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(Lichatowich 1999 ;. Naish at
 al., 2007).

, .
 (Ford 2002; Araki et al. 2007).
 (Palm et
 al. 2003), ,
 (Schroder et al. 2008),
 , ,
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 (Pearsons et al. 2007).

(Hilborn and Eggers 2000; Nickelson 2003; Oosterhout et al. 2005).
 (Dannewitz et al. 2004).
 ,
 (Chilcote 2003)
 ,
 (Buhle et al 2009).
 , ;

(Kostow 2009).
(Hilborn and Eggers 2000).
(Wertheimer et al. 2001; Brannon et al. 2004).

(1).
(1985).

11500, 6750 2000 ²

(. 1).

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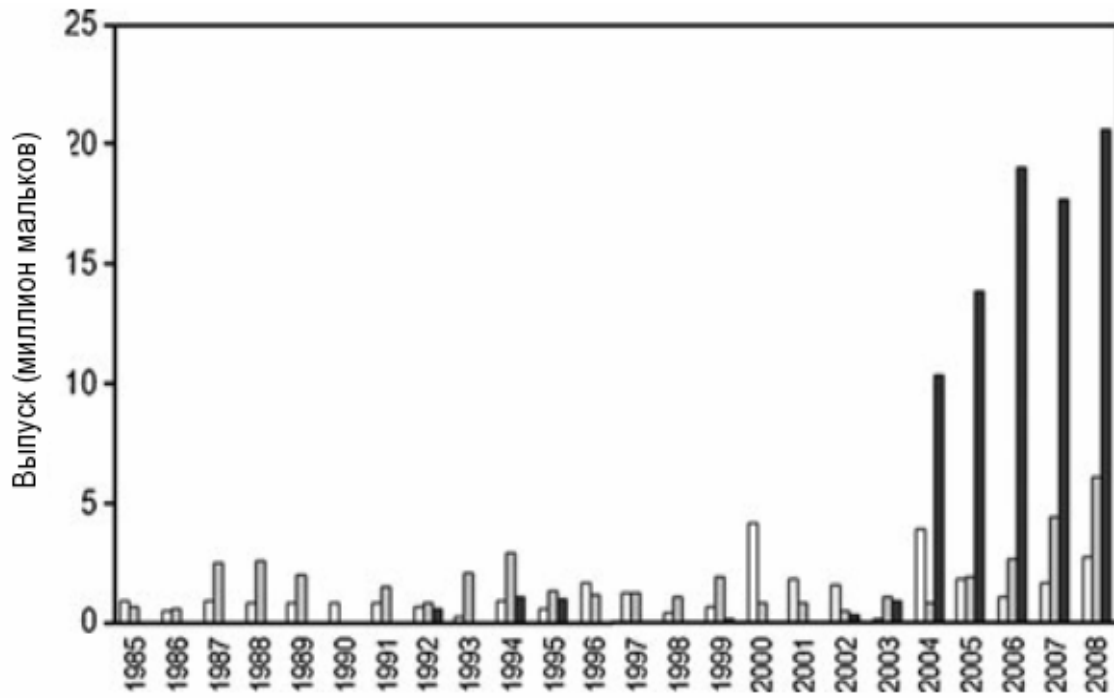
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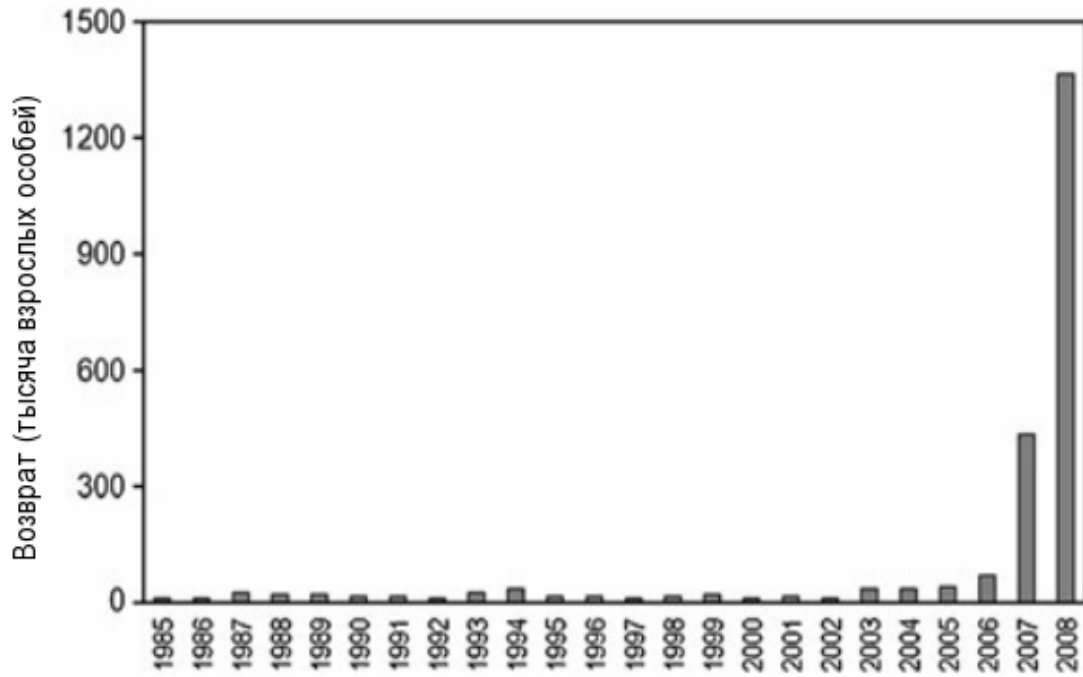
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(2+, 3+ 4+) (, 1966, . 168-179). ,
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2004	12	51
	8	50
2005	6	50
	17	51
	26	50
2006	23	50
	18	50
	30	50
	7	50
	4	50
	31	50
2007	19	50
	11	48
	20	50
	1	48
	8	48

