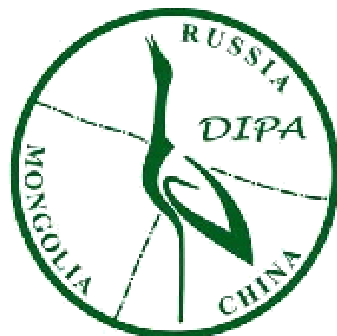




TO THE DEVELOPMENT OF THE PAs NETWORK IN NORTH-EAST PART OF DAURIA ECOREGION

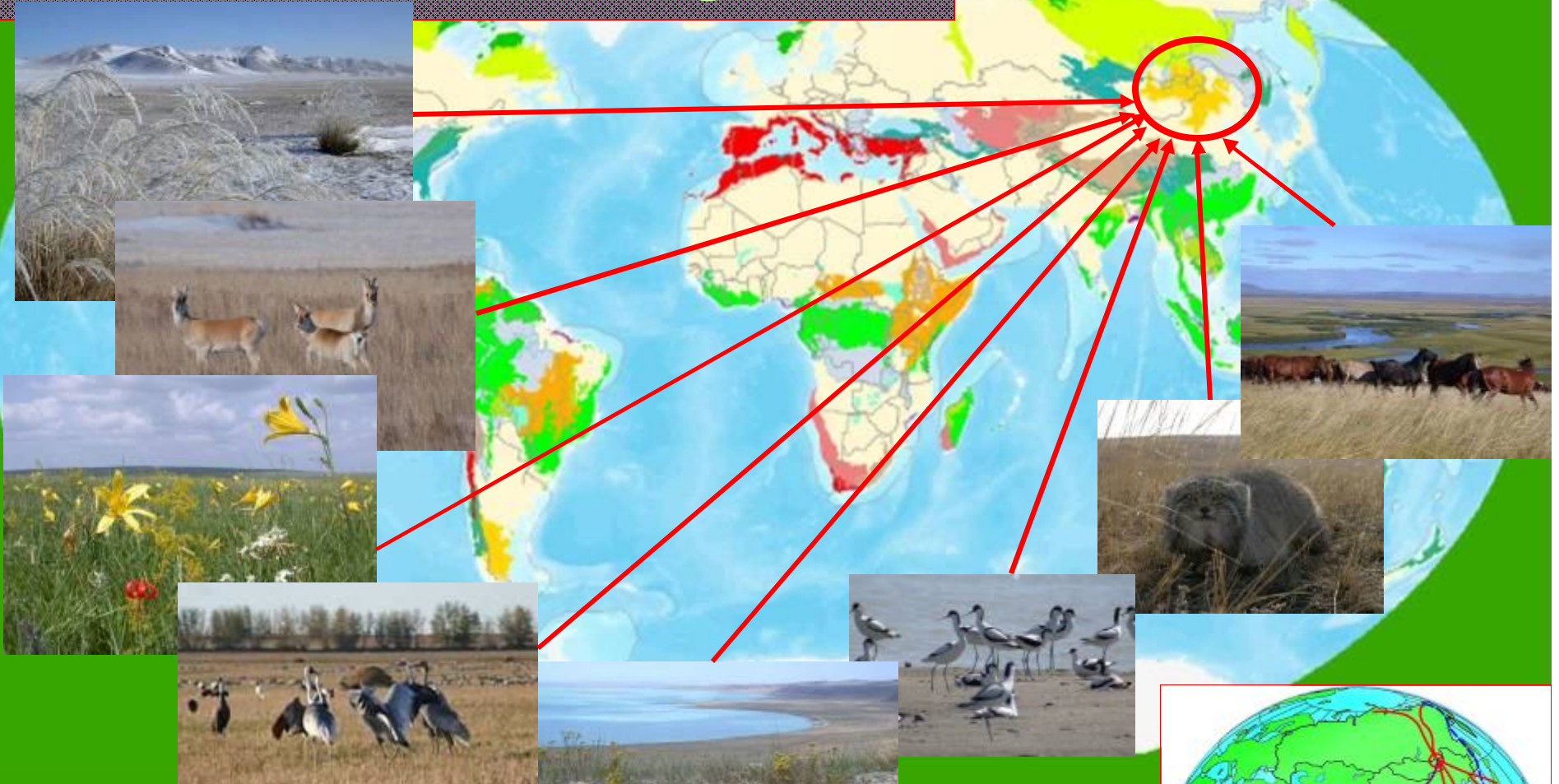
*Olga Kirilyuk,
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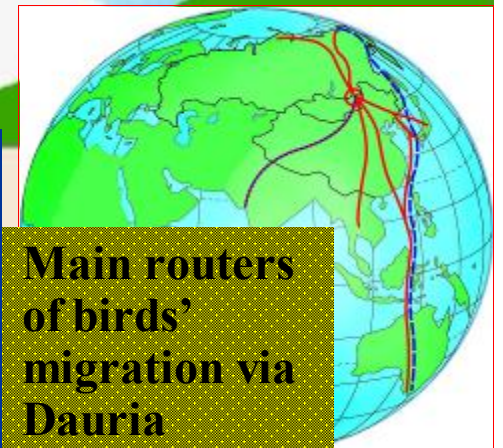


