

APPENDIX 3

NETCEN Background Pollution Concentration Maps

Maps of Estimated Ambient Air Pollution in 2001 and Projections for Other Years

These maps are provided to assist local authorities in support of review and assessment of local air quality. These are the maps referred to in the Secretary of State's Technical Guidance TG(02).

The following maps of estimated background annual mean air pollutant concentrations at a 1 km x 1 km grid resolution are available:

- NO_x (2001, 2005, 2010)
- NO₂ (2001, 2005, 2010)
- PM₁₀ (2001, 2004, 2010)
- PM₁₀ secondary (2001)
- SO₂ (2001)
- Benzene (2001, 2003, 2010)
- CO (2001)
- 1,3-butadiene (2001, 2003)

Methods to estimate concentrations in years other than 2001 are provided in TG(02).

General information on the mapping methods is provided in the following reports:

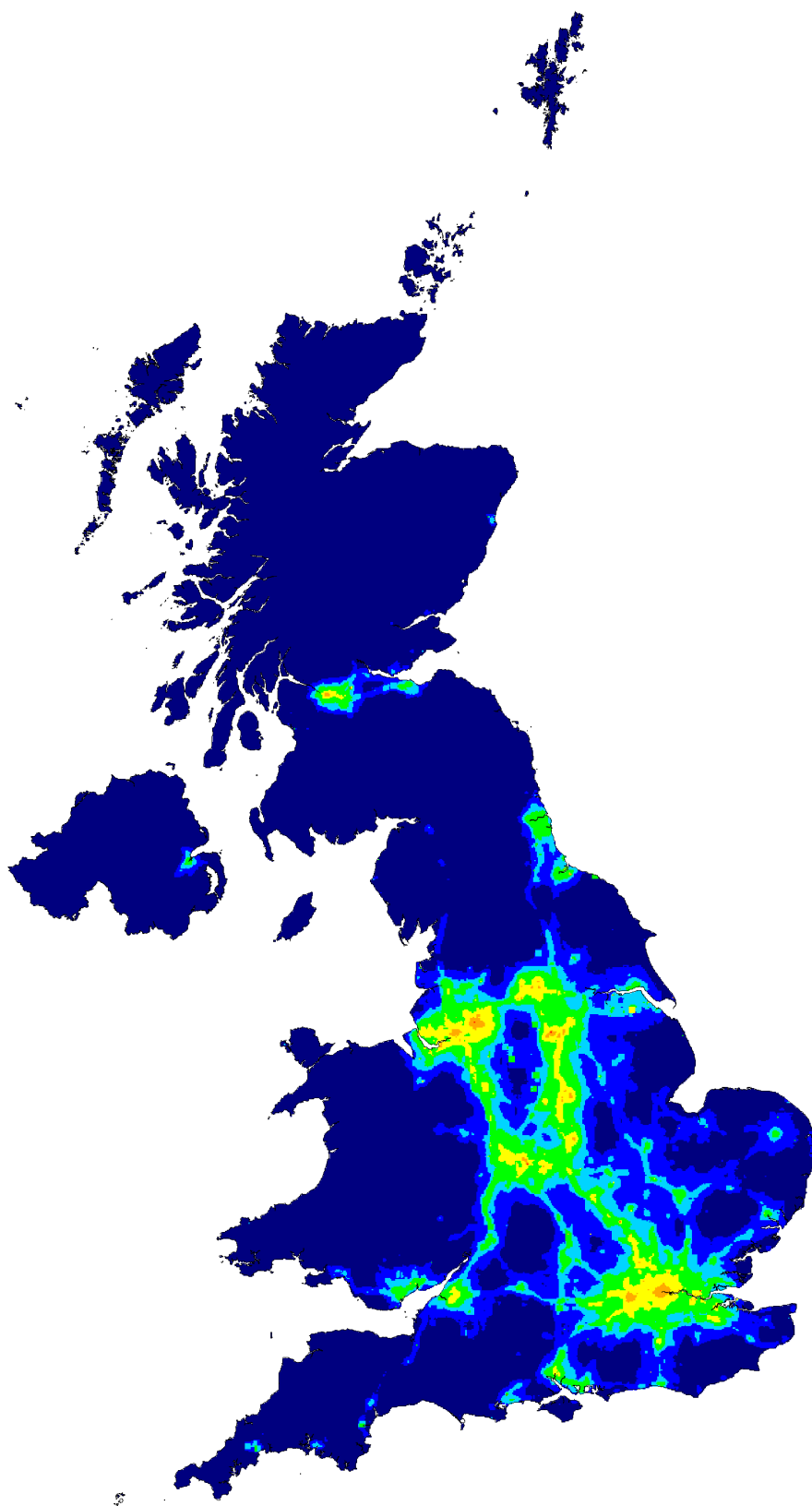
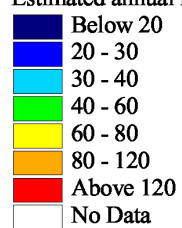
UK air quality modelling for annual reporting 2001 on ambient air quality assessment under Council Directives 96/62/EC and 1999/30/EC. AEA Technology, National Environmental Technology Centre. Report AEAT/ENV/R/1221

Stedman, J R, Bush, T J, Murrells, T P and King, K (2001). Baseline PM10 and NO_x projections for PM10 objective analysis. AEA Technology, National Environmental Technology Centre. Report AEAT/ENV/R/0726.

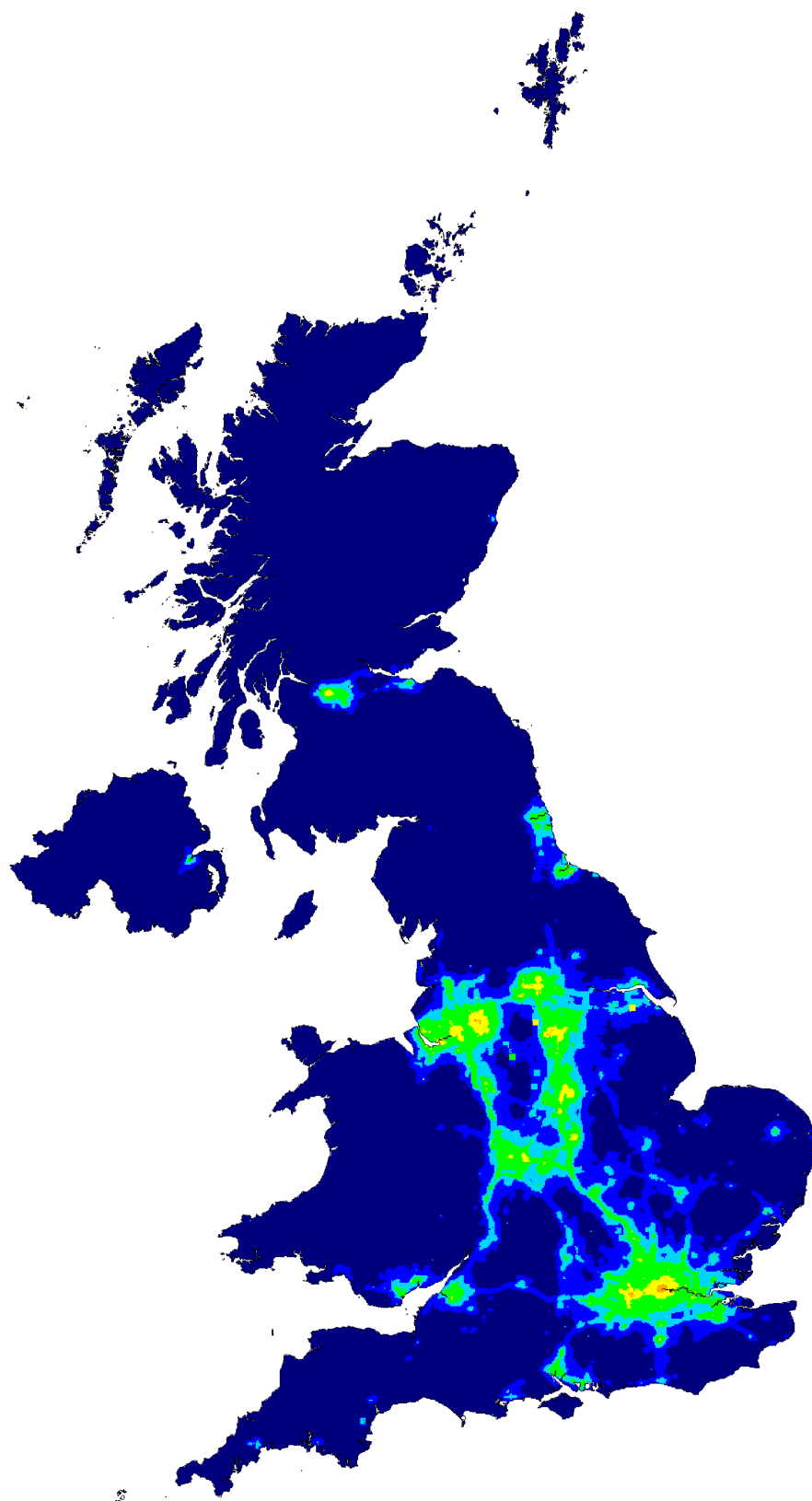
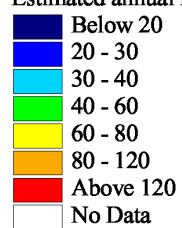
Bush T, Stedman J, Murrells T (2001) Projecting and mapping benzene concentrations in support of the Air Quality Strategy review. AEA Technology, National Environmental Technology Centre. Report AEAT/ENV/R/0722.

