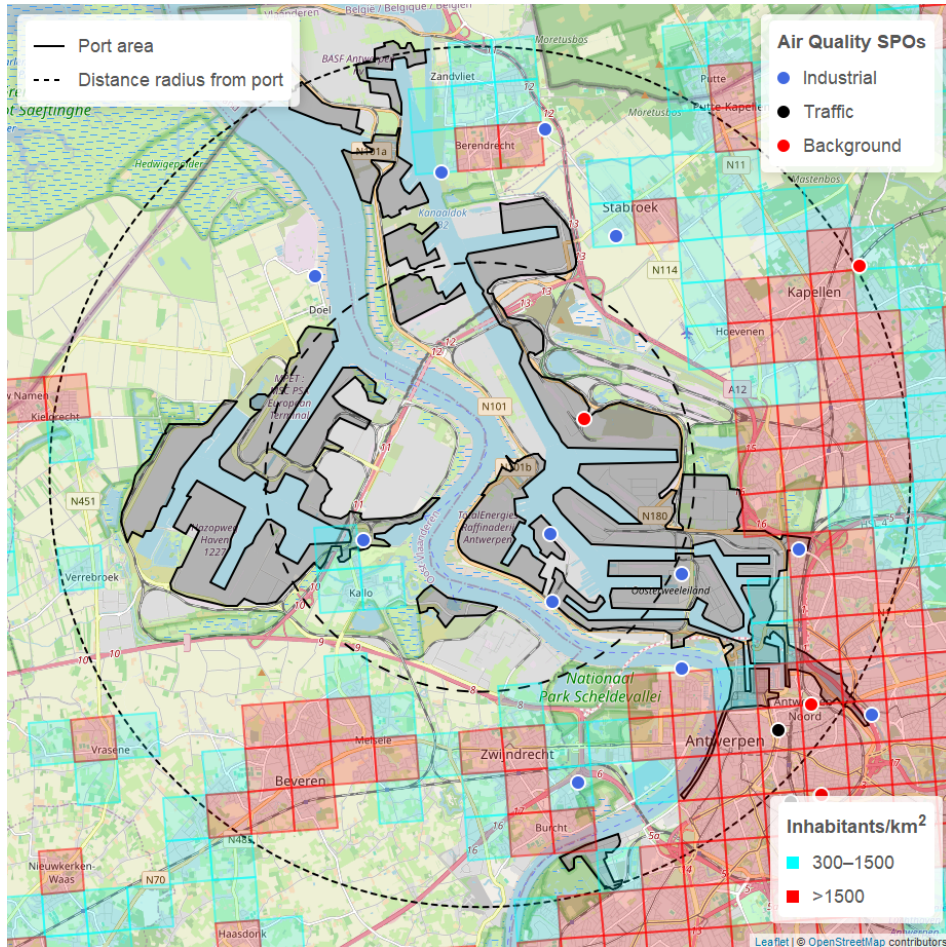


# Port of Antwerpen (BE)

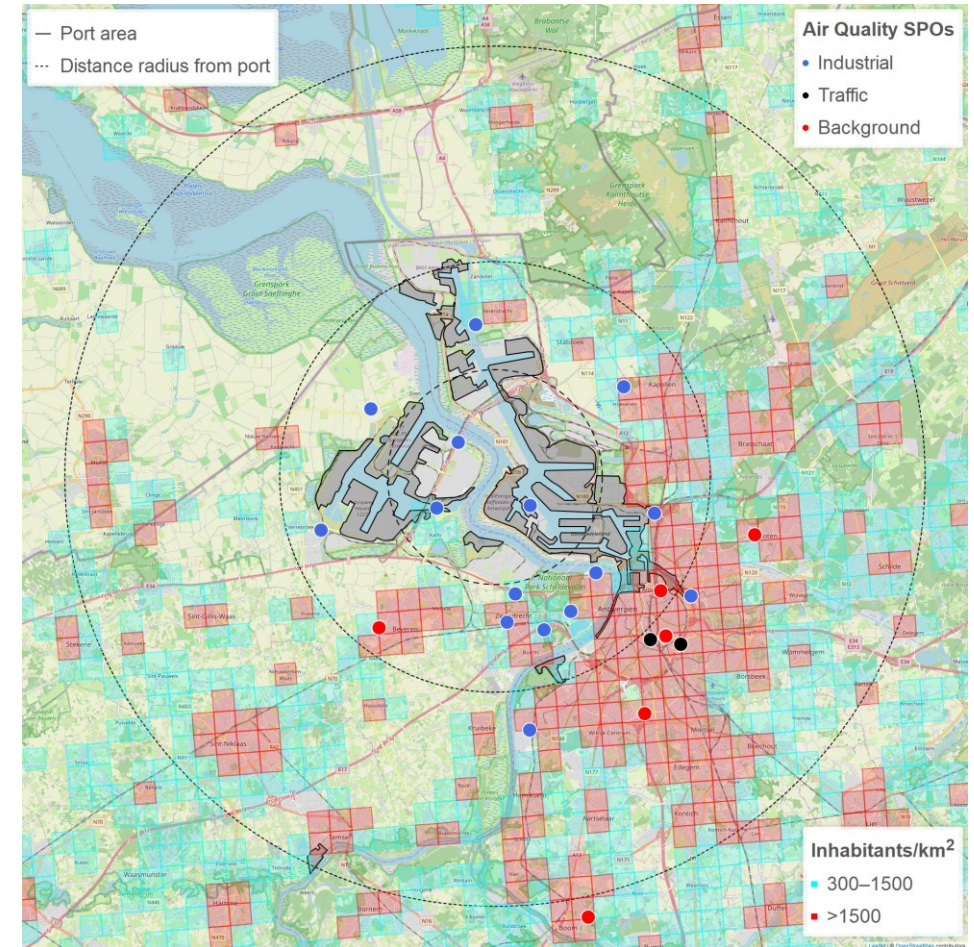
This fiche includes maps displaying the location of the sampling points (SPOs) around the port of Antwerpen (BE) with measurements of NO<sub>2</sub> and PM<sub>2.5</sub> in 2023 (E1a validated data AQ e-Reporting). The tables include additional information on the annual mean concentrations of each SPO with available data (data coverage larger than 75%), distances of the SPOs from the port area, location of the SPO in one of the 8 wind sectors around the port (WS: N, NE, E, SE, S, SW, W, NW), population living in the WS within 10 km from the port, and trends of annual mean concentrations (2005-2023) when available. This information has been complemented with the EEA air quality annual maps (1 km x 1 km), covering the whole area around the port and showing in the boxplot the different levels concentrations over the port area compared to the surrounding region, including the weighted area means for the different land cover classes. The presented information is based only on SPOs reported to the EEA, additional SPOs or data may exist at national level.

# Port of Antwerpen (BE)

Port area and NO<sub>2</sub> air quality SPOs around the port within 5 and 10 km



Port area and PM<sub>2.5</sub> air quality SPOs around the port within 5, 10 and 20 km



Pozzoli, L., Gressent, A., Soares, J., Colette, A., Monge, S. & González Ortiz, A. (2025). Air quality around ports (Eionet Report – ETC HE 2024/12, version 2, <https://doi.org/10.5281/zenodo.17416089>).

[ETC HE Report 2024/12: Air quality around ports — Eionet Portal](#)



