ICWC SIC

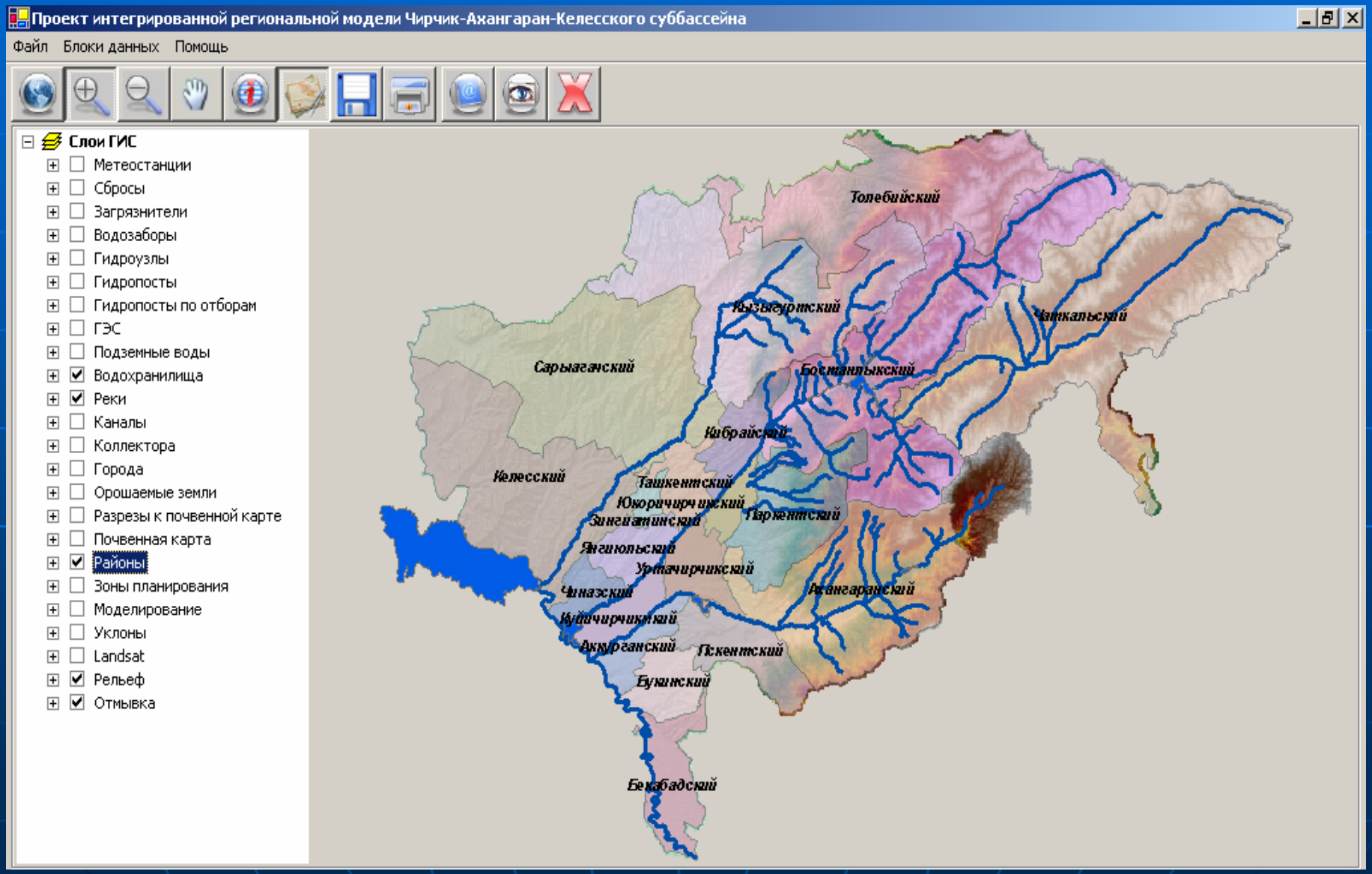
Workshop Tashkent, 7-10 April 2006

rivertwin

The interface of Data Base and its development for coordination of models and account of the scenarios

