

Environmental risks at the territory between rivers Ob' and Tom'

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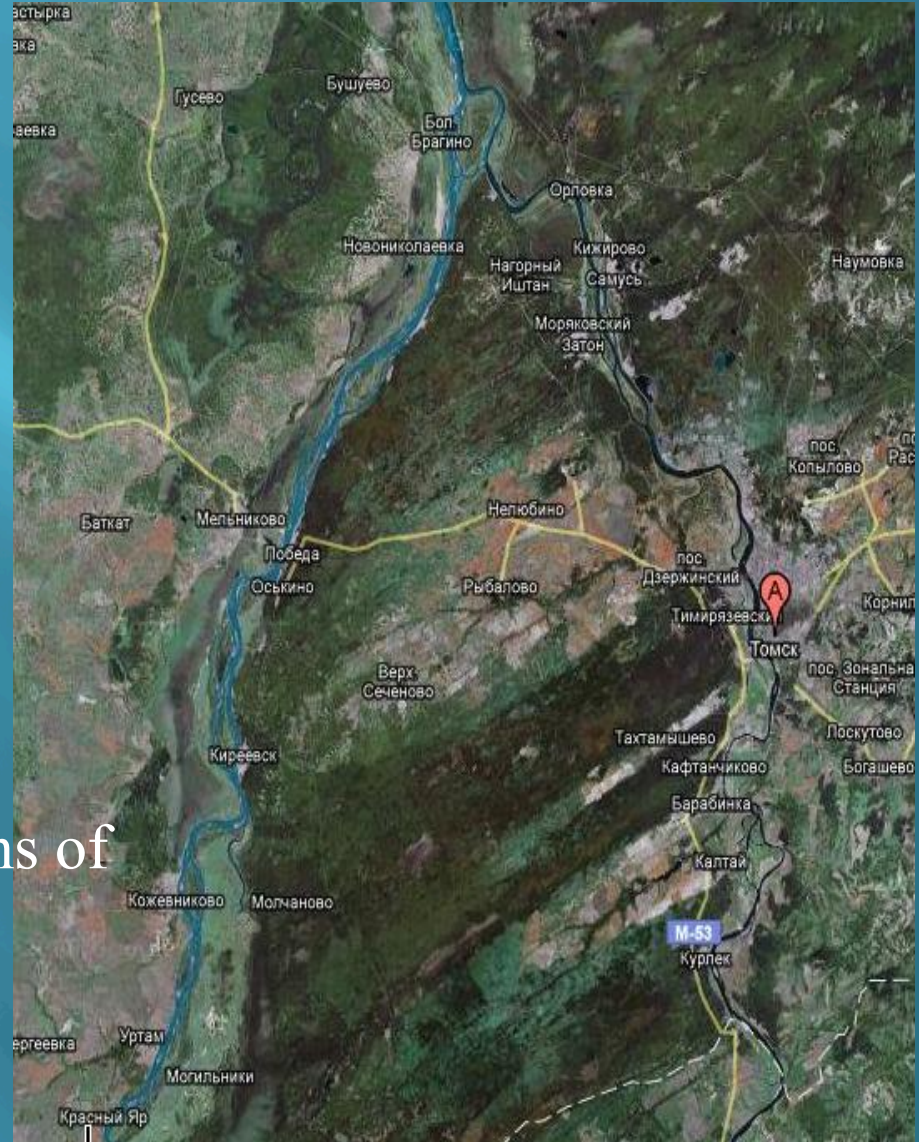
The investigated territory between rivers Ob' and Tom'

Aim: to analyze territory for environmental risks to develop reasonable system for rational land use

Anthropogenic factors:

- deforestation;
- agriculture;
- water-intake;
- recreation

which occur under the conditions of a changing climate.



Deforestation

Major part of forest is cut down and replaced by second growth.

Risks:

- ▣ Alteration of water and temperature regime of soils;
- ▣ Change of vegetation cover;
- ▣ Depletion of forest resources;
- ▣ Reduction of biodiversity and economical and ecological quality of the territory.