# NO<sub>2</sub> SPOs in 2023 around the port (Part 1)

| Country | Station code | Station type | Latitude | Longitude | Concentration (µg/m <sup>3</sup> ) | 2005-2023 trend (%) | Distance from port area (km) | Wind sector (WS) | Population in WS and 10 km from port |
|---------|--------------|--------------|----------|-----------|------------------------------------|---------------------|------------------------------|------------------|--------------------------------------|
| Belgium | BETR822      | Industrial   | 51.26    | 4.34      | 29.73                              |                     | 0.00                         | SE               | 129,424                              |
| Belgium | BELAT44      | Background   | 51.29    | 4.35      | 27.32                              |                     | 0.00                         | NE               | 31,454                               |
| Belgium | BETR891      | Industrial   | 51.26    | 4.39      | 24.08                              |                     | 0.00                         | SE               | 129,424                              |
| Belgium | BETR892      | Industrial   | 51.26    | 4.28      | 21.54                              | -34.69              | 0.00                         | SW               | 28,898                               |
| Belgium | BETR897      | Industrial   | 51.25    | 4.34      | 22.11                              | -34.49              | 0.00                         | SE               | 129,424                              |
| Belgium | BETM802      | Industrial   | 51.26    | 4.42      | 21.71                              | -56.09              | 0.00                         | E                | 62,256                               |
| Belgium | BETR803      | Background   | 51.23    | 4.43      | 20.00                              |                     | 0.30                         | SE               | 129,424                              |
| Belgium | BELAL01      | Industrial   | 51.24    | 4.39      | 16.25                              |                     | 0.50                         | SE               | 129,424                              |
| Belgium | BELAT83      | Industrial   | 51.34    | 4.30      | 25.04                              |                     | 0.56                         | N                | 9,776                                |
| Belgium | BETR806      | Traffic      | 51.22    | 4.42      | 28.94                              |                     | 0.57                         | SE               | 129,424                              |



# NO<sub>2</sub> SPOs in 2023 around the port (Part 2)

| Country | Station code | Station type | Latitude | Longitude | Concentration (µg/m³) | 2005-2023 trend (%) | Distance from port area (km) | Wind sector (WS) | Population in WS and 10 km from port |
|---------|--------------|--------------|----------|-----------|-----------------------|---------------------|------------------------------|------------------|--------------------------------------|
| Belgium | BELSA08      | Industrial   | 51.33    | 4.36      | 18.59                 |                     | 0.99                         | NE               | 31,454                               |
| Belgium | BETR830      | Industrial   | 51.32    | 4.26      | 18.80                 | -28.94              | 1.19                         | NW               | 282                                  |
| Belgium | BETR818      | Industrial   | 51.21    | 4.35      | 18.28                 |                     | 1.43                         | S                | 24,973                               |
| Belgium | BETR831      | Industrial   | 51.35    | 4.34      | 19.45                 | -49.99              | 1.58                         | N                | 9,776                                |



# PM<sub>2.5</sub> SPOs in 2023 around the port (Part 1)

| Country | Station code | Station type | Latitude | Longitude | Concentration (µg/m³) | 2005-2023 trend (%) | Distance from port area (km) | Wind sector (WS) | Population in WS and 10 km from port |
|---------|--------------|--------------|----------|-----------|-----------------------|---------------------|------------------------------|------------------|--------------------------------------|
| Belgium | BETM802      | Industrial   | 51.26    | 4.42      | 11.04                 |                     | 0.00                         | E                | 62,256                               |
| Belgium | BETR822      | Industrial   | 51.26    | 4.34      | 14.21                 |                     | 0.00                         | SE               | 129,424                              |
| Belgium | BELAL05      | Industrial   | 51.26    | 4.28      | 10.13                 |                     | 0.00                         | SW               | 28,898                               |
| Belgium | BETDU07      | Industrial   | 51.23    | 4.45      | 10.48                 |                     | 0.17                         | SE               | 129,424                              |
| Belgium | BETR803      | Background   | 51.23    | 4.43      | 11.18                 |                     | 0.30                         | SE               | 129,424                              |
| Belgium | BELAL01      | Industrial   | 51.24    | 4.39      | 10.26                 |                     | 0.50                         | SE               | 129,424                              |
| Belgium | BELAL04      | Industrial   | 51.29    | 4.29      | 10.16                 |                     | 0.51                         | NW               | 282                                  |
| Belgium | BELAT83      | Industrial   | 51.34    | 4.30      | 9.45                  |                     | 0.56                         | N                | 9,776                                |
| Belgium | BELAL03      | Industrial   | 51.25    | 4.20      | 10.56                 | -54.13              | 0.88                         | W                | 3,818                                |
| Belgium | BELAL02      | Industrial   | 51.30    | 4.23      | 10.73                 |                     | 1.37                         | NW               | 282                                  |