Dauria as ecoregion

Global 200
Network

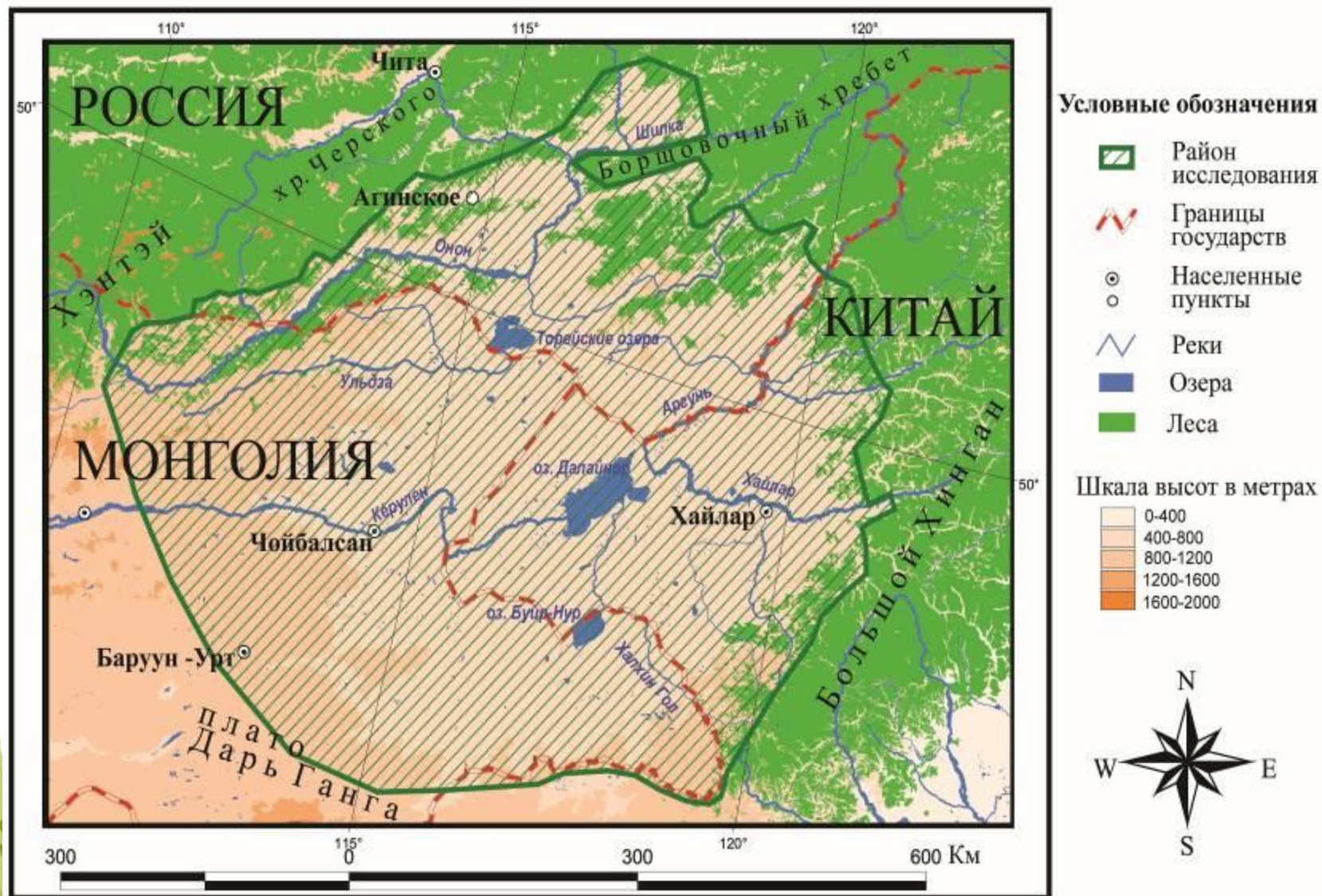


In 2000 World Wildlife Fund included Dauria steppes into the list of Global 200 – list of ecoregions of the planet, which have special importance for conservation life on the Earth.



**Main routers
of birds'
migration via
Dauria**

Schematic map of the study area



For many species Dauria steppes are key habitats.

For example in the region inhabited:

(after Goroshko et al, 2011)

- near 13 % of world population of Red-Crowned crane,
- near 80% - of Swan goose,
- near 66% - of Great Bustard,
- near 29 % - of White-napped Crane;
- more than 90% - of Mongolian gazelle



1994 - Chinese-Mongolian-Russian Dauria International Protected Area was found on the base of three reserves:



**-State Nature Reserve
Daursky (Russia)**

**-Mongol Daguur Strictly
Protected Area (Mongolia)**

**-Dalai Lake National
Reserve (China)**

For coordination of the DIPA the Joint Commission was founded, deputy heads of nature-protecting government departments of the three countries becomes the three co-chairmen of it. Organization of current activity of the International Reserve is carried out by the Work Group headed by directors of the reserves parts of DIPA.

Most important tasks of DIP A are:

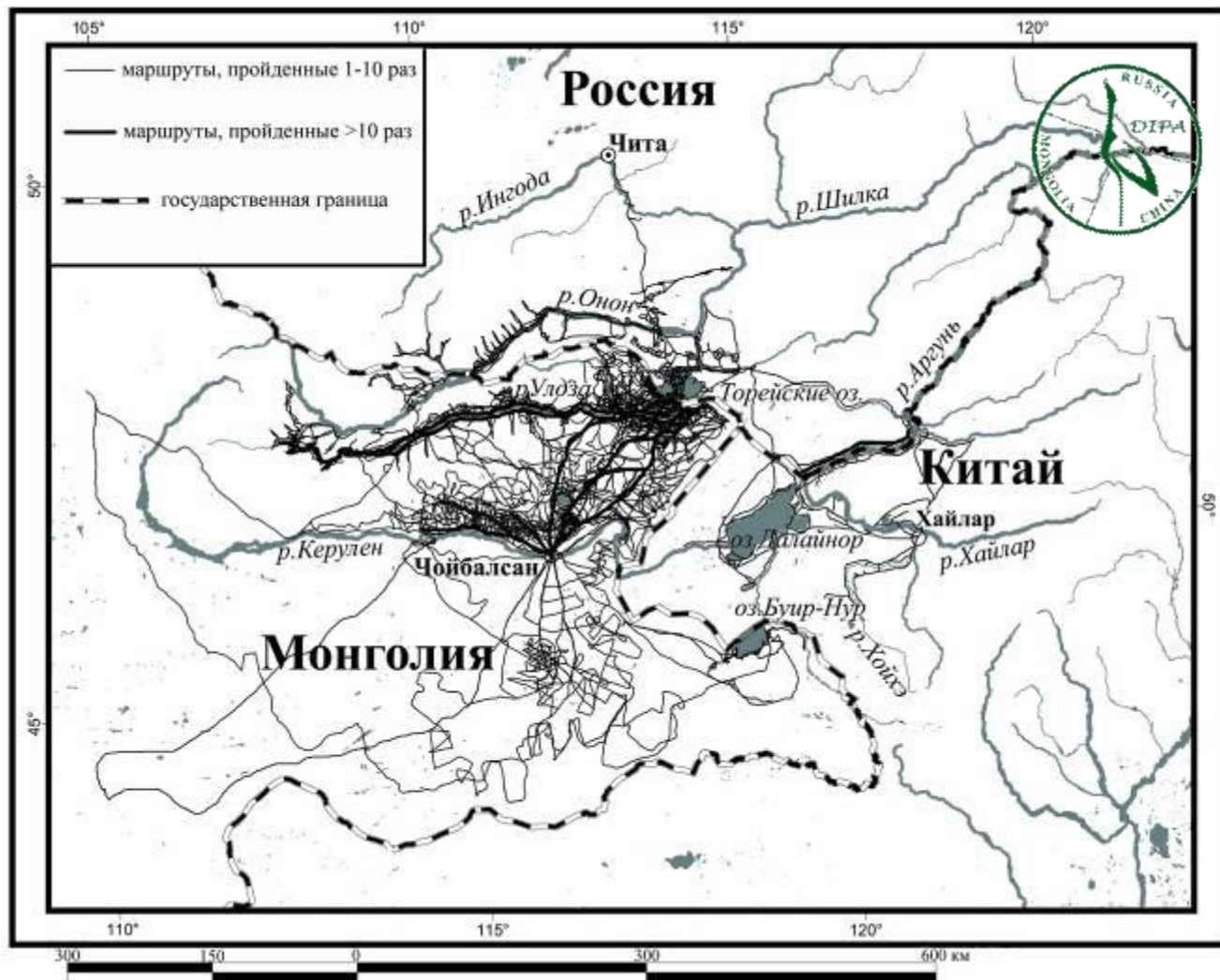
- investigation, conservation and restoration of biological diversity of natural ecosystems and preservation in pristine state the protected natural complexes of *Dauria* ecoregion;
- protection of migratory species of animals;
- investigation of processes and phenomena in typical and unique steppe, lake-steppe, forest and wetland ecosystems;
- elaboration and implementation of programs for conservation and restoration of fauna and flora species;



Most important tasks of DIP A are:

- promotion of cooperation between Russia, Mongolia, and China in the sphere of nature protection and non-exhaustible nature-use;
- monitoring of environment on concerted programs and methods;
- studying the influence of climatic change on the ecosystems' state, elaboration and realization of recommendations and programs for long-term biodiversity conservation in *Dauria* ecoregion;
- elaboration of a network of protected nature areas for providing long-term conservation of biodiversity in the ecoregion.
- environmental education of the people of *Dauria* ecoregion.

