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Importance of the basin approach for promoting the sustainable development and ecological monitoring

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United Nations
Educational, Scientific and
Cultural Organization



Man and
the Biosphere
Programme



Venice Office
Regional Bureau for Science
and Culture in Europe



BIOSPHERE RESERVES OF THE VOLGA RIVER BASIN



Students of the Kazan State University in the forest.



Forest in the Kazan Biosphere Reserve.



Lake in the Kazan Biosphere Reserve.



People walking in the Kazan Biosphere Reserve.



River in the Kazan Biosphere Reserve.



View of Kazan from the Volga River.



Field in the Kazan Biosphere Reserve.



Bird in the Kazan Biosphere Reserve.



Lake in the Kazan Biosphere Reserve.



Tractor in the Kazan Biosphere Reserve.



Lake in the Kazan Biosphere Reserve.



Lake in the Kazan Biosphere Reserve.

The following website is highly recommended for the map. It is an online encyclopedia of biosphere reserves of UNESCO and other organizations participating in the project, supporting the legal status of reserves.

Biosphere Reserve	Biosphere Reserve (number, year)	Area, km ²				Location
		total	land	water	terrestrial	
Volga Basin	515	81405	1360	4750	2750	Western region
Kazanka	519	3078	3078	0	0	North region
Atchinsk	524	3071	3071	0	0	Atlantic region
Volzhskaya Steppe	530	2510	2510	0	0	Steppe
Samarskiy Lyubitel	531	2000	2000	0	0	Arctic region
Donets	532	37100	15700	0	0	Arctic region
Yaroslavl	534	12000	12000	0	0	Arctic region
Volzhskiy Zapovednik	535	3700	3700	0	0	Arctic region
Volzhskiy	536	38100	38100	0	0	Arctic region
Chirchik	2005-2007	2100	2100	0	0	Arctic region
Volzhskiy Zapovednik	2008	10000	10000	0	0	Arctic region
Ural Biosphere Reserve	511	36000	36000	0	0	Arctic region
Yuzhno-Ural'skiy	512	16000	16000	0	0	Arctic region
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LEGEND

- Biosphere reserve**: Green outline
- core zone**: Red outline
- buffer zone**: Orange outline
- transition independent zone**: Yellow outline
- Nazargah**: Green circle
- Suzalar**: Blue circle
- National Park**: Purple circle

Landscape

- Boreal forest, mixed forest (woodland and pasture), forest (deciduous)
- Steppe
- Arctic tundra
- Mountain forest
- Mountain forest, rocky cliffs and the forest, woodland forest, and pine forest forest
- Parkland, woodland, forest (woodland and pasture), mixed forest, mixed forest, and woodland forest
- Mountain forest, mixed forest, and woodland forest
- Mountain forest, mixed forest, and woodland forest
- Mountain forest, mixed forest, and woodland forest

--- Border of the Volga basin



Astrakhanskiy Biosphere Reserve



Astrakhanskiy Nature Reserve was founded in 1919 with the aim to preserve and study the habitual flow of natural processes and phenomena, including gene pool of flora and fauna of certain species and communities of plants and animals, as well as both typical and unique ecological systems of the Volga delta.

In 1984 the Reserve has been approved as a UNESCO biosphere reserve. In 1976 the Volga delta, including Astrakhan Reserve, has been included into the list of the Ramsar sites as a Wetland of International Importance named "Volga Delta".



Location: Russia, Astrakhan region. It's located in the lower reaches of the Volga delta. The Reserve consists of three sites: Damchikskiy (1), Trekhizbinskiy (2), Obzhorovskiy (3).



Administratively these sites are located on the territory of Kamzyakskiy, Ikryaninskiy and Volodarskiy districts of the Astrakhan region.

The administrative office of the Reserve is located in Astrakhan.



Researches:

Scientific researches in the Astrakhanskiy reserve have been conducted since 1920-th. They include: phonological, geobotanical, ornithological researches since 1920-th; meteorological station since 1937; geomorphological, hydrobiological, parasitological and theriological researches since 1930-th; regular hydrological observations since 1947; regular ichthyological researches since 1950-th; entomological researches since 1960-th; regular wide-scale ornithological researches since 1960-th; station of integrated background monitoring since 1987.

Protection:

The Department of Protection of the Reserve performs safeguarding of the reserve's territory. Besides that, the other functions of the department are supporting of forests, fighting of fires and conducting other environmental conservation tasks.