Denis SOROKIN

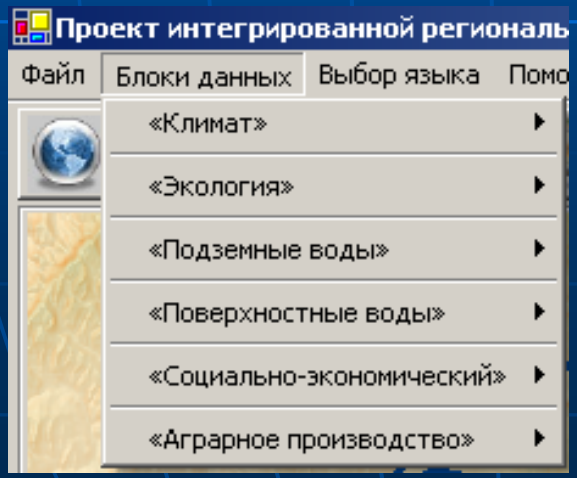
The window of the main form of the interface with active GIS layers



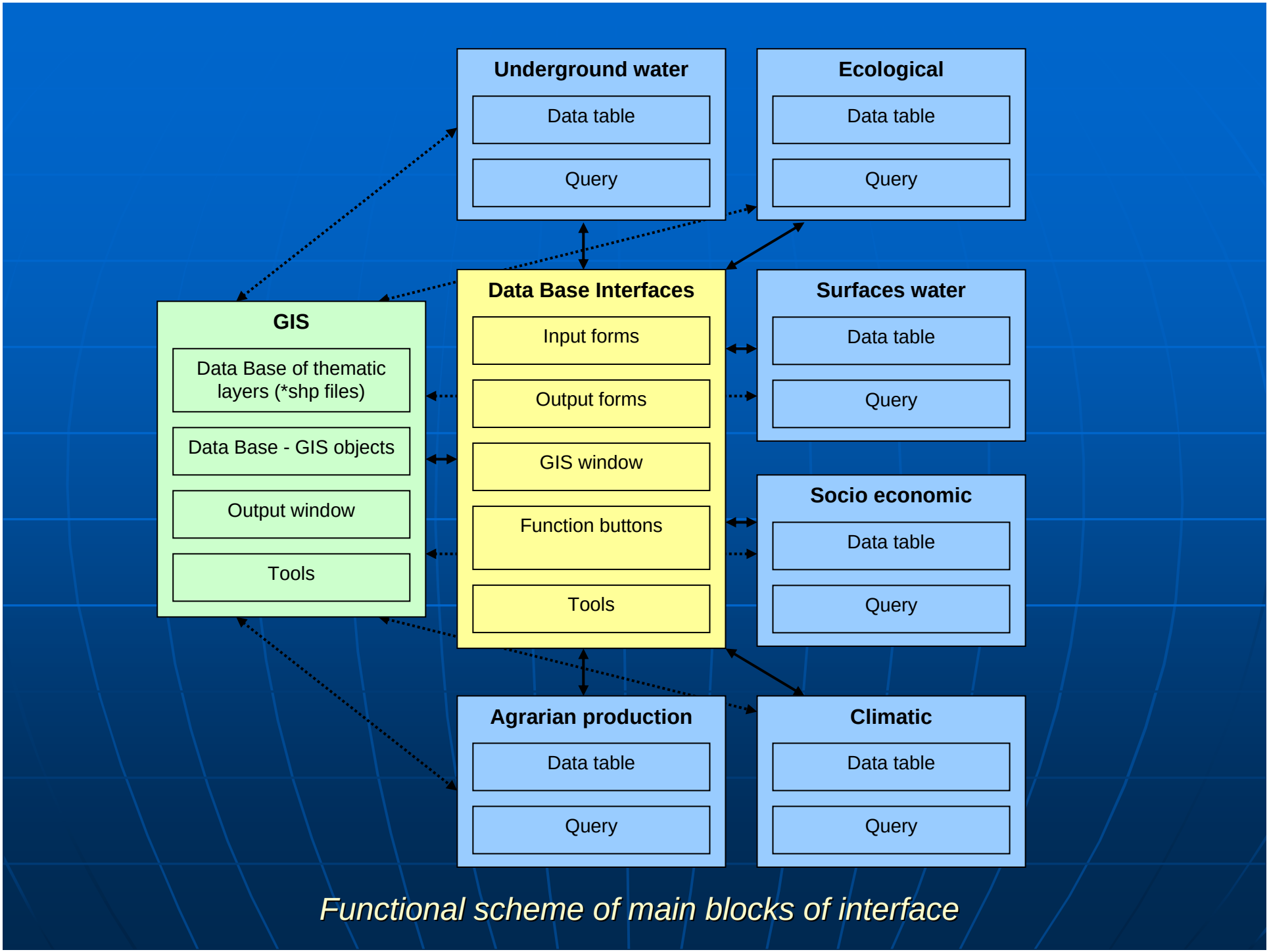
Components of databases, GIS and their binding to the interface

- The block of surface water,
- The block of underground water,
- The block of agrarian production,
- The climatic block,
- The ecological block,
- The socio economic block.