# PM<sub>2.5</sub> SPOs in 2023 around the port (Part 2)

| Country | Station code | Station type | Latitude | Longitude | Concentration (µg/m³) | 2005-2023 trend (%) | Distance from port area (km) | Wind sector (WS) | Population in WS and 10 km from port |
|---------|--------------|--------------|----------|-----------|-----------------------|---------------------|------------------------------|------------------|--------------------------------------|
| Belgium | BETR818      | Industrial   | 51.21    | 4.35      | 10.11                 |                     | 1.43                         | S                | 24,973                               |
| Belgium | BETAL10      | Industrial   | 51.22    | 4.37      | 9.91                  |                     | 1.60                         | SE               | 129,424                              |
| Belgium | BETAL09      | Industrial   | 51.22    | 4.37      | 9.81                  |                     | 1.60                         | SE               | 129,424                              |
| Belgium | BETR801      | Background   | 51.21    | 4.43      | 10.58                 | -43.31              | 1.91                         | SE               | 129,424                              |
| Belgium | BEGR801      | Background   | 51.21    | 4.43      | 9.32                  | -62.47              | 1.91                         | SE               | 129,424                              |
| Belgium | BETR802      | Traffic      | 51.21    | 4.43      | 11.15                 | -47.94              | 1.94                         | SE               | 129,424                              |
| Belgium | BETR804      | Traffic      | 51.21    | 4.44      | 9.90                  |                     | 2.02                         | SE               | 129,424                              |
| Belgium | BETR805      | Traffic      | 51.21    | 4.42      | 11.88                 |                     | 2.14                         | SE               | 129,424                              |
| Belgium | BETZD08      | Industrial   | 51.23    | 4.33      | 10.09                 |                     | 2.38                         | S                | 24,973                               |
| Belgium | BETZD01      | Industrial   | 51.22    | 4.33      | 10.86                 |                     | 2.46                         | S                | 24,973                               |



# PM<sub>2.5</sub> SPOs in 2023 around the port (Part 3)

| Country | Station code | Station type | Latitude | Longitude | Concentration (µg/m³) | 2005-2023 trend (%) | Distance from port area (km) | Wind sector (WS) | Population in WS and 10 km from port |
|---------|--------------|--------------|----------|-----------|-----------------------|---------------------|------------------------------|------------------|--------------------------------------|
| Belgium | BELHB23      | Industrial   | 51.17    | 4.34      | 9.64                  |                     | 2.58                         | S                | 24,973                               |
| Belgium | BELSA04      | Industrial   | 51.31    | 4.40      | 10.12                 |                     | 3.22                         | NE               | 31,454                               |
| Belgium | BETR817      | Background   | 51.18    | 4.42      | 9.99                  |                     | 4.00                         | SE               | 129,424                              |
| Belgium | BETR823      | Background   | 51.21    | 4.24      | 10.36                 |                     | 4.02                         | SW               | 28,898                               |
| Belgium | BETR811      | Background   | 51.25    | 4.49      | 10.45                 |                     | 4.15                         | E                | 62,256                               |
| Belgium | BEGR811      | Background   | 51.25    | 4.49      | 8.58                  | -60.94              | 4.15                         | E                | 62,256                               |