Bush T, Stedman J, Murrells T (2001) Projecting and mapping carbon monoxide concentrations in support of the Air Quality Strategy review. AEA Technology, National Environmental Technology Centre. Report AEAT/ENV/R/0723.

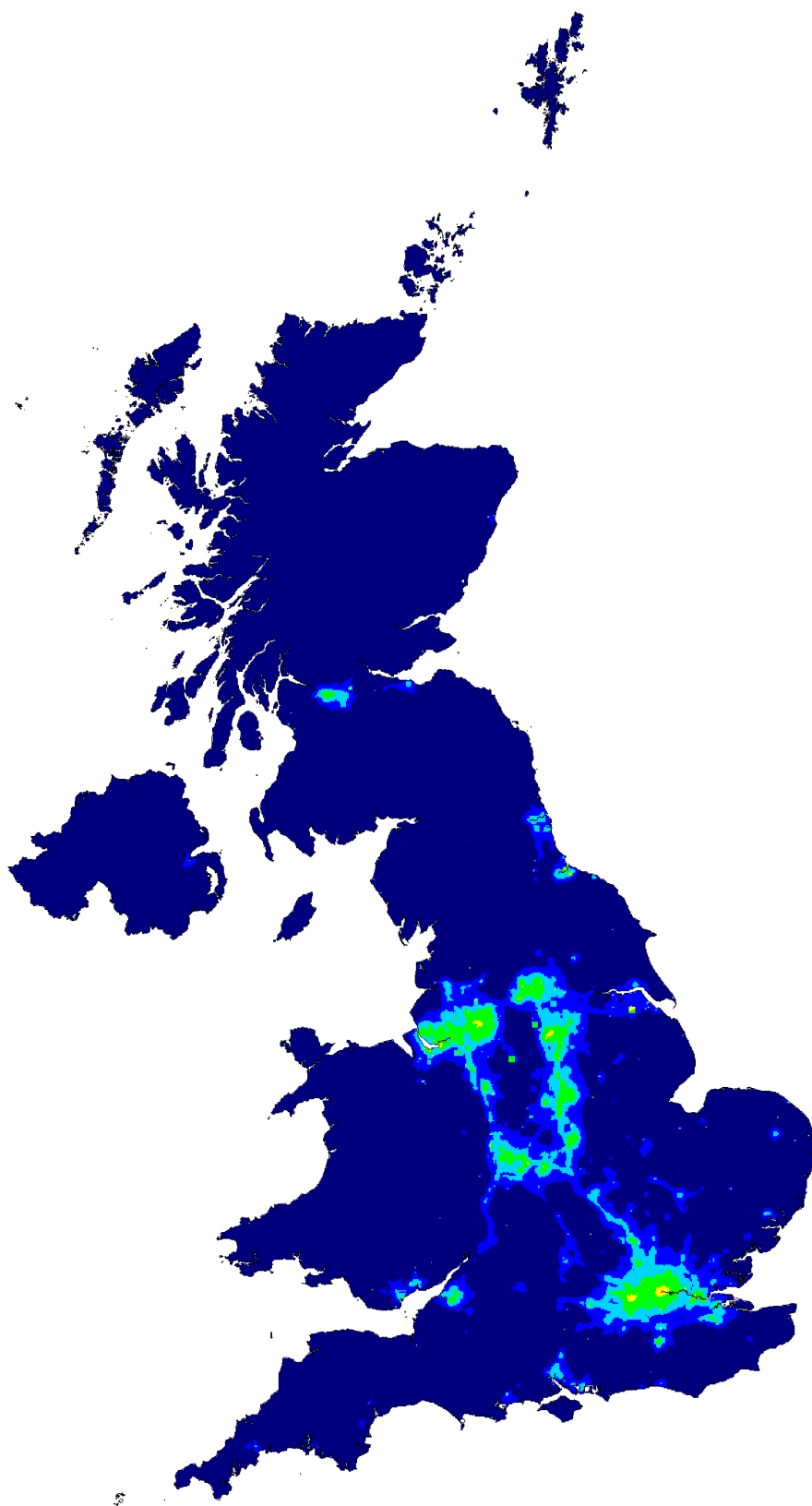
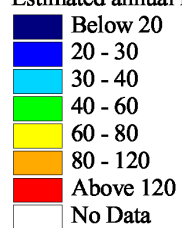
Estimated annual mean background NO_x concentration, 2001 (ugm-3 as NO₂)



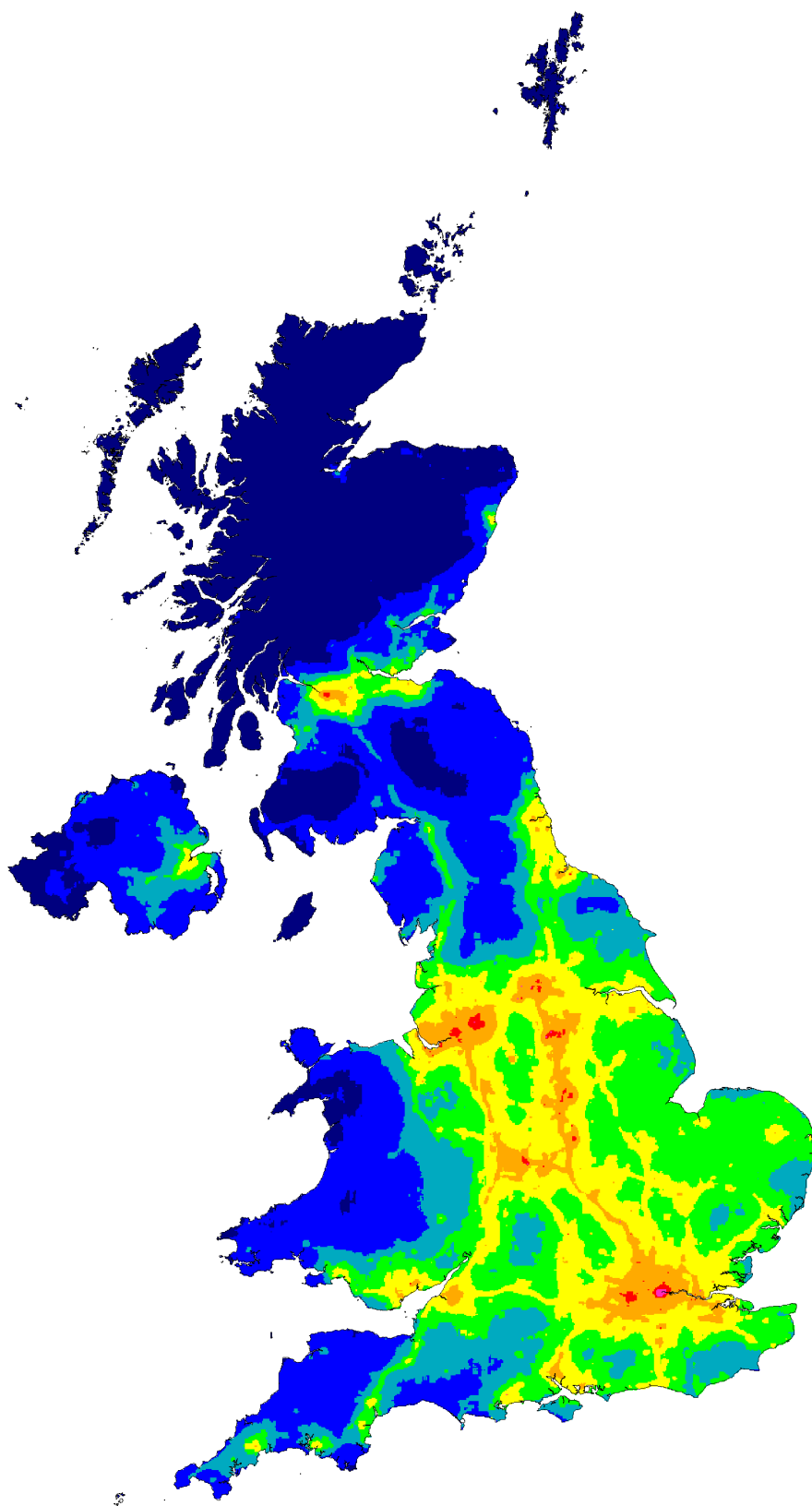
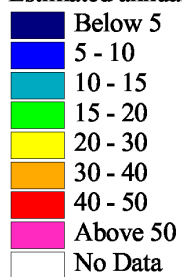
Estimated annual mean background NO_x concentration, 2005 (ugm-3 as NO₂)