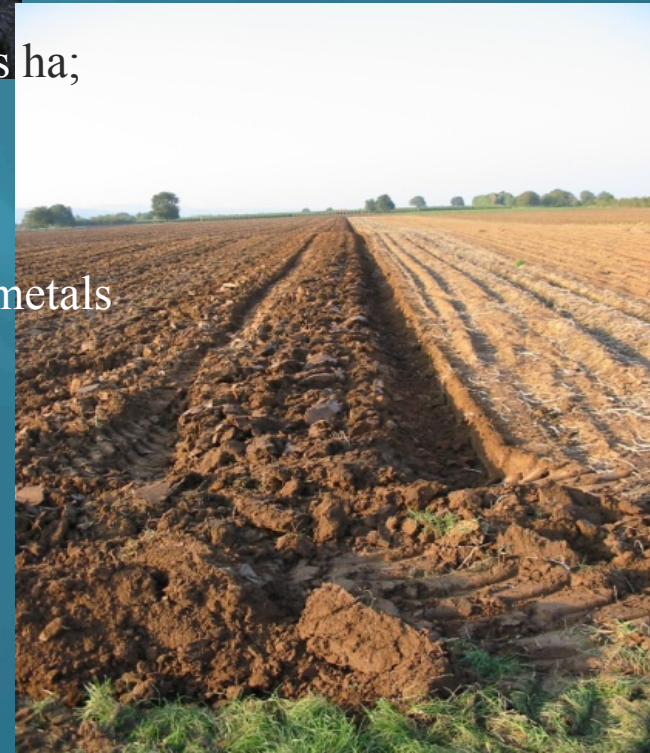


Agriculture

Soils with high quality are cultivated in agriculture (agricultural lands – 49.8 ths ha; 34.8 ths ha – tillages).

Risks:

- Soil erosive processes;
- Soil pollution with heavy metals because of pesticide;
- Growth of deflationary processes;
- Soil dehumidification;
- Emission mineral materials into the atmosphere and aerosol pollution .

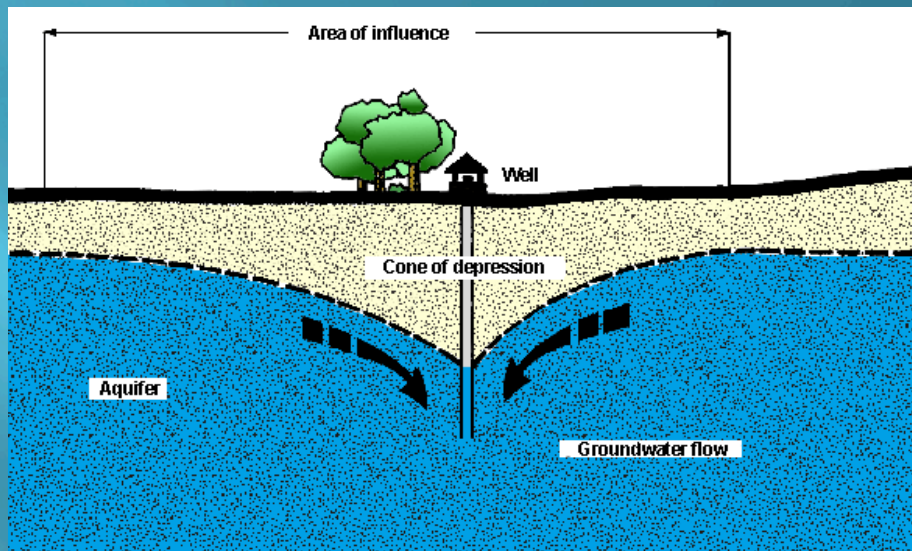


WATER INTAKE

Largest supplier of underground waters in the Tomskaya oblast. Annual production of artesian water is 80-86 million m³.

Risks:

- Formation of two cones of depression;
- Dehydration surrounding space: dehydration aeration layer, degradation of bogs;
- Extension of fire risks.



WILDFIRES

from 2003 till 2010 years — 886 cases of wildfires, burnt area — 2345.6 ha

Risks:

- Aerosol emission in the atmosphere;
- Change of vegetation cover;
- Deterioration of soils;
- Reduction of biodiversity.



RECREATION

Risks:

- Ecosystems structure is modified;
- Intercommunication between components becomes weaker;
- Enormous junkyards on the territory.

Thank You for attention

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