2](#), yields OSM XML when decompressed; use for programs that cannot process the .pbf format. This file was last modified 6 hours ago. File size: 3.6 GB; MD5 sum: 629186d4f60144bec47b77706ad2a3fb.
- [.poly](#) file that describes the extent of this region.
- [.osm.gz](#) files that contain all changes in this region, suitable e.g. for Osmosis updates
- [raw directory index](#) allowing you to see and download older files

Sub Regions

Click on the region name to see the overview page for that region, or select one of the file extension links for quick access.

Sub Region	Quick Links		
	.osm.pbf	.shp.zip	.osm.bz2
<a href="#">Azerbaijan</a>	<a href="#">[osm.pbf]</a> (3.3 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">Bangladesh</a>	<a href="#">[osm.pbf]</a> (4.1 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">China</a>	<a href="#">[osm.pbf]</a> (104 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">GCC States</a>	<a href="#">[osm.pbf]</a> (30.1 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">India</a>	<a href="#">[osm.pbf]</a> (110 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">Indonesia</a>	<a href="#">[osm.pbf]</a> (63 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">Iran</a>	<a href="#">[osm.pbf]</a> (18.0 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">Iraq</a>	<a href="#">[osm.pbf]</a> (3.9 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">Israel and Palestine</a>	<a href="#">[osm.pbf]</a> (31.2 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">Japan</a>	<a href="#">[osm.pbf]</a> (857 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">Jordan</a>	<a href="#">[osm.pbf]</a> (4.5 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>
<a href="#">Kazakhstan</a>	<a href="#">[osm.pbf]</a> (22.3 MB)	<a href="#">[shp.zip]</a>	<a href="#">[osm.bz2]</a>

Not what you were looking for? Geofabrik is a consulting and software development firm based in Karlsruhe, Germany specializing in OpenStreetMap services. We're happy to help you with data preparation, processing, server setup and the like. [Check out our web site](#) and contact us if we can be of service.

Nicht das Richtige dabei? Die Geofabrik ist ein auf OpenStreetMap spezialisiertes Beratungs- und Softwareentwicklungsunternehmen in Karlsruhe. Gern helfen wir Ihnen bei der Datenaufbereitung, Datenkonvertierung, Serverinstallation und ähnlichen Aufgaben. [Besuchen Sie unsere Webseite](#) und sprechen Sie mit uns, wenn wir Ihnen helfen können.

After appearing at the top of the page, see how the sub-region divides into countries of Asia. To get the data, you need to click the Indonesian state on the blue table, and it will appear like this.

Download OpenStreetMap data for this region:

Indonesia

[\[one level up\]](#)

Commonly Used Formats

- [indonesia-latest.osm.pbf](#), suitable for Osmium, Osmosis, imposm, osm2pgsql, mkgmap, and others. This file was last modified 7 hours ago and contains all OSM data up to 2013-08-18T19:48:02Z. File size: 83 MB; MD5 sum: 9b13bafadd7f18665ef57cad6a31dd7.
- [indonesia-latest.shp.zip](#), yields a number of ESRI compatible shape files when unzipped. This file was last modified 3 hours ago. File size: 147 MB.

Other Formats and Auxiliary Files

- [indonesia-latest.osm.bz2](#), yields OSM XML when decompressed; use for programs that cannot process the .pbf format. This file was last modified 6 hours ago. File size: 150 MB; MD5 sum: 6a9480d4f8df00932109cb76729b762d.
- [.poly](#) file that describes the extent of this region.
- [.osm.gz](#) files that contain all changes in this region, suitable e.g. for Osmosis updates
- [raw directory index](#) allowing you to see and download older files

Sub Regions

No sub regions are defined for this region.

Not what you were looking for? Geofabrik is a consulting and software development firm based in Karlsruhe, Germany specializing in OpenStreetMap services. We're happy to help you with data preparation, processing, server setup and the like. [Check out our web site](#) and contact us if we can be of service.

Nicht das Richtige dabei? Die Geofabrik ist ein auf OpenStreetMap spezialisiertes Beratungs- und Softwareentwicklungsunternehmen in Karlsruhe. Gern helfen wir Ihnen bei der Datenaufbereitung, Datenkonvertierung, Serverinstallation und ähnlichen Aufgaben. [Besuchen Sie unsere Webseite](#) und sprechen Sie mit uns, wenn wir Ihnen helfen können.

Then if you want to obtain the Indonesian data in shapefile (.shp) format, you click on the indonesia-latest.shp.zip link, and the file will be downloaded. There are several formats that can be downloaded. One popular format is shapefile (shp) with points, polyline, and polygon layer.

You can check the last time data was updated. Please note, the server usually updates the data once every 24 hours, so if you just upload data to OSM, the data does not appear automatically when you download it, but you have to wait for the latest updates from the server.

2

## Getting OSM Data on HOT-Export Website


If you just want to download a very specific area with a particular attribute, you can use the Hot-Exports data download service. Open <http://export.hotosm.org/> which will appear like this:

The screenshot shows the HOT Exports website interface. At the top is a red header with the HOT logo and navigation links: Home, Help, Jobs, New Job. Below the header, the text 'HOT Exports' is displayed. Underneath, there is an 'About' section explaining the platform's purpose, a 'Note' about the shared resource, and a 'What's new?' section listing updates like User Accounts and file uploads. A dark grey sidebar on the left contains two columns of links: 'Your Account' (Create Account, Login, Lost password?) and 'Expert Functions' (Preset Files, Tag Transform SQL Files, Translation Files, Visual Tag Chooser). The footer includes copyright information for 2013 and mentions the OpenStreetMap data source.

