CERC

Urban canopy and street canyon data for London

These data accompany the article "Calculation of Urban Morphology Parameterisations for London for use with the ADMS Dispersion Model", published in the *International Journal of Advanced Remote Sensing and GIS*, 2016, Volume 5, Issue 4, pp. 1678-1687.

The full article is available online and gives details of how the data were derived. Note the following additional points:
1. While the article was being published, an updated London Atmospheric Emissions Inventory (LAEI) was released: LAEI 2013. This download includes data for both the LAEI 2013 and the LAEI 2010, although the article itself only describes the LAEI 2010.
2. The OS MasterMap road geometries used as input to derive the advanced street canyon data were optimised for modelling in ADMS-Urban and ADMS-Roads. This optimisation process consisted of a number of procedures, including:

   - automated removal of vertices using the Douglas-Poiker algorithm;
   - manual simplification of small, complex road geometries; and
   - manual removal of vertices from long roads.

   In practical terms, this means that the geometry used does not match the original geometry data, and as a result, the TOID identifiers used to identify the roads are not consistent with the TOIDs of the original MasterMap geometries used.

The data provided in this download can be used and redistributed freely. They are provided in a suitable file format for use with ADMS-Urban and ADMS-Roads version 4.0, and ADMS 5.1. Although every effort has been made to ensure the data are accurate, it is not possible to provide a guarantee or warranty for them.