

528.942:551.577.21

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MISH,

[10].

[4, 5]

1961 1970 .

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[1].

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, 1961 . ( $R = 0,9283$ ;  $R^2 = 0,8618$ ; Adj.  $R^2 = 0,8475$ ;  $F(3,29) = 60,276$ )

	Beta	Beta	B	B	t(29)	p-
			310,9357	17,70883	17,55823	0,000000
( 7 )	0,335891	0,122319	0,1806	0,06577	2,74602	0,010253
( - ) ( 50 )	-0,220288	0,074394	-0,4873	0,16457	-2,96110	0,006058
( 10 )	0,525684	0,121558	1,0329	0,23884	4,32455	0,000165

2

, 1970 . ( $R = 0,931$ ;  $R^2 = 0,8675$ ; Adj.  $R^2 = 0,8547$ ;  $F(3,31) = 67,662$ )

	Beta	Beta	B	B	t(31)	p-
			604,6345	40,23049	15,02926	0,000000
( 7 )	0,221584	0,124432	0,2524	0,14172	1,78077	0,084752
( - ) ( 70 )	-0,305683	0,071872	-1,2763	0,30007	-4,25314	0,000180
( 10 )	0,565003	0,125135	2,2790	0,50475	4,51516	0,000086

5-10

10 . ( ) ,

[5].

$$Y = b_0 + b_1X_1 + b_2X_2 + b_3X_3, \quad 1, 2, 3 -$$

;  $b_{0-3} -$

1961 .

[9].

: 1)

; 2)

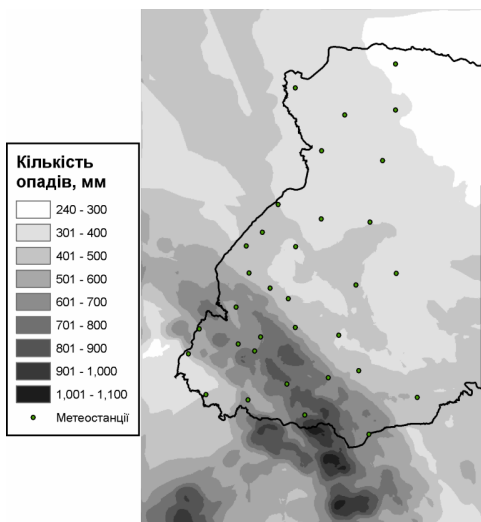


. 1. -

$$z(s_0) = m(s_0) + e(s_0) = \sum_{k=0}^p \beta_k \cdot q_k(s_0) + \sum_{i=1}^n \lambda_i \cdot e(s_i),$$

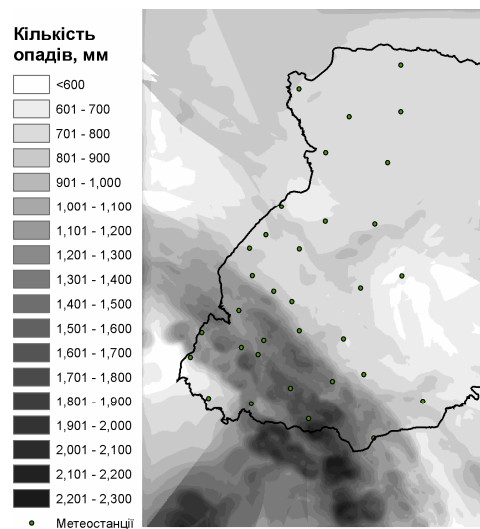
$z(s_0)$  - ;  $s_i$  - ;  $s_0$  - , ( -

);  $e(s_0)$  – ( , ) ;  $q_k(s_0)$  – ( ) ;  
 $i$  – ;  $k$  – ( ) ;  
 $e(s_i)$  – .  
 ;  
 SRTM DEM 90 .  
 SAGA, ArcView, ( .  
 ), [7].  
 1970 ., . 1, 2. 1961  
 1961 . 0,95 1970 . , : 0,93  
 86 % .  
 ( ) .  
 . 2, 3.



. 2.

, 1961 .



. 3.

, 1970 .

- [9].
- [8].
- [12] (
- [12].
- [6].
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  2. / . - .: , 1968. – 407 .
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16.05.2013

## INTERPOLATION OF METEODATA ON PRECIPITATION AND OTHER CLIMATIC VARIABLES BY REGRESSION-KRIGING

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The paper examines the features of the interpolation of climatic elements by the regression-kriging method, on an example of the interpolation of annual precipitation for the Western Ukraine. The mathematical description and the geographic interpretation of the regression-kriging method are given, together with the block-scheme of its application algorithm, as well as the maps illustrating the obtained interpolation results.

*Key words:* interpolation, regression-kriging, GIS-analysis, climatic elements.

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