

Digital Associativity

Assignment 01

Submission

3rd February 2015

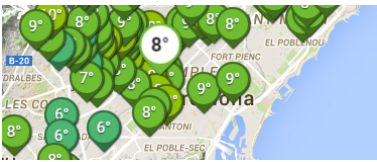
Section 1

Speculation (investigation idea.)

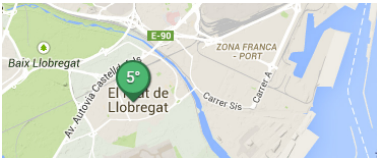
Context:

With the increase in local population through migratory flows, tourism and trades, the future could lead to a situation where there is an even higher demand of energy resources. Through logistics, areas have to be identified in order to arrive at a proposal that will address the notion of distribution.

Data Images.



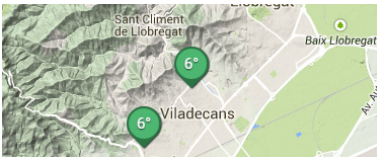
Weather stations.



Weather stations.

Intent:

To investigate the relationship between weather stations and the amount of wind produced in the areas predominately surrounding the Port of Barcelona.



Weather stations.



Weather stations.

Section 2

Data Mining.

Process:

The segregation of maps was useful in understanding distribution, as a concept. In addition to visually place the source of distribution (fig. 6.) and the multiple points (fig. 7.), regarding the establishment of connections.

Data Images.



Fig. 1. Highways.

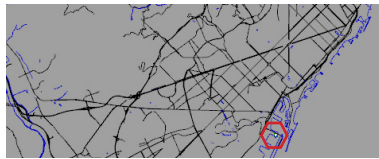


Fig. 6. Port point.

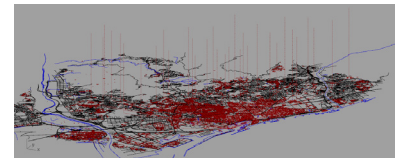


Fig. 11. Dotted elevated lines.



Fig. 2. Major roads.



Fig. 7. Multiple points.

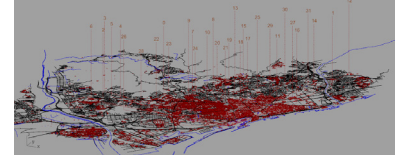


Fig. 12. Numbers to points.



Fig. 3. Minor roads.

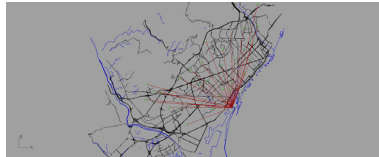


Fig. 8. Distributing connecting lines.

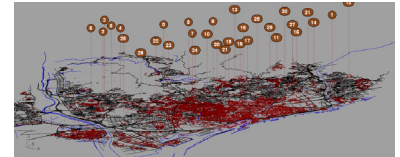


Fig. 13. Baked numbers to points.



Fig. 4. Waterbody outline.

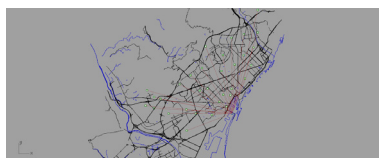


Fig. 9. Dashed lines.

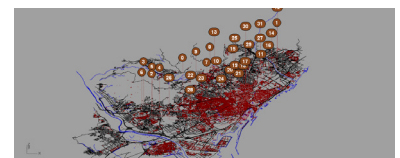


Fig. 14. Baked numbers points.



Fig. 5. Buildings layer.

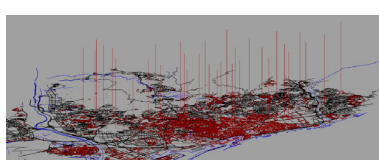
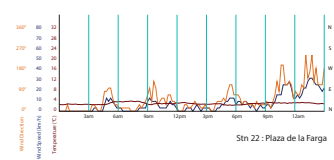


Fig. 10. Elevated lines.



