

## ***Interactive comment on “Probing ETEX-II data set with inverse modelling” by M. Krysta et al.***

**M. Krysta et al.**

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It seems indeed that the serious difficulties that models had in mimicking ETEX-II dispersion have been so far ascribed to modelling deficiency solely. There might obviously be some phenomena present which are not resolved in the meteorological fields. Meteorological situation analysis implies that these would be small scale phenomena leading to localised modelling errors which are, in turn, accounted for in the inverse modelling procedure. No improvement in the measurement consistency test signifies, however, that the real errors are more of a large-scale correlated nature. The large scale errors are, however, excluded from the meteorological situation, with the exception of the passage of the cold front over the release site. The passage of the front takes place towards the end of the release and is unlikely to be responsible for 85% of the tracer missing from the measurements. This casts strong doubts on the quality of the measurements collected in the experiment.

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