

XIX
 [1];
 150 [2];
 ()
 (« »).



«...» ().

40 7% (2) 1 .1), 23 82% [4].
 II-VIII (3), 4% 25% SiO₂ 23% 45%
 SiO₂[3].

(10¹⁹-10²³ .),
 (4,5 1)
 [5].

[6, 7].

25 6 60%.

240 [5, 8].

(III) ; (II),

4,0-1,9 (),

(IV);

(,),
 1,5-0,6 .

(V);

(VI);

* (VIII IX)

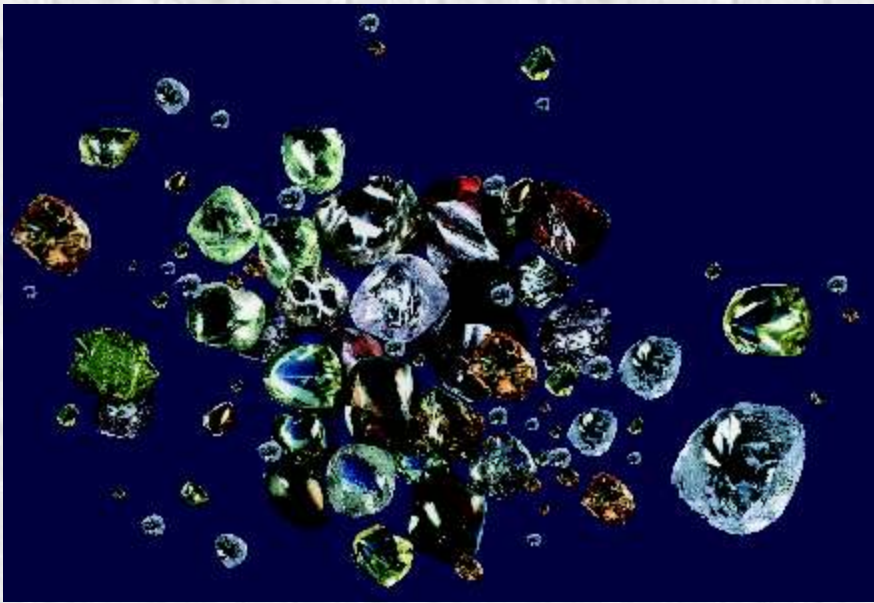
() (.2).
 (1,5 .)

V (VII);

(X) [3].

I.

(2000)



(70%)
 [1].
 (2, 4, 5)
 2)
 III,
 IV-V.

(10-) « »

()
 (. 2).

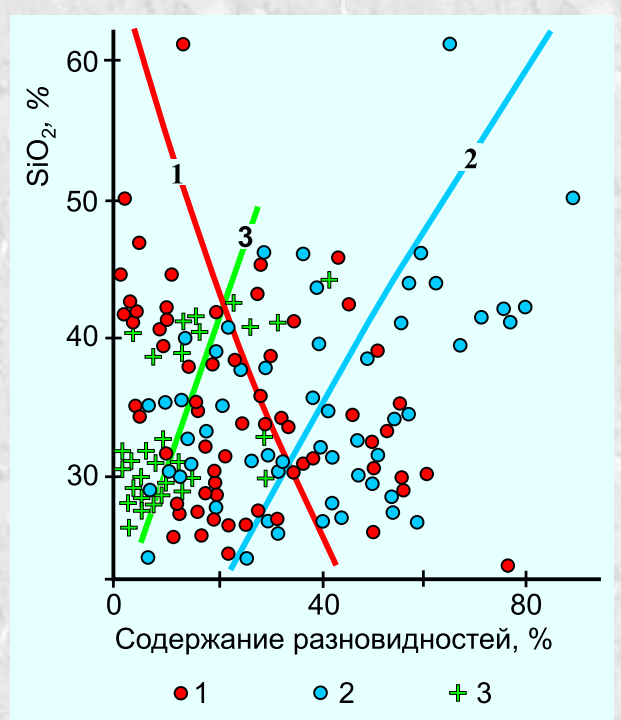
(2) ,

. 2).