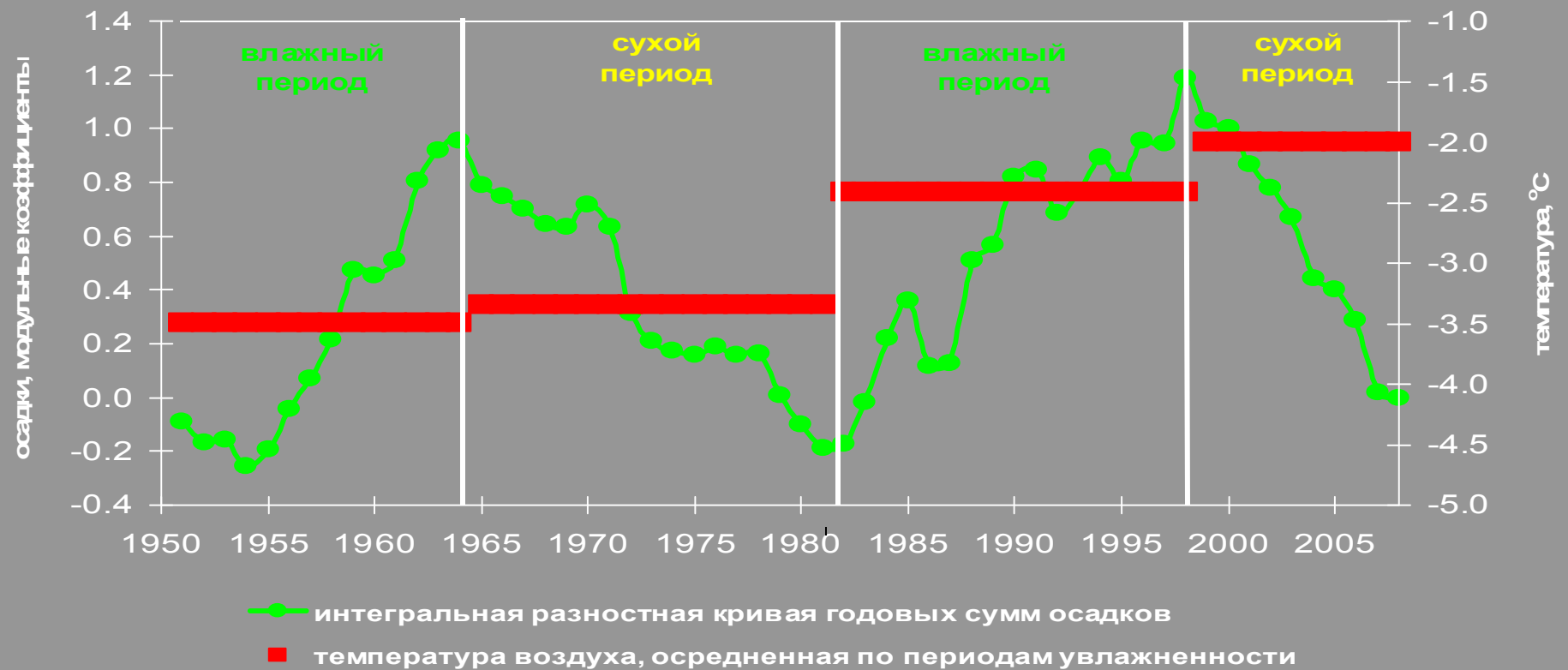




More than 90 joint scientific research expeditions have been held since the moment of the transboundary reserve's foundation. By now investigations have covered about 300,000 sq. km from Henty to the Great Khingan. The total duration of joint work was near 1,500 days

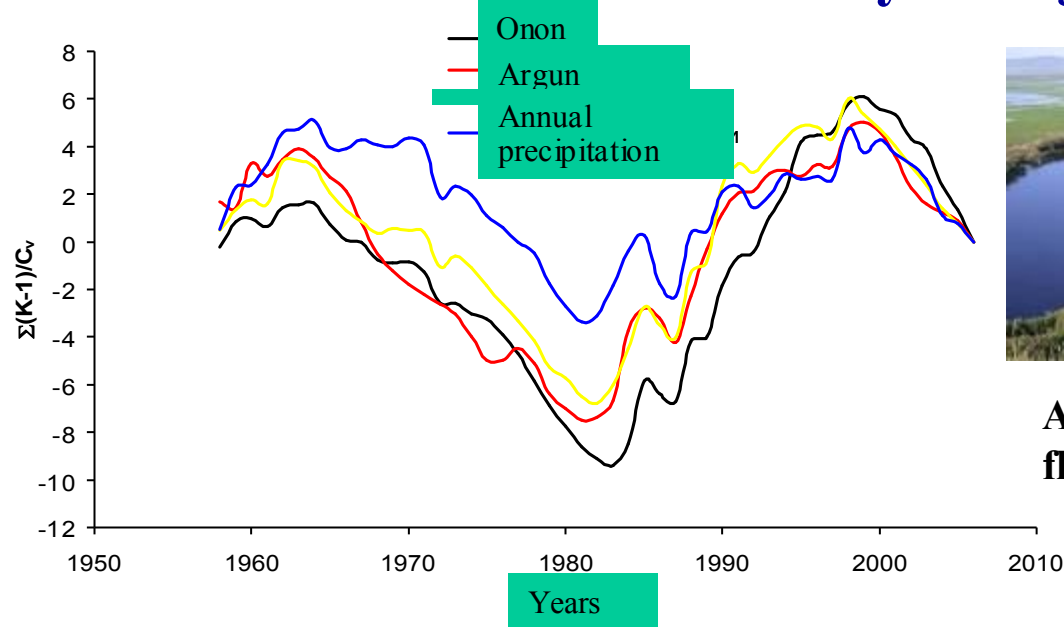


Cyclical change in annual rainfall in Daurian ecoregion (green) (by Obyazov, 2007)