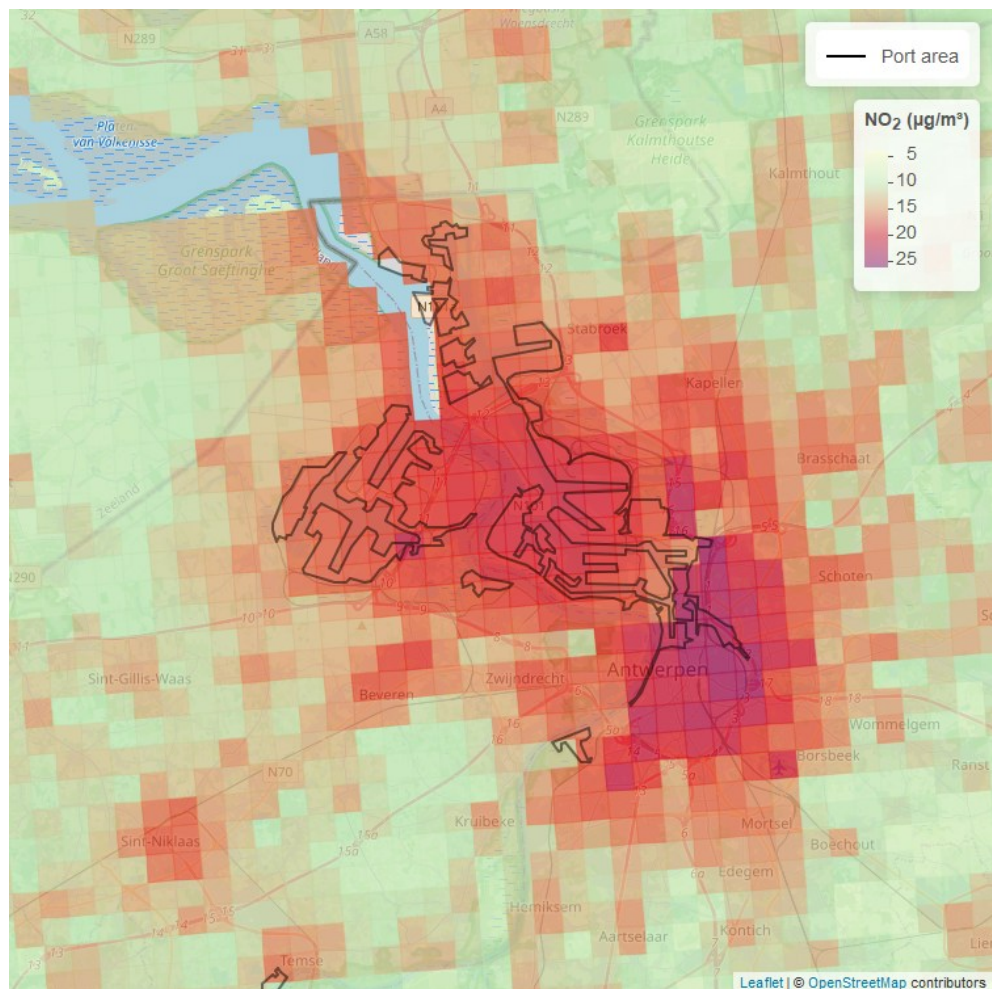
Pozzoli, L., Gressent, A., Soares, J., Colette, A., Monge, S. & González Ortiz, A. (2025). Air quality around ports (Eionet Report – ETC HE 2024/12, version 2, <https://doi.org/10.5281/zenodo.17416089>).

[ETC HE Report 2024/12: Air quality around ports — Eionet Portal](#)



# Annual mean NO<sub>2</sub> concentrations in 2023

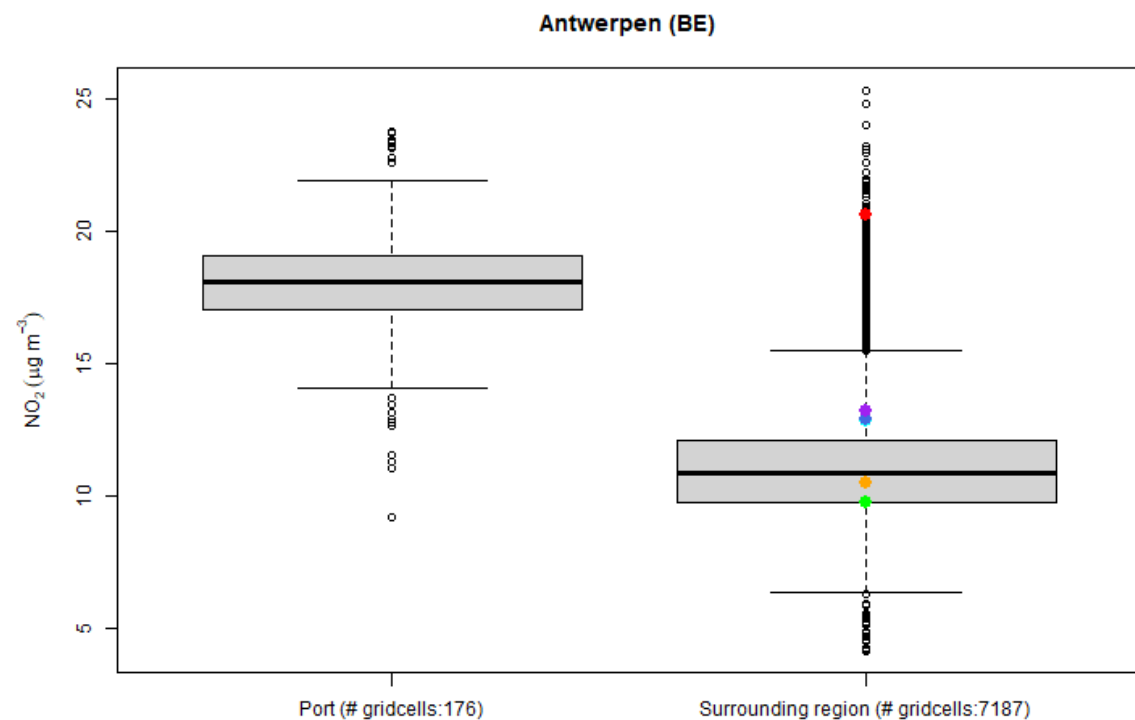
EEA air quality map (1 km x 1 km)



