

, 2005, 1. . 16-40

: 551.24(470.3)

. . . , . . . *, . . . *, , . *

109017, , , 7

E-mail: kheraskova@ginras.ru

*

« - v » (« »)

150000, , . , 8/38

2 2003 г.

EVOLUTION AND GEODYNAMICS OF THE SEDIMENTARY BASIN OF THE MOSCOW SYNECLISE IN THE LATE VENDIAN

T.N. Kheraskova, N.K. Andreeva*, A.K. Vorontsov*, N.A. Kagramanyan*

Geological Institute, Russian Academy of Sciences

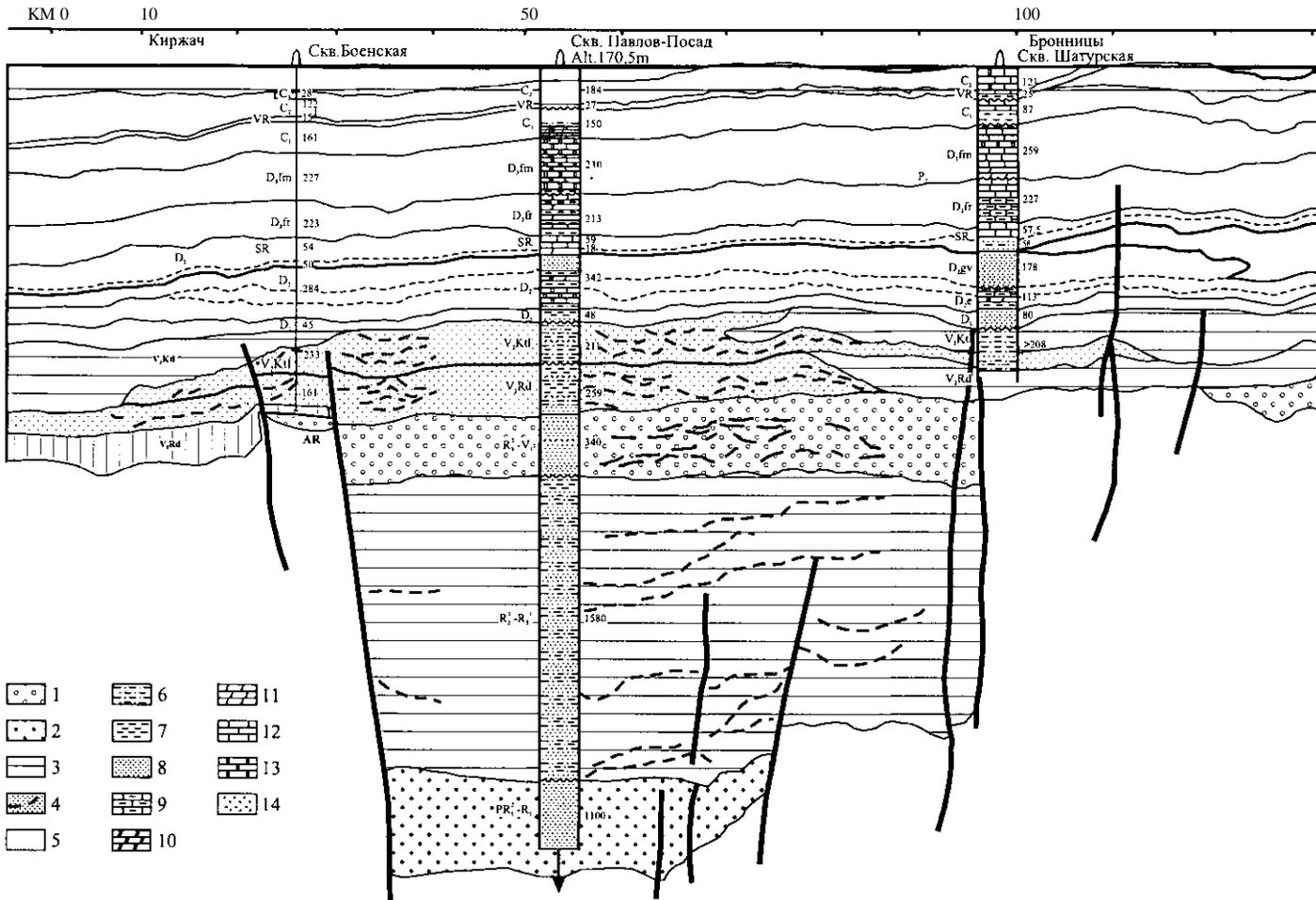
**Nedra Federal State Unitary Enterprise*

