

Meteorology workshops in summer school: the euskalmet meteorologist experience with teachers.

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During 2007 and 2008 summer, a workshop on meteorology and climatology was held in the Basque Country University summer school. The workshop is mainly aimed at teachers and includes classroom instruction, practical exercises, hand-on activities, and field trips. Part of these activities are based on direct participation of Basque Country Agency experts. Our main objective is that teachers can learn the basics of weather science, how to interpret weather maps, how to access weather data and how to apply this information in their classes.

In this work we focus on the preparation of material for various topics, including conceptual and experimental contents and the different resources used for meteorological concepts adaptation to the required level. Lessons are prepared with many practical examples and scientific curiosities for each key concept. In those lessons, weather information from automatic weather stations, satellite, radar, numerical models and other sources are used. Specific material, for real time and historical case studies, is used based on internet capabilities and a CD prepared for this purpose. Some simple and low-cost experiments are also used, for fixing important concepts.

We present material used for theory, experiments and exercises, of different topics like instrumentation, meteorological variables, basic principles, meteorological scales, numerical models, weather maps interpretation and climatic concepts. Finally we present some conclusions of our experiences in the material elaboration, giving lessons, and feedback with teachers during workshops.