

Home

Online Library

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

RSS Feeds

General Information

Submission

Review

Production

Subscription



Volumes Contents of Volume 7

Adv. Geosci., 7, 279-284, 2006
www.adv-geosci.net/7/279/2006/
© Author(s) 2006. This work is licensed
under a Creative Commons License.

Partitioning of snowy and rainy precipitation in a case of a north Adriatic frontal passage

M. Monai, A. M. Rossa, and A. C. Bonan
Meteorological Center of Teolo, ARPA Veneto, Italy

Abstract. A case of snow fall in the plains of the Northern Italian region Veneto is presented from a forecasters' perspective. Contrasting forecast guidance came from the ECMWF global model and the limited area model LAMI. The former showed a marked warm-moist Sirocco flow coming from the Adriatic Sea onto the coast at all levels, the latter discerned a distinct cold air flow from the north-east along the foothills of the Alps. The integrated observing network of the Centro Meteorologico di Teolo ARPA Veneto revealed this cold-air structure and helped the forecaster in the choice of the forecast and underpin the snowfall alert to the road authorities. It is argued that this feature is a crucial element for the occurrence of snowfall over the Veneto plains, and that the high-resolution numerical weather prediction model was essential in describing this mesoscale feature. The nature of the north-easterly flow is thought to be a combination of a Bora like flow and a barrier jet induced by flow blocking by the Alps.

Full Article in PDF (PDF, 6291 KB)

Citation: Monai, M., Rossa, A. M., and Bonan, A. C.: Partitioning of snowy and rainy precipitation in a case of a north Adriatic frontal passage, Adv. Geosci., 7, 279-284, 2006. [Bibtex](#) [EndNote](#) [Reference Manager](#)



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/Chelénko water balance

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