

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

Impact  
Factor  
4.927

ISI  
indexed



▣ [Volumes and Issues](#) ▣ [Contents of Issue 21](#)

Atmos. Chem. Phys., 9, 8309-8316, 2009

[www.atmos-chem-phys.net/9/8309/2009/](http://www.atmos-chem-phys.net/9/8309/2009/)

© Author(s) 2009. This work is distributed under the Creative Commons Attribution 3.0 License.

## Nitric acid and particulate matter measurements at Athens, Greece, in connection with corrosion studies

C. Tzani<sup>1</sup>, C. Varotsos<sup>1</sup>, M. Ferm<sup>2</sup>, J. Christodoulakis<sup>1</sup>, M. N. Assimakopoulos<sup>1</sup>, and C. Efthymiou<sup>1</sup>

<sup>1</sup>Department of Applied Physics, University of Athens, University Campus Bldg. Phys. V, Athens 15784, Greece

<sup>2</sup>Swedish Environmental Research Institute Ltd. (IVL) P.O. Box 5302, 400 14 Gothenburg, Sweden

**Abstract.** For a long time, scientists have been concerned about the effects of air pollution on materials and especially on the monuments of the cultural heritage. The EU funded a project, entitled MULTI-ASSESS, to determine these effects and to develop dose-response functions appropriate for the new multi-pollutant environment. The University of Athens participated in this effort as a targeted field exposure test site. In the present paper, the measurements of the passive samplers, which were exposed during the same period with the samples for corrosion studies, at the Athens station, are presented. The results have shown that only 16.5% of the deposited mass was water soluble. The vertical distribution of passive particle collectors has led to the conclusion that the height of maximum deposition of each ion is different. In addition, a variation of the water-soluble mass to total deposited mass between 8% and 31% was observed.

▣ [Final Revised Paper](#) (PDF, 1027 KB) ▣ [Discussion Paper](#) (ACPD)

Citation: Tzani, C., Varotsos, C., Ferm, M., Christodoulakis, J., Assimakopoulos, M. N., and Efthymiou, C.: Nitric acid and particulate matter measurements at Athens, Greece, in connection with corrosion studies, Atmos. Chem. Phys., 9, 8309-8316, 2009. ▣ [Bibtex](#) ▣ [EndNote](#) ▣ [Reference Manager](#)



Search ACP

Library Search

Author Search

News

- ▣ [Sister Journals AMT & GMD](#)
- ▣ [Public Relations & Background Information](#)

Recent Papers

01 | ACPD, 19 Nov 2009: Tropospheric photooxidation of CF<sub>3</sub>CH<sub>2</sub>CHO and CF<sub>3</sub>(CH<sub>2</sub>)<sub>2</sub>CHO initiated by Cl atoms and OH radicals

02 | ACP, 19 Nov 2009: Regional N<sub>2</sub>O fluxes in Amazonia derived from aircraft vertical profiles

03 | ACP, 19 Nov 2009: Application of φ-IASI to IASI: retrieval products evaluation and radiative transfer consistency

04 | ACPD, 18 Nov 2009: