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ALPINE THRUSTS OF ZHURAVLINY LOG

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***JSC «INOPROM»*

****JSC «Plast-Riphean»*

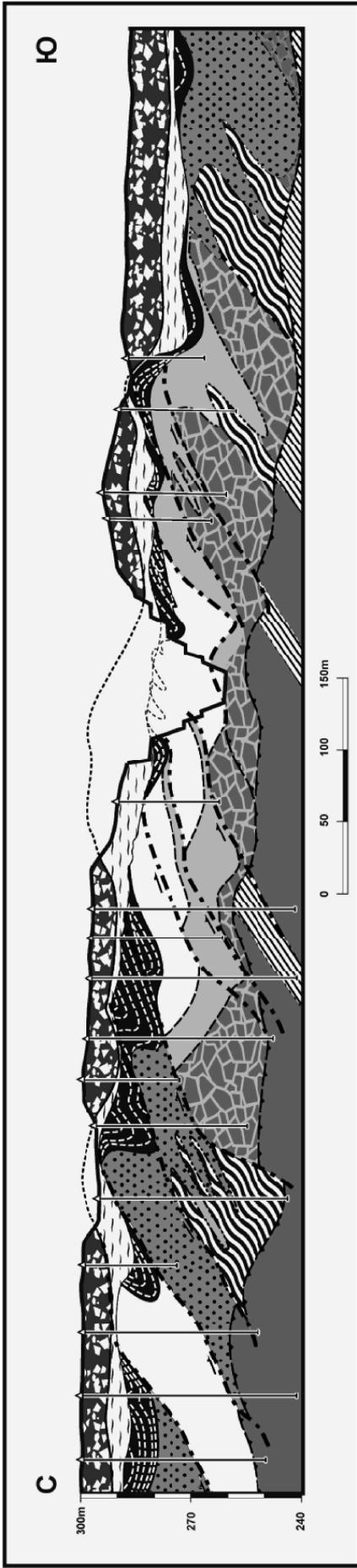
As it has been shown during a detailed investigation of kaolin raw, there is a system of young thrusts in a Zhuravliny Log deposit at a Chelyabinsk region. The thrusts, formed during a Quaternary period, are considered as a result of active displacements of Meso-Cenozoic cover's formations within a regional shear zone. This corresponds completely to the general geodynamics of south segment of the Eastern-Urals rising and in particular to the high-speed displacement of crystal basement's blocks connected with transcurrent Troitzk fracture. The frontal shear-thrusts with varying vergence are known in almost every orogenic zone under conditions of oblique collision. However, an advancement of a thin covers of hrusts development a sub-lithified Meso-Cenozoic rocks along a displacement vector can not be described by trivial way. Authors performed a kinematical analysis and proposed a modern model of low-amplitude.

Key words: *South Urals, eastern slope, kaolin deposit, scaly thrusts.*



1. I – ; II – ; III – (N_{1,2});
 – (P-T_{1,2}).

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 - () , , ρ
 : , , . . . 7-15 :
 , , .
 - (. 1),
 :
 (I); - (. 2).
 () (II);
 (III), :
 , , .
 , . 1, - , - .
 - . 2501,
 -
 -
 , *Picea Larix.*
 ()
 , () . *Pi-*
 N_{1sv} *cea* ()
Larix () -
 ()
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Ю

300m
270
240

0 50 100 150m

1 2 3 4 5 6 7 8 9

1 - () ; 2 - ; 3 - (N₁₊₂) ; 4 - ; 5 - (2⁻pv), 8 - (R₁-kk); 9 - ; 6 - ; 7, 8 - ; 4+6 - ; 7 -

– Taxodiaceae (*Taxodium sp.*, *Sciadopytis sp.*, *Cryptomeria sp.*, *Podocarpus sp.*, *Tsuga cf. diversifolia*, *Abies sp.*, *Picea sp.*, .);

– Ericales, *Rhododendron sp.*, Cyperaceae, Polygonaceae, Fabaceae, Polypodiaceae, Lycopodiaceae – (.),

[., 1997, .]

(. 2, 3)

400 600 ,

(2⁻pv), ,



3. - (P-T₁₋₂) « » (N₁₋₂).

0 20 , -
 , «Z- » -
 - (Mz) -
 (N_{1sv}) -
 (. 2), , () -
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 (. 2, 3). , -
 [, 1969; ..., 2002]. ,
 (. 1). (I) - .
 , (-
 (N_{1sv}) (N_{2ks})) -
 , -

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« () »

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, ... , :

1.

- III)

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80

2.

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(.4).

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3.

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(- II).

II

I

(20-

40)

(.3, 4).

Геологическая карта
 Журавлиноложская площадь
 Масштаб 1 : 12500

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10



4. , 10
 1 - 10 ; 2-4 - (N₁₊₂) -
 (2), (3, 4); 5 - ; 6 - (R_{1ks});
 ; 7 - (Mz (vP₂-T, pv)); 8 -
 9 - Mz (R_{1kk}), 10 -

[, 1997, 1998].

, [, 2002],

$$S_z$$

$$S_z$$

$$\sigma_z,$$

$$p$$

$$S_z = \sigma_z + p$$

()

$$\sigma_3 \quad \sigma_1$$

$$\tau_2$$

$$\tau_1$$

$$\tau$$

$$\sigma_z,$$

(N_{1-2})

$$\tau = \mu \sigma_z = \mu(S_z - p),$$

$$\mu -$$

(eMz).

$$\tau$$

$$\sigma$$

$$S_z,$$

20

$$S_z \cdot ($$

$$\sim 0,9 S_z).$$

1948

. 2. .: ,1969. .752-757.

,2002. 470 .

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«. .: ,2002. .74-76.

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«.VII .: ,2001. .180-181.

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- XXXV . . II. .: ,2002. .227-231.

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,2002. 124 .

N-41-XIX()//

1994-1999 .: - .

2002. 586 .

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,1998. .175-177.