Weather Graphs



Fig. 01. Highways



Fig. 2. Major Roads

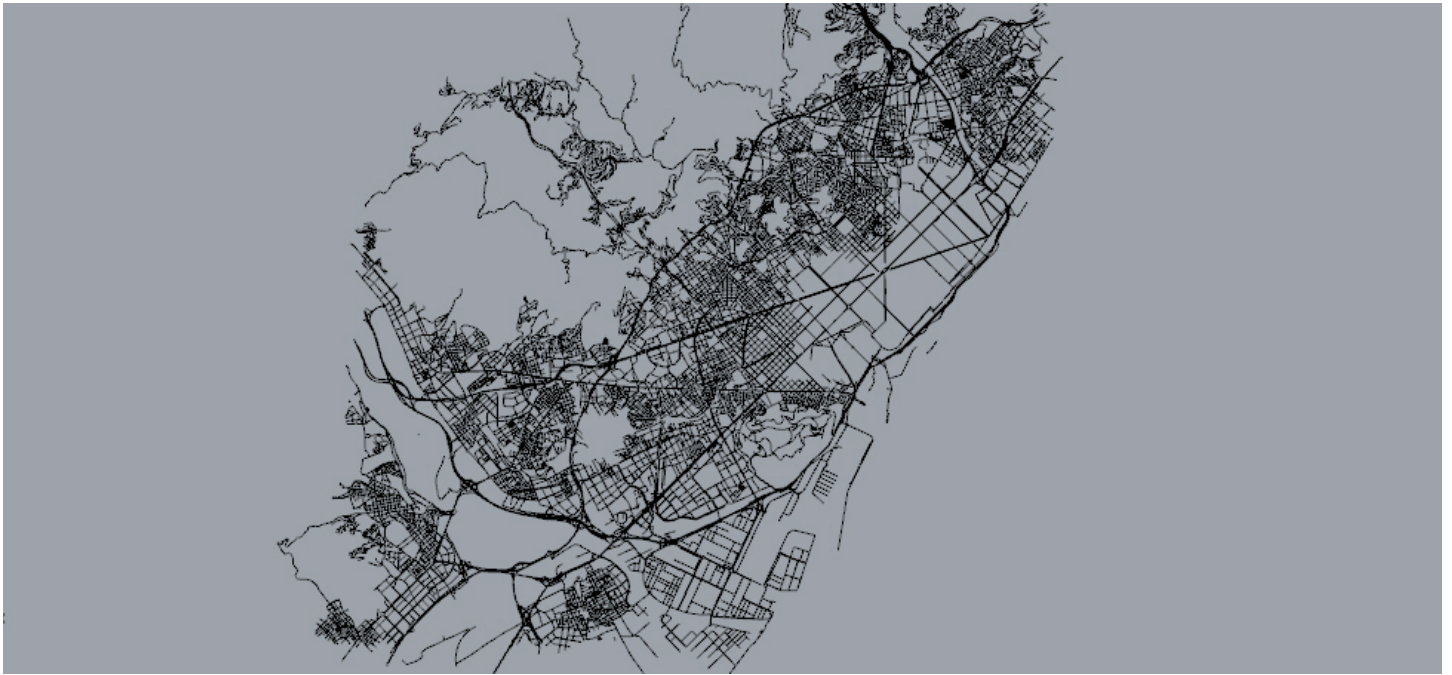


Fig. 03. Minor Roads

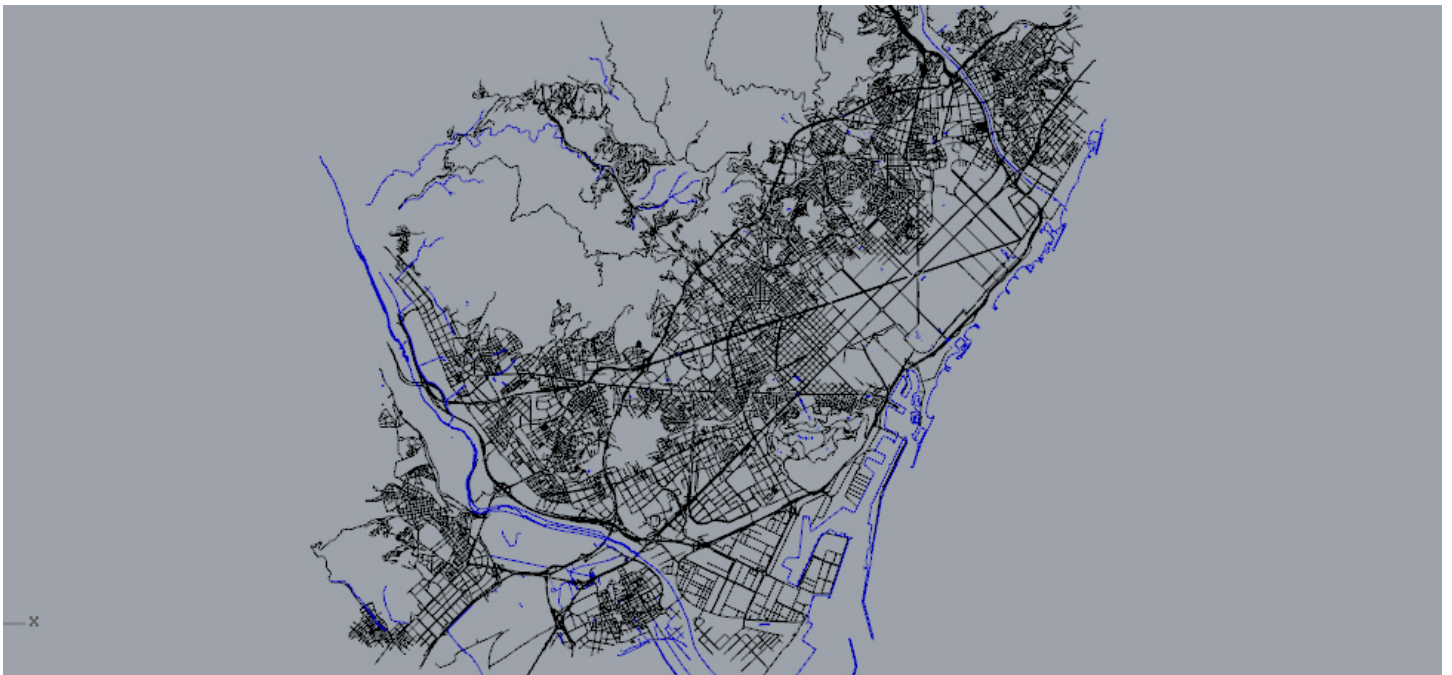


Fig. 04. Water Body Outline

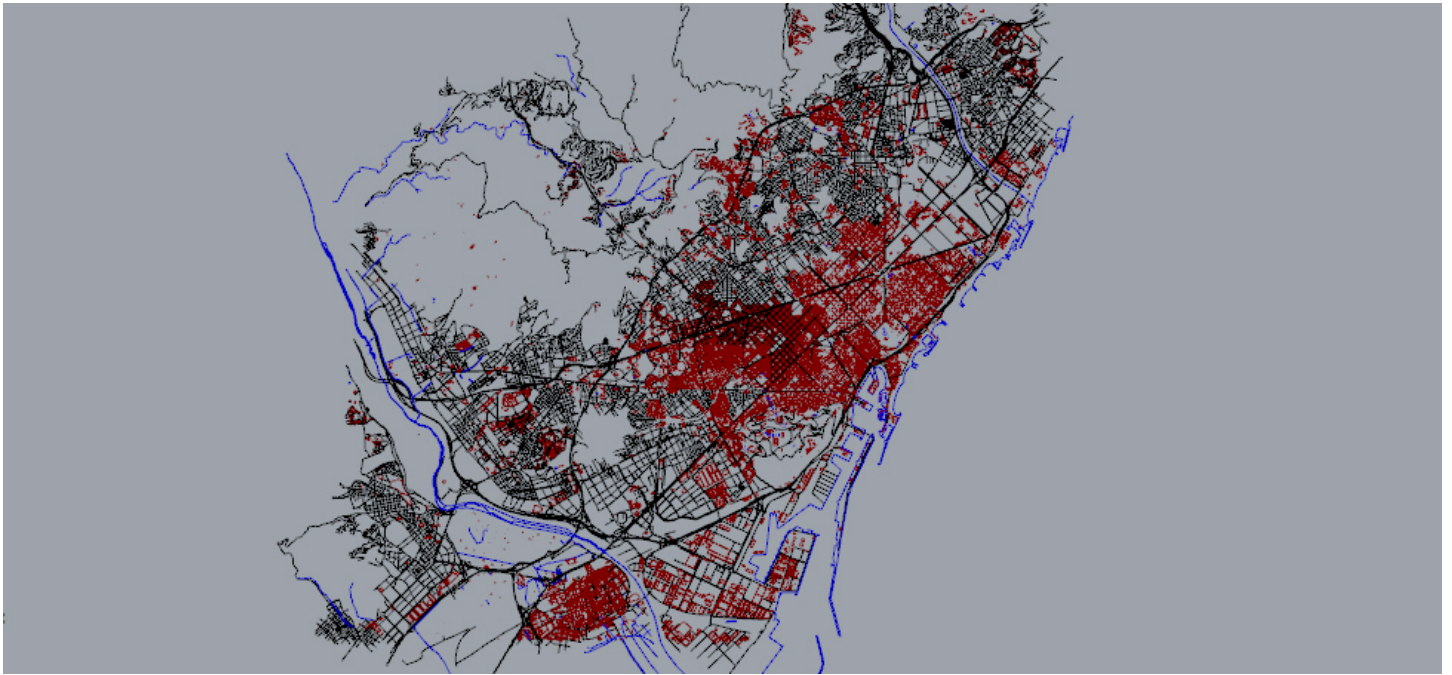


Fig. 05. Buildings Layer

