



What's New in EMIT 2.3?

March 2008

USERS OF ADMS-Urban should note that EMIT 2.3 must be used with ADMS-Urban 2.3.

USERS OF ADMS-Roads should note that EMIT 2.3 must be used with ADMS-Roads 2.3.

This document describes the new features added to EMIT and other model changes, since the release of EMIT 2.2 in January 2006.

New Features

1. There are two new emission factor datasets for road traffic, **P07 SCALED** and **P07 BASE**.
 - These datasets account for reductions in NO_x and PM_{10} due to the anticipated future EURO V and EURO VI standards for cars, LGVs and HGVs. Note that these data are provisional (hence they are prefaced P); the datasets have not been officially released, and the datasets were compiled prior to the final decision about the date of introduction and stringency level of these standards.
 - The route types for these new datasets are based on more recent DfT (Department for Transport) traffic composition forecasts than the route types in EMIT 2.2. The forecasts were made in 2004 rather than 1999.
 - Please refer to Appendix A of the User Guide for full details of the new emission factors and route types.
2. There is an updated emission factor dataset for aircraft engine emissions, **ICAO 15 + Other**. This includes updated turbofan and turbojet factors based on issue 15 of the ICAO databank. It also includes factors for piston engine and turboprop aircraft. Please refer to Appendix B of the User Guide for full details.
3. There is a new emissions factor dataset for airport Ground Support Equipment (GSE), **AIRPORT GSE 2007**. Please refer to Appendix B of the User Guide for full details.
4. Area, CandD and Volume sources can now be convex polygons with from three to fifty sides. This also means that the .csv import file format for these sources has changed. Please refer to Section 6 of the User Guide for details of the new format.

5. EMIT 2.3 is supported on Windows Vista as well as Windows XP and Windows 2000. The EMIT Mapper requires administrator permissions on Windows Vista. See Section 2.1 of the User Guide for details.

Minor Developments

6. If a polygon shape file (*.shp* file) was exported from EMIT 2.2, and ESRI ArcGIS was used to calculate the area of the polygons, the result may have been negative. This has been corrected in EMIT 2.3.
7. The inventory totals calculation is quicker in EMIT 2.3 than EMIT 2.2.
8. EMIT 2.2 may have failed to calculate inventory totals for very large databases. This has been corrected in EMIT 2.3.
9. There was a problem with the EMIT Mapper support for *.jpg* and *.jpeg* files in EMIT 2.2. This has been corrected.
10. EMIT 2.3 has a new menu option **Help\User Guide** that opens the EMIT User Guide *pdf* file directly in Adobe Acrobat Reader.