Structure and facies maps for Early Redkin, Kotlin and Roven time were compiled and a structure-tectonics scheme of the Late Vendian sedimentary basin of the Moscow syncline was prepared. It was established that facial features of sediments correlate the development of local sedimentary structures. In the structure of the basin four segments were distinguished including the Rybinsk-Vologda zone of transversal dislocations that vary in the degree of submersion and the strike of basic structures.

Key words: *sedimentary basin, sedimentation, facies, faults, geodynamics, structure evolution.*

- 1996; . 1998: , 2000; -
- , 2000 .].
-
(-
) , 50- . [, 1970; ,
1971; , 1972; ., 1980;
, 1980; .. 1981;
[, 1952, 1964, 1997;
..., 1979; - , 1999;
, 1985; , 1996, 1998; , - , 1991; ., 2001;
, 2000; , 2002; , 2003; ,
..., 2003].

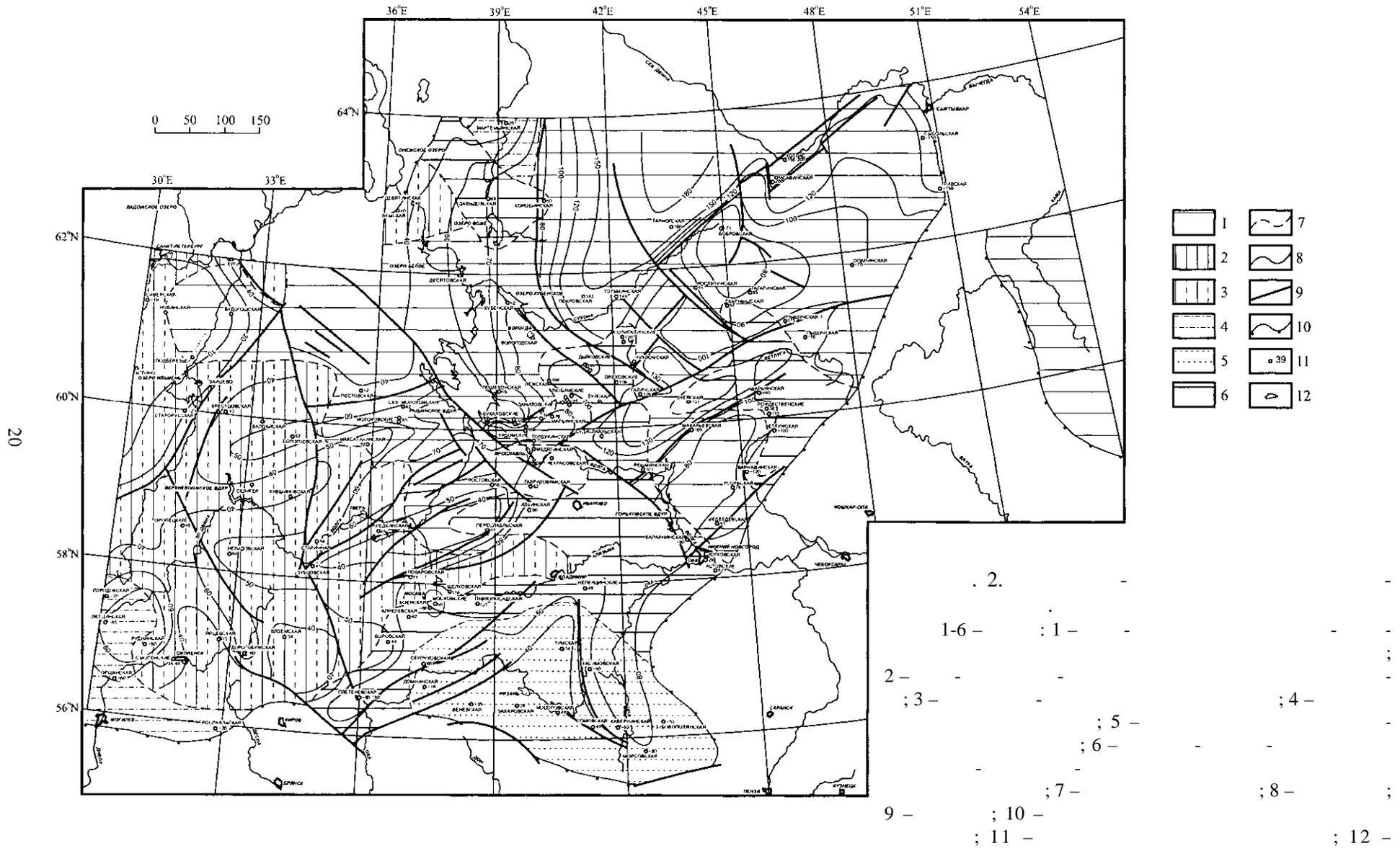
- 2003; , 2003],
 -
 -
 [, ..., 1987;
 1991; , 1995; .., 1998].
 -
 - 1-2 ,
 -
 - , . . [2002],
 -
 - (. 1- , 1-
 -)
 -
 -
 - (.).
 -
 - CBOPI
 -
 -
 - [1978, 1980] . . [1980],
 -
 [Hogan, Gilbert,
 1998; Soper, England, 1998] - , . . [2000]
 -
 -
 -
 () [, 1998;
 , 2000; . 1996;
 2000, 2003; .., 2001;
 .., 2003].
 -
 - 1994 ..,
 -
 - « ».
 -
 -
 - ()
 -
 -) (. 1).
 -
 -
 [1969],
 -
 - [, 1980;
 .., 2001],
 -
 - ((. .)
 -).
 -
 -
 [, 2002; ,



