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**Lezaun, Mikel**

**What's the weather going to be like? (?Qué tiempo va a hacer?)**

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Summary: What's the weather going to be like? Ever since the most ancient times, people have tried to predict the weather so as to protect themselves from its inclemencies or make the most of its beneficial effects. Super-computers are now used in forecasting: they need to be provided with enormous numbers of measurements, many laws of mechanics and physics and a great deal of mathematics, some of it very recent. This article presents a historical introduction to meteorology, covering the basic principles of numerical weather forecasting used by various meteorological services. The article ends with an analysis of how far in advance the weather can be predicted, and looks at climate predictions.

*Classification:* M50

*Keywords:* history of meteorology; numerical weather forecasting