

Home

Online Library ACP

- ▣ Recent Final Revised Papers
- ▣ [Volumes and Issues](#)
- ▣ Special Issues
- ▣ Library Search
- ▣ Title and Author Search

Online Library ACPD

Alerts & RSS Feeds

General Information

Submission

Review

Production

Subscription

Comment on a Paper



▣ [Volumes and Issues](#) ▣ [Contents of Issue 24](#)

Atmos. Chem. Phys., 7, 6085-6098, 2007
www.atmos-chem-phys.net/7/6085/2007/

© Author(s) 2007. This work is licensed under a Creative Commons License.

Seeking for the rational basis of the Median Model: the optimal combination of multi-model ensemble results

A. Riccio¹, G. Giunta¹, and S. Galmarini²

¹Dept. of Applied Science, University of Naples "Parthenope", Napoli, Italy

²European Commission – DG Joint Research Centre, Institute for Environment and Sustainability, Ispra, Italy

Abstract. In this paper we present an approach for the statistical analysis of multi-model ensemble results. The models considered here are operational long-range transport and dispersion models, also used for the real-time simulation of pollutant dispersion or the accidental release of radioactive nuclides.

We first introduce the theoretical basis (with its roots sinking into the Bayes theorem) and then apply this approach to the analysis of model results obtained during the ETEX-1 exercise. We recover some interesting results, supporting the heuristic approach called "median model", originally introduced in Galmarini et al. (2004a, b).

This approach also provides a way to systematically reduce (and quantify) model uncertainties, thus supporting the decision-making process and/or regulatory-purpose activities in a very effective manner.

▣ [Final Revised Paper](#) (PDF, 1915 KB) ▣ [Discussion Paper](#) (ACPD)

Citation: Riccio, A., Giunta, G., and Galmarini, S.: Seeking for the rational basis of the Median Model: the optimal combination of multi-model ensemble results, Atmos. Chem. Phys., 7, 6085-6098, 2007. ▣ [Bibtex](#) ▣ [EndNote](#) ▣ [Reference Manager](#)



Search ACP

Library Search ▶▶

Author Search ▶▶

News

- ▣ [Sister Journals AMT & GMD](#)
- ▣ [Financial Support for Authors](#)
- ▣ [Journal Impact Factor](#)
- ▣ [Public Relations & Background Information](#)

Recent Papers

01 | ACP, 23 Dec 2008: Measurement of glyoxal using an incoherent broadband cavity enhanced absorption spectrometer

02 | ACPD, 23 Dec 2008: Single particle characterization using a light scattering module coupled to a time-of-flight aerosol mass spectrometer

03 | ACP, 23 Dec 2008: Corrigendum to "Modeling the effect of plume-rise on the transport of carbon