. 1. . 2. 1-4 - ; 2 - ; 3 - ; 4 - ; 5 - ; 6-14 - ; 6 - ; 7 - ; 8 - ; 9 - ; 10 - ; 11 - ; 12 - ; 13 ; 14 -

[, 2003], [- , - , -]
 ..., 1996]. [- , - , -]
 [2003, . 79], " - (. 1, 2)
 ".
 , , , - , .
 , - , .
 .
 - .
 ().
 - , .
] , - , - .
 , .
 , .
 - (.
 - , -).
 30 180 .
 : - - , - , - , - .

| | | | |
|---|-----|-----|-------|
|) | | | - |
| | | | , |
|) | () | | - - - |
| | | | , |
| | | | - - |
| | | | , |
| | | | , |
| | | - | , |
| | | - | , |
| | | | , |
| | | () | |



2001].

3. (1 -0,5)

4. 67. 89
210 .

1-5

(. . 1)

[1970]

1770-1560 ():

1. [2003], 5 60

2. 45
..... 20

(. 3)

(. 4),



. 3.

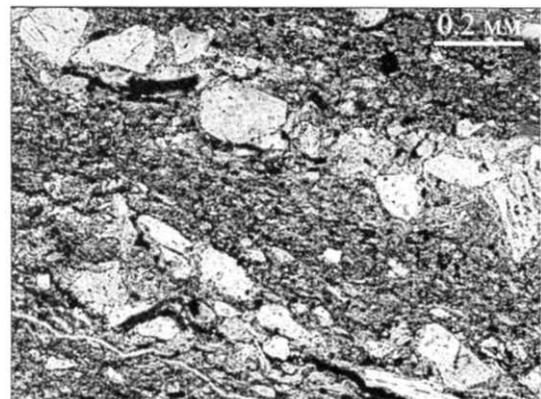
-1

[1994],

(40-45%),

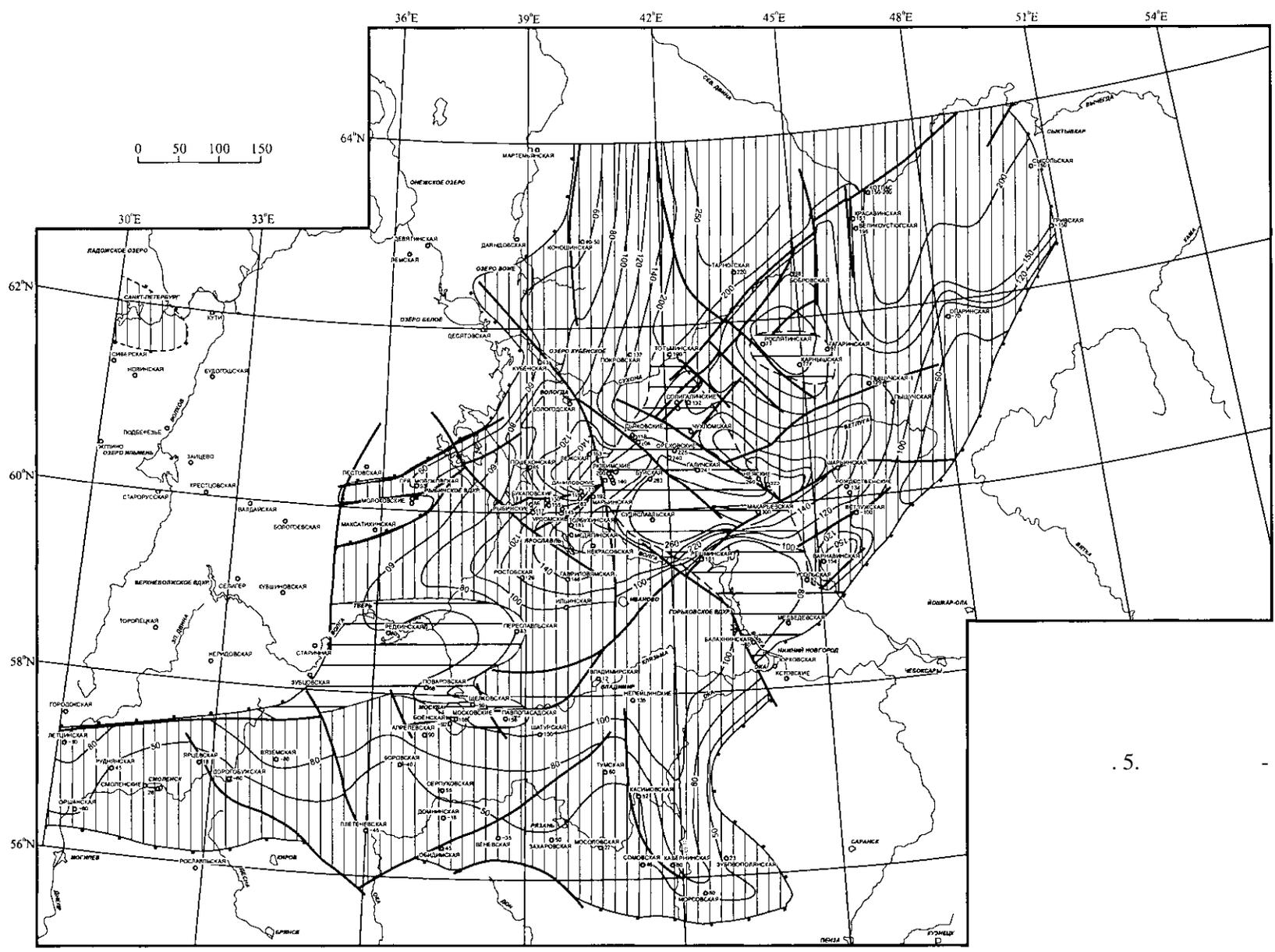
(18-23%)

(2-10%).