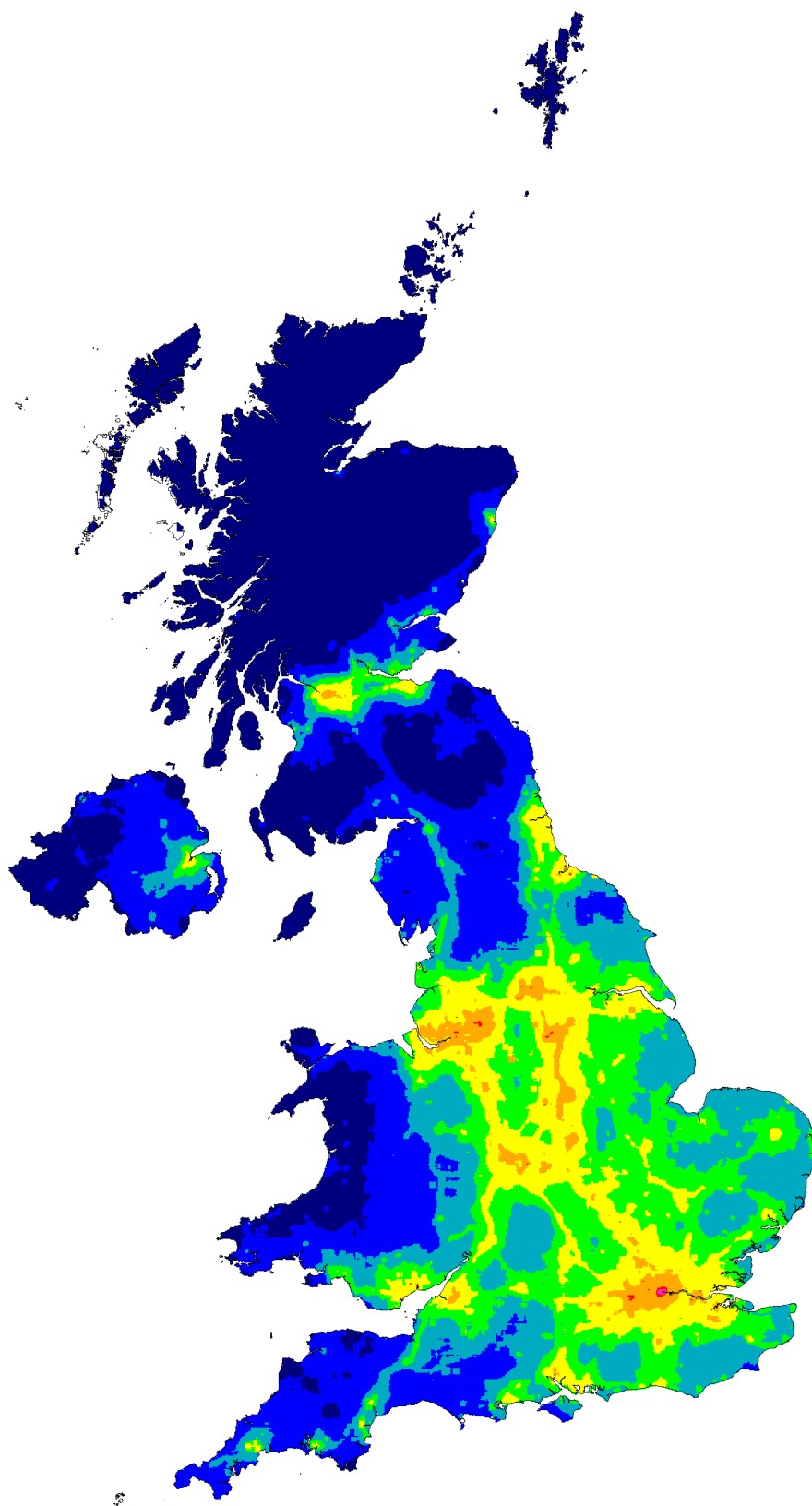
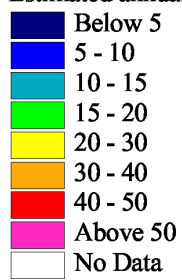
Estimated annual mean background NO_x concentration, 2010 (ugm-3 as NO₂)



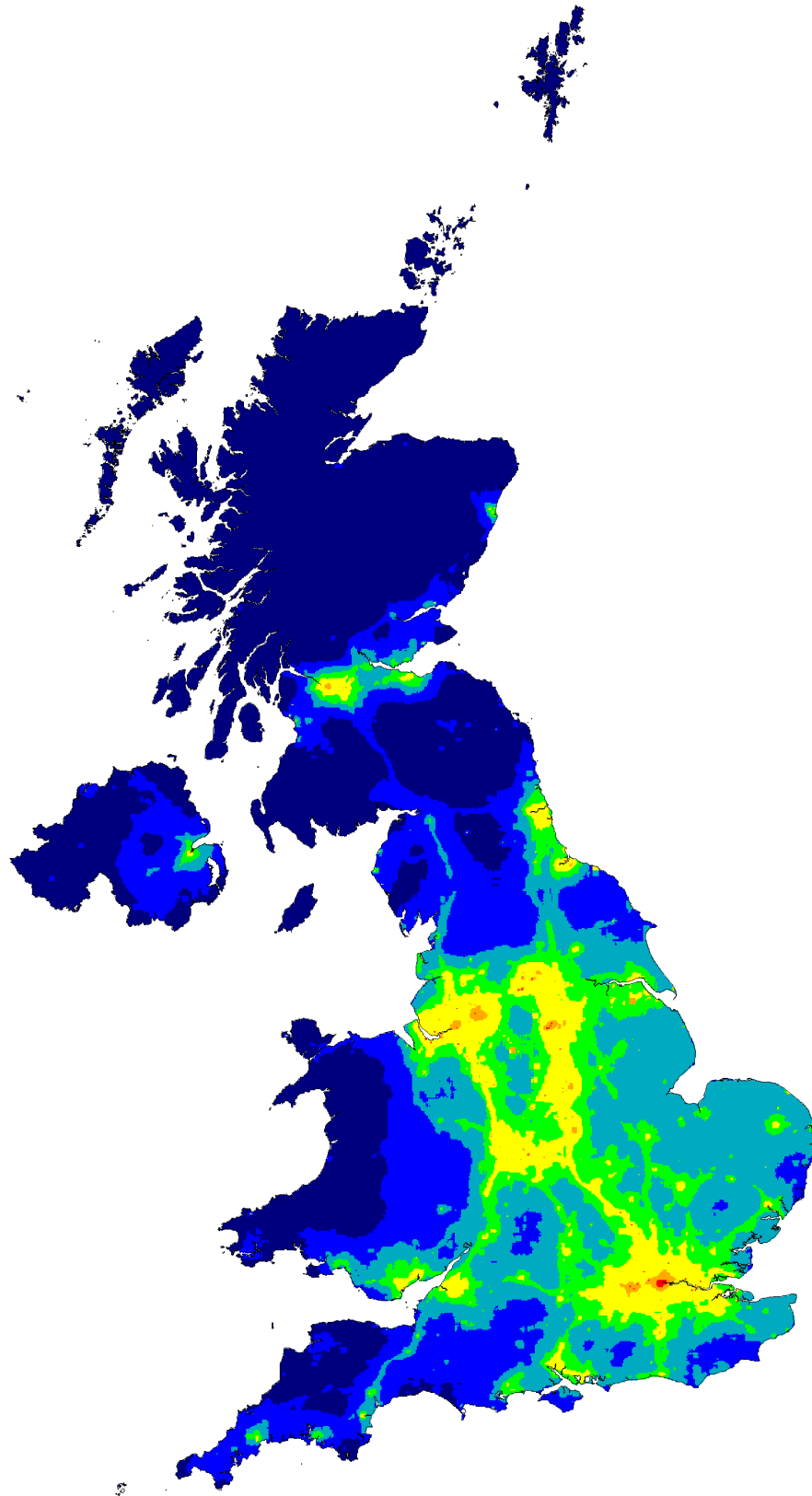
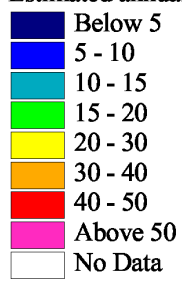
Estimated annual mean background NO₂ concentration, 2001 (ugm-3)



