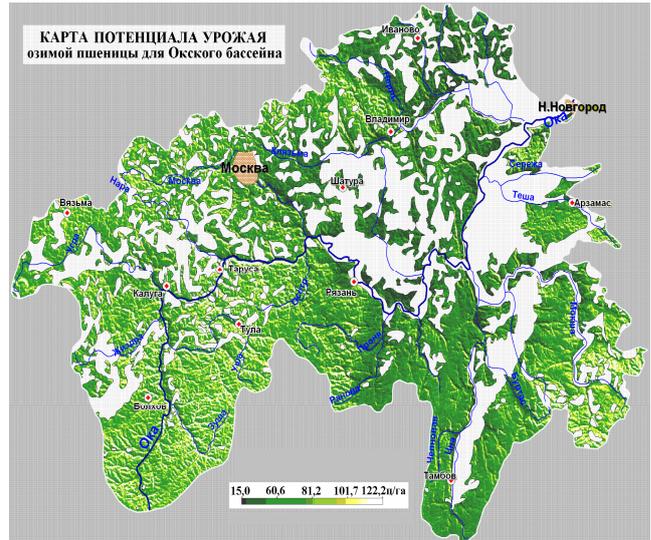
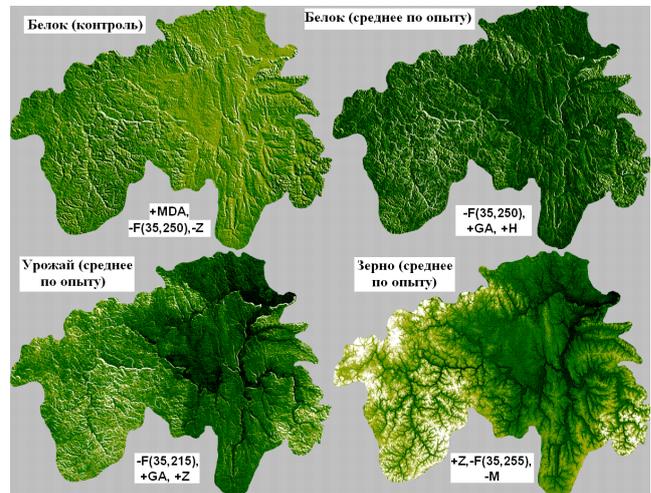


($P < 10^{-3}$).

0	*	A_0	-
1		GA	
2		kh	
3		MCA	1-
4**		MDA	
5		kv	2-
6**		E	1- 2-
7**		KA	
8**		KR	
9**		khe	
10**		kve	
11**		rot	
12**		M	
13**		H	« » ()
14**		$kmax$	***
15**		$kmin$	
16**		K	
17**		F	
18		Z	
*			
**			



1.



2.

1. ... , 1997. - 240 . 2. ... // ... , 1989. - .3-4. - .44-48. 3. ... / ... , 2004. - 46 . 4. ... « » // ... , 2008. - N.3. - .35-38. 5. ... / ... , 1985. - 42-45 1985. 6. ... (...): ... , 1994. - 57 . 7. Lees B.G., Van Niel K.P., Laffan S.W. Predictive vegetation mapping and DEM error / International Symposium on Terrain Analysis and Digital Terrain Mapping (TADTM 2006), held November 23-25, 2006, in Nanjing, China. Proceedings of TADTM 2006. - P.42-45. 8. MacMillan R.A., Torregrosa A., Moon D., Coupe R., Philips N. Automated predictive mapping of ecological entities / Hengl T., Reuter H.I. (editors). Geomorphometry: Concepts, Software, Applications. Developments in Soil Science, Volume 33. - Amsterdam etc.: Elsevier, 2009. - Chapter 24. - P.551-578. 9. McBratney A.B., Odeh I.O.A., Bishop T.F.A., Dunbar M.S., Shatar T.M. An overview of pedometric techniques

« [10], » (predictive mapping) [7] [8].

[9].

for use in soil survey // Geoderma, 2000. - V.97. - N.3-4. - P.293-327. 10. Scull P., Franklin J., Chadwick O.A., McArthur D. Predictive soil mapping: a review // Progress in Physical Geography, 2003. - V.27. - N.2. - P.171-197. 11. Shary P.A., Sharaya L.S., Mitusov A.V. Fundamental

quantitative methods of land surface analysis // Geoderma, 2002. - V.107. - N.1-2. - P.1-32. 12. Shary P.A. Geomorphometry. 2006. - Website <http://www.giseco.info/>

Case Studies in Predicting Features of Winter Wheat for Agrolandscapes of the Oka River Basin Using Methods of Geomorphometry

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Summary. *An extended system of quantitative topographic attributes is applied to calculate the matrices and maps of spatial distribution potentials for some features of winter wheat in the Oka River basin. A multiple regression approach, data from the Agrogeos geonetwork database, and SRTM30 elevation data are used for calculations. It was demonstrated that these methods and data are promising for the evaluation and prediction of winter wheat crop features.*

Key words: *winter wheat, crop features, database, spatial variability, topography, geomorphometry, multiple regression.*