EMS Annual Meeting Abstracts
Vol. 8, EMS2011-565, 2011
11th EMS / 10th ECAM


Forecasting the weather
- ensemble techniques
in probabilistic weather prediction

# Forecast evaluation and verification of some heavy snowfall cases, and relationship about snow cover and zero thermal trend in the last 15 winter seasons (1996-2011) over Carnic and Julian Alps.

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OSMER, Regional Meteorological Observatory and the Avalanches Office are operational specialized structure to provide monitoring and weather forecasting and avalanches forecasting over mountain sector of the Friuli Venezia Giulia land, in the North-east Italy, with 1.200.000 people.
The expertise of OSMER are: management of networks of meteorological stations and radar (building, maintenance and data elaboration validation and storing), research and development in meteorology and climatology, regional and sub-regional accurate weather forecasting and all informatics support.
Since 1990, OSMER has implemented an integrated system of meteorological observation and investigation over a pattern of meteorological phenomena, some of which are quite typical of this area, as heavy snowfalls over Carnic and Julian Alps.
Acquired observation, knowledge and experience, in conjunction to the availability of the outputs of Numerical Weather Prediction products (as ECMWF, DWD, ALADIN, AVN, ...), allow to issue accurate local weather forecasts.
With this job we mean to make a evaluation and a forecast verification on some case of heavy snowfalls, examining the NWP products, the radar maps, the radio-sounding measurements and analysis, the snow measurements, with the goal to research the relation-ship among some model-derived predictors and the experience of forecasters supported by the knowledge of the morphology of this sector of the Alps and his typical effects.
Jointly we present the relationship about snow cover and zero thermal trend in the last 15 winter season over Carnic and Julian Alps with the intention to create a tool of information that can be used for planning future investigations for ski-resources.