Pozzoli, L., Gressent, A., Soares, J., Colette, A., Monge, S. & González Ortiz, A. (2025). Air quality around ports (Eionet Report – ETC HE 2024/12, version 2, <https://doi.org/10.5281/zenodo.17416089>).

[ETC HE Report 2024/12: Air quality around ports — Eionet Portal](#)

Concentrations over the port area compared to the surrounding region.  
Coloured dots correspond to weighted area means for different land cover classes in the surrounding region.

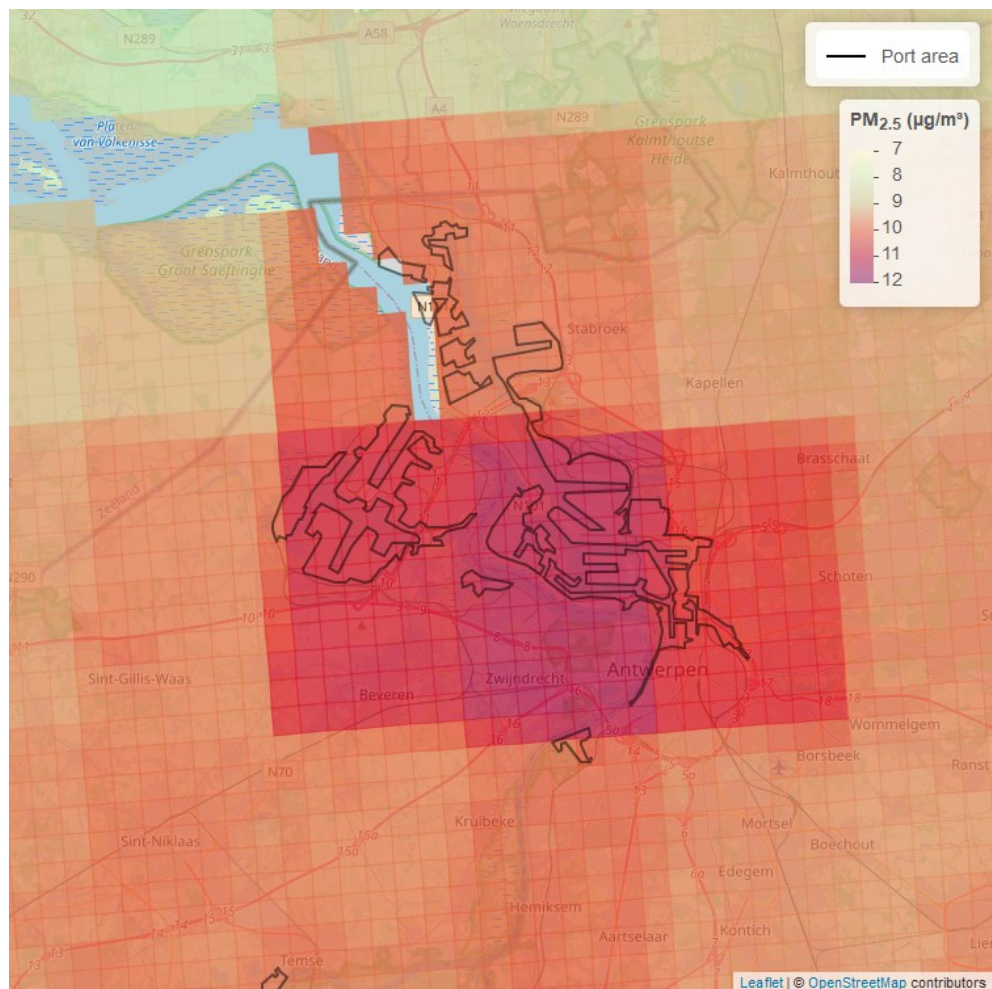


- High density residential
- Low density residential
- Industry
- Traffic
- Agricultural areas
