

Home

Online Library

Recent Papers

Volumes

Library Search

Title and Author Search

RSS Feeds

General Information

Submission

Review

Production

Subscription

Journal Metrics

 not applicable

 SCOPUS[®] SNIP 0.287

 SCOPUS[®] SJR 0.054

Definitions 

ARCHIVED IN



Adv. Geosci., 26, 71-76, 2010
www.adv-geosci.net/26/71/2010/
doi: 10.5194/adgeo-26-71-2010

© Author(s) 2010. This work is distributed
under the Creative Commons Attribution 3.0 License.

 Volumes  Contents of Volume 26

Bayesian trend analysis for daily rainfall series of Barcelona

M. I. Ortego¹, J. Gibergans-Báguena¹, R. Tolosana-Delgado²,
J. J. Egoscue¹, and M. C. Llasat³

¹Universitat Politècnica de Catalunya, Departament de Matemàtica Aplicada III,
Barcelona, Spain

²Universitat Politècnica de Catalunya, Laboratori d'Enginyeria Marítima, Barcelona,
Spain

³Universitat de Barcelona, Departament d'Astronomia i Meteorologia, Barcelona,
Spain

Abstract. A Point-Over-Threshold approach using a reparameterization of the Generalized Pareto Distribution (GPD) has been used to assess changes in the daily rainfall Barcelona series (1854–2006). A Bayesian approach, considering the suitable scale and physical features of the phenomenon, has been used to look for these alterations. Two different models have been assessed: existence of abrupt changes in the new GPD parameters due to modifications of the observatory locations and trends in these GPD parameters, pointing to a climate change scenario.

 [Full Article in PDF \(PDF, 763 KB\)](#)

Citation: Ortego, M. I., Gibergans-Báguena, J., Tolosana-Delgado, R., Egoscue, J. J., and Llasat, M. C.: Bayesian trend analysis for daily rainfall series of Barcelona, Adv. Geosci., 26, 71-76, doi: 10.5194/adgeo-26-71-2010, 2010.  [Bibtex](#)  [EndNote](#)  [Reference Manager](#)  [XML](#)

 **Copernicus Publications**
The Innovative Open Access Publisher

Search ADGEO

Full Text Search 

Title Search 

Author Search 

News

 Please Note: Updated Reference Guidelines

Recent Papers

01 | ADGEO, 22 Nov 2010:
Tropopause and jetlet characteristics in relation to thunderstorm development over Cyprus

02 | ADGEO, 22 Nov 2010:
Probabilistic prediction of raw and BMA calibrated AEMET-SREPS: the 24 of January 2009 extreme wind event in Catalonia

03 | ADGEO, 15 Nov 2010:
Investigation of trends in synoptic patterns over Europe with artificial neural networks