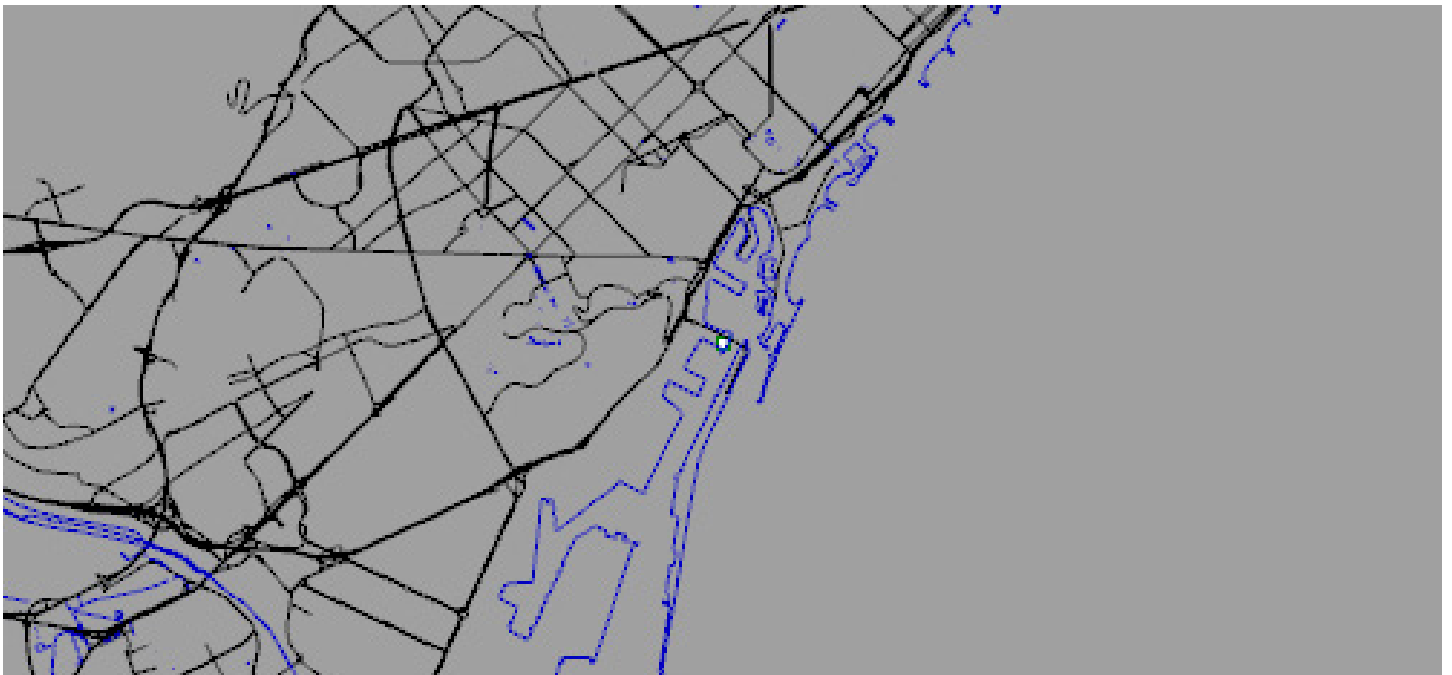


Fig. 06. Point at Port

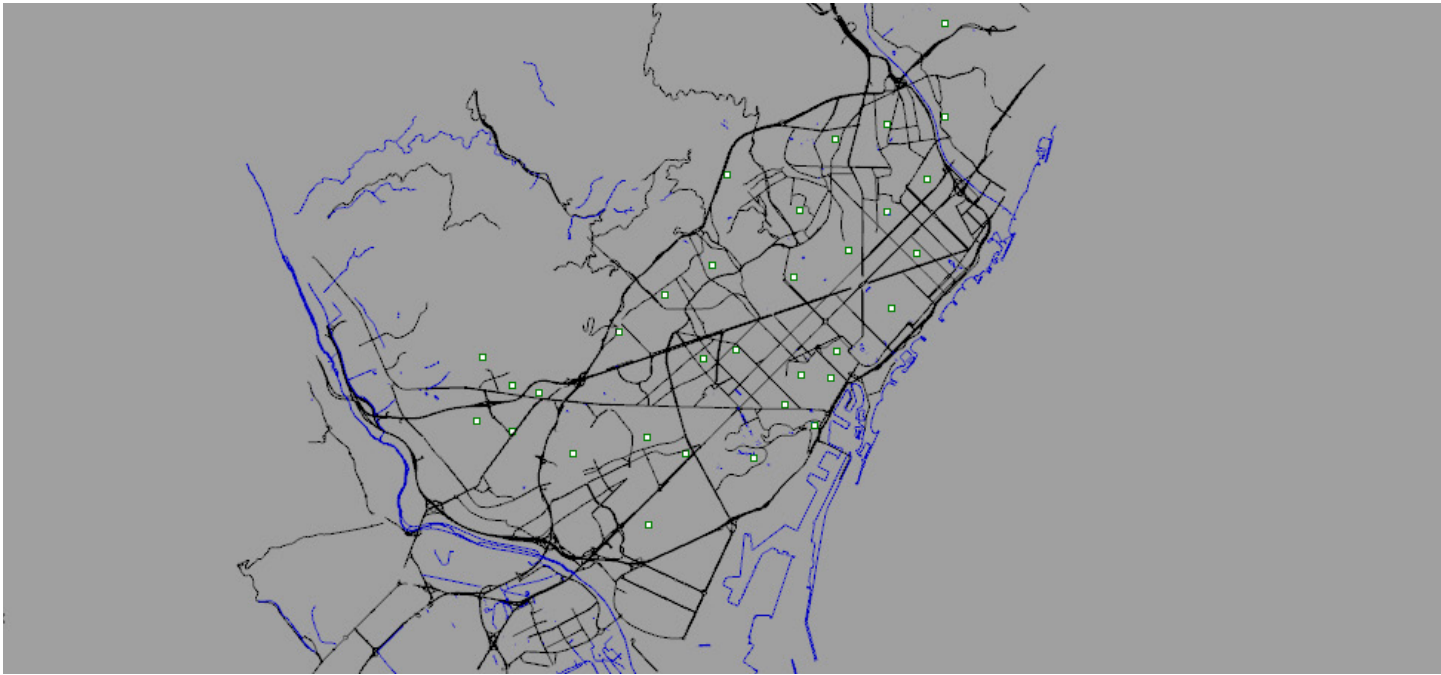


Fig. 07. Multiple Points

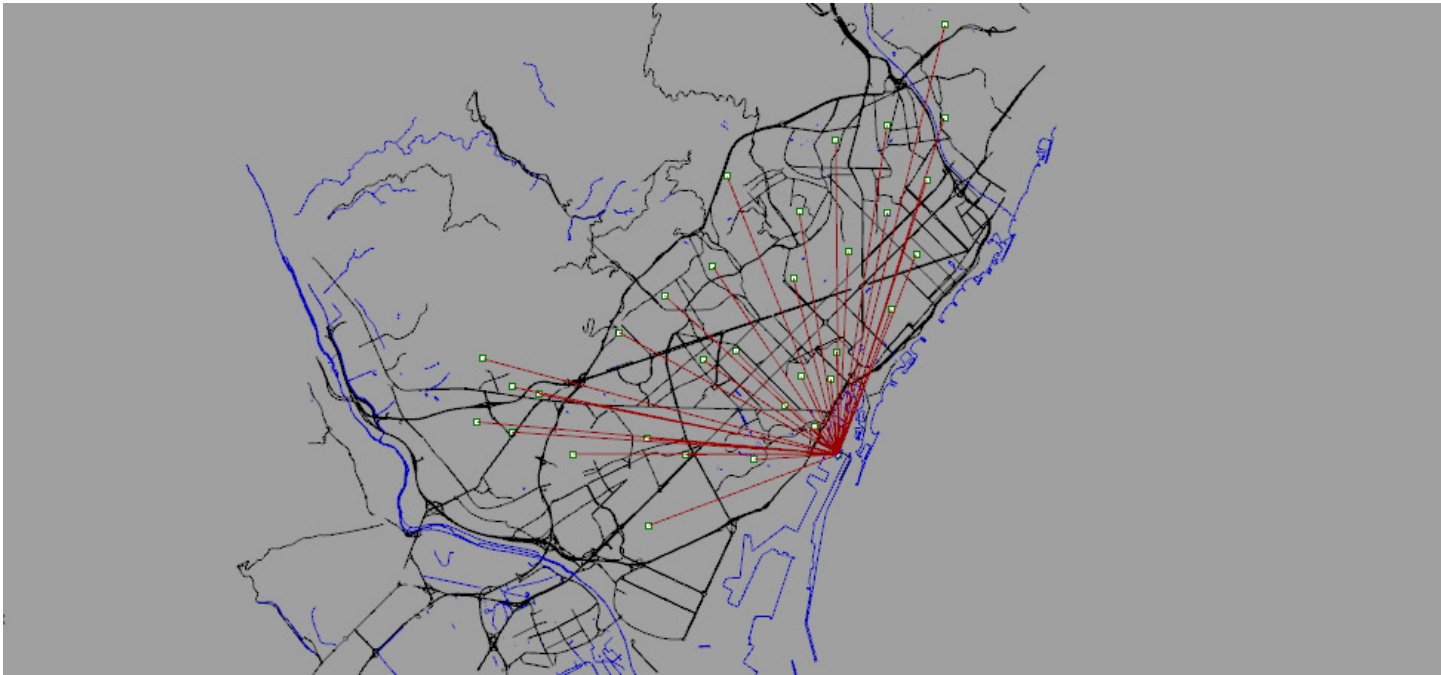


Fig. 08. Distributing Conneting Lines

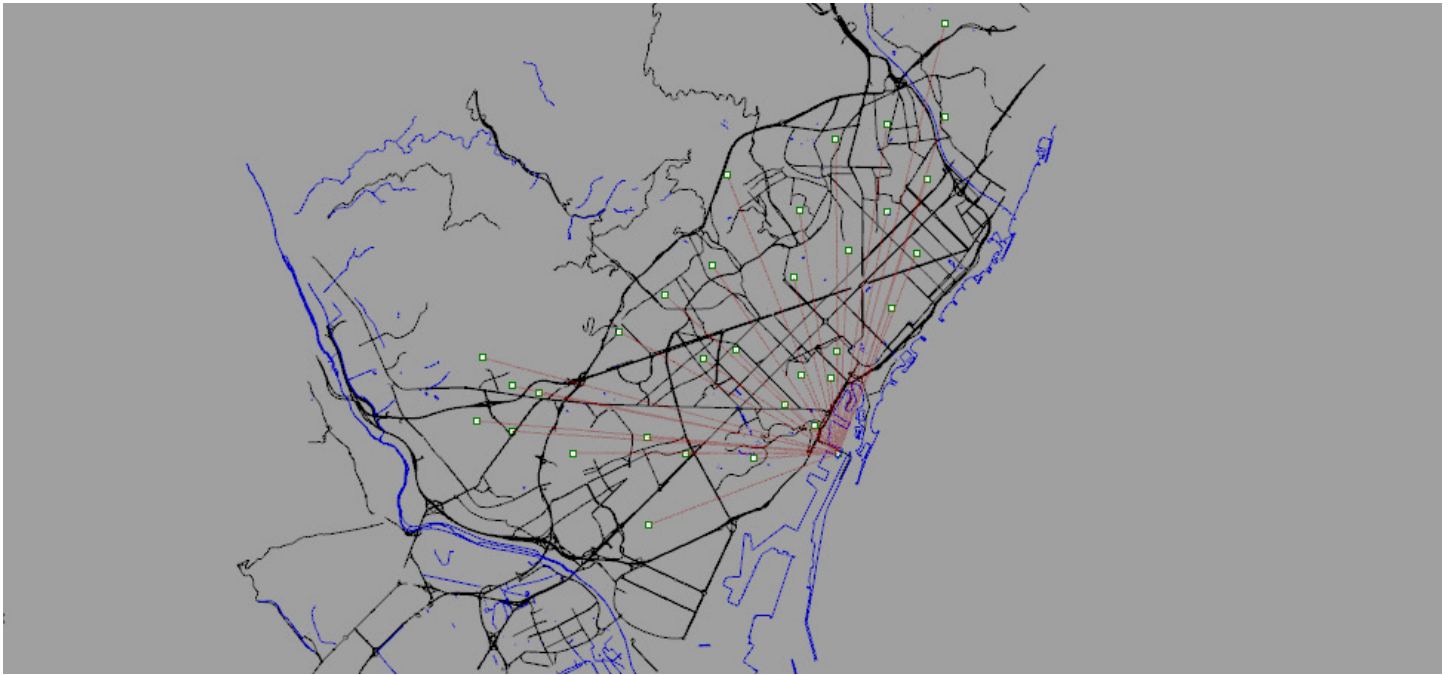


Fig. 09. Dashed Lines

