

ADAPTATION LARGE-SCALE MAPS OF SOILS TO THEIR PRACTICAL USE IN GIS

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Were shown features created mapping materials under Public cadastral map of Ukraine and especially their use. It is shown that in the present circumstances, the urgently needed round of large-scale soil survey of soil Ukraine and should conduct preparatory work on adapting existing large-scale soil maps for their practical use. This will be done with the assistance of GIS, digital elevation models, methods of forecasting groundwater situation and so on. The emphasis is on the lack of methodological basis for a set of modern technological solutions developed in various areas (soil science, cadastre, land, etc.), including the lack of digital elevation models. It was accented attention on the problems that accompany the technological process of their creation. Was proposed approach, which will create a modern soils GIS with the most adapted data set, easy to use, scalable and dynamically supplemented. Established GIS with minimal alterations can be integrated into the national geospatial data infrastructure and develop within it. Was draw attention to the use of free open source software that is distributed free under the GNU GPL.

Keywords: *large-scale soil map, digital elevation models (DEM), geoinformation system (GIS), coordinate system, predictive soil mapping, multinomial logistic regression, GRASS GIS*

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АДАПТАЦИЯ КРУПНОМАСШТАБНЫХ ПОЧВЕННЫХ КАРТ К ПРАКТИЧЕСКОМУ ИСПОЛЬЗОВАНИЮ В ГИС

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Раскрыты особенности созданных в рамках Публичной кадастровой карты Украины (ПККУ) агропочвенных картографических материалов и пути их использования. Показано, что в современных условиях перед крайне необходимым туром крупномасштабного обследования почв Украины следует провести подготовительную работу по адаптации существующих крупномасштабных карт почв к их практическому использованию с привлечением геоинформационных технологий, цифровых моделей рельефа, методик прогноза почвенной ситуации и т.п. Акцентировано внимание на отсутствии методической основы для целого ряда современных технологических решений, разрабатываемых в различных сферах (почвоведение, кадастр, землеустройство и пр.), т.е. крупномасштабных цифровых моделей рельефа. Заострено внимание на проблемах, сопровождающих технологический процесс их создания. Предложен подход, позволяющий создать современную почвенную ГИС с максимально адаптированным набором данных, удобным в использовании, масштабируемым и динамично дополняемым. Созданная ГИС с минимальными перестроениями может быть интегрирована в национальную инфраструктуру пространственных данных. Обращается внимание на возможность использования бесплатного свободного программного обеспечения, распространяемого под Свободной общественной лицензией GNU GPL.

Ключевые слова: крупномасштабная карта почв, цифровая модель рельефа (ЦМР), геоинформационная система (ГИС), система координат, прогнозная карта почв, мультиномиальная логистическая регрессия, GRASS GIS.