2008

17	48
29	48
9	48
8	42
12	48
10	48
4	48
20	48
31	48
29	48
9	48
14	48
21	48
17	31
10 13	48
9	48
19	48

Ssa197 (O'Reilly et al.1996), *Ssa20.19* (Sanchez et al. 1996), *Ogo2* (Olsen et al. 1998), *Oke3* (Bucholz et al. 2001), *Oke11*(Bucholz et al. 2001), *One101* (Olsen et al. 2000), *One103* (Olsen et al. 2000), *One109* (Olsen et al.2000), *Ots3* (Small et al. 1998), and *Okil* (Smith et al.1998).

One103
One103.

18 bp,
Okil,

;
Okil-1 (180–270 bp) Okil-2 (90–110 bp).

(. 2008).

F_{ST}

GDA (Lewis and Zaykin 2001). 95%
(Weir 1996).

F_{ST}

SPSS (Darren and Mallery 2005).

f_{WA}

(2+, 3+ 4+)

$f_{WA} = , P_{HA} P_{RA} -$

$P_{WA} -$ A

P_{WA} $2+, 3+ 4+$

1974-1995 (2010).

P_{WA} $2+, 3+ 4+$

4.4%, 62.4% 32.6%

2004-2005 f_{WA}

$3+ 2007$ $3+ 4+ 2008$ (Cramér 1946).

2004 (.2).

$2+$ 2006 $3-5\%$

$2+$ (15.5% 2.1%), $2+$

$(p = 0.0027)$

$2+$

$3)$ $3+, 2007$ (.

$(92.7\pm 1.5\%)$ $3+$

$(p,$ $(42.9\pm 2.9\%$ 2006)

$(53.8\pm 2.9\%$ 2008) $3+$

$(86.0\pm 3.6\%),$

$(p=0.030)$

$3+ 2007$ $20.0\pm 7\%$

2007

2008

2004 2005

(.3)

(.2).