(1

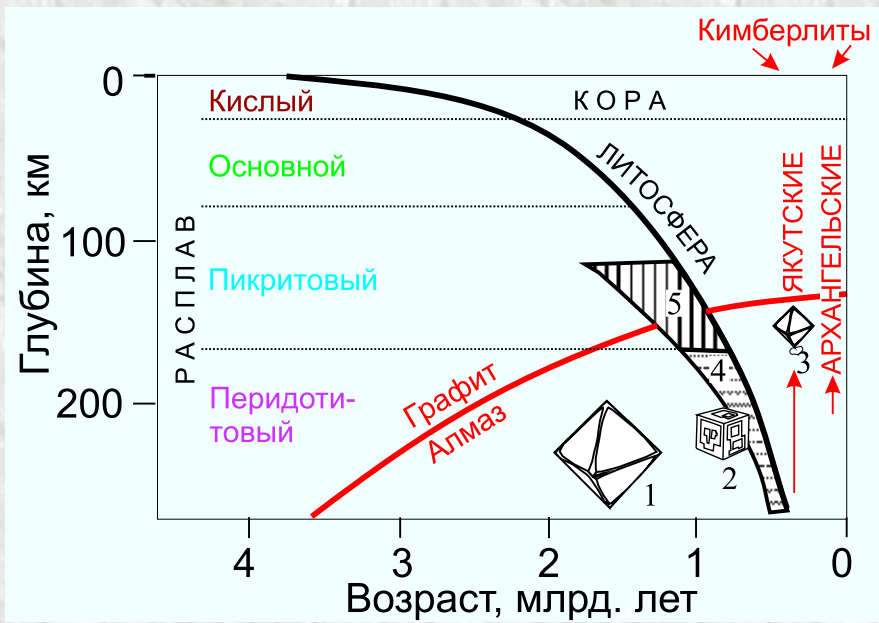
(. 1),

[4].



. 1.

(1),
 II-VIII (3), (2)
 [3].



. 2.

(3); II-VIII (2); (1); (4) (5)

(13
 -4,7‰
 (-5,93‰),
 (-14,7‰
 II)
 (-24,7‰) [10].
 13

VI-X.

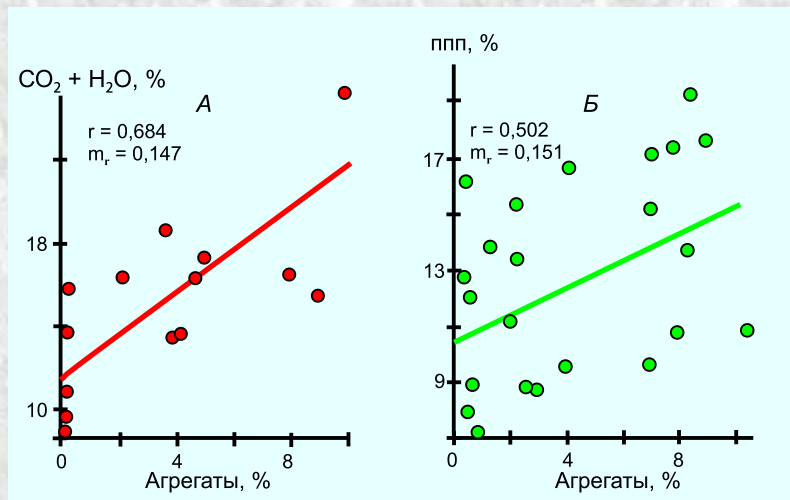
[5, 8].

[9].

[9]

(.3).

()



. 3.

(VI-VIII)

()

. r, m_r -

(, %) ()

- (. . . 1),
- . 2)
- [2].
- [5, 8].
- [9].
- (3
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