

## Coordinates Transformation Tool -Tutorial

The numerical values for latitude and longitude can occur in a number of different formats. In many cases there is the need to convert a degrees-minutes-seconds or degrees-decimal-minutes format to the decimal degrees format and interpret the spatial information efficiently.

The service takes as input coordinates in degrees-minutes-seconds or degrees-decimal-minutes format and converts them in decimal format. The input can be a single position or a spreadsheet of coordinates.



The screenshot shows the MedOBIS vLab interface for LifeWatch Greece. It features a 'Transform coordinates' section with two input fields: 'Latitude:' and 'Longitude:'. Below these fields is a 'Transform' button. The background includes the LifeWatch Greece logo and a faint 'fit6map' watermark.

The service trims the input records, ignores spaces and validates the coordinates symbols.

This is an example of different input formats (Table 1)

Input coordinates		Output Coordinates	
latitude	longitude	latitude	longitude
35o 19' 30.00N	25o 7' 50.16E	35.325000°	25.130600°
34o 20' 30.00N	23o 9' 55E	34.341667°	23.165278°
33o19' 30.50N	22o11' 52.13E	33.325139°	22.197814°
36° 58.067'N	21° 40.021'E	36.967783°	21.667017°
N43°38'19.39"	W116°14'28.86"	43.638719°	-116.241350°
43°38'19.39"N	116°14'28.86"W	43.638719°	-116.241350°
31°13'1.20"S	9°14'6.43"E	-31.217000°	9.235119°

You can also upload a csv file . Batch file of coordinates(csv in UTF8 , with no commas and empty rows)

- Save as csv (usually in microsoft office you don't have encoding UTF8)
- Open with notepad or notepad++. You should have a row with the Latitude and Longitude and semicolon separator.

e.g

Latitude;Longitude

49°17'N;04°13'E

49°17'N;04°13'E

49°17'N;04°13'E

48°44'N;04°55'E

48°44'N;04°55'E

37°21'N;16°45'E

37°21'N;16°45'E

- Select your lines-COPY
- Open New Tab
- Notepad++: encoding Tab-select UTF8
- Paste
- Save txt or csv (In Notepad: save as-change here the encoding in UTF8)

Using the service:

**Transform file**

**Step 1: Upload a file**

Select a file...

**Step 2: Convert the file**

Upload File

Transform File

- Click 'Select a file'
- Upload File
- Transform File
- Download

The acceptable formats are the same as in Table1. If you have strange characters you will get an invalid error . e.g . Invalid latitude in line 1 ( For input string: "49Â" ). You can download two examples.