

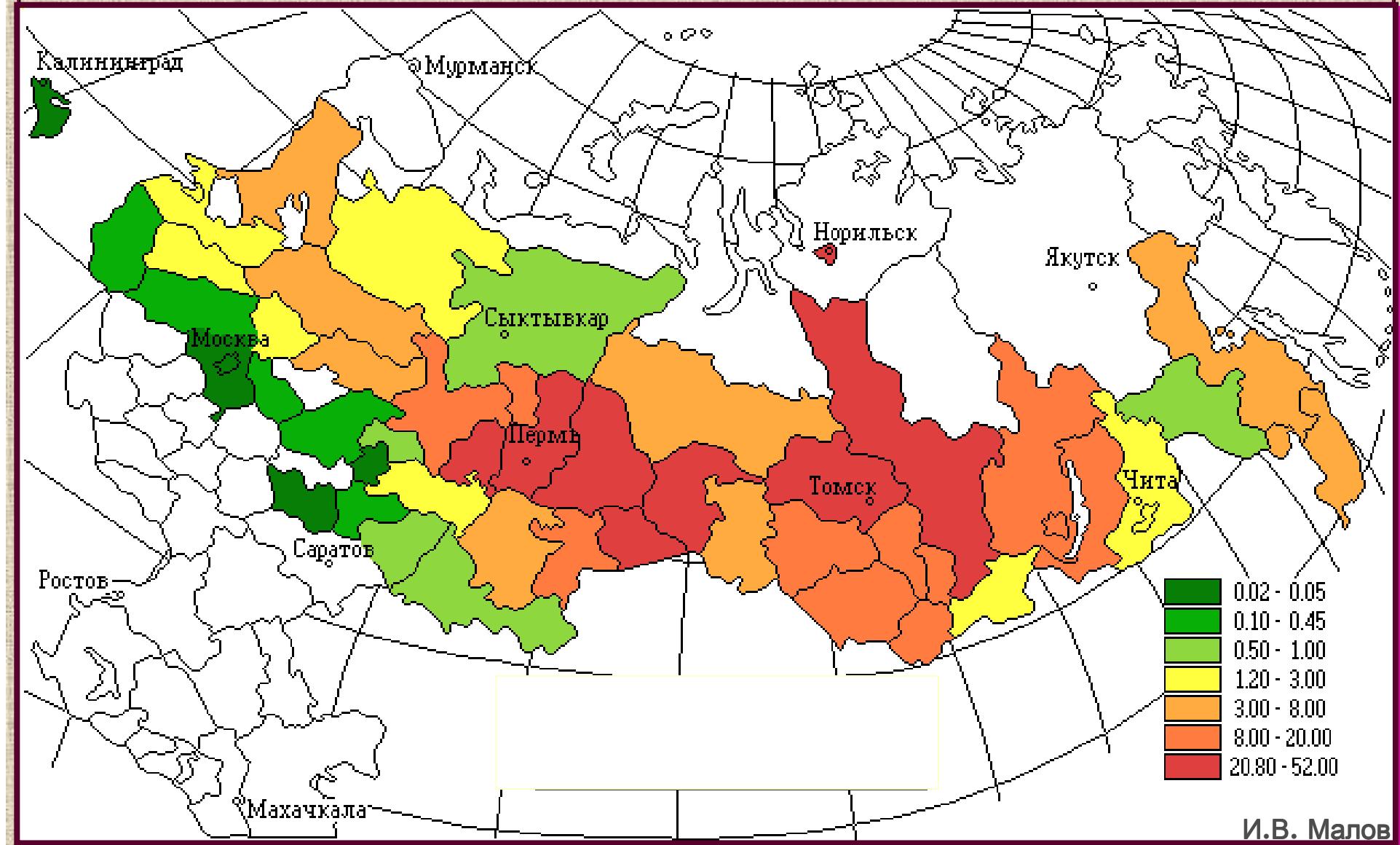
IRKUTSK STATE MEDICAL
UNIVERSITY

Igor Malov

***Tick-borne encephalitis
in Siberia***

И.В. Малов