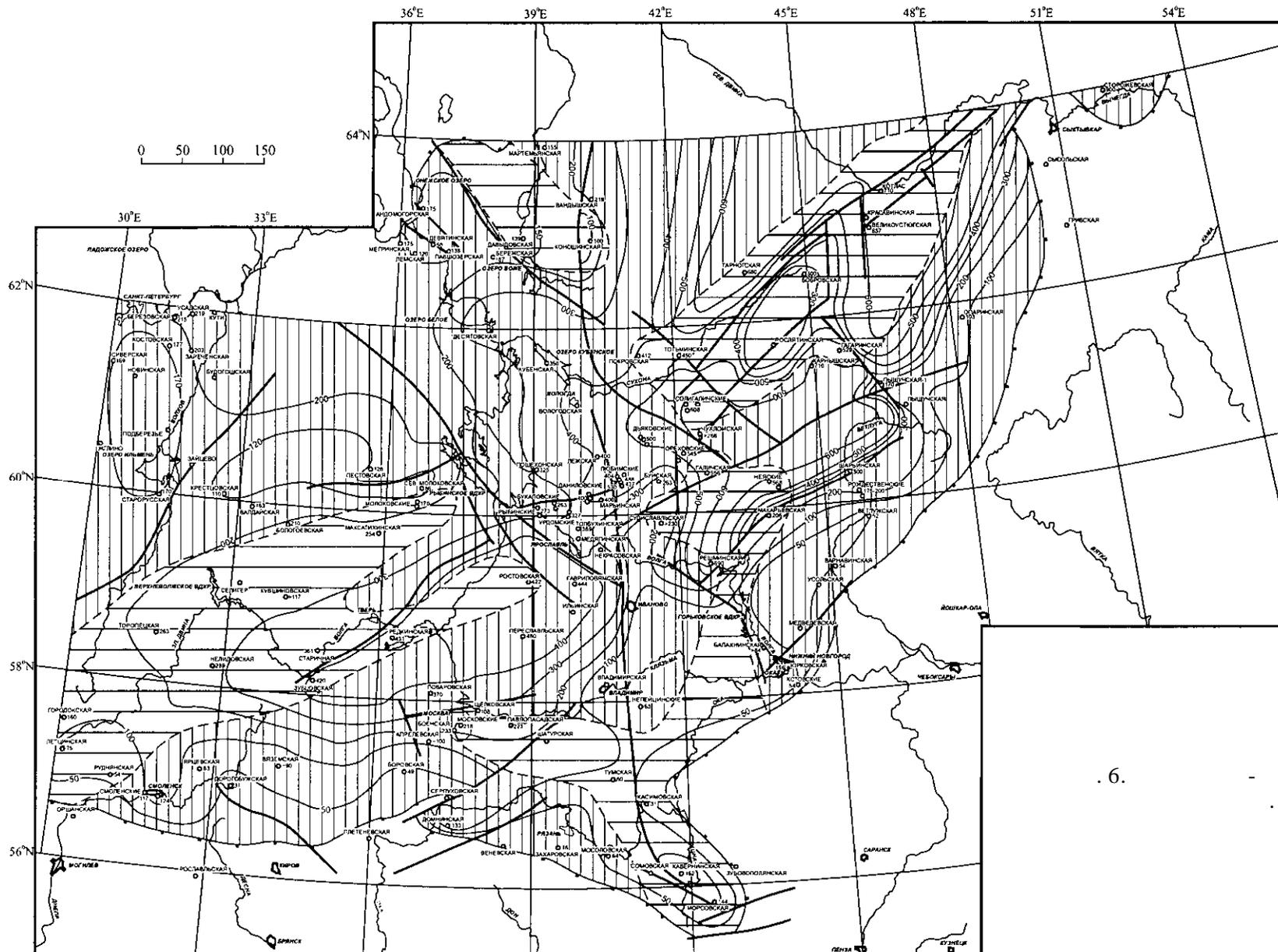
. 4.

. , [. , 2001].
 , - , -
 , . -
 . . [1969] . , , -
 - - . -
 . , [- , -
 . , 1996]. . , -
 - - . -
 . , -
 , . -
 , , (-
 . , ,). -
 , - . -
 , , , , -
 , - . -
 . , , -
 , , -
 - (, ,). -
 () , -
 [. , 20016]. , , -
 , , [1994], . . -
 , - . , -
 , - - -
 , - () -
 - , -
 , -
 , (. 5) [. . . , 1991; -
 , , 1996].
 , - . -



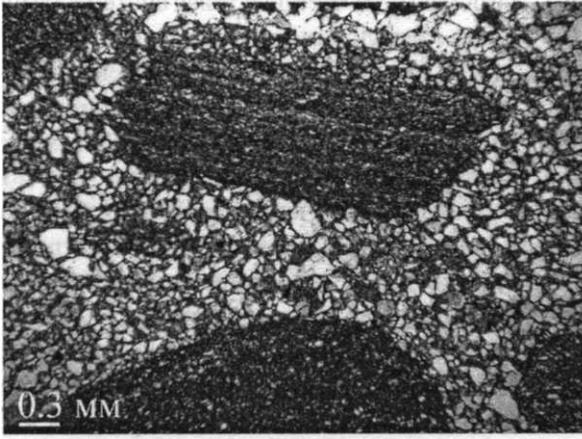
.5.