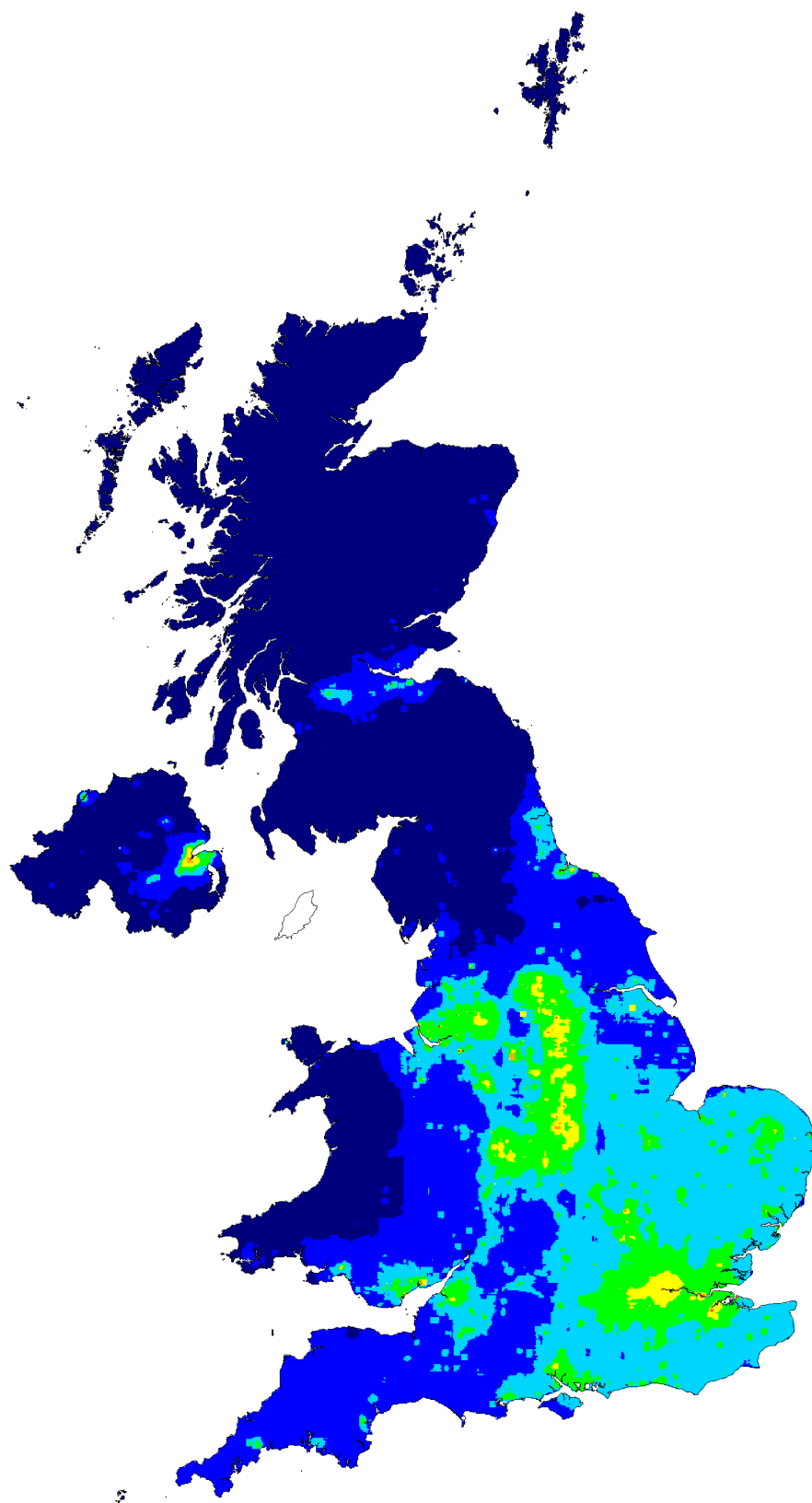
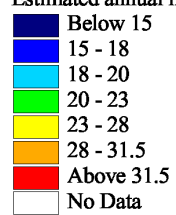
Estimated annual mean background NO₂ concentration, 2005 (ugm-3)



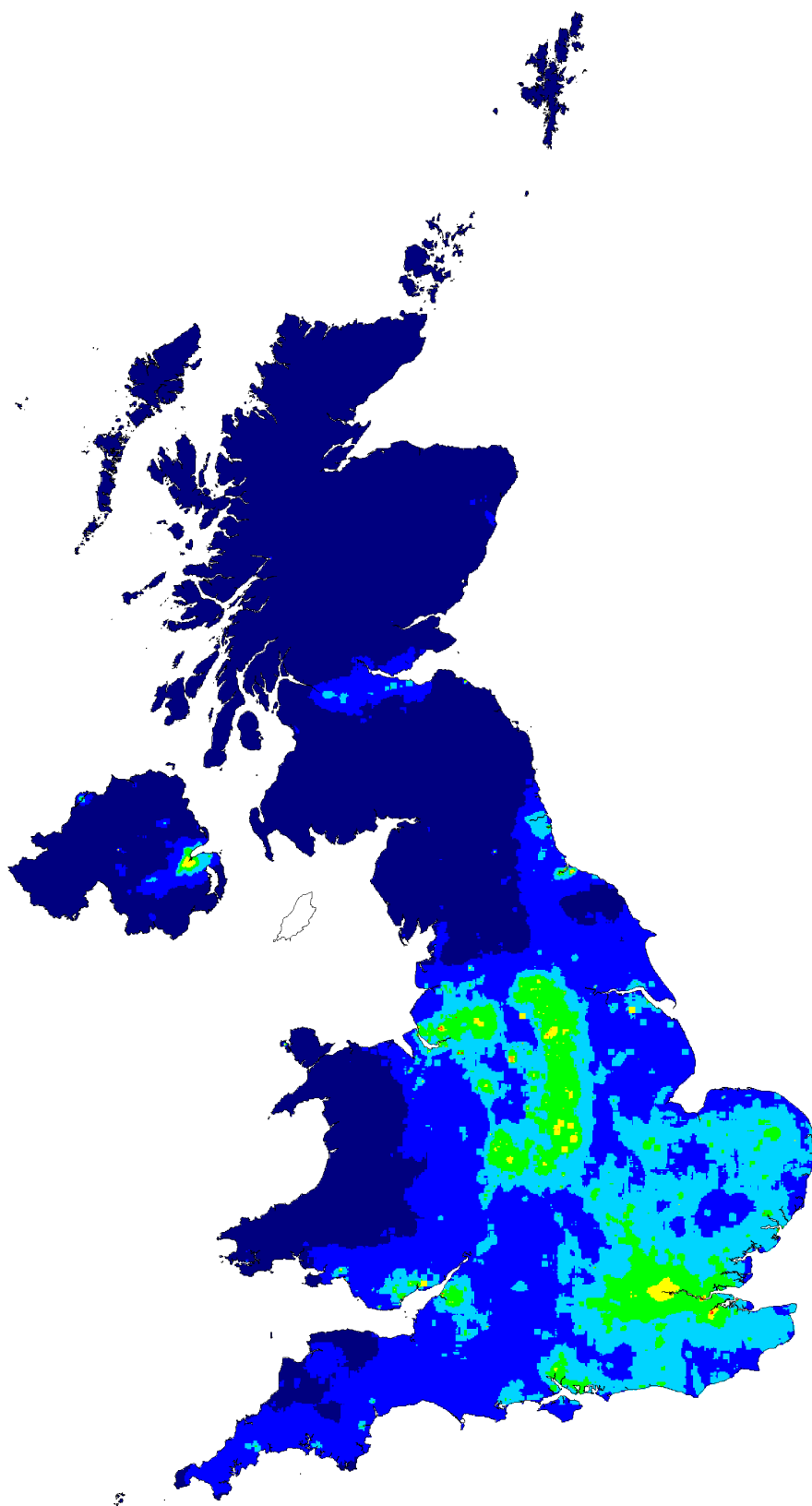
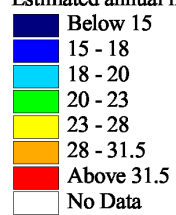
Estimated annual mean background NO₂ concentration, 2010 (ugm-3)