Case rate Tick-borne encephalitis (TBE) in Russian Federation



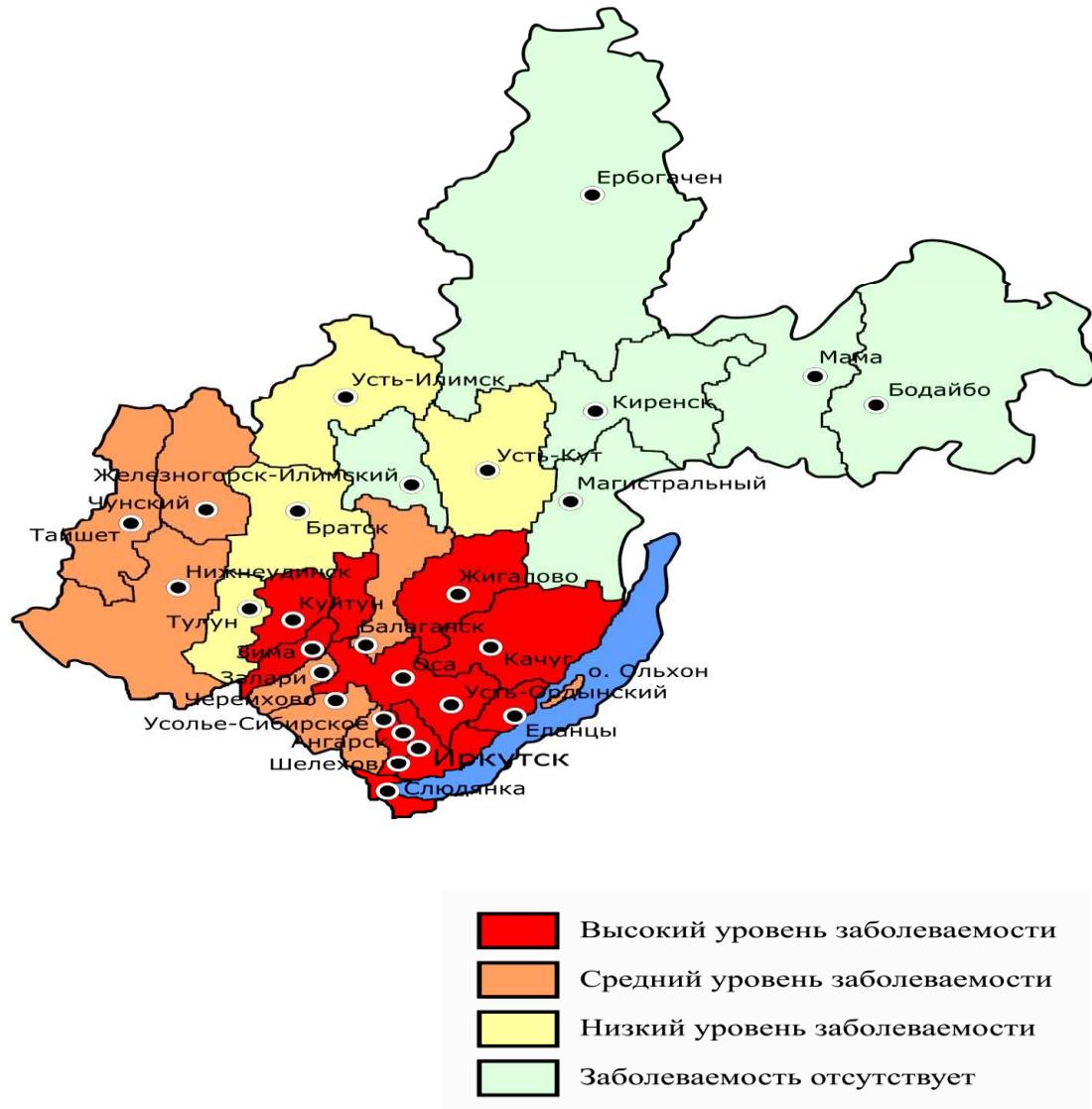
Case rate TBE on separate locales of Siberia (1999-2000 гг.)