.1.

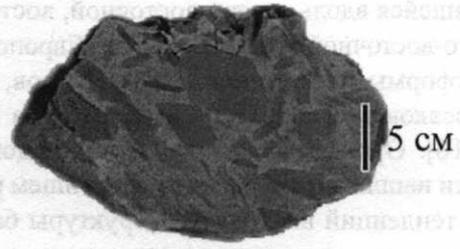


. 6.

. 1.

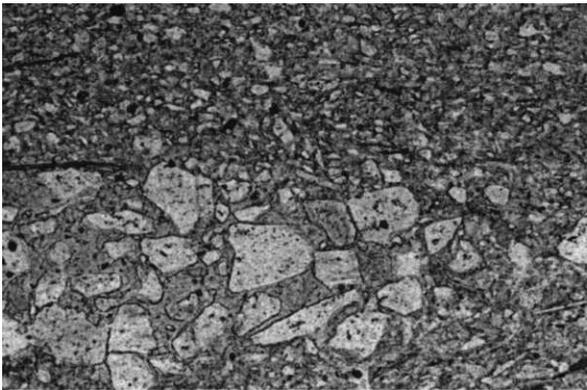


. 7.

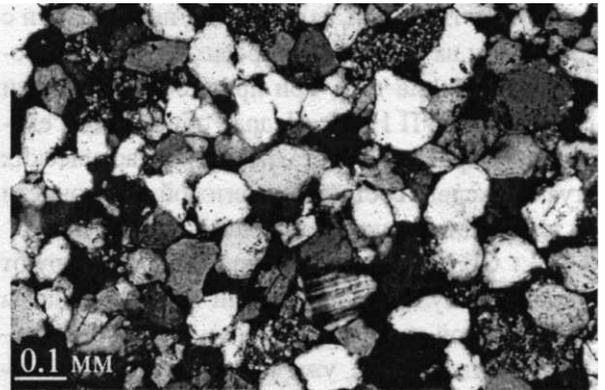


. 0.3-1.5

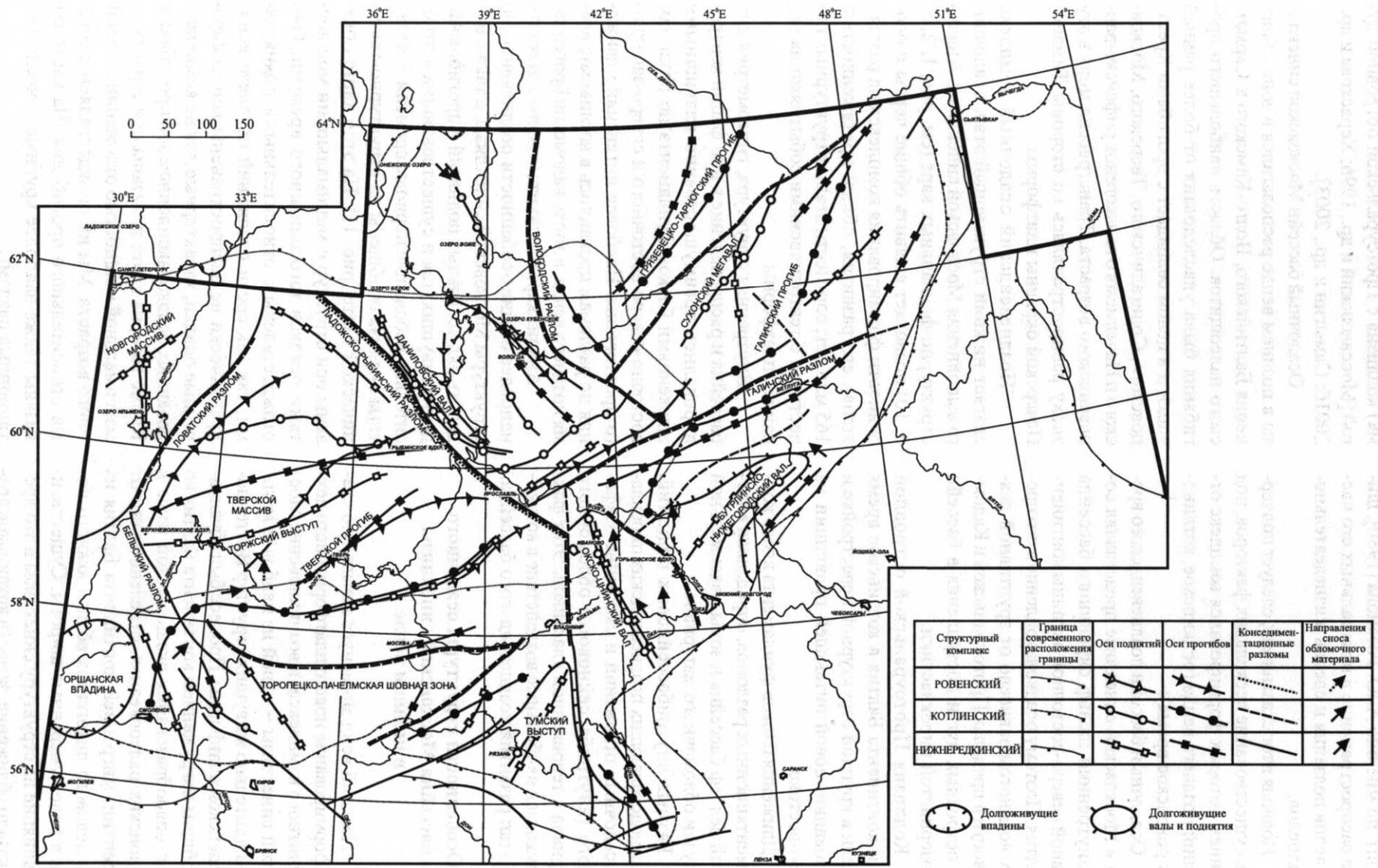
(. 9).