- Natural areas

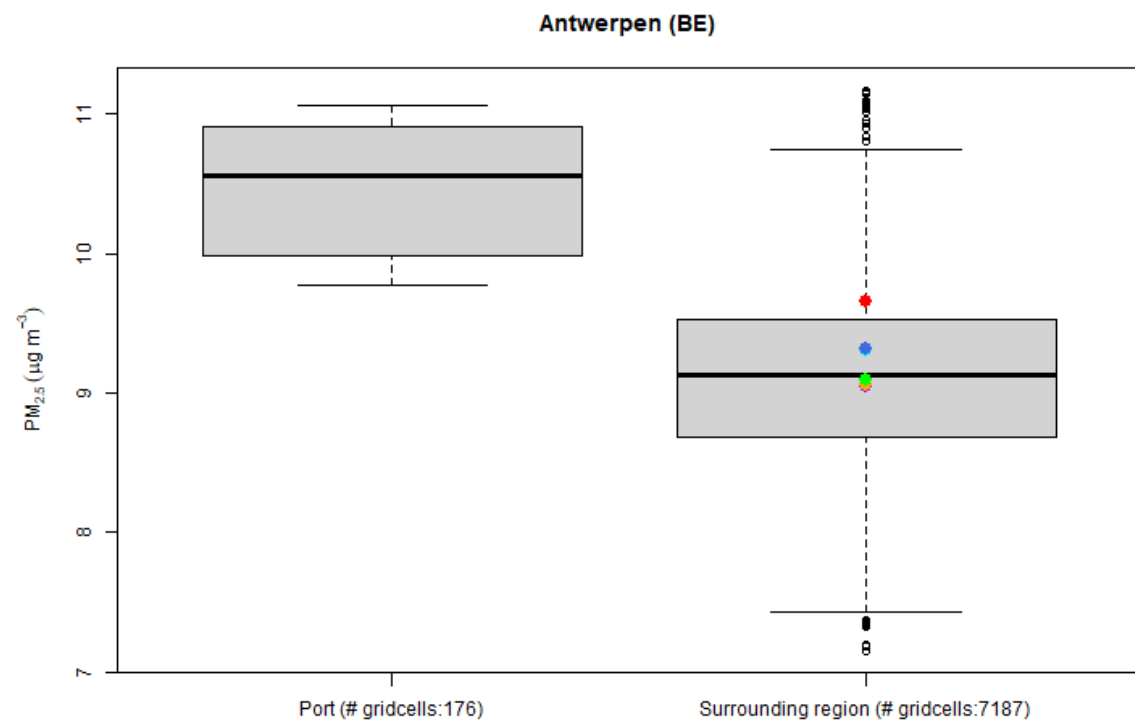


# Annual mean PM<sub>2.5</sub> concentrations in 2023

EEA air quality map (1 km x 1 km)



Concentrations over the port area compared to the surrounding region.  
Coloured dots correspond to weighted area means for different land cover classes in the surrounding region.



Pozzoli, L., Gressent, A., Soares, J., Colette, A., Monge, S. & González Ortiz, A. (2025). Air quality around ports (Eionet Report – ETC HE 2024/12, version 2, <https://doi.org/10.5281/zenodo.17416089>).

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