

OSV2IMG

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Getting OS vector data

Download vector data from

<https://www.ordnancesurvey.co.uk/opendatadownload/products.html>

Select your region and tick the download box; make sure it's vector data and not tiles; you will be sent a url valid for 3 days; download and unzip.

Viewing vector data

To view your region you will need to download qGIS or GPSMapedit.

qGIS

Download from <http://www.qgis.org/> ; the advantage of this program is that you can view multiple layers.

Convert each layer to WGS84, ie into latitude and longitude.

Go : Vector --> Data Management Tools --> Export to new projection and select WGS84. Save each layer as a new shp file.

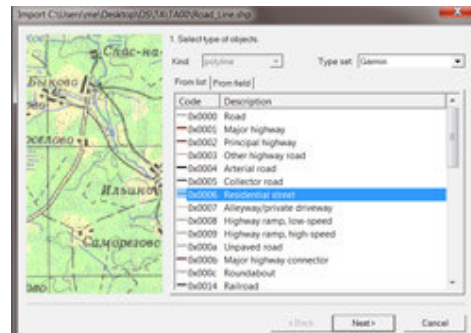
At this stage, all coordinates despite being converted to WGS84 (Garmin friendly) , are still badly shifted when projected onto Google Earth or uploaded to your gps.

GPSMapedit

Using GPSMapedit might be quicker .

1) Import the road_line.shp into GPSMapEdit.

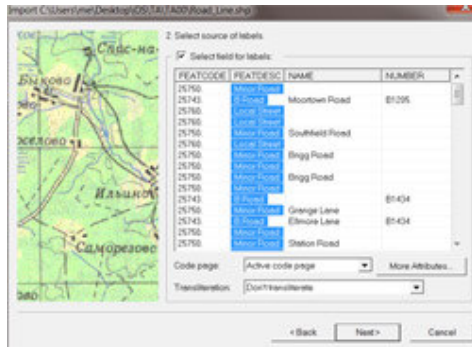
As a guideline use the table below, but feel free to experiment.



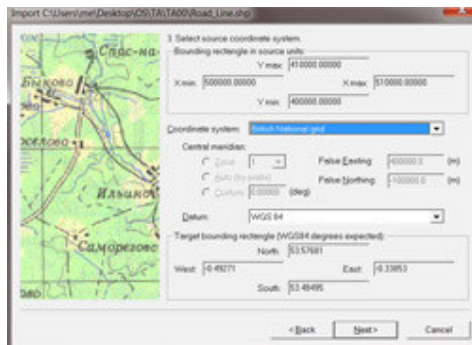
shp file	Code	Description
Road_line.shp	0x06	Residential street
settlement_area	0x13	Buildings
Naturalfeature_line	0x18	Stream
Naturalfeature_area	0x50	Forest

Natural feature area consists of woodland, water and custom landform.

2) Select Description or FEATDESC column



3) For the CIS select the 'British National grid' option

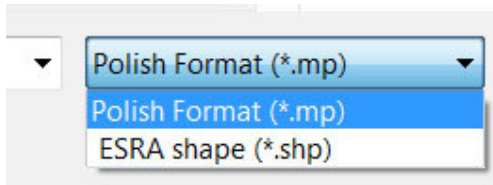


4) Save result as a mp file . However, all coordinates are still shifted and need tweaking:



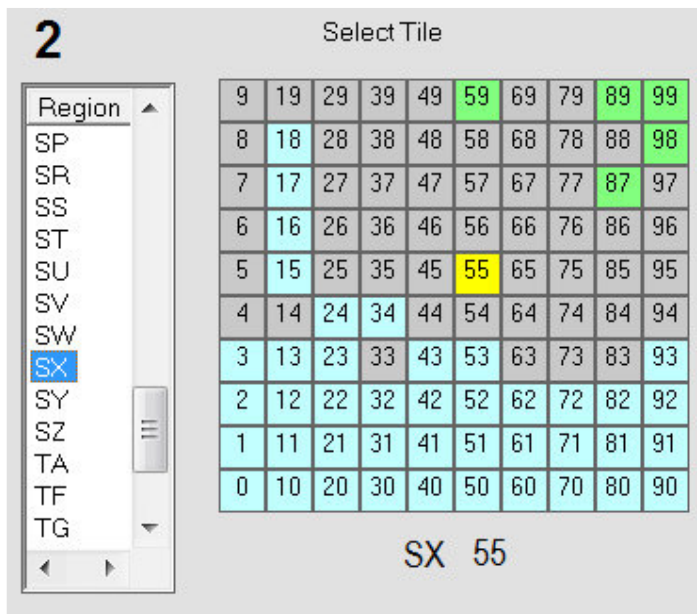
OSV2img ,getting started

1) select mp or shp



Load mp or shp file . Only shp files converted to WGA are accepted.

2) select region (letters) and tile (numbers)



Grey Tiles: Land tiles not calibrated

Yellow Tile : Selected Tile

Green Tile : Tiles containing latitude and longitude correction values.

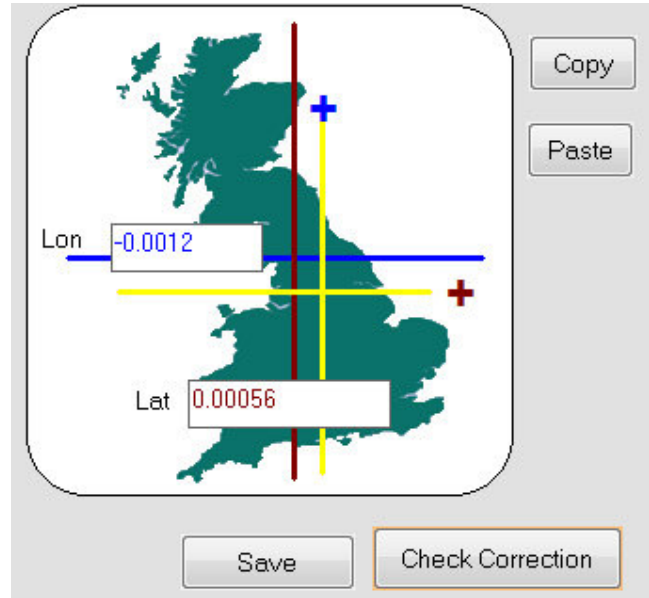
Red Tile: Tile with values not saved.

All regions have at least one tile calibrated. To calibrate a grey tile select the nearest green the tile and click Copy. Then, select a grey tile and click Paste and Save.

Next, fine-tune this tile by clicking the 'Check Correction' button; this now creates a kml file and calls up Google Earth – ensure Google Earth has been installed.

Calibrating Latitude

Change red latitude values by adding or subtracting 0.00001 depending whether the yellow roads are shifted above or below when shown on Google earth and click Check Correction.



Calibrating Longitude

Change blue longitude values by adding or subtracting 0.0001 depending whether the yellow roads are shifted to the left or right when shown on Google earth click Check Correction.

When satisfied, click the Save button.

Converting a mp/shp file

Click 'Apply Conversion' .

The default filename is 'untitled.mp' but this can be changed . If the mp file includes woodlands, select type , ie scrub,forest etc. A new mp file with all coordinates converted is created in the same directory as osv2img.exe .

Creating an IMG file

Select name of file (8 digits) and specify layer (priority). Img files are , by default, transparent .

Deleting imgs

Select a file and right click . Choose delete

Displaying imgs

Select a file and right click . Choose display; this only works in a program has been associated with img files, such as GPSMapEdit

Preferences

From the main menu click Preferences → Settings.

Mkgmap.jar

Click << button to find mkgmap.jar – check internet for latest version.

mp / shp folder

Click directories to locate your main mp or shp folder.

Updates

From time to time, the program will be updated to include new features or additional calibrated tiles.