Geophysical Research Abstracts, Vol. 8, 09988, 2006
SRef-ID: 1607-7962/gra/EGU06-A-09988

Classification of errors in high-resolution weather forecasts

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Errors from high-resolution numerical weather forecasts by the MM5 model over Iceland are investigated. There are basically two types of errors: errors that are advected into the domain by wrong boundary conditions and errors that are associated with non-resolved orography and boundary-layer processes over land such as low-level inversions. A further classification of the errors is attempted, including classification by type of synoptic-scale flow. There are important errors that are due to a moderate shift of weather systems in time and/or space.