

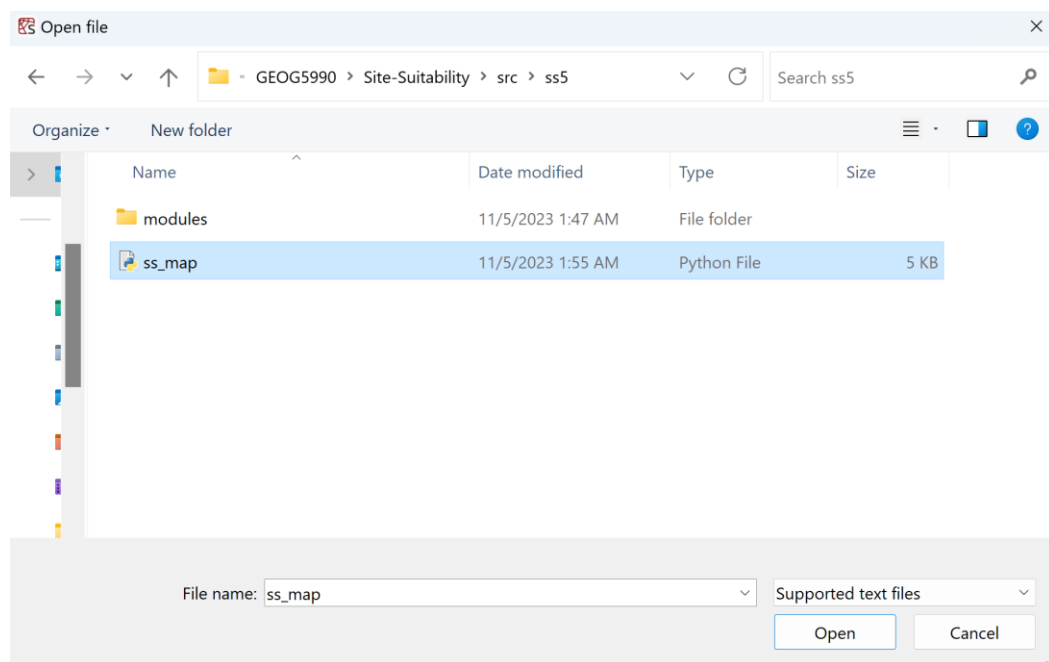
Site Suitability Map User Guide

This software was developed for site suitability analysis. Three suitability factors: geology, population and transportation are used for this purpose. This software allows the user to select weights of the different factors which are used to generate the site suitability map. Changes can be made instantly which allows the user to observe the weightage impact.

This software requires Spyder. Spyder can be downloaded for free from <https://www.spyder-ide.org/>

1. Launch Spyder. In File -> Open select the program file:

Site-Suitability > src > ss5 > ss_map.py

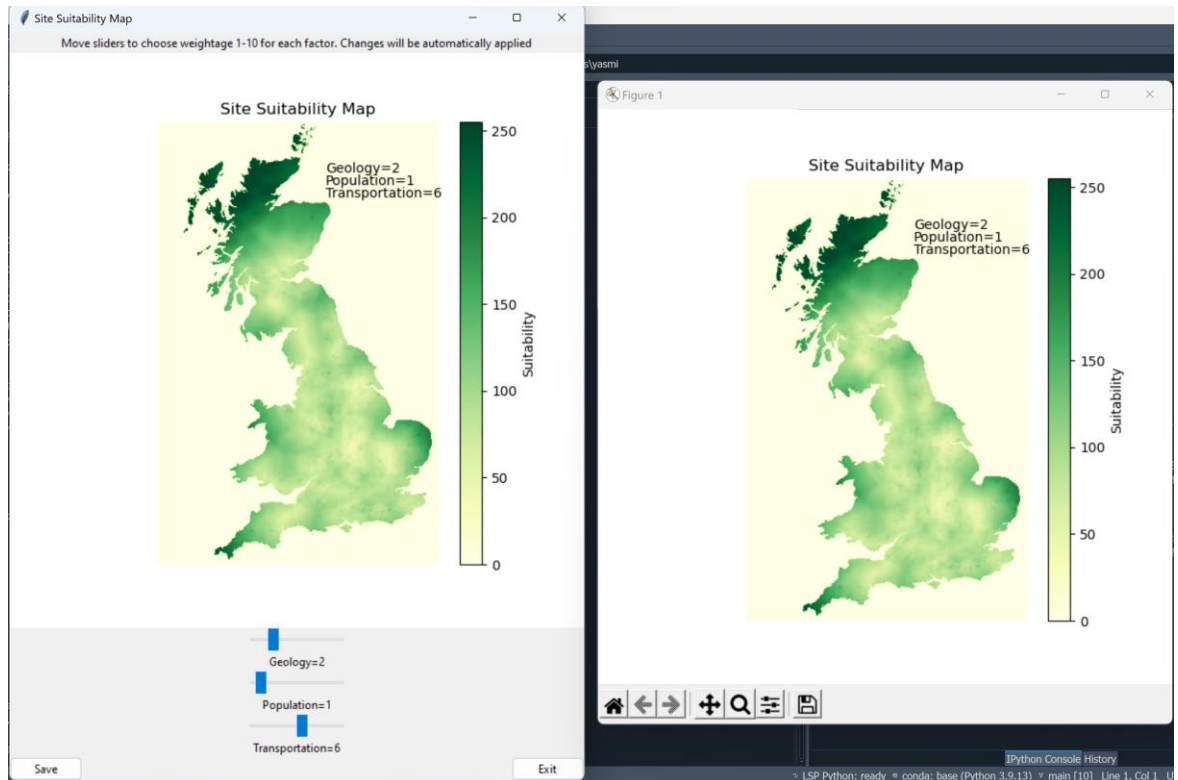


2. Click on the 'Run file' button. This will run the software.



3. Two windows will appear. One is the user interface window called 'Site Suitability Map' and the other is a window of the map generated called Figure 1. Move sliders on the user interface window to change weights of the suitability factor. The changes will appear in both windows. Note that the higher values (green) refer to high suitability whereas the lower values (yellow) refer to low suitability.

4. To save the map generated, click on the 'Save' button. This will save the map as .jpg in the output folder by default. The value of the weights applied are also saved with the map for reference. Click on the 'Exit' button to close the software.



Left: User interface. Right: Plot window

Troubleshooting

1. The software was programmed to read input files from: Site-Suitability > data > input. To change the input files, rename the file paths on Spyder's terminal window.

```
18 # Location of data
19 geo = '../data/input/geology.txt' # geology
20 pop = '../data/input/population.txt' # population
21 trs = '../data/input/transport.txt' # transport
22
```

2. Other issues on the software are not currently known. Please email gy22fybm@leeds.ac.uk to report.