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A preliminary mesoscale analysis system for the Basque Country: Description and some results

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In order to achieve real time and past analyses with high spatial and temporal resolution a mesoescale analysis system is being developed in the Basque Meteorology Agency (EUSKALMET). The system consists on a data assimilation module and several routines that achieve decode and write the data in the proper format to be used in the analysis system. Analysed and forecasted data is downscaled to the area of interest to be used as background information. These datasets come from synoptic models. The system works with several observational datasets from different sources: surface measurements (SYNOP, Buoy, METAR and automatic weather stations) and upper air measurements (RAOB, wind profiler).