Area a *Ixodes Persulcatus* (1) and *I. ricinus* (2)



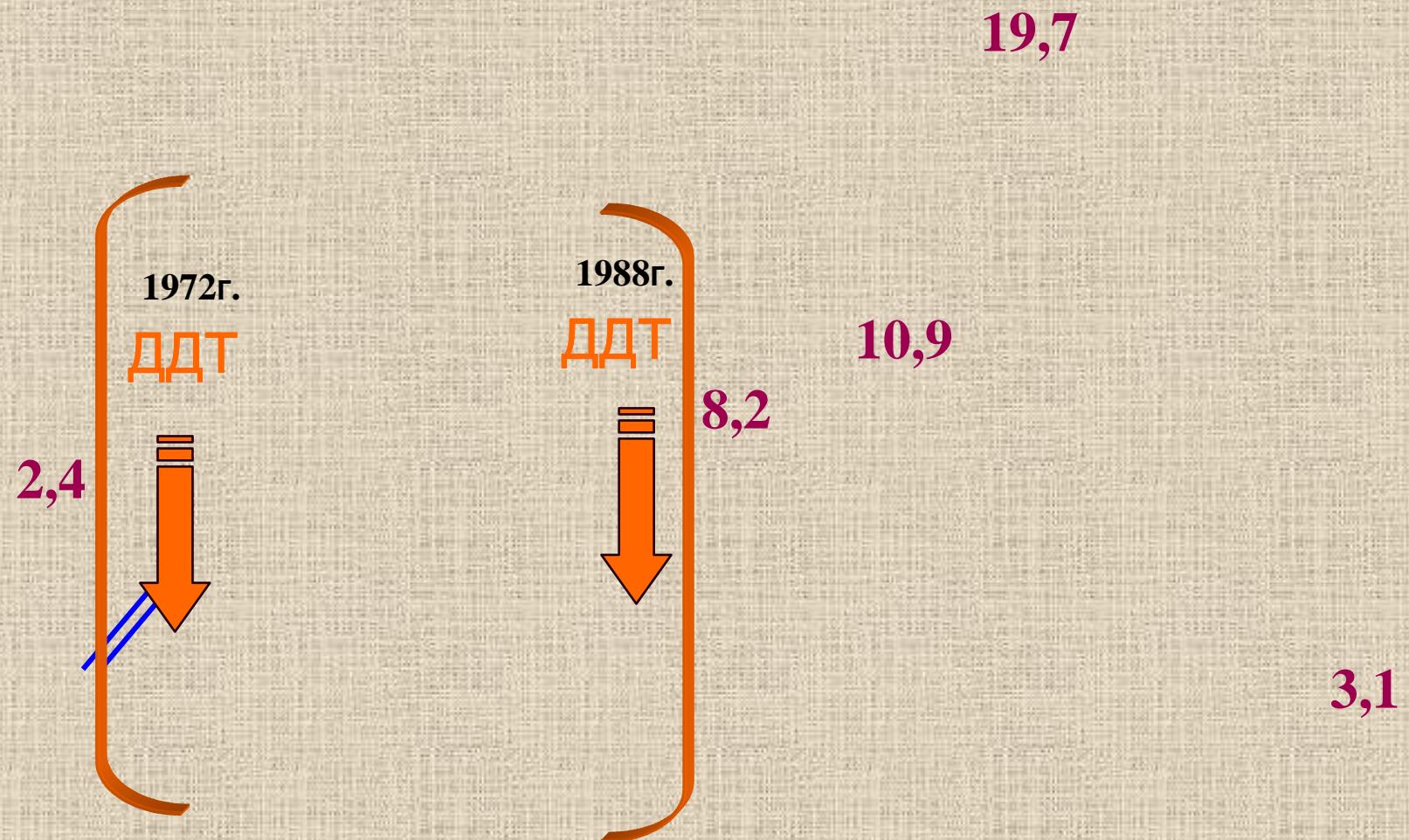
И.В. Малов

Abundance TBE in Irkutsk area



И.В. Малов

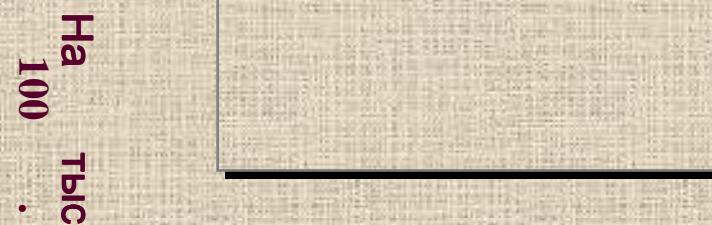
Dynamics(changes) TBE on Irkutsk area (index in 100 thousand population)