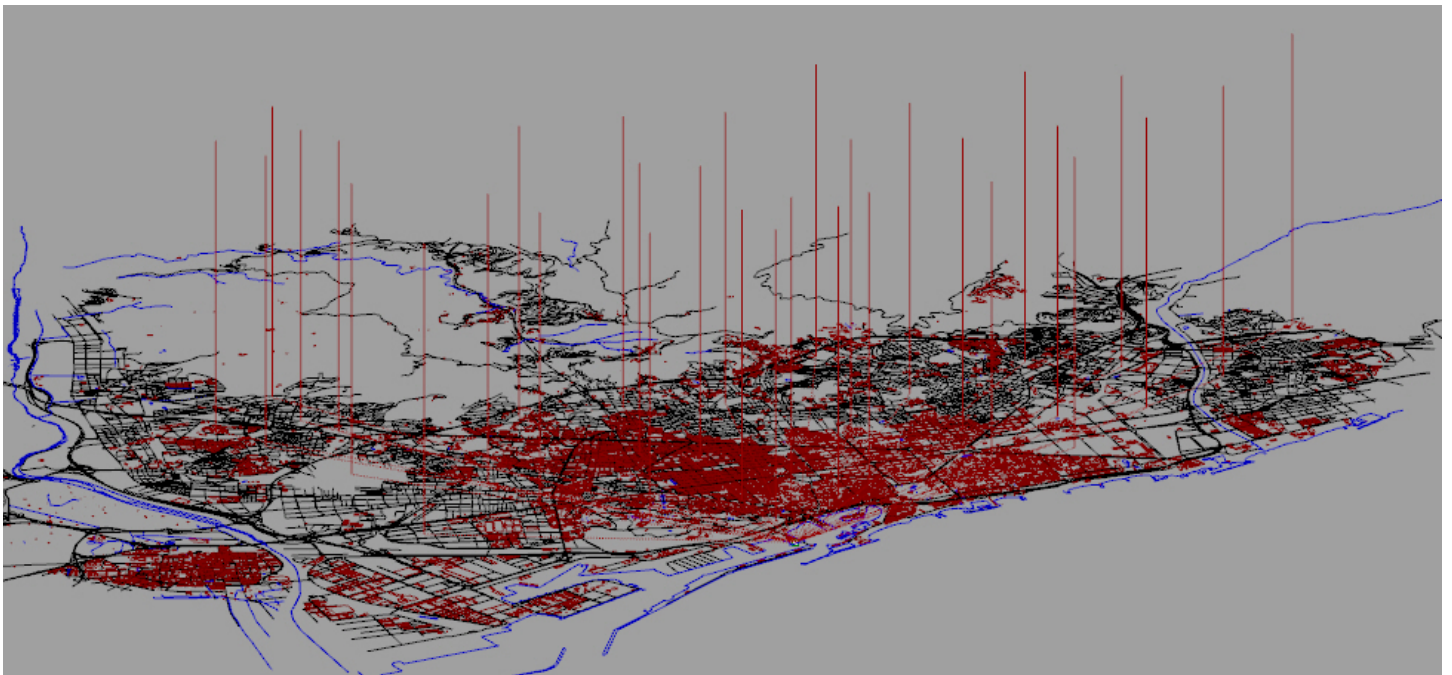


Fig. 10. Elevated Lines

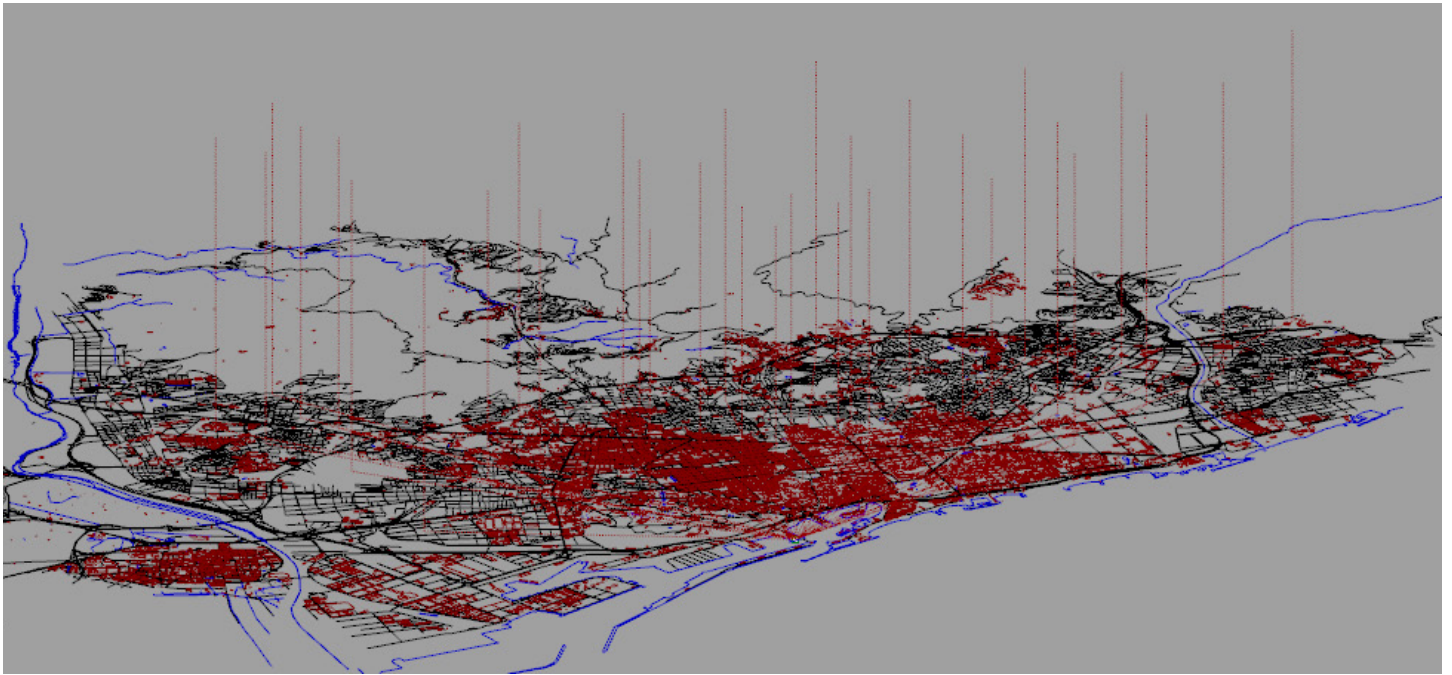


Fig. 11. Dotted Elevated Lines

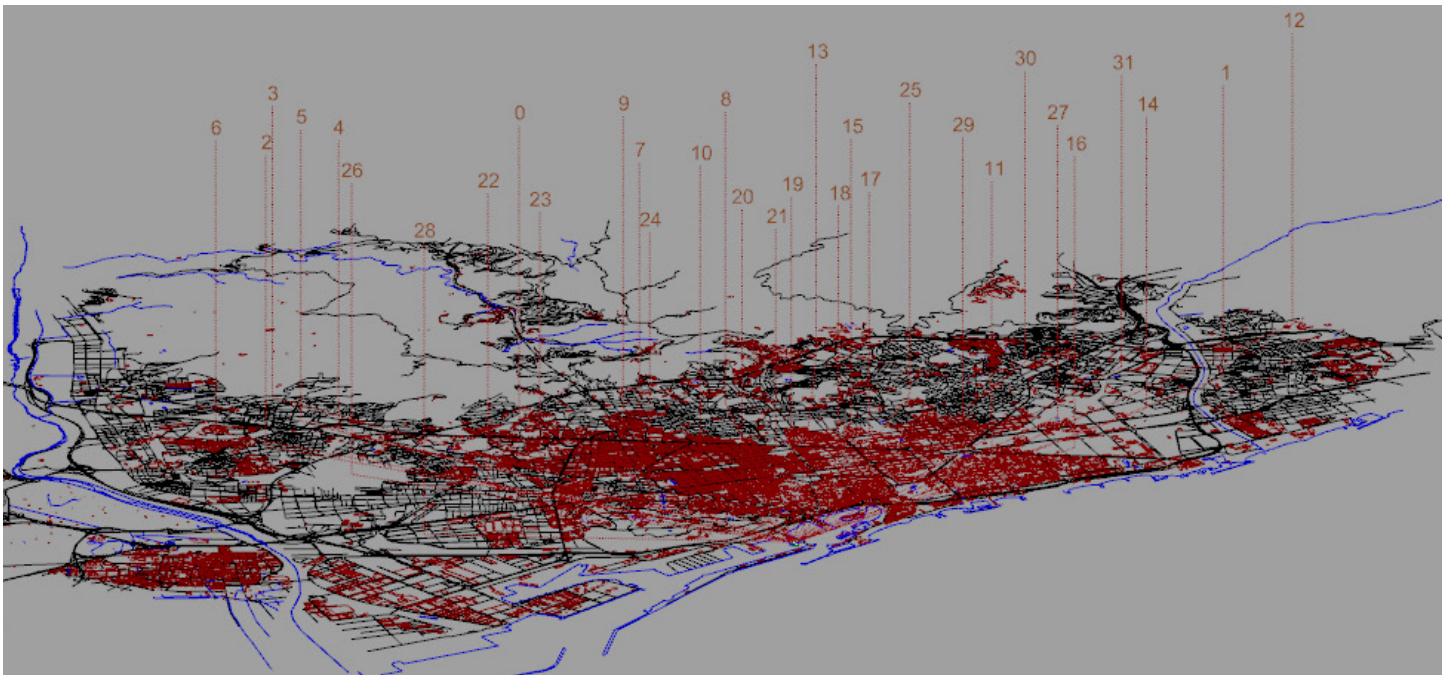


Fig. 12. Number to points

Section 3

Data representation.

