



## **The Summertime Boundary Layer at Kohnen Station on the High Antarctic Plateau**

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We present observations from the atmospheric boundary layer (ABL) experiment EN-ABLE performed at Kohnen station (75.0 S, 0.0 W, 2892 m above sea level) in January and February 2002. The observations show some typical aspects of the ABL over the slightly sloped Antarctic Plateau, such as the extreme values of the surface energy fluxes, the small vertical extent of the ABL, and the occurrence of a low-level jet. We used the observational data to validate a 1-D model of the ABL, which allowed us to study the ABL in larger detail. One of the most striking findings from the model results is that the low-level jet over the Antarctic Plateau is not necessarily the result of katabatic forcing. Also, we discuss the variability of the ABL over the Antarctic Plateau in relation to changes in for instance the local slope direction, the surface albedo and the large-scale wind speed.