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INTERACTIONS AMONG CLIMATE, VEGETATION AND SOILS IN RADUCANENI – IASI AREA

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Abstract

Soil is an upper shell of the Earth (Pedosphere), whose properties are different as a function of its composition and evolution due to the long time (geologic time) dynamic interactions among the atmosphere, biosphere, lithosphere and hydrosphere. The territory of Răducăneni area, having a surface of 7958, consists of massive hills, wide ridges, narrow inter-fluves, fluvial terraces bordered at the east by the wide plain of the Prut and Jijia Rivers.

With altitudes varying between 28 m and 415 m, different microclimates and very diverse flora both herbaceous and woody, the land fund of this area comprises many types of more or less evolved soil. The studied issues allow one to frame the area as a forest steppe one having the aridity index of 26.8 and a continental temperate climate according to Koppen Dfbx formula.

Since 2003, Romania implemented a new classification of land uses RSST (Romanian System of Soil Taxonomy). This study could be an important step towards the classification of these soils within in the new classification RSST system.

Key words: index, interdependence, pedogenesis, steppe vegetation

Received: December, 2010; Revised final: February, 2011; Accepted: March, 2011

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