To obtain the data from this website you must have an account. To create one click **Create Account** in the bottom left corner, then enter your email, password, and confirmation password, followed by **Create Account**. You will then see a message similar to “A message with a confirmation link has been sent to your email address. Please open the link to activate your account.” indicating that your account has been successfully created and you have your activation email.

This screenshot shows the 'Create Account' form on the HOT Exports website. The form is located in the main content area below the header. It includes input fields for 'Email' (containing 'ranranchu@gmail.com'), 'Password', and 'Password confirmation'. A 'Create Account' button is positioned below the form. To the left of the form are links for 'Login', 'Lost Password?', and 'Didn't receive confirmation instructions?'. The same dark grey sidebar with 'Your Account' and 'Expert Functions' links is visible on the left. The footer contains the same copyright and data source information as the previous screenshot.

After that log in using your account that you have created.


**HOT Exports**

[Home](#)
[Help](#)
[Jobs](#)
[New Job](#)

[Français](#) | 
 [English](#) | 
 [日本語](#) | 
 [Deutsch](#) | 
 [Bahasa Indonesia](#)

**Login**

Email   
 Password

[Create Account](#)  
[Lost Password?](#)  
[Didn't receive confirmation instructions?](#)

**Your Account**


- Create Account
- Login
- Lost password?

**Expert Functions**

- Preset Files
- Tag Transform SQL Files
- Translation Files
- Visual Tag Chooser


Copyright © 2013 Humanitarian OpenStreetMap Team - Map data from OpenStreetMap, ODbL 1.0 license

Once you have successfully logged in, to obtain the data you want click **New Job**, then fill in your name and the job description. You can select an area using the map, then click save.


**HOT Exports**

## New Export Job

Name   
 Description



**Select Area**

Min. Longitude	<input type="text" value="119.5542"/>
Min. Latitude	<input type="text" value="-4.8497"/>
Max. Longitude	<input type="text" value="119.5628"/>
Max. Latitude	<input type="text" value="-4.8424"/>

If you wish ou can select a Preset File, a translation file, or ignore both options.

 **HOT Exports**

### New Export Job - Configuration

Job Name	sample	
Select Preset File	<input type="text" value="No File"/>	
Add Default Tags?	<input checked="" type="checkbox"/>	
Translation File	<input type="text" value="No File"/>	
Tag Transform SQL File	<input type="checkbox"/>	<input type="checkbox"/>
		Sri Lanka Pol Types 2 jns_feat - Bappeda NTB

Save

The server will process your request, with the time depending on the area you choose and the server capacity. You can choose the file format you want to download such as ESRI Shapefile. All download requests that you create will appear on the job, so if any time you want to download the same area, you can search for the same job and download it again without having to click on New Job.

Job successfully created!

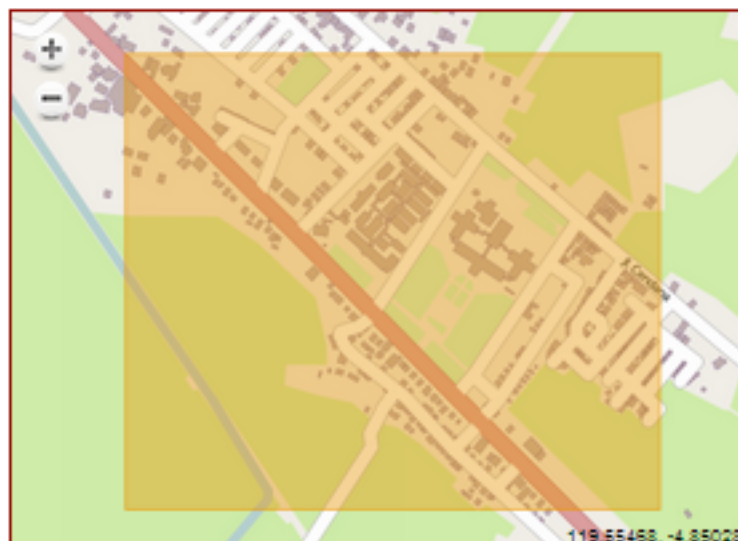
## Job sample

### Runs

State	Download	Created At
✓	job log file (log.txt) [2.5KB] Garmin map (EXPERIMENTAL, compressed) [5.4KB] KML (KMLZ) file [31.7KB] GSR Shapefile (zipped) [53.8KB] Spatialite file [102.5KB] PostGIS dump file (compressed - .sql.gz) [41.3KB] SQLite file [4.7MB] OSM source file (.pbf) [14.0KB]	2013-05-21 14:5

[Start new run](#)

### Area



Min. Longitude	119.5542
Min. Latitude	-4.8497
Max. Longitude	119.5628
Max. Latitude	-4.8424

### Job Configuration

Export/Import File	<input type="text" value="access (point)"/>	<input type="button" value="default tags only"/>
Tag Transform SQL File		
Translation File		

### New Job with Similar Configuration

Create a new job with a new area but the same configuration as this job.

[Create Job](#)

Was this chapter helpful? [Let us know and help us improve the guides!](#)

- [learnosm@hotosm.org](mailto:learnosm@hotosm.org)
- [@learnOSM](#)
- [Hosted on Github](#)



Official [HOT OSM](#) learning materials



Humanitarian  
OpenStreetMap  
Team