Using a simple grasshopper script to connect points and adding a point list tab to the assigned points, a list of points is created to which there are graphs found using the weather station data from Wunderground.

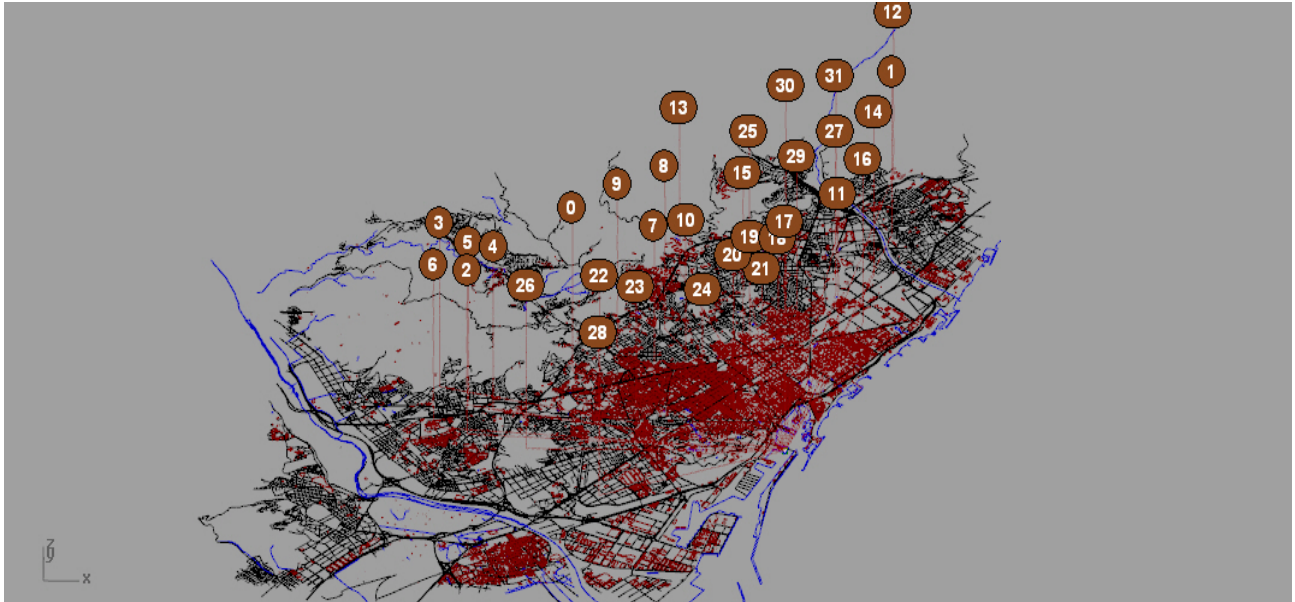


Fig. 13. Numbered points.