The power block is formed in structure of the surface water block and socio economic block of Data Base.



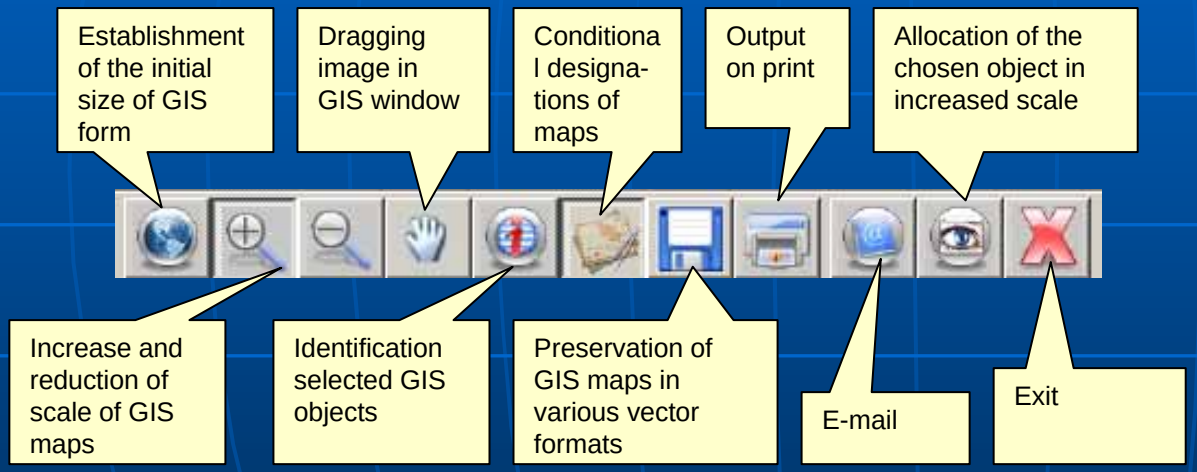
Select of blocks from interface



Functional scheme of main blocks of interface

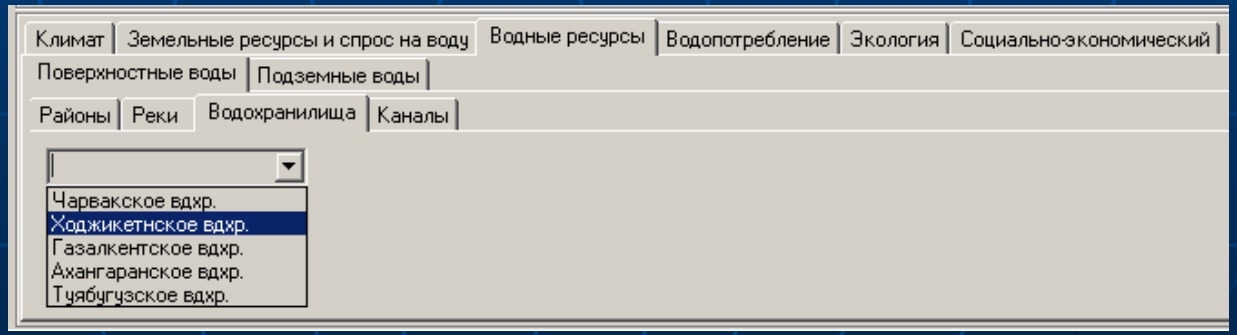
The basic purpose of the interface consists in effective coordination a functional component in uniform system.

The user interface of Data Base represents a complex of blocks (Data Base block, GIS block, form of input and output information) intended for service of the user: input, updating, updating and analysis of the information.