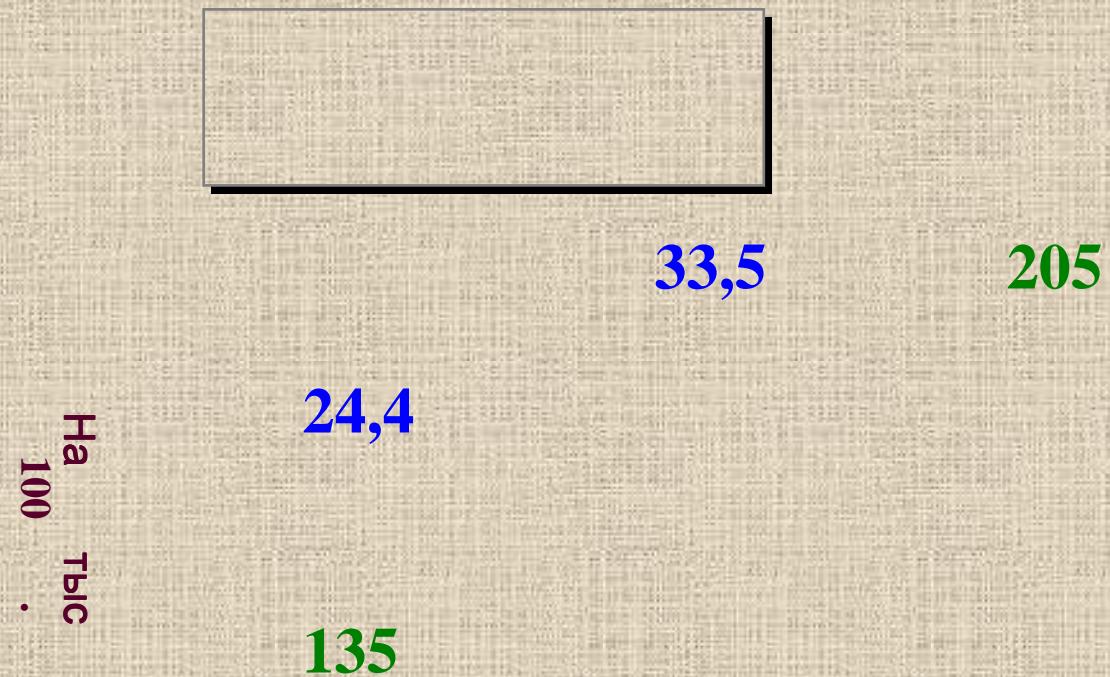
Factors influence on sickness rate **TBE**

- Numbers of vertebrate hosts (ticks sustenance);
- Number of tick in natural foci;
- Contamination of ticks;
- Frequency ticks bites (activity of ticks);
- Immunoglobulin prevention;
- Level of people vaccination.

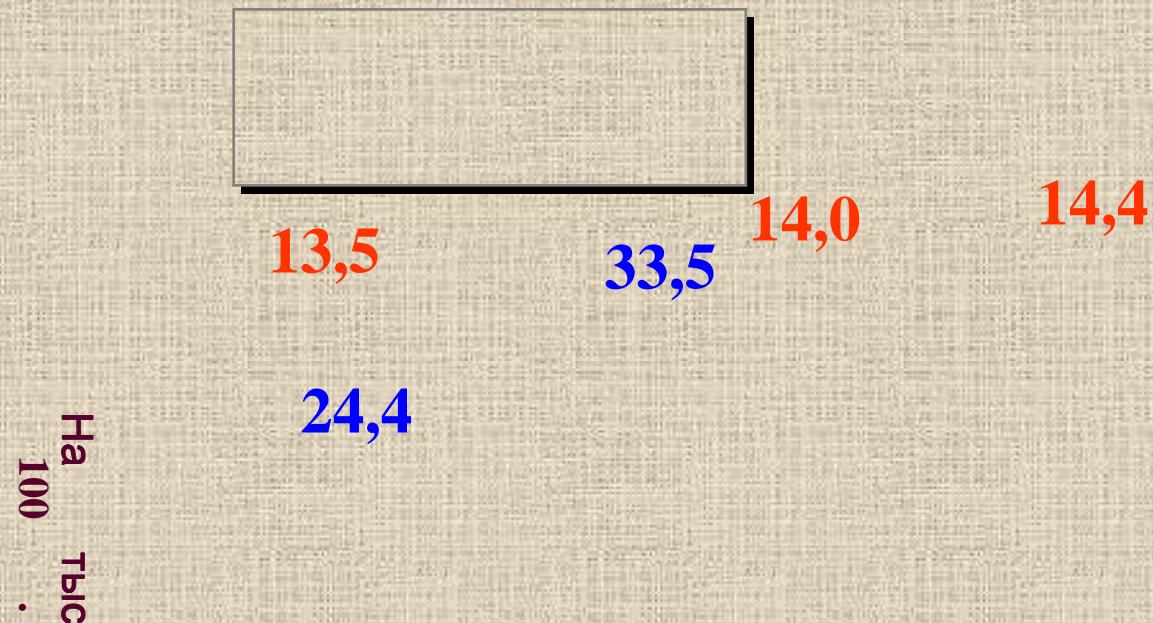
Dynamics(changes) TBE on Irkutsk area and to Irkutsk for 23 years