Red lines – air temperature, averaged over the moisture period

Ecosystems in Dauria critically changes from wet to dry period



Argun river at high flow



Argun river at low flow

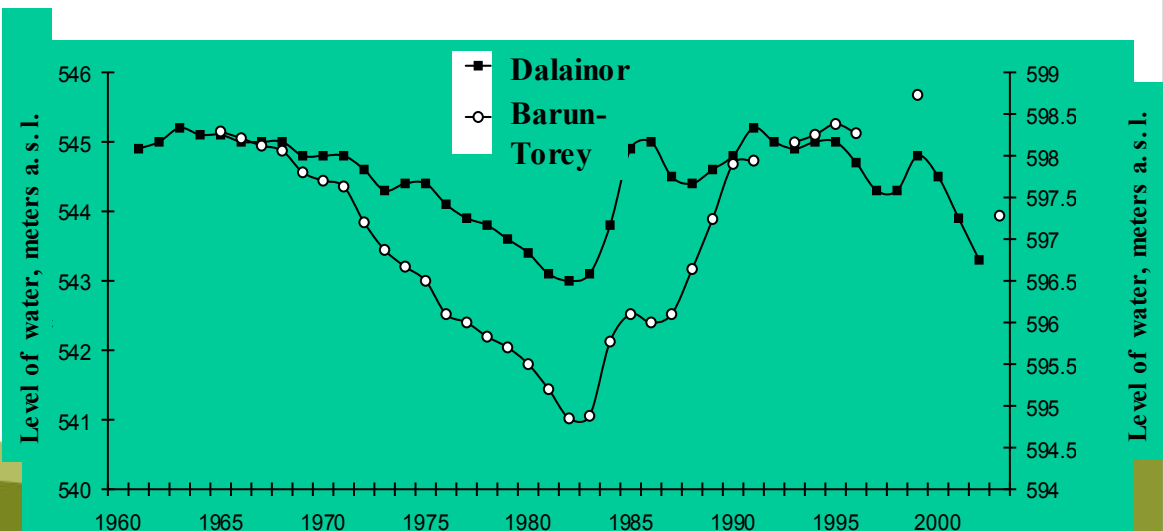
Difference integral curves of average annual precipitation in Transbaikalia and flow of Onon, Argun and Shilka rivers (by Obyazov, 2008).