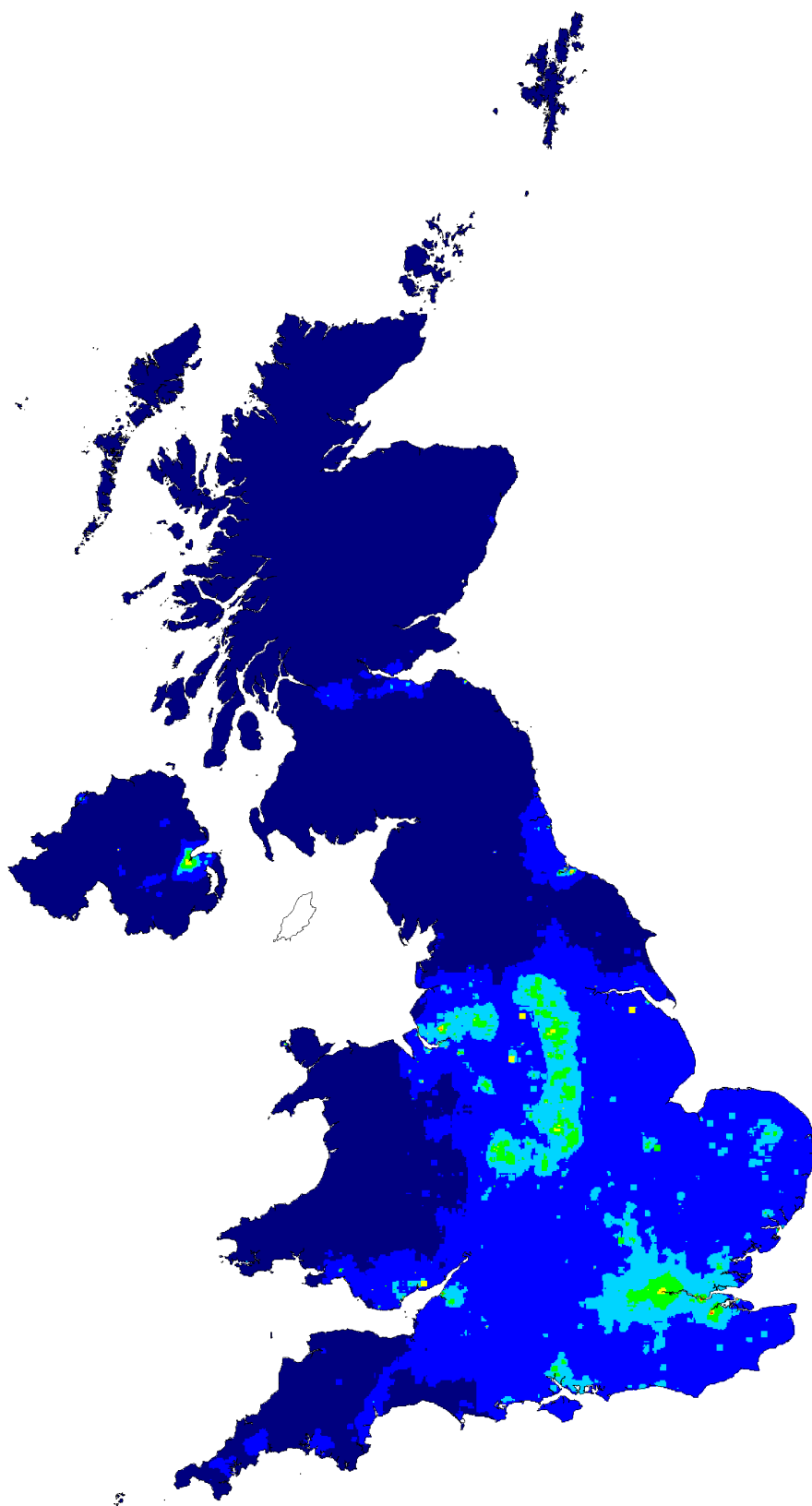
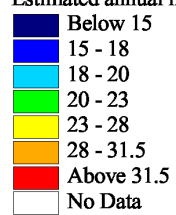
Estimated annual mean background PM10 concentration, 2001 (ugm-3, gravimetric)



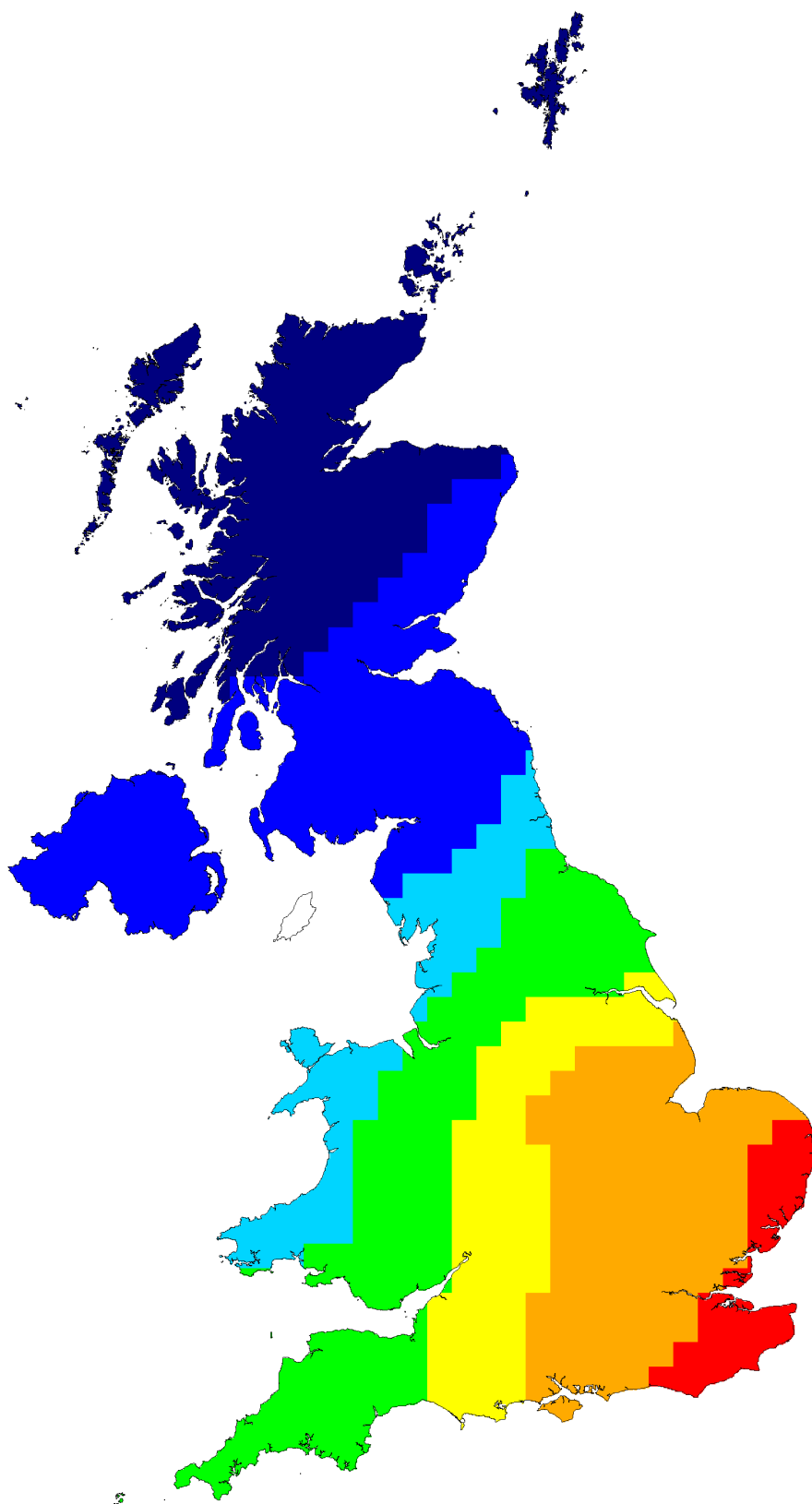
Estimated annual mean background PM10 concentration, 2004 (ugm-3, gravimetric)