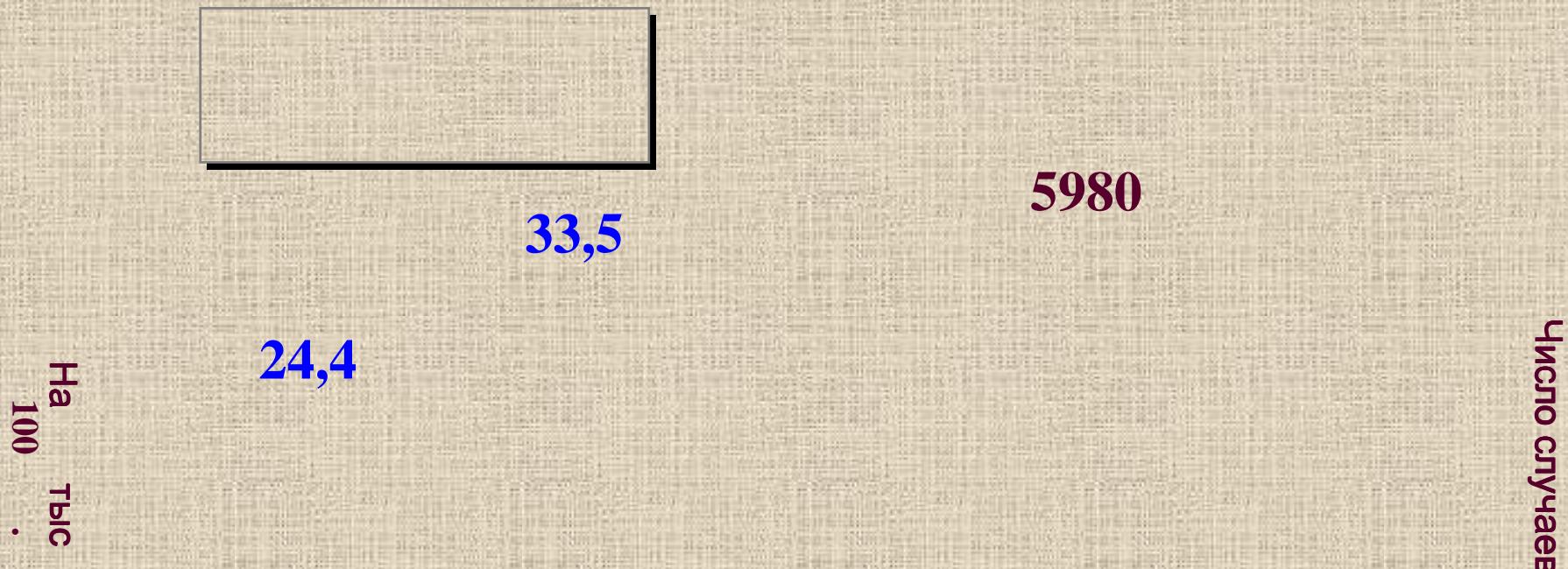
Case rate TBE and numbers of ticks, collected by 1 km of route



