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**The equations of the atmosphere: mathematics and meteorology. (Le equazioni dell'atmosfera: matematica e meteorologia.)**

Boll. Docenti Mat., No. 58, 53-60 (2009).

Summary: In this paper we propose and briefly discuss some mathematical aspects of meteorology and weather forecasts: the role of the main equations governing atmosphere and the difficulties to solve them.

*Classification:* M50 I70

*Keywords:* mathematical modelling; partial differential equations; meteorology; weather forecasts