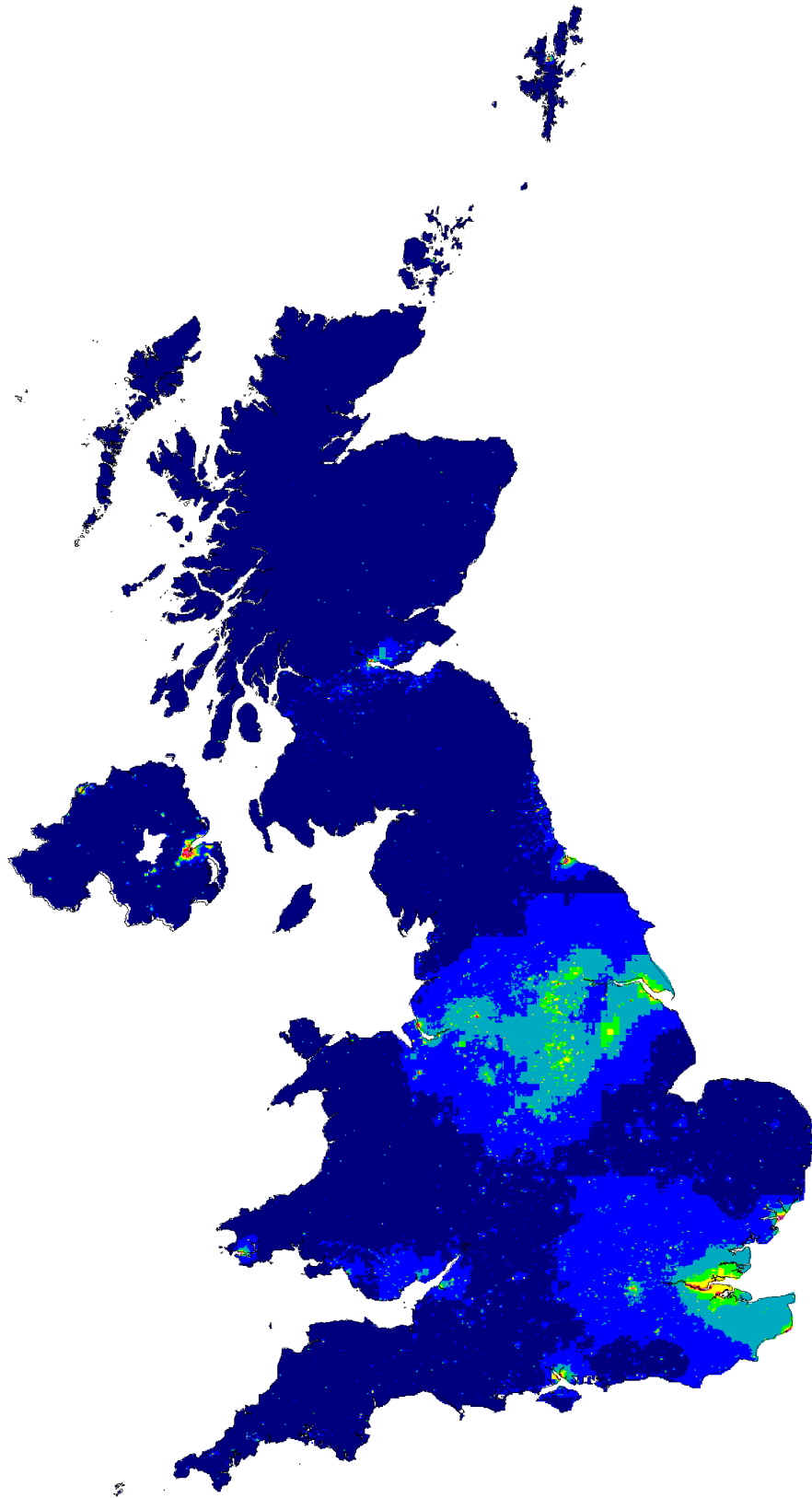
Estimated annual mean background PM10 concentration, 2010 (ugm-3, gravimetric)



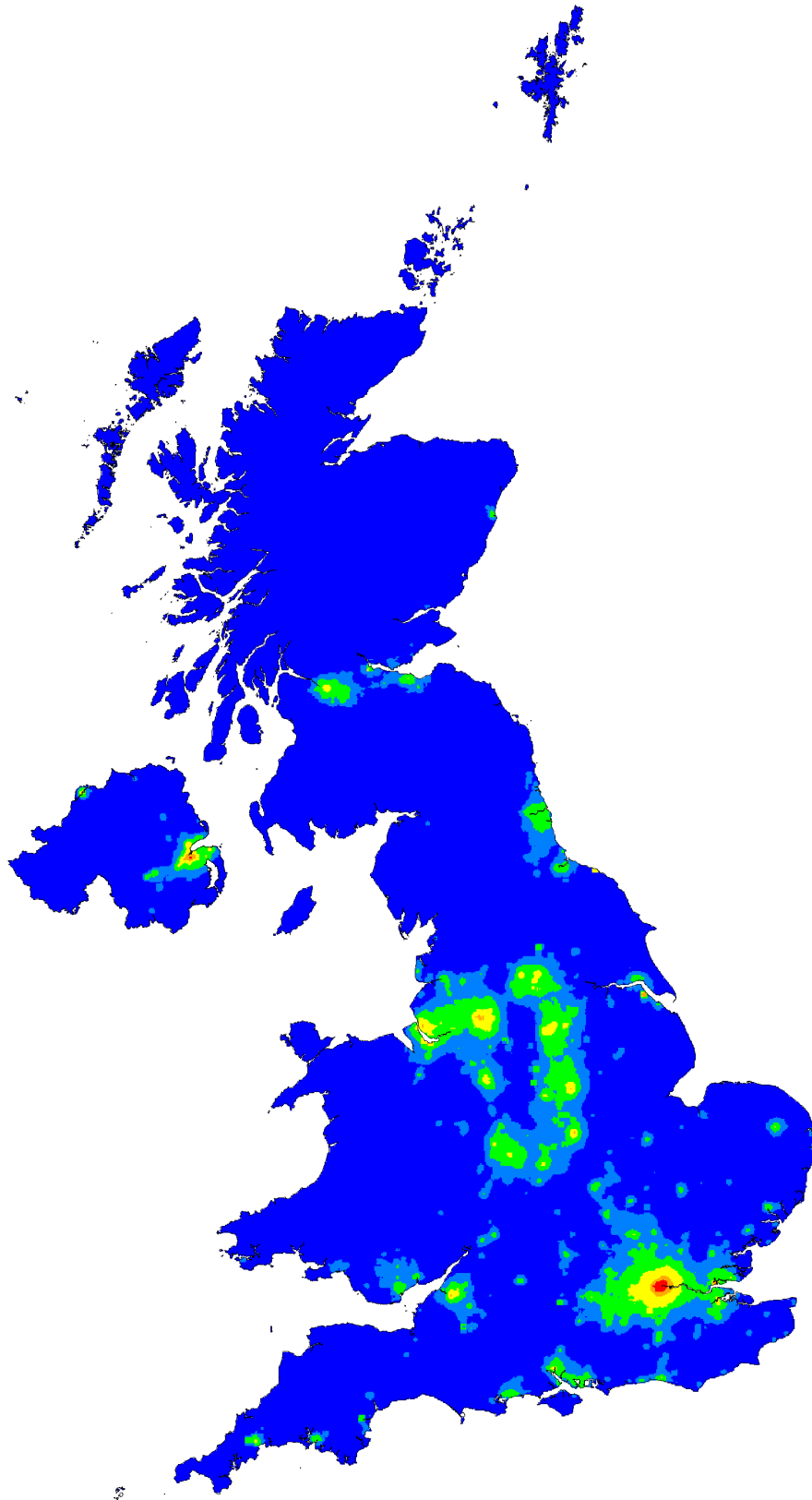
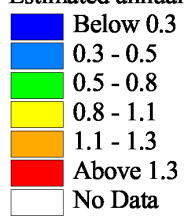
Estimated annual mean secondary PM10 concentration, 2001 ($\mu\text{g m}^{-3}$ gravimetric)