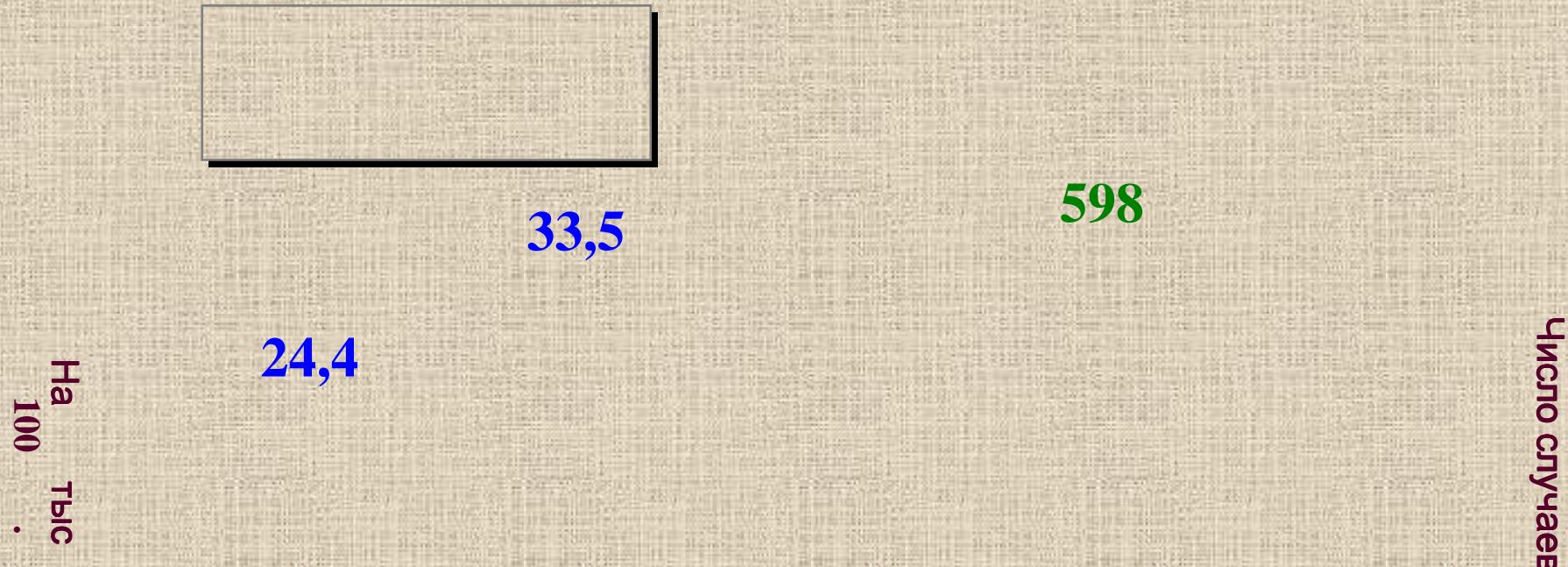
Case rate TBE and viral contamination of ticks (%)



