JRC Dataset

UI - Concentration of PM10 (LUISA Platform REF2014)

Description:
Land Use Regression mode (LUR), were used to simulate PM10 concentrations at very high resolution (100m) built using pollutant concentrations for 2010 from monitoring sites as dependent variable, and several parameters (independent variables) defined within a Geographic Information System (GIS). The LUR model was developed using Random Forest regression techniques (Breiman, 2001) and was used to predict evolution of concentrations of pollutants from 2010 to 2050, according to predicted changes in land use and population density data taken from the LUISA outputs (Baranzelli et al, 2015). The modelling did not consider for the prediction of future concentrations specific measures or policies implemented in order to reduce emissions.

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How to cite:

Keywords:
EU Reference Scenario 2014, FUA, LUISA, LUR models, PM10, Urban indicator, air quality, particulate matter, pollution

Related resources:
Data access
- UI - Concentration of PM10 (FUA)
  The compressed zip file includes the Concentration of PM10, expressed in micrograms cubic meter (µg/m3), for Functional Urban Areas (FUAs), for 2010, 2020, 2030, 2040 and 2050. The data is stored in csv format.

Publications
  DOI:10.2788/737963

Additional information:
Last Modified: 2015-11-20
Issue date: 2015-12-18
Geographic area: European Union
Temporal coverage: From: 2010-01-01 – To: 2050-12-31
Update frequency: None
Language: English
Data theme(s): Economy and finance; Science and technology