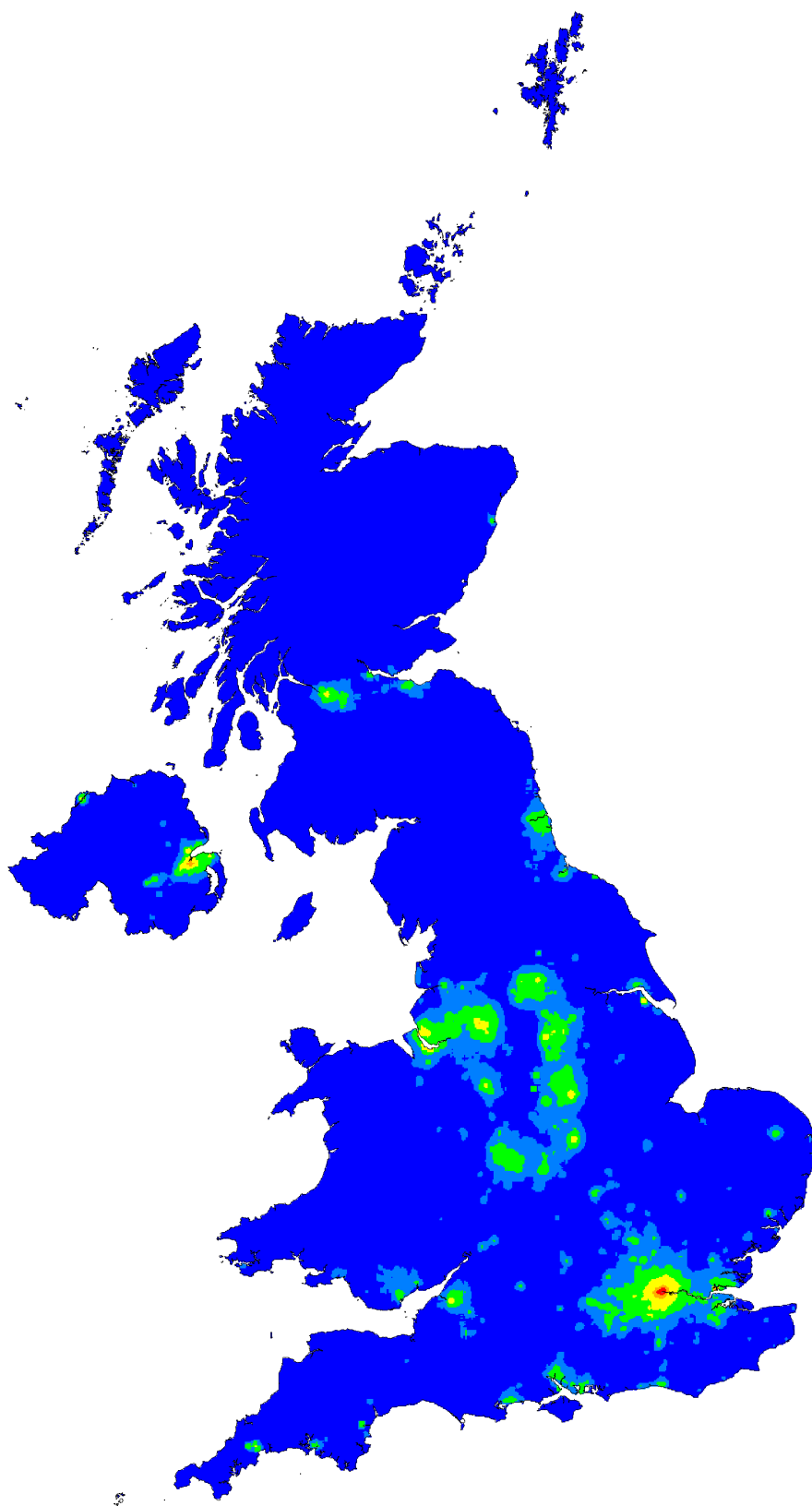
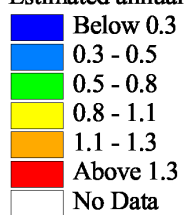
Estimated annual mean background SO₂ concentration, 2001 (ugm-3)



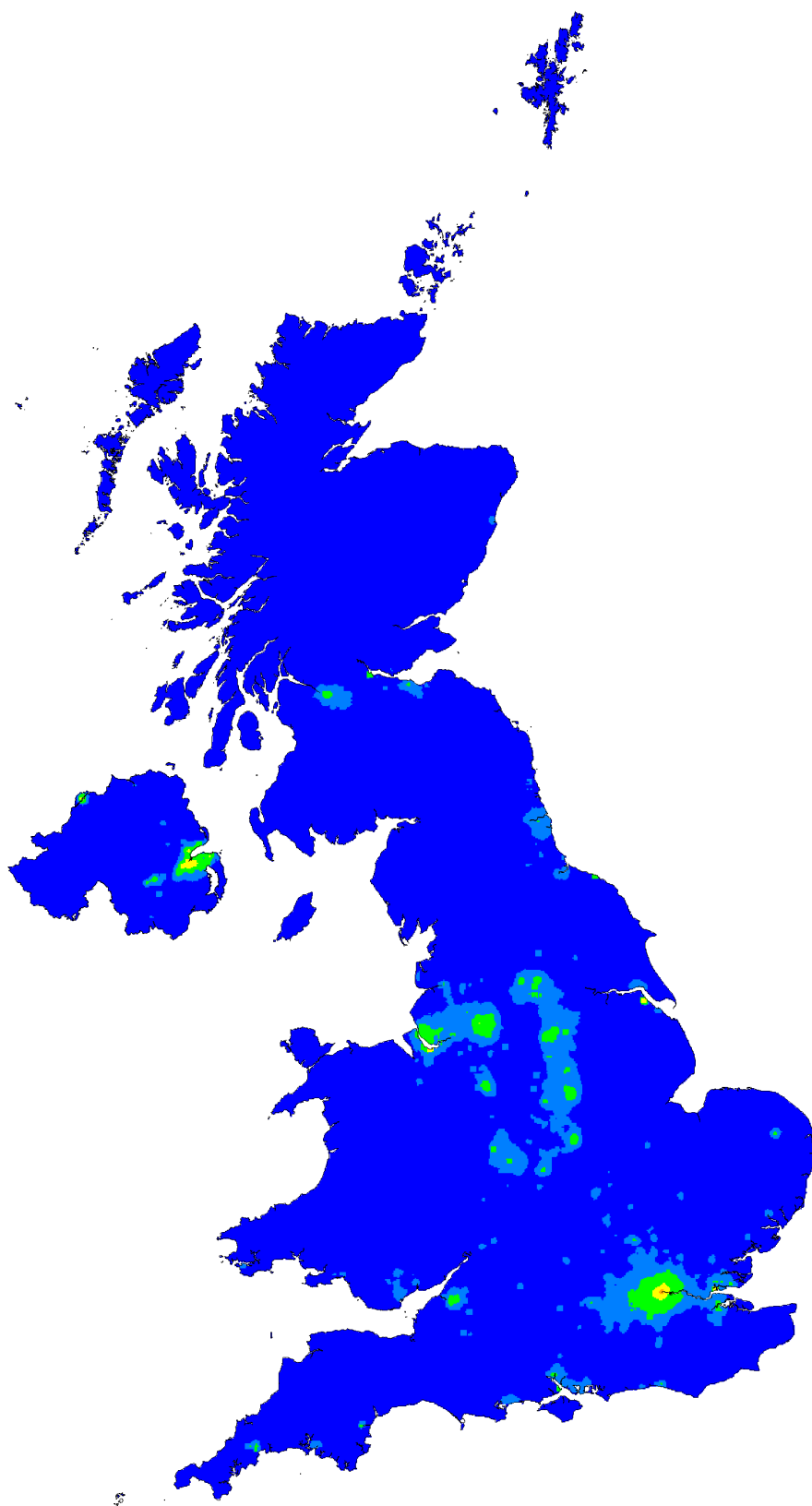
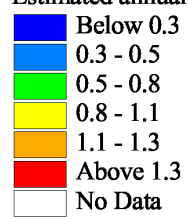
Estimated annual mean background Benzene concentration, 2001 ($\mu\text{g}/\text{m}^3$)