Barun-Torey lake at high flow

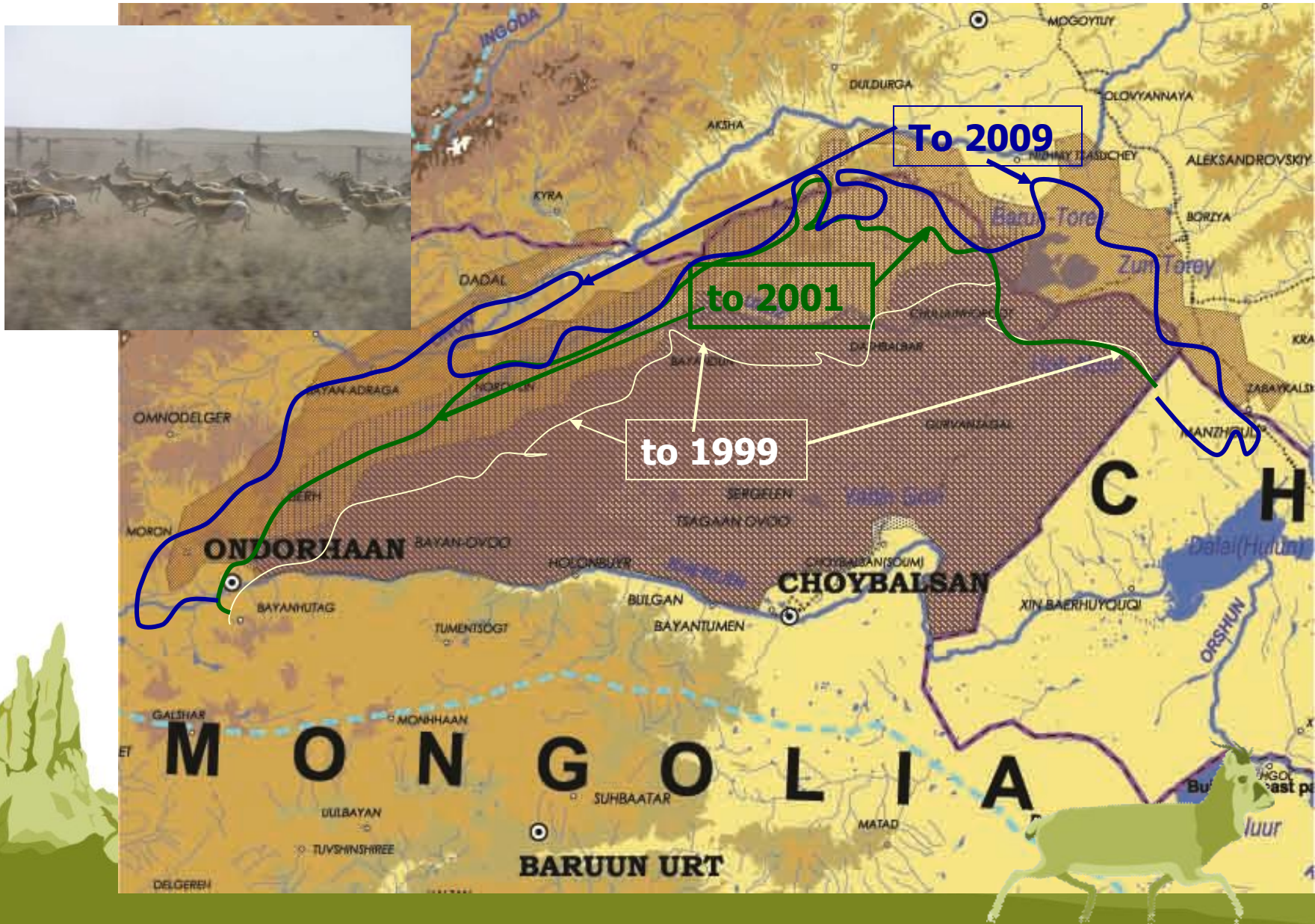


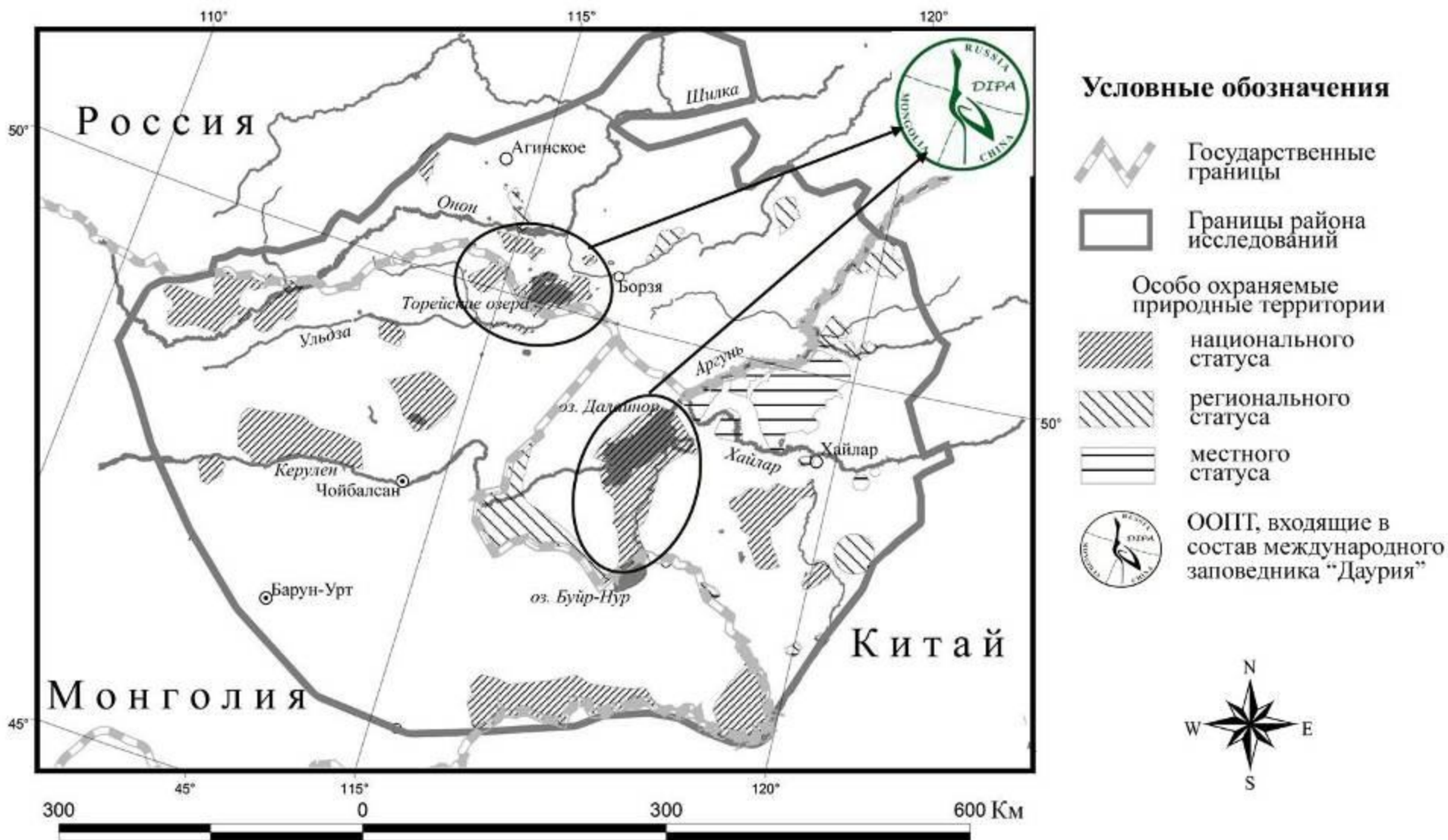
Barun-Torey lake at low flow



Changes of water level in Dalainor and Barun-Torey lakes

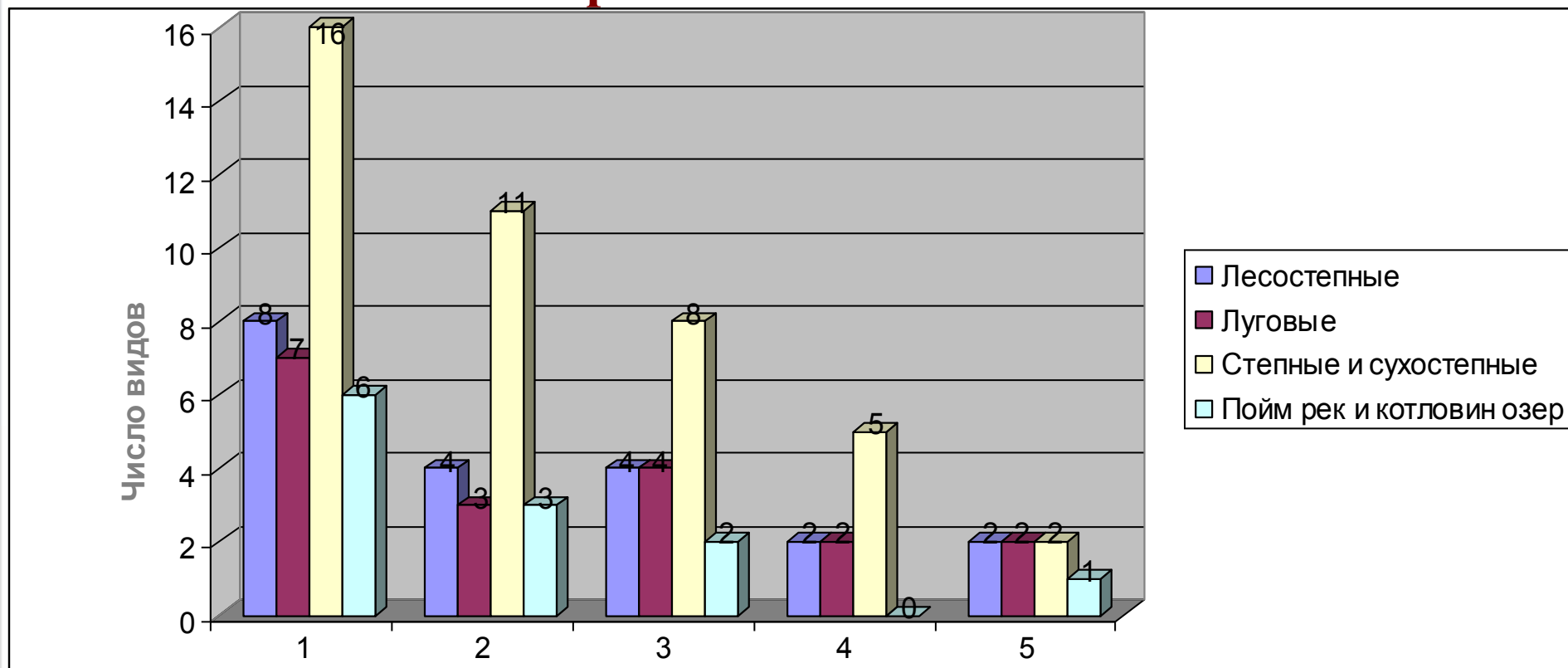
Expanding territory of North-Kherlen population of Mongolian gazelle in 1994-2009 (by V. Kirilyuk, 2009)