53.8±2.9% 43.3±2.9% 53.3±6.4%

3+ 4+

45.0±6.4%

, 2008

2007 2008

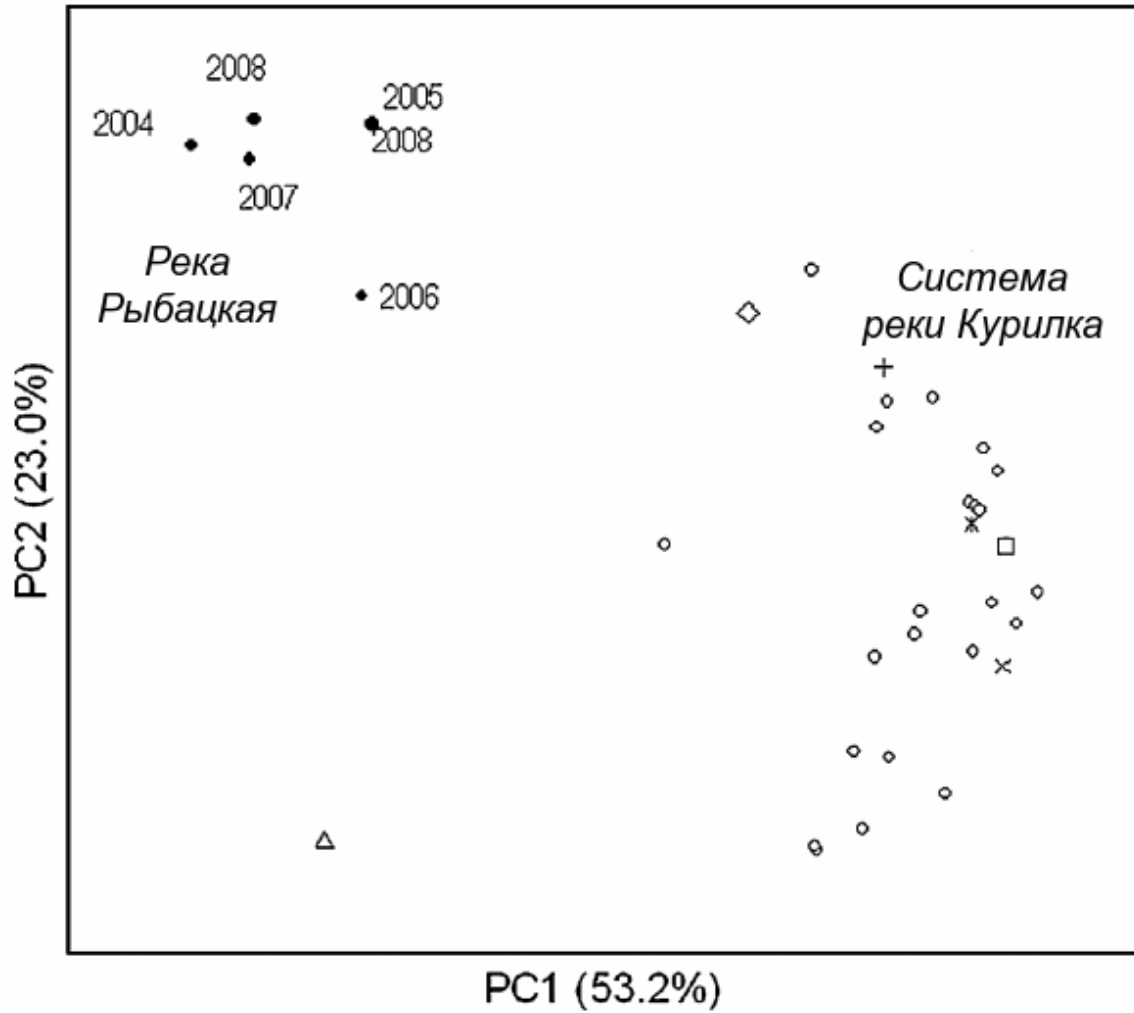
(4+ 3+).

2004

2004

($p=0.05$).

(.5),



.5 -

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() ; () ;

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() ; 4+ 2007 () ; 3+ 2007 () ; 2008

() ; 4+ 2007 () ; 1 2-

() ; (4+),

() ; ()

2006 ; . 2008).

2008

(.5).

(.5).

0.9],

F_{ST}

[0.17, 0.87].

0.43%,

[0.7,

F_{ST}

($F_{ST}=0.14\%$,

[-0.02, 0.13]),

0.90% (

[0.57, 1.27]).

2004-2008

(.5) $F_{ST} =$

2007 2008

(0.01)

2007 2008

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(1985)

nerka)

(Blair et al. 1993).

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2003)

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(Wilson 2006).

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