

Interactive comment on “A robust method for inverse transport modelling of atmospheric emissions using blind outlier detection” by M. Martinez-Camara et al.

This study proposes a new blind outlier detection algorithm TRANSAC to the existing inverse methods. By applying the new algorithm on a real dataset, the new results are compared with existing RANSAC algorithm and demonstrated an improved performance. The results of this study are interesting and significant, and the following concerns should be properly addressed in a revised version.

Line 56 – Need spell out acronyms at first use of FLEXPART.

Line 91 – Need references for experiments in Europe and in USA.

Line 258 – The title of section uses acronyms TRANSAC but is explained in the later section. Meanwhile, section 4.1 uses the same title ‘TRANSAC’ at line 299, which should have more clear descriptions.

Line 311 – The sentence ‘Figure 7(a)...’ should be moved to next paragraph, because the details of the figure are discussed there.

Line 340 – The first two sentences should be merged together like ‘Figure 7(c) shows the results from the examination of ..., including...’

Line 359 – Should have more detailed descriptions and discussions on Figure 9 and Figure 10, or move them into supplements. The sentence ‘Figure 10 gives...’ should be moved to next paragraph because they are more related with those contents.