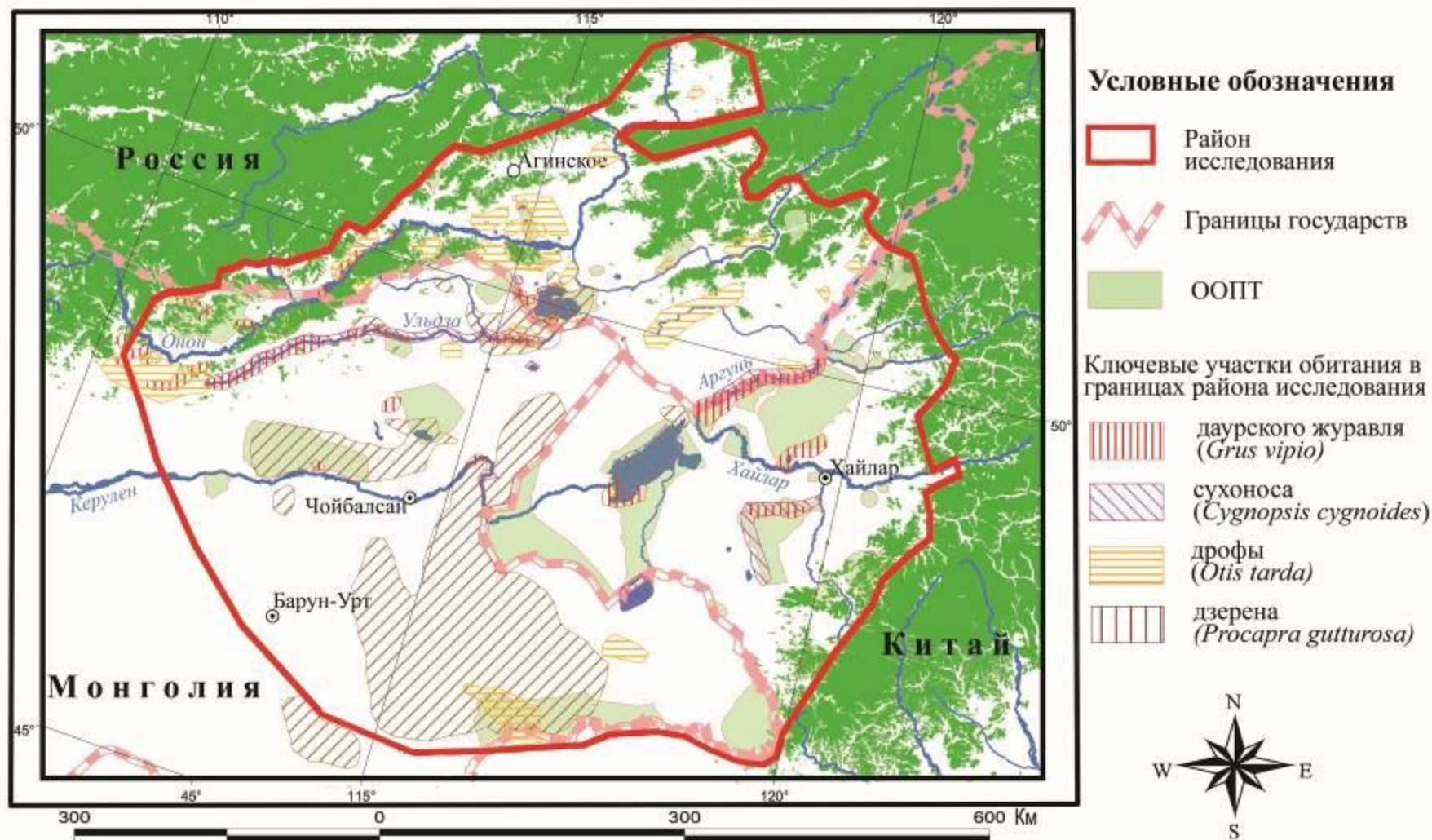
The PAs network in Dauria (% of the PA's area in the country):
Russia – 7.1%; Mongolia – 11.9%; China -27.9%

Presence at the PAs with different status of the main types of the plant communities

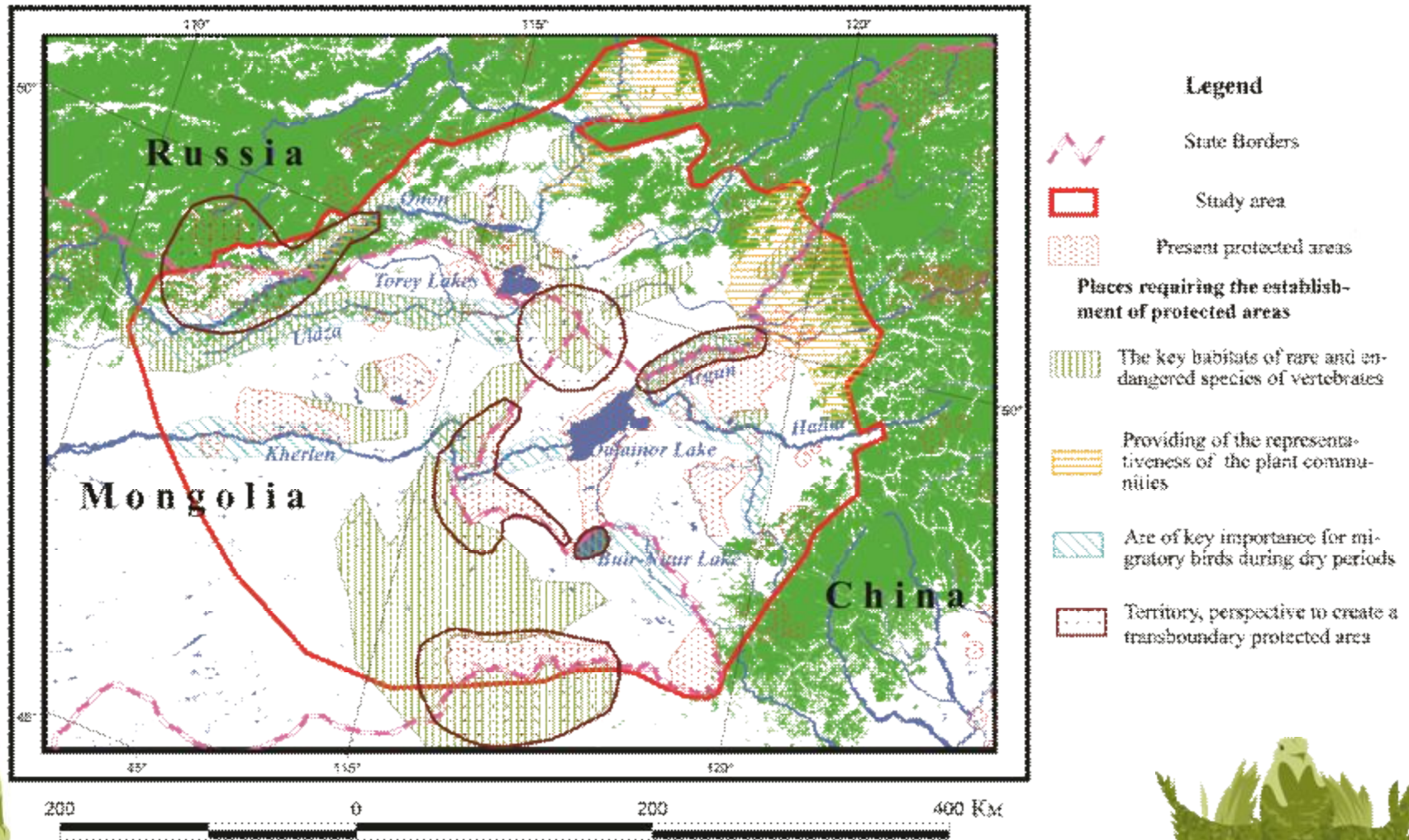


1- общее число выделенных типов; присутствуют: 2 - на ООПТ национального статуса, 3- на ООПТ регионального и местного статуса, 4 –на ООПТ национального и регионального статуса; 5 – не представлены на ООПТ

