



Wind speed homogeneity study for Zagreb Maksimir Observatory

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Annual average effective roughness parameters for sub-urban Zagreb – Maksimir Observatory have been calculated using wind gust data at 10 m height for the period 1961-2010. The results indicate some trends in effective roughness parameter depending on wind direction. The strongest trend appears for direction the most intensive city development. Thus, a dynamic of city growing can be discovered by wind gust observation. These data can become an additional meta information about changing weather station environment few kilometers around weather station. Such information can be also used for better interpretation of possible inhomogeneity other weather parameters as e.g. air temperature.