

# GMT\_Plotter User Guide

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## 1 General information

GMT\_Plotter is python interface class for 'siku' project.

It uses several other python classes for reading wind input data and configuration settings, constructing check-positions grid, interpolation of wind velocity and actually drawing .eps file.

## 2 Config file

'plot\_config.py' is cinfigation file for GMT\_Plotter class.

It contains various settings and is used at the begining of plotting procedure.

Although all variables are optional - user MUST specify interpolation domain and drawing view.

### 2.1 inter\_domain

'inter\_domain' is a tuple that contains info about boarders of interpolation region in next format: ( min\_lon, max\_lon, min\_lat, max\_lat )

### 2.2 view

'view' is string of characters that spacyfy output region, projection and coordinates grid parameters.

- '-G' is output region in format: -Gmin\_lon/max\_lon/min\_lat/max\_lat  
NO SPACES ALLOWED!
- '-J' is projection specification. For more read GMT official guide or use predefined values
- '-B' is coordinates grid parameters. For more read GMT official guide or just write '-BagX', where X - is resolution in degrees

### 2.3 scale

Other VERY important value is 'vector\_scaling'. It's a factor for correct vector size on output.

Generaly Vectors are being scaled automaticly, but in some projections hard-coded parameters become too small for proper vectors output. If that happens - user could (should) scale the resulting vectors at his own taste.