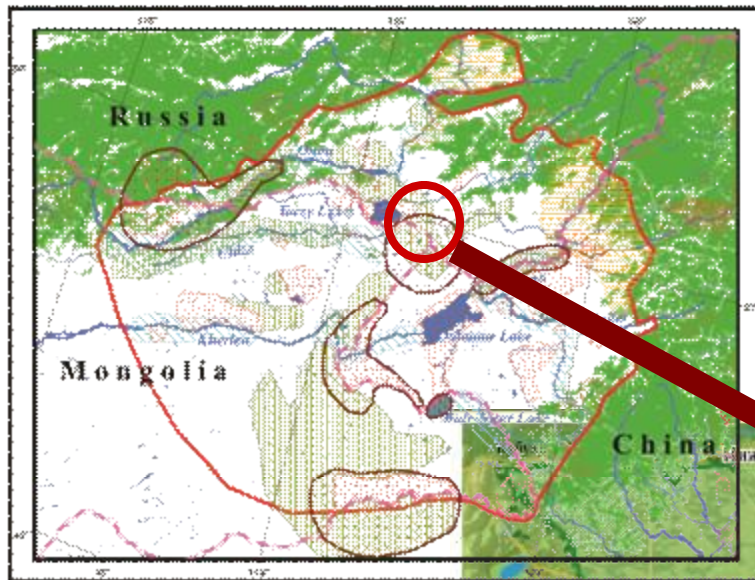
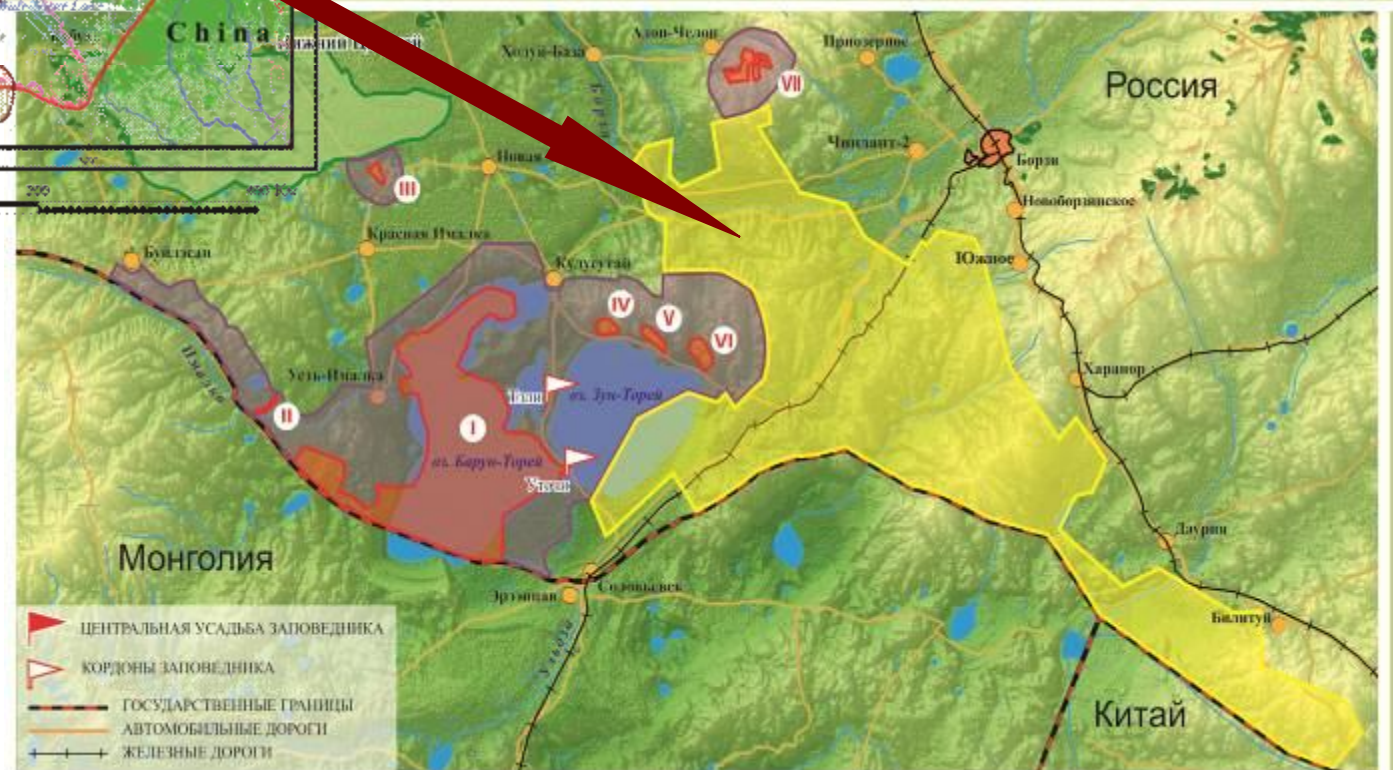
Major places of habitat within the boundaries of the study area of White-naped Crane, Swan Goose, Great Bustard and Mongolian Gazelle



Enlarging of PA Network



The *Valley of Dzeren* Federal Refuge (was founded in 2011)



The *Semyonovsky* Regional refuge (was founded in 2011)