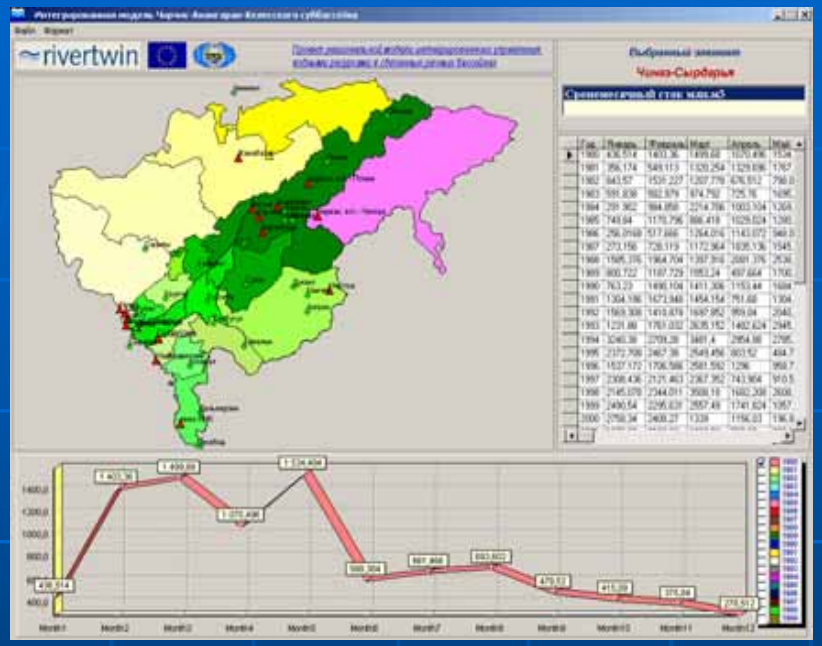


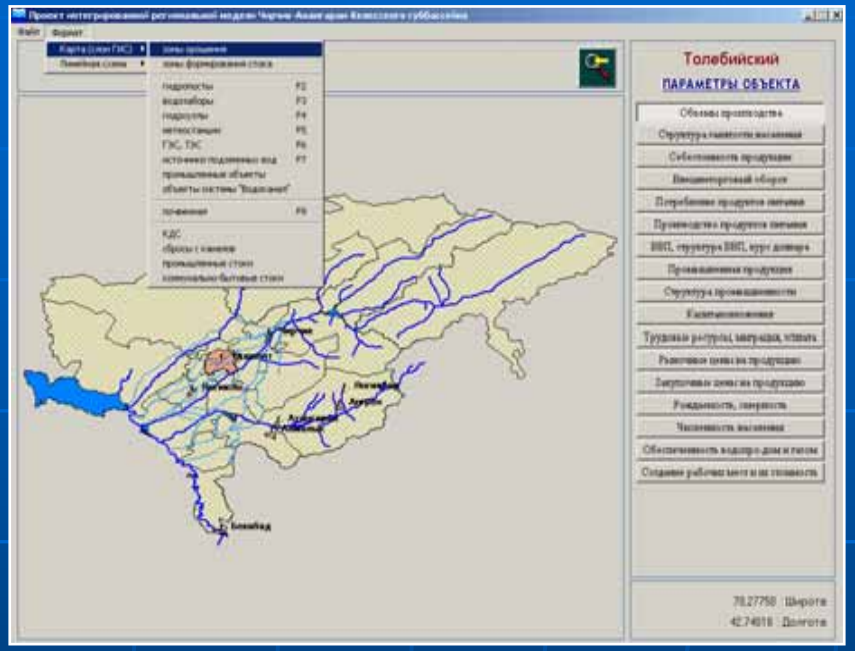
Buttons of the control panel

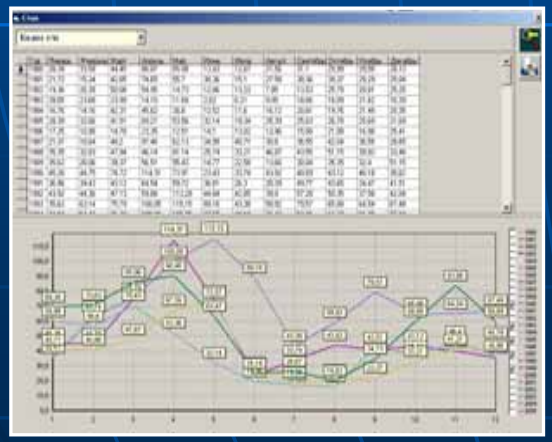
The control panel by objects

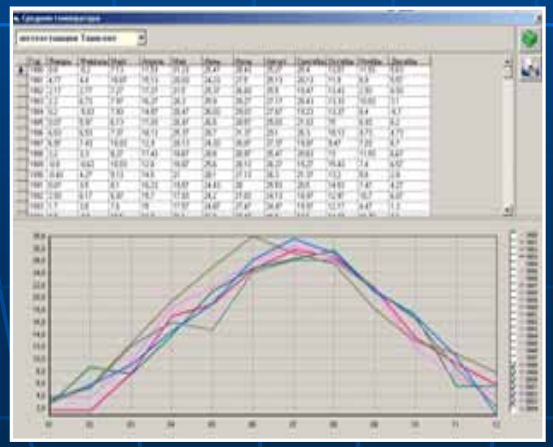


Tabulared and graphic reflection of the information

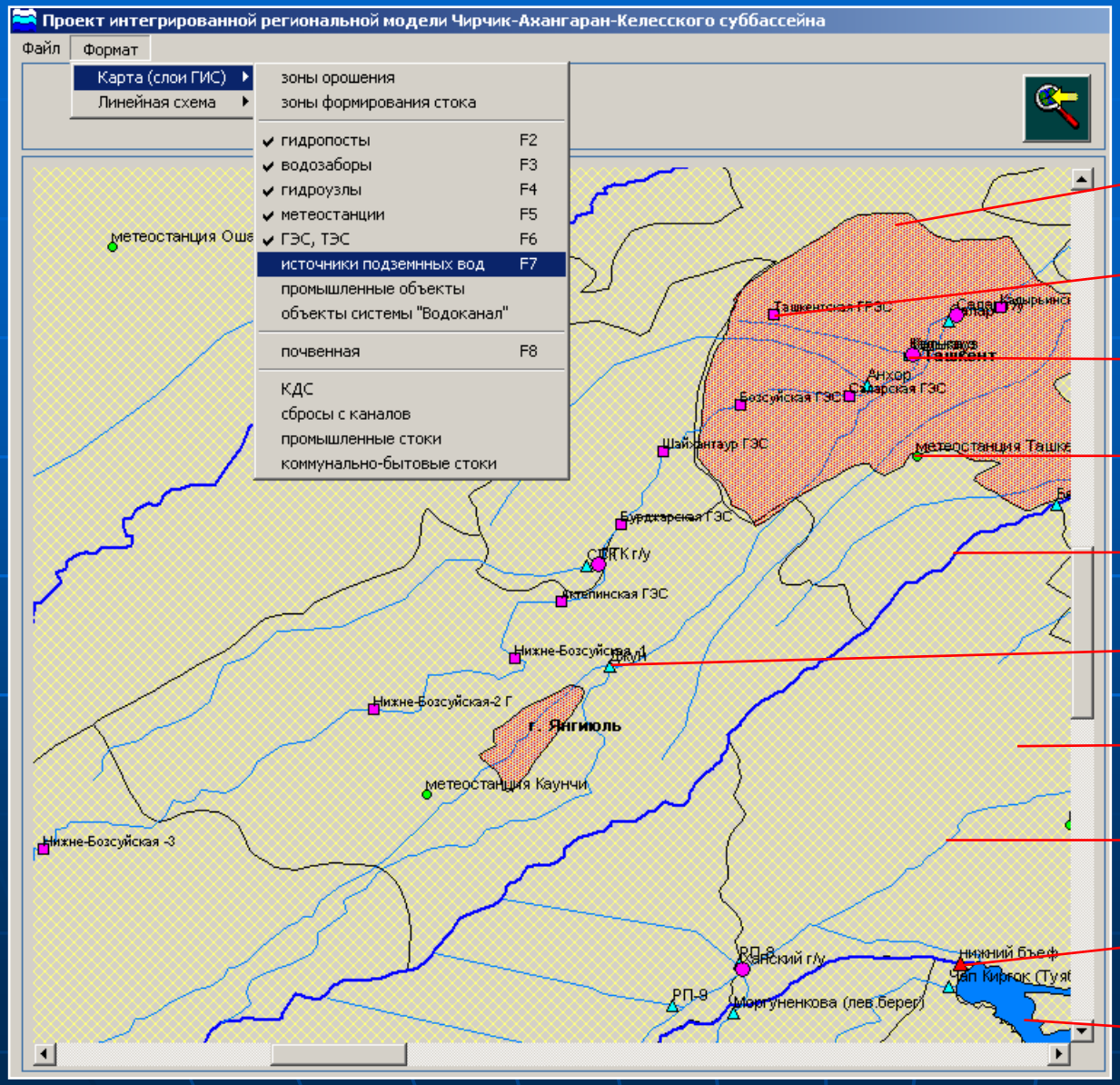








Viewing of GIS layers through the interface window



TOWNS

HPP, TPP

STRUCTURES

METEOSTATIONS

RIVERS

INTAKES

DISTRICTS

CANALS, COLLECTORS

HYDROPOSTS

RESERVOIRS

Tasks on 2006:

1. Connection to the interface of a modelling complex:

1.1.Sub-models of water resources : HBV-IWS; module of account of water consumption ; GAMS-module distributions of water resources between water users); QUAL2k and MONERIS; MODFLOW – ?

1.2.SLISYS-EPIC

1.3.Socio economic model / WEAP

1.4.CASIMIR - ?

2. An opportunity of playing of the scenarios:

socio economic

agricultural development

climatic

change of natural resources

change of ecological conditions

3. Translation of the interface on English language