. 8.



. 9.



, ,
 //
 (- : 5 -
), , 2002. .23-25.
 / ,
 //
 ,1980. .12-24.
 //
 (-96).
 : ,1996. .29-31.
 //
 : ,1998. .136-146.
 //
 : ,2000. .39-40.
 . 2 / .
 , : .1985. 238 .
 . IV.
 . : ,1971. 742 .
 //
 .2003. .11. 4. .3-23.
 ,
 (03-05-64292). //
 .1998. 2-3. .5-17.
 //
 // .1969. . //
 188. 3. .635-638. ,1999. 6. //
 647-658. ,
 //
 : ,1998. 106 . . : ,1981.
 224 .
 // II
 .1970. 12. .55-
 65.
 ,2001. 11. .49-60.
 // .1972. 8. .3-14.
 : ,2000. .21-22.

- Scientific Press Ltd., 1997. 154
1994. 1. 100-118. , 1996. 46
1995. 6. 16-24
1980. 240 . « », 2000. 81
- B.C.*, (, 1979. 233) // , 1961. 120 , 1987. 214
- 799-802. // . 1996. 350. 6. , 1991. 120
- . 1999. 6. 59-65. // , 1980. 1. 3-25.
- : , 1998. 164
- : « », 2003. 440
- : , 1979. 260
- : , 2000. 145
- 2001 . 1. 10-22.
- // . 2003. 1-2. //
- 28-39. // , 20016. 286-289.
- , 1980. 24-26. //
- () // , 1980. 8-14.
- , 2003. 168-171.
- //
- : - , 2000. 95-107.
- //
- . 1952. 5. 21-31.
- B.C.* ()
- //
- XXII
1964. 137-150.
- Hogan J.P., Gilbert* . . Timing of the Final Breakout of Laurentia // Okla Geol. Notes 1998. V. 58. 5. P. 221-222.
- Scotese C.R.* Continental drift. Paleomap Project. Department of Geology. University of Texas at Arlington. 1994. 75 p.
- Shchipansky A, Bogdanova S.V.* The Sarmatian crustal segment: Precambrian correlation between the Voronezh Massif and Ukrainian Shield across the Dniepr-Donets Aulacogen // Tectonophysics. 1996. V. 268. 95. P. 109-125.
- Soper N.J. England R.W.* Vendian and Riphean rifting in NW Scotland // J. Geol. Soc. 1995. V. 152. LP. 11-14.