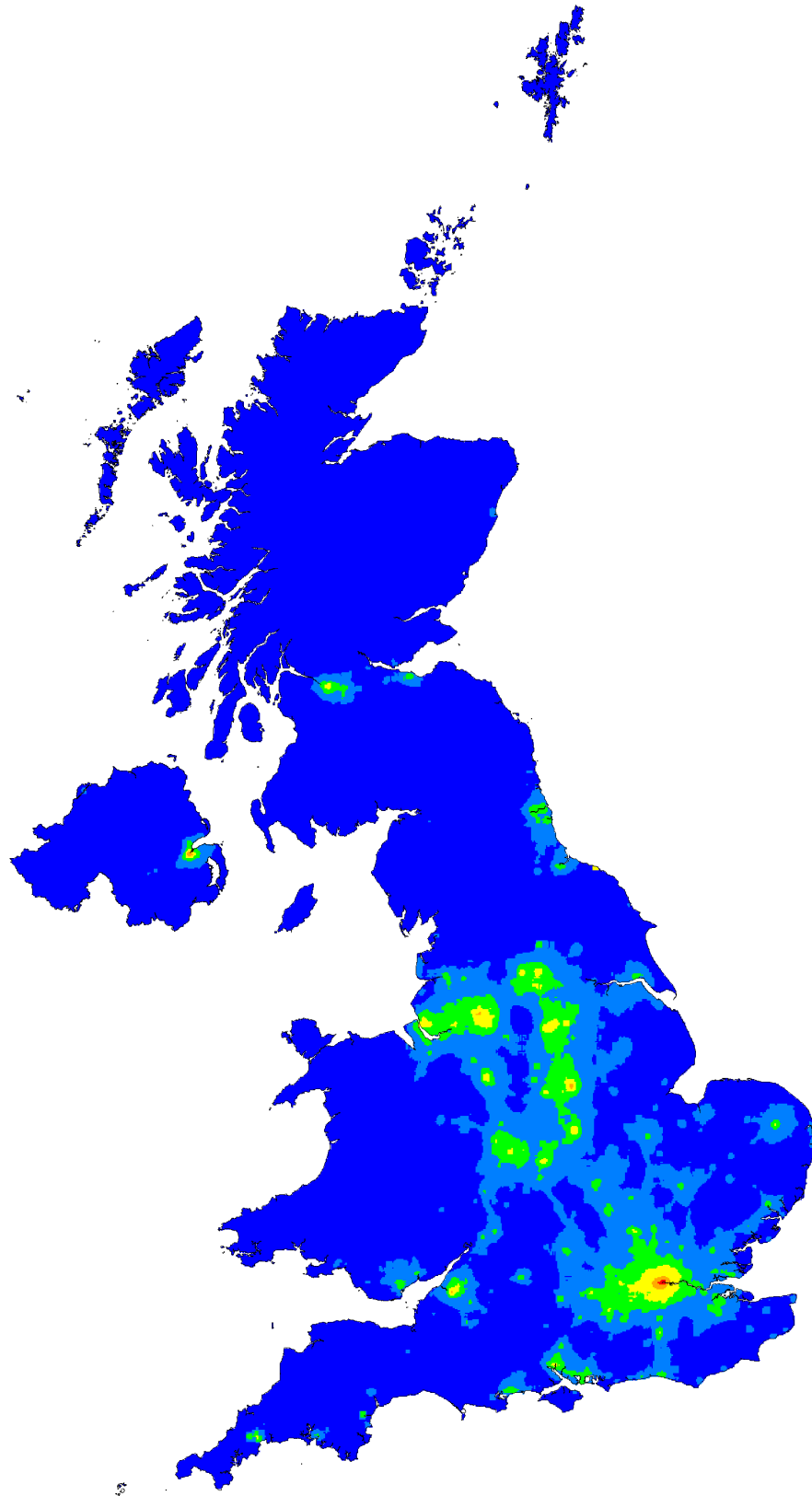
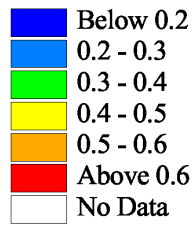
Estimated annual mean background Benzene concentration, 2003 ($\mu\text{g}/\text{m}^3$)



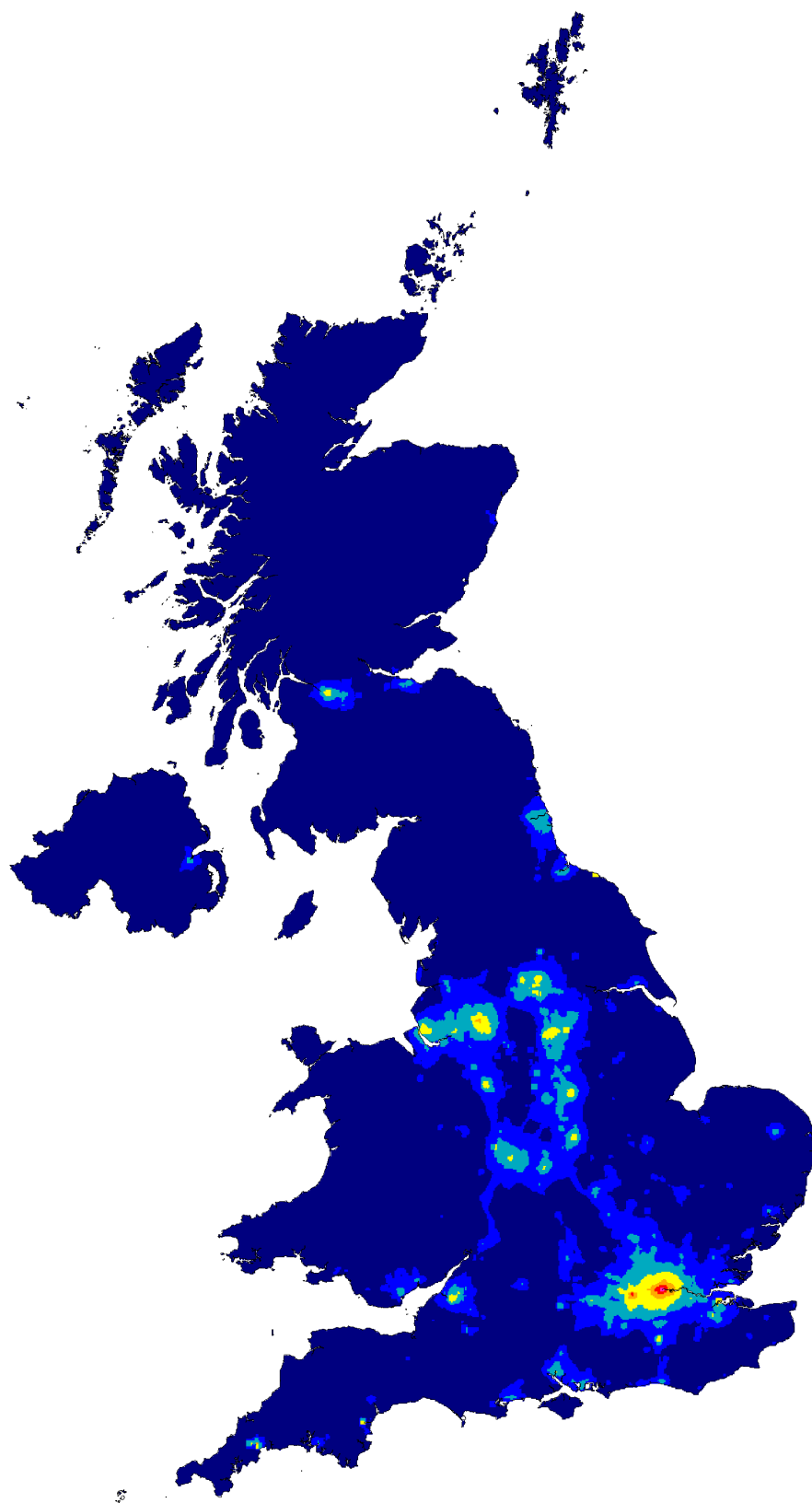
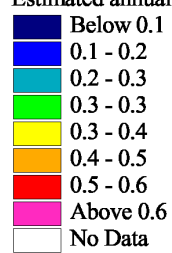
Estimated annual mean background Benzene concentration, 2010 ($\mu\text{g}/\text{m}^3$)



Estimated annual mean background CO concentration, 2001 (mgm-3)



Estimated annual mean background 1,3-butadiene concentration, 2001 (ugm-3)



Estimated annual mean background 1,3-butadiene concentration, 2003 ($\mu\text{g}/\text{m}^3$)

