



# **Navikey OSM Splitter Utility**

version 1.03.22

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## Overview

This tool is based on ideas of the eponymous utility Splitter (<http://www.mkgmap.org.uk/page/tile-splitter>, <http://wiki.openstreetmap.org/wiki/Splitter>) but uses its own algorithms completely and extended function.

With this utility may cut into pieces OSM map based on the specified parameters.

As input data required file format osm.pbf.

As result you get a set of files in osm or osm.pbf.

Poly file's getting from the utility getbound.pl can be used for cutting with few restrictions. (See especially the use)

Also at the request of the resulting files will be saved in formats borders kml, Mp or areas.list.

## Programm options

| Option             | default   | Describe   |
|--------------------|-----------|--|
| --description   -d | =mapid    | Describe of map  |
| --mapid   -mid     | 110000    | Initial ID section of the map. Increases one for each new area   |
| --max-areas   -ma  | 256       | The maximum number of piece's is processed in a single pass. Reducing the value can speed up and reduce memory consumption   |
| --area   -a        | нет       | The name of the file of piece's of map. If you specify will be cut and save only a portion of the specified name (eg 110023 - saves only piece with name 110023.osm) |
| --max-nodes   -mn  | 1 600 000 | The maximum number of nodes in a single pieces.  |

|                       |                 |   |
|-----------------------|-----------------|---|
|                       |                 | When 0 - partitioning by count of nodes is not performed. It also does not check for crossing the specified area.   |
| --reserve-nodes   -r  | 0               | Reserve memory for the nodes to split into sections, at the start of the program. Used to accelerate the performance and avoid running out of memory for dynamic allocation.              |
| --output-dir   -o     | текущий каталог | Directory in which save the results of the program.   |
| --pbf                 | XML             | Set saving the results in a format pbf, if not set it will be saved in XML (OSM).   |
| --poly-file   -p      |                 | Specifies the *. Poly file's or directory with *.Poly files which contained describe of pieces that can be cutting from the map. It will be ignored If - option --split-file - specified. |
| --split-file   -s     |                 | Specified file areas.list for cut map by pieces.  |
| --process-outer   -po | ВЫКЛ            | Works only with the option - poly-file. Includes processing area outside the boundaries specified in the poly files.  |
| --write-kml   -k      |                 | Writes kml file with the area that was used to cut the map. It also creates a file *. Mp with the same boundaries.  |
| --verbose   -v        | ВЫКЛ            | Messages about of the cutting process .   |

## Examples of usage

Example: Cut the Eurasia land not exceeding the number of 1.6 million nodes. Display progress messages. Save the file with the boundaries areas.kml, all data is stored in a subdirectory out.

**NavikeySplitter.exe -v -o=out -k=areas.kml -mn=1600000 evrasia.osm.pbf**

the same but save the result as pbf:

**NavikeySplitter.exe -v -o=out -k=areas.kml --pbf -mn=1600000 evrasia.osm.pbf**

Example: Cut from the input file the piece's that described in the section of the file \*. Poly, write in the pbf's format, limit the size of a single map by maximum number of nodes:

**NavikeySplitter.exe -o=out --pbf -p=./areas.poly ./local.osm.pbf**

(in this case areas.list file's not created)

the same process only area outside the poly, cut the number of nodes and save the border as a kml file:

**NavikeySplitter.exe -o=/out -k=areas.kml --pbf -po -mn=0 -p=areas.poly local.osm.pbf**

Example: cut piece's by files described in areas.list

**NavikeySplitter.exe -o=/out evrasia.osm.pbf -s=areas.list**

Example: Cut out the application submitted to the input directory with pieces described in the files \*. Poly, write result in the format pbf, limit the size of a single map file's by maximum's number of nodes 6000000:

**NavikeySplitter.exe -o=/out --pbf -p=/poly -mn=6000000 local.osm.pbf**

(in this case areas.list file's not created)

the same process but only area outside the poly file's, and not cut by number of nodes:

**NavikeySplitter.exe -o=out --pbf -po -mn=0 -p=/poly local.osm.pbf**

## Features usage

When processing files with poly containing inner and outer borders - inner boundary will be ignored.

If you need to get the area with cut inside it's need to re-run the splitter on area with cutting the inner region from result and with the option -po

Poly files obtained using the utility with the option onering in getbound.pl - handled correctly if do not cross 180 degree. For such areas should not use the onering in obtaining bounds.