



## **Comparison of air temperature different method observation within the atmospheric surface layer**

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Comparison of air temperature observations are considered for two levels above ground: at 5 cm and 2 m for Zagreb-Maksimir Observatory (Croatia). At the first level, air temperature is measured by electronic sensors on different two ways: with a small no-conventional plastic shelter as well without any shelter. Night-time minimum temperature is measured by glass thermometer without any shelter. At the second level, air temperature is measured on three ways: two of them inside conventional wooden cupboard (called as Stevenson screen) and one outside of this screen. Electronic sensor and glass thermometer are used within the Stevenson screen and sheltered electronic sensor only outside of the screen. Differences between air temperature obtained by different method observations have been calculated for two year period (2004-2005). A dependence of these differences on weather conditions have been