Case rate TBE and frequency sick calls after tick bite



Case rate TBE and frequency immunoglobulin prevention



Doctor's consult frequency after tick-bites in summer period

Число случаев

И.В. Малов

Case rate TBE in Irkutsk and weather condition

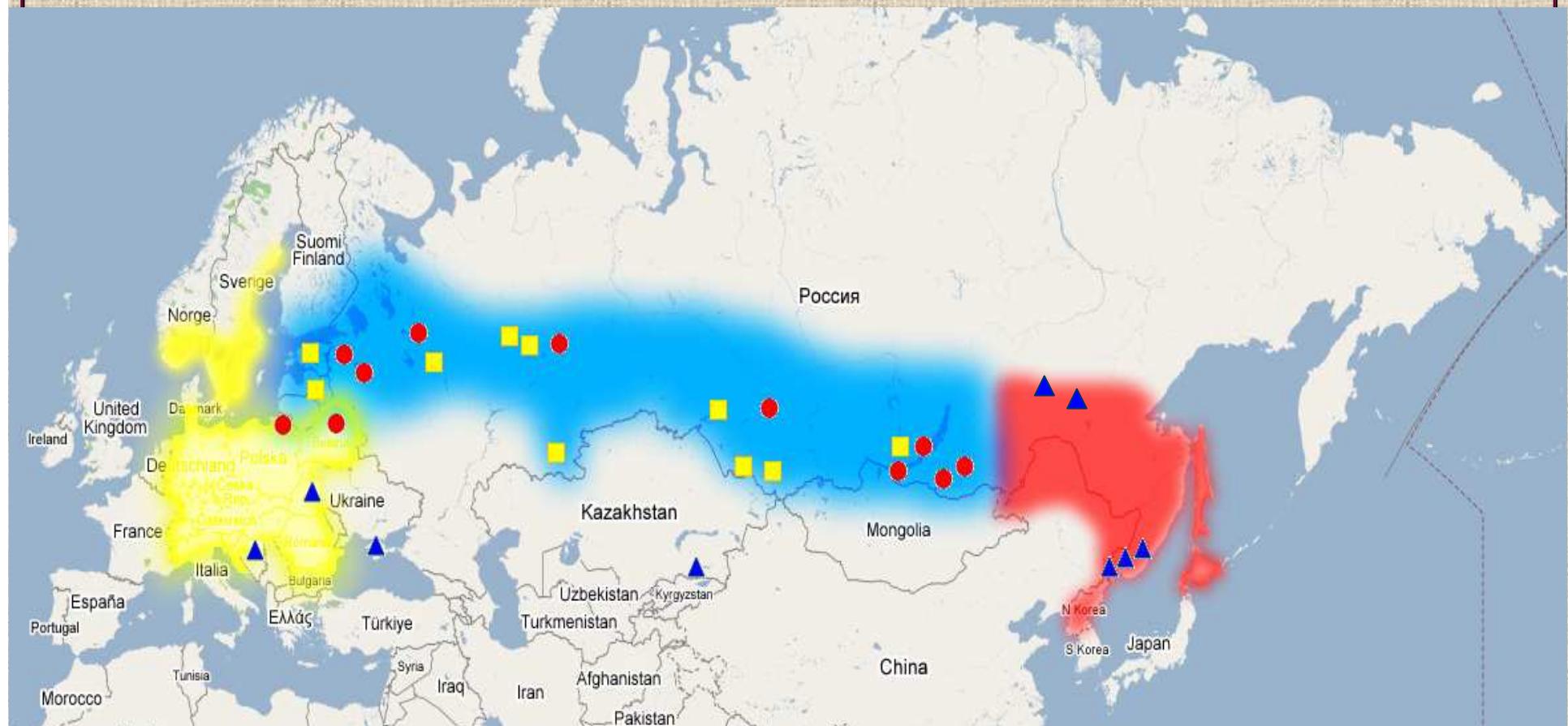
Average year summer temperature (may-august)

t, C°

TBE - virus genotypes, circulating on territory of Russia

- Genotype Far East (Sofin);**
- Genotype Western (Najdorf,
Absettarov);**
- Genotype Ural-Siberian (strain
Ajna/1449)**

Geographical distribution TBE - virus genotypes (by V.Zlobin et all. 2007)



- Genotype Western
- ▲ Genotype Ural-Siberian
- Genotype Far East

TBE-virus dominant genotype and peculiarities of clinical developing

TBE-virus dominant genotype and clinical forms

TBE-virus genotypes, isolated from TBE-patients in Irkutsk region

/	а аи о в л	М ов л	о в л .	о а а ол в а	о-
1	a/1448	во и	а ола	1963 о	, ог а
2	215-79	о а и	а ола	1979	, го ал а
3	1 -98	г о ов и	а ола	1998	о а о а о а
4	3869-03	во о а ов и	а ола	2003	И а а а а о а
5	413-04	во о а ов и	а ола	2004 г	ал а о а, 2- вол ово
6	2517-05	г о ов и	а ола	2005 о	, ог а
7	210-79	во о а ов и	а ола	1979	в а

И.В. Малов

Evolution of TBE-virus in Sverdlovsk region (by V.Pogodina, 2007)

Evolution of TBE-virus in Kemerovo's region (by V.Pogodina, 2007)

Evolution of TBE-virus in Irkutsk region (by V.Zlobin, 2008)

Evolution of TBE-virus (genotype Ural-Siberian)

Change of clinical pictures - I



%

1966г.-1983г. – о В. . а ,

1990-2007г. – о В. . о ов

И.В. Малов

Change of clinical pictures - II



%

1966г.-1983г. – о В. . а ,

1990-2007г. – о В. . о ов

И.В. Малов

лаго а а
в а