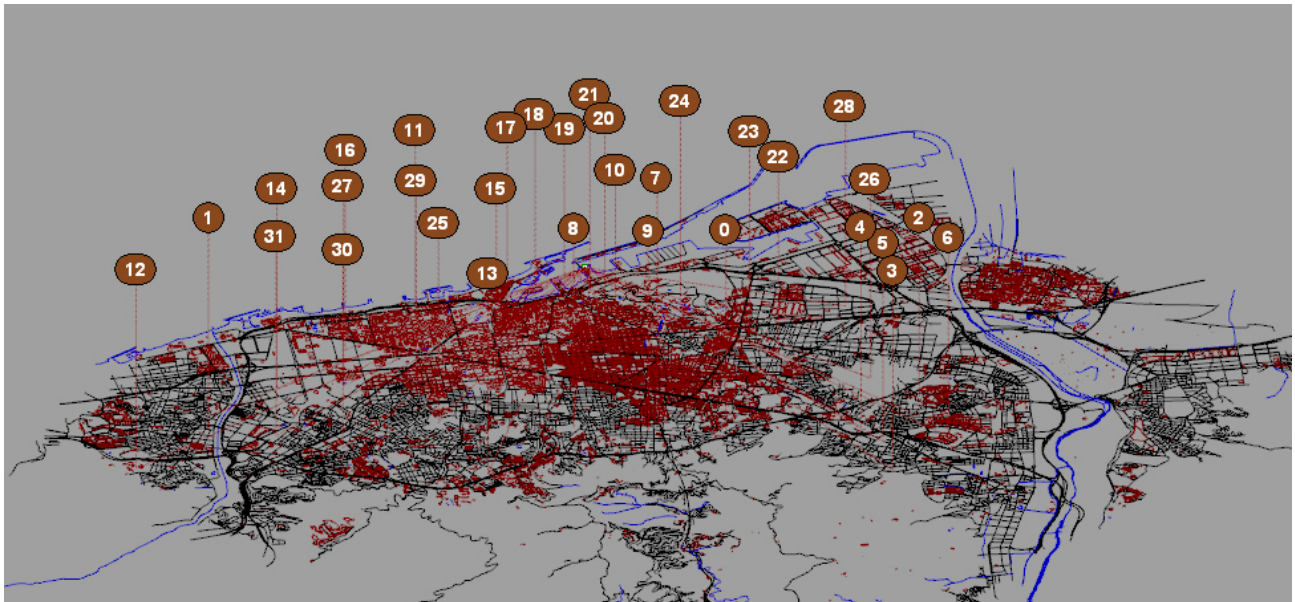
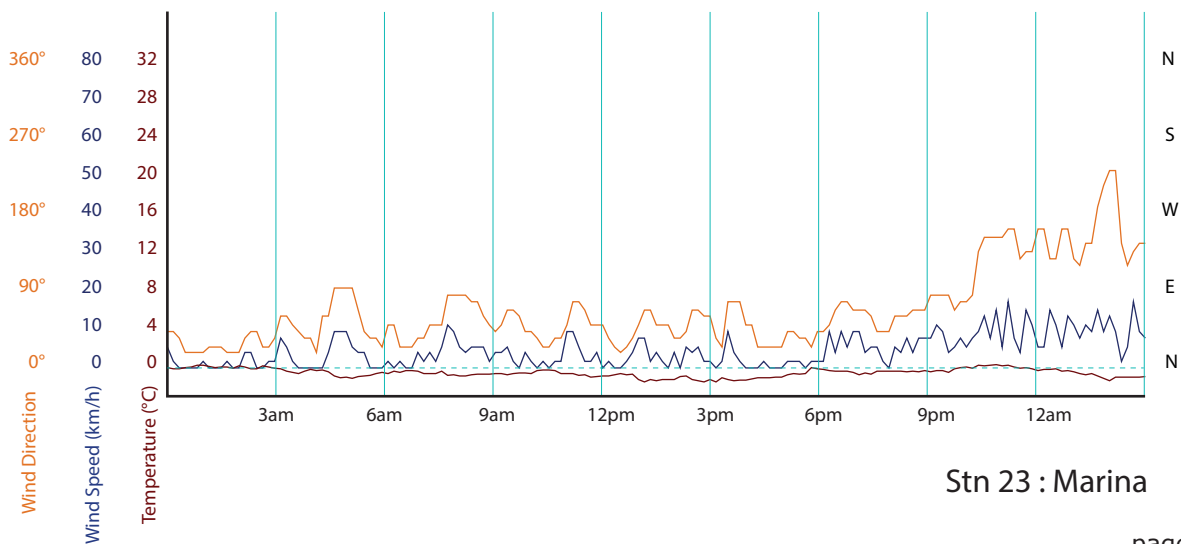
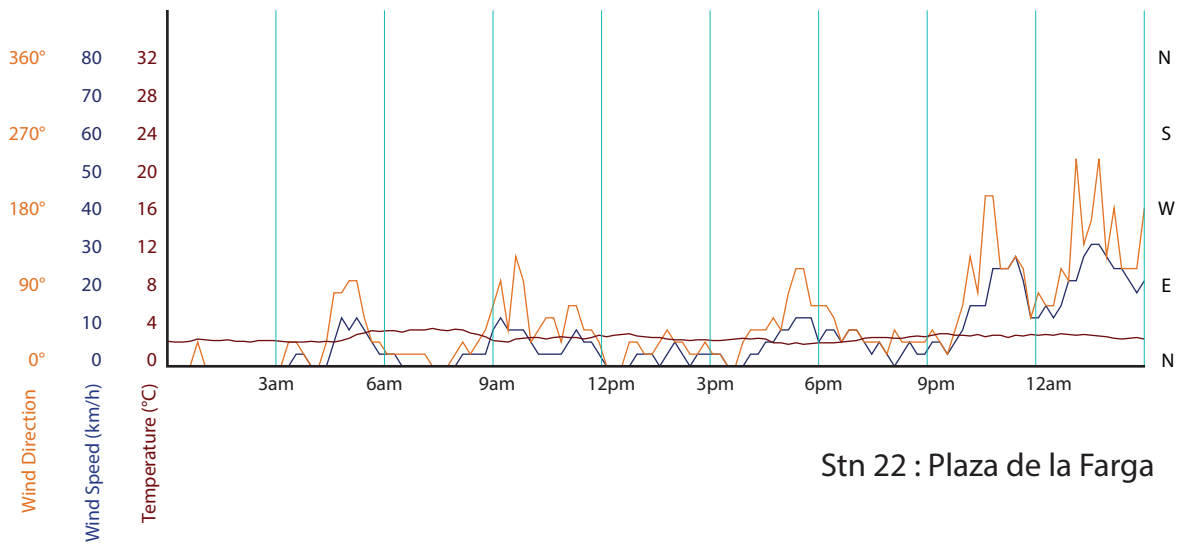
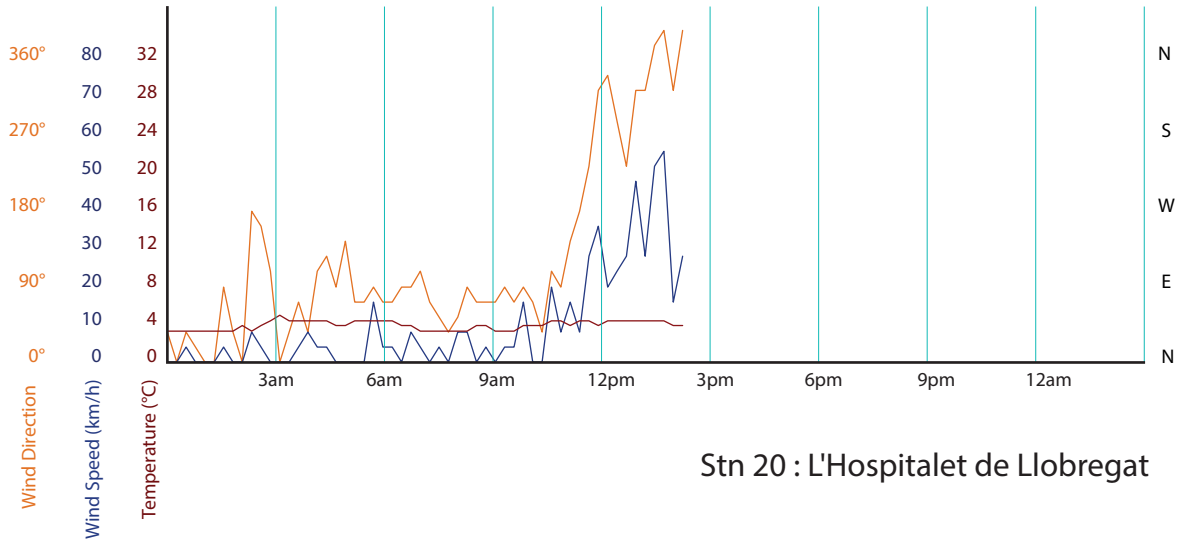
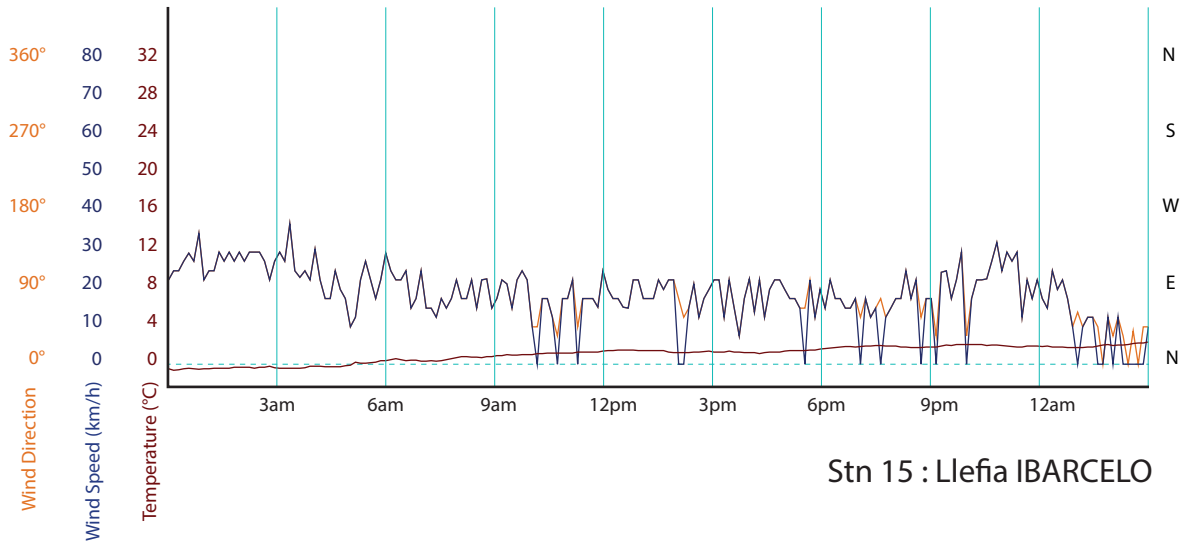


