# | EGU.eu |

## Home

# Online Library

- Recent Papers
- Volumes
- Library Search
- Title and Author Search

## RSS Feeds

General Information

Submission

Review

#### Production

Subscription



Adv. Geosci., 7, 55-63, 2006 www.adv-geosci.net/7/55/2006/ © Author(s) 2006. This work is licensed under a Creative Commons License.

Predictability of prototype flash flood events in the Western Mediterranean under uncertainties of the precursor upper-level disturbance

Volumes Contents of Volume 7

R. Romero, A. Martín, V. Homar, S. Alonso, and C. Ramis Meteorology Group, Departament de Física, Universitat de les Illes Balears, Palma de Mallorca, Spain

Abstract. The HYDROPTIMET case studies 9-10/06/2000 Catalogne, 8-9/09/2002 Cévennes and 24-26/11/2002 Piémont encompass prototype flash-flood situations in the western Mediterranean, attending to the relevant synoptic and mesoscale signatures identified on the meteorological charts. A prominent mid-tropospheric trough or cut-off low can be identified in all events prior and during the period of heavy rains, which clearly served as the precursor agent for the onset of the flash-flood conditions and the cyclogenesis at low levels. Being aware of the uncertainty in the representation of the upper-level disturbance and the necessity to cope with it within the operational context when attempting to issue short to mid-range numerical weather predictions of these high impact weather events, a systematic exploration of the predictability of the three selected case studies, subject to uncertainties in the representation of the upper-level precursor disturbance, is carried out in this paper by means of numerical simulations.

Full Article in PDF (PDF, 2843 KB)

Citation: Romero, R., Martín, A., Homar, V., Alonso, S., and Ramis, C.: Predictability of prototype flash flood events in the Western Mediterranean under uncertainties of the precursor upper-level disturbance, Adv. Geosci., 7, 55-63, 2006. Bibtex EndNote Reference Manager

### | EGU Journals | Contact |

Copernicus Publications

# Search ADGEO

Library Search	₩
Author Search	₩

#### News

New Tax Regulation for Service Charges

#### Recent Papers

01 | ADGEO, 27 Jan 2010: Recent variation of the Las Vacas Glacier Mt. Aconcagua region, Central Andes, Argentina, based on ASTER stereoscopic images

02 | ADGEO, 17 Dec 2009: First insights on Lake General Carrera/Buenos Aires/Chelenko water balance

03 | ADGEO, 17 Dec 2009: A Terrestrial Reference Frame (TRF), coordinates and velocities for South American stations: contributions to Central Andes geodynamics