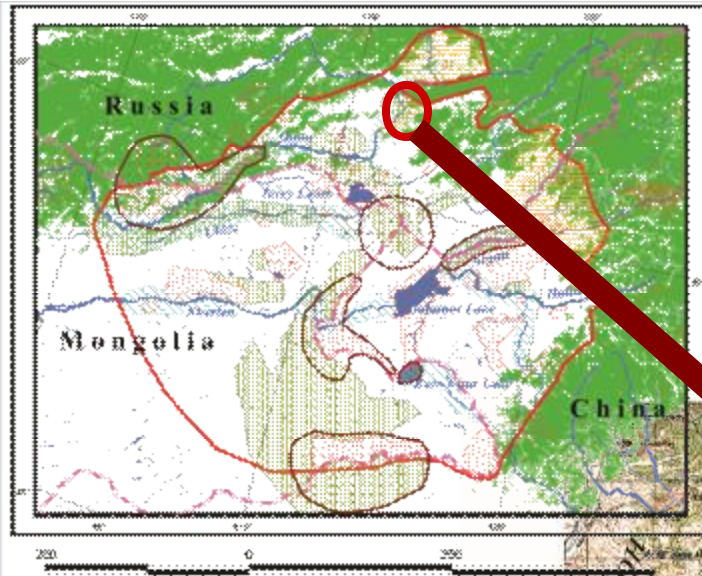
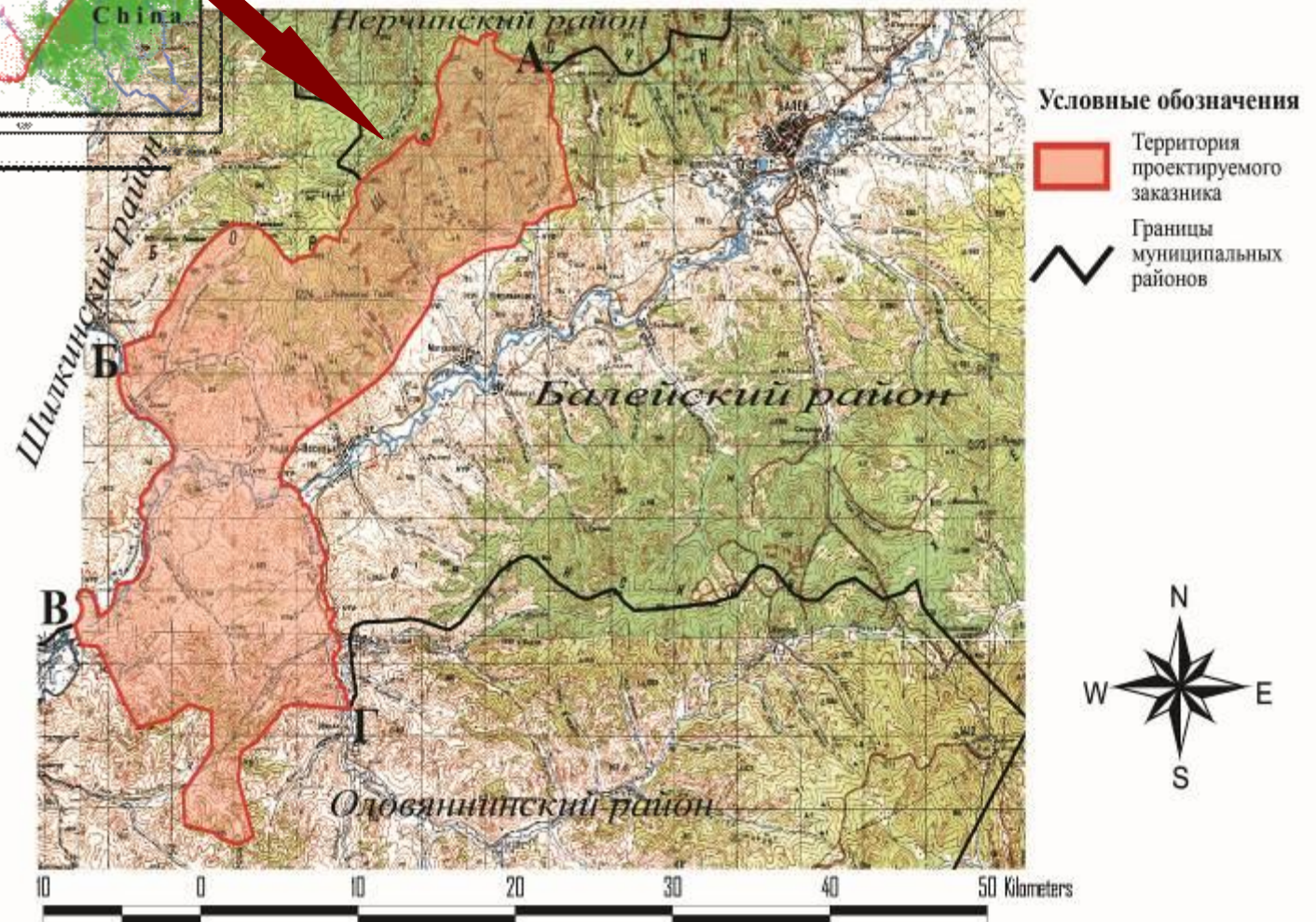
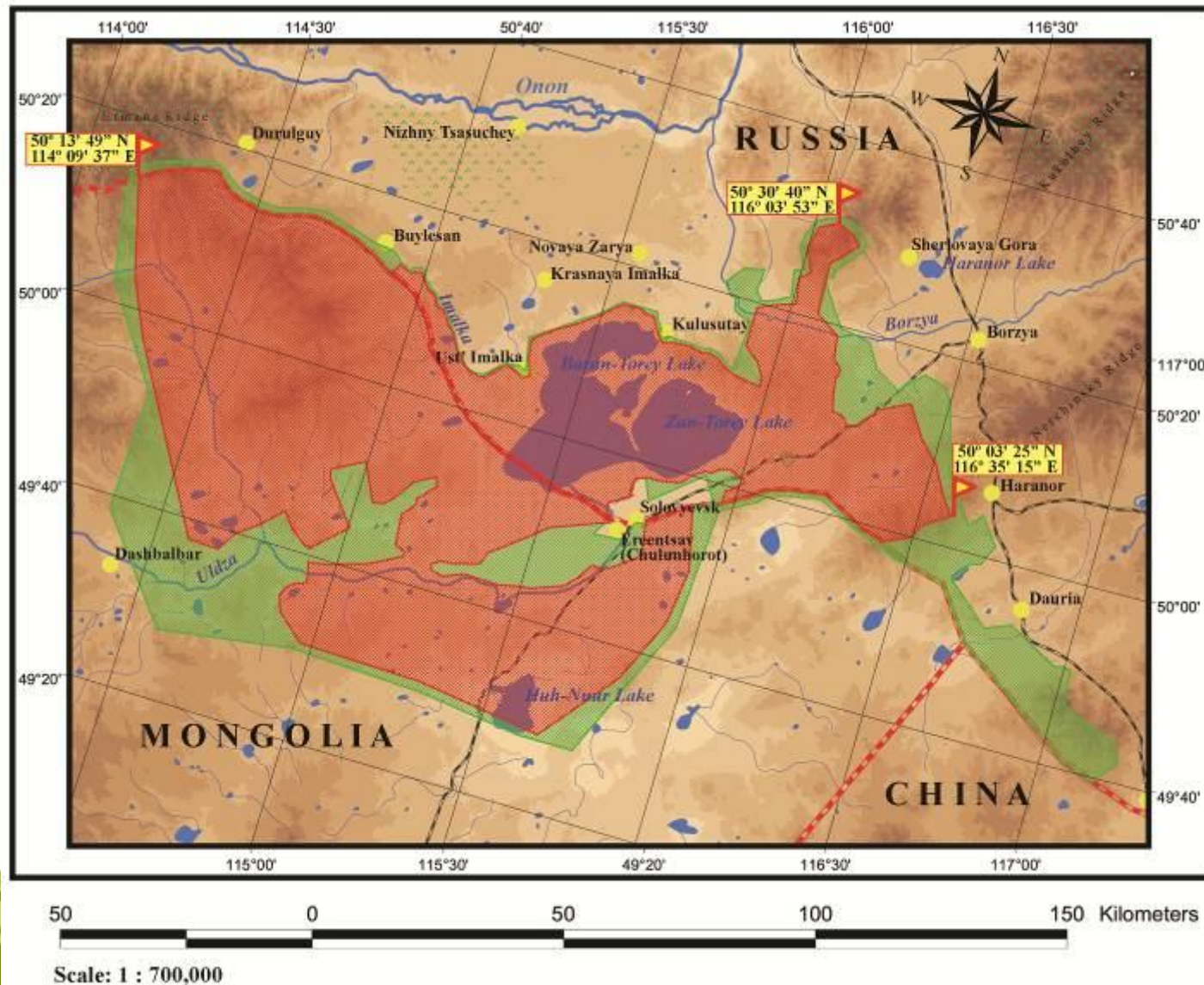


Рисунок 1. Размещение проектируемого природного заказника регионального значения "Семеновский" в Балейском районе

Projecting of World Heritage Site “Landscapes of Dauria”

Map with the exact indication of the boundaries of the "Landscapes of Dauria" nominated proper





Thank you for attention