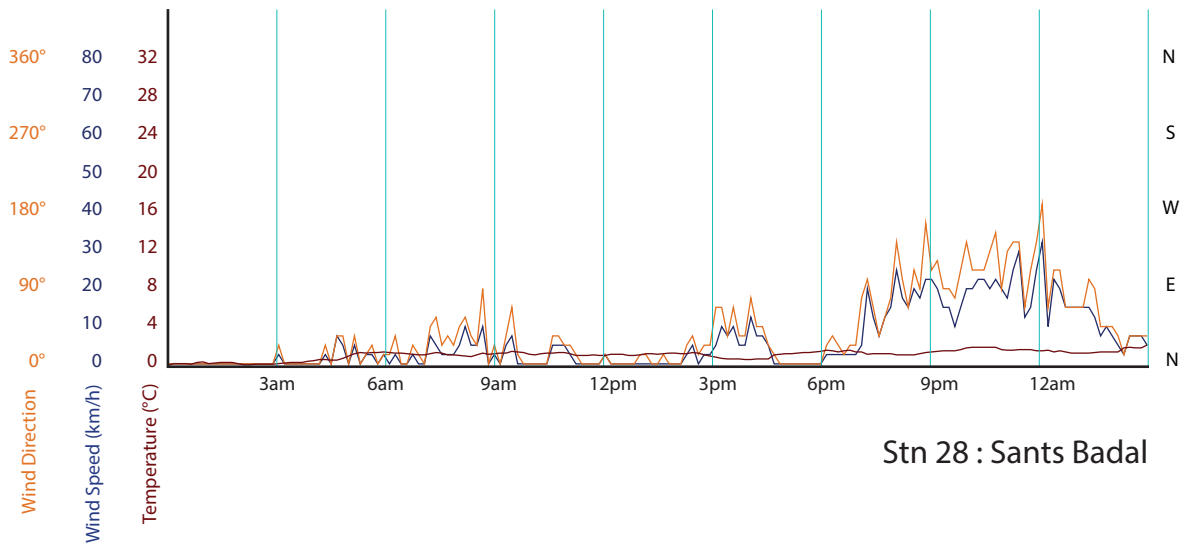
Fig. 14. Numbered points.

Graphs for Temperature, Wind Speed and Wind Direction created using the grasshopper script and represented graphically as under. The weather stations are chosen according to the wind charts of the places required for our Design project.

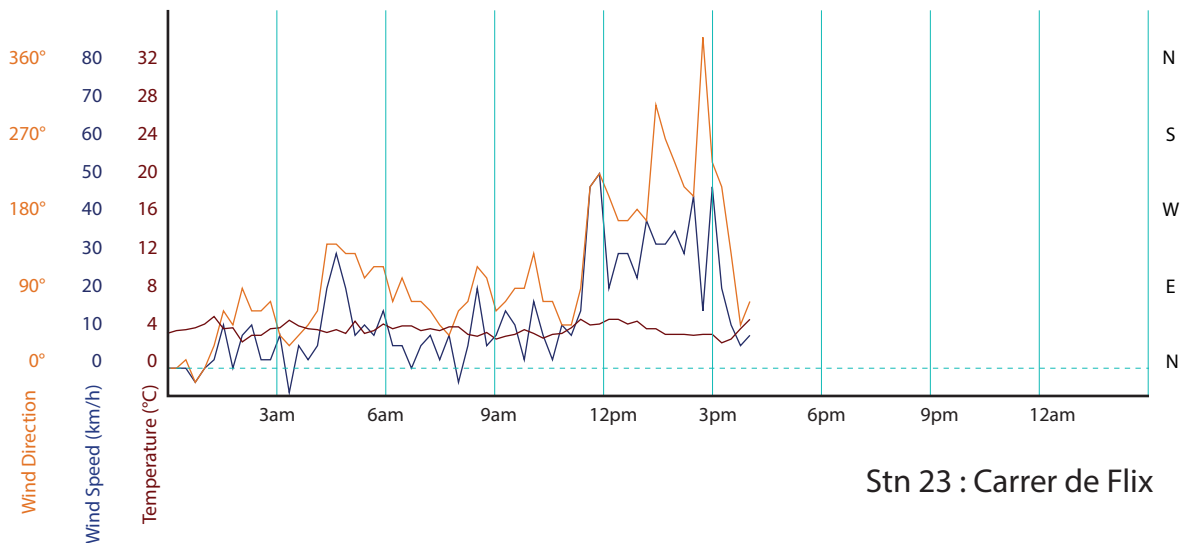




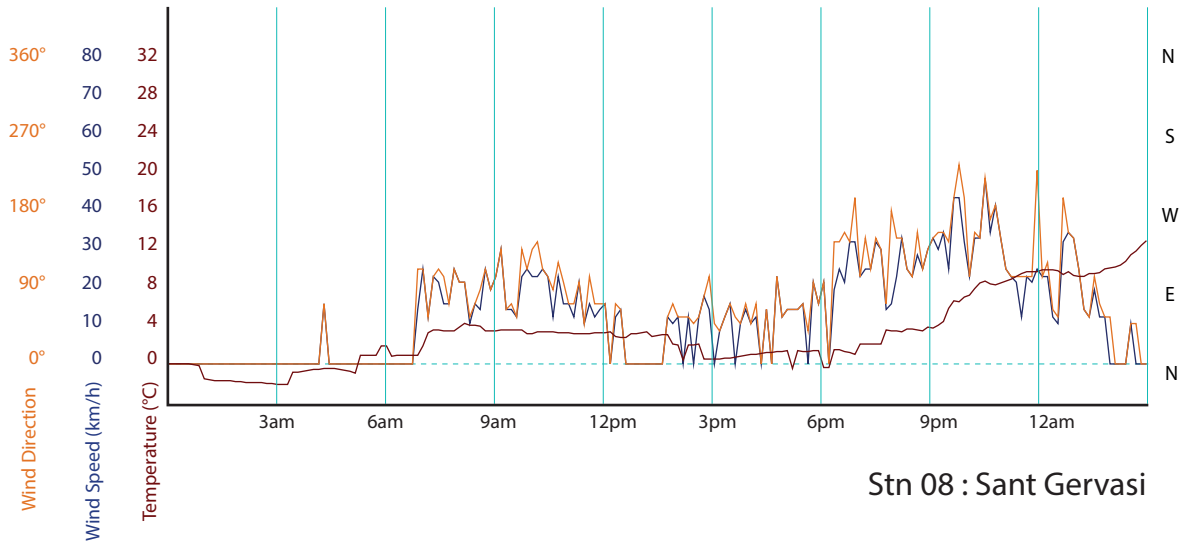
Stn 15 : Llefia IBARCELO



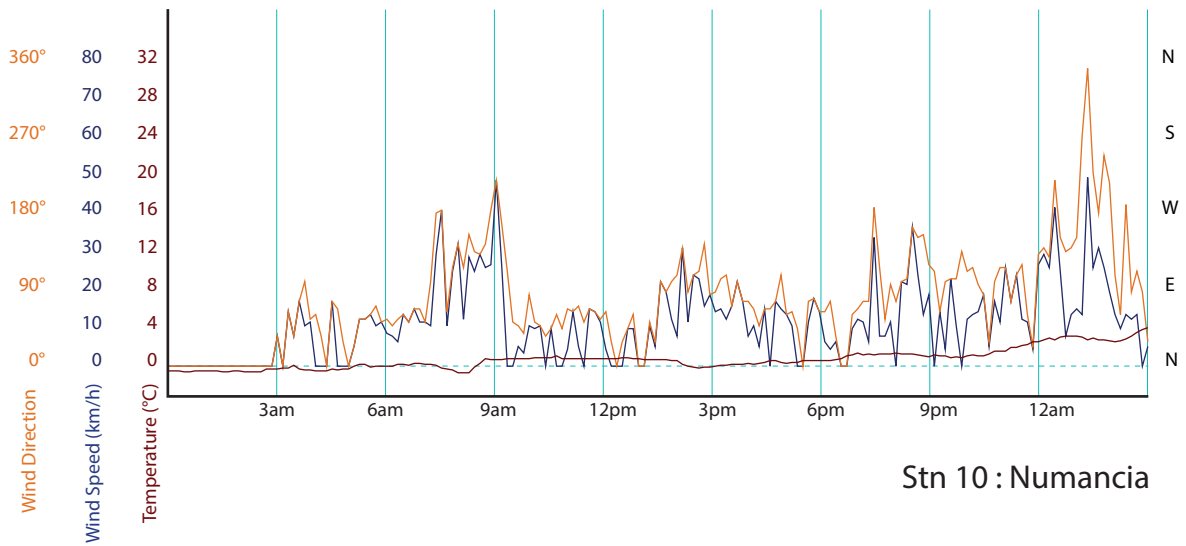
Stn 28 : Sants Badal



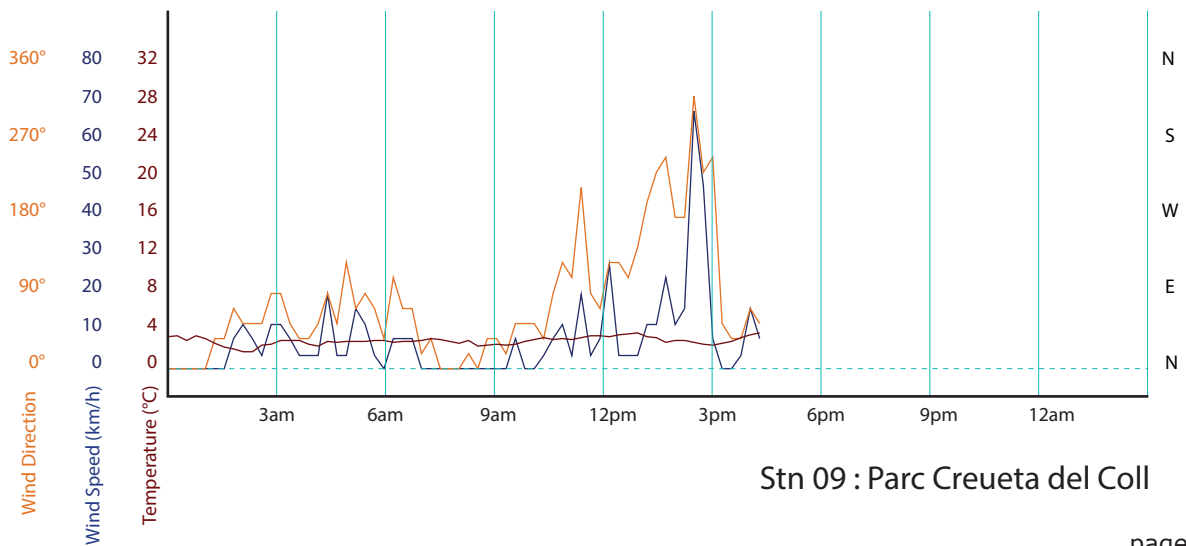
Stn 23 : Carrer de Flix



Stn 08 : Sant Gervasi



Stn 10 : Numancia



Stn 09 : Parc Creueta del Coll