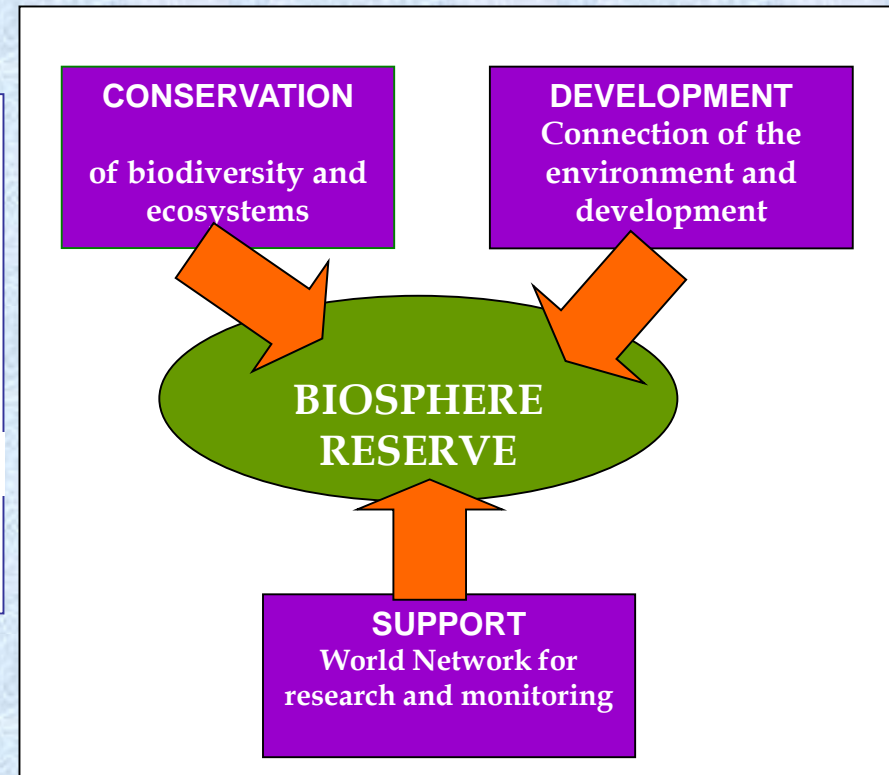
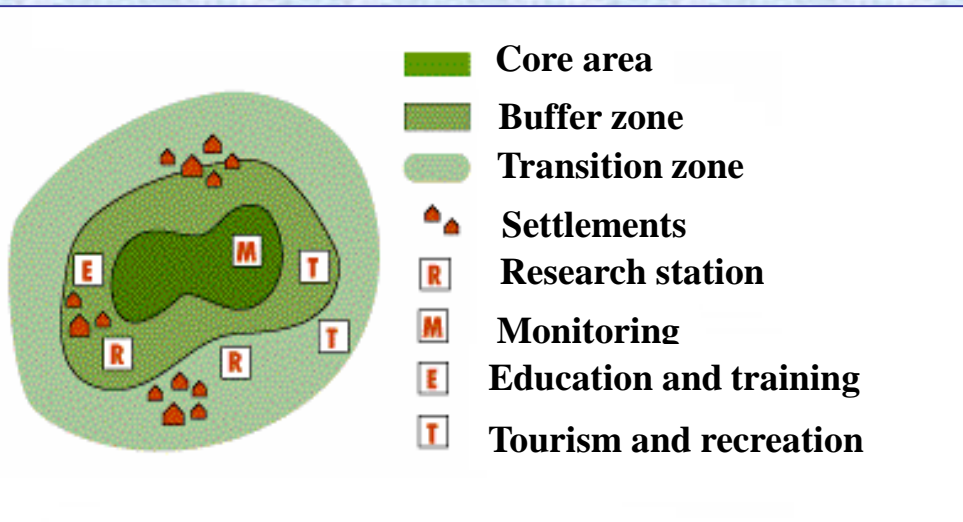


Ecological Education:

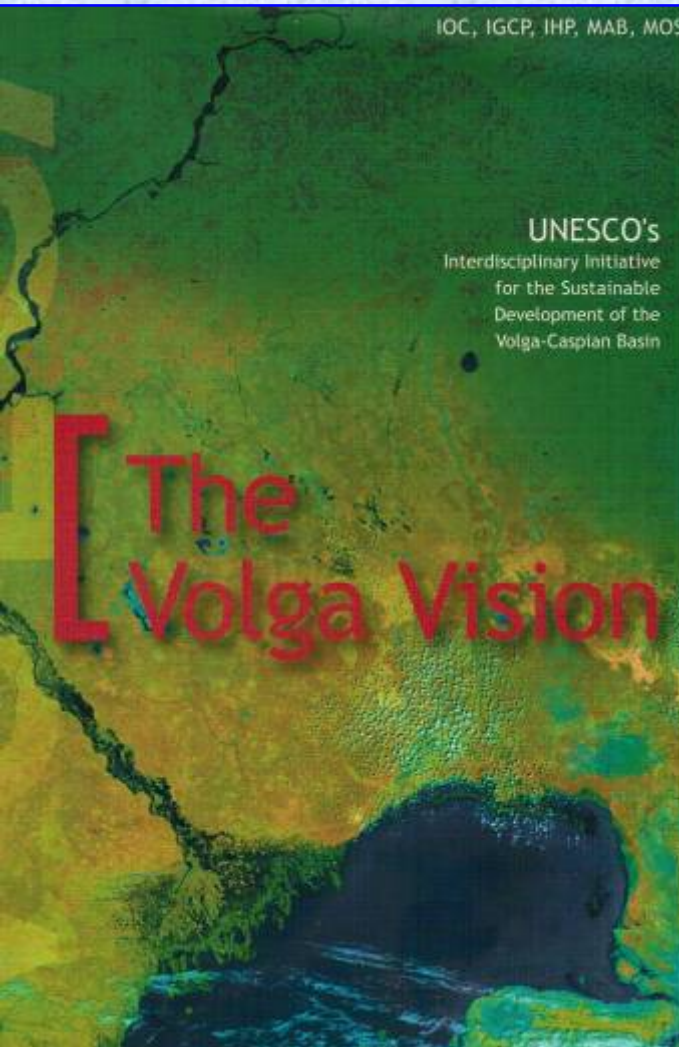
The Department of Ecological Education of the Reserve focuses its activity on increase of ecological literacy and culture of the population. Educational work in ecology is directed on the people at large: rural and urban population; children and adults; ranking officers from authorities, management and business.



Model scheme of zonation of the Biosphere Reserve and its functions



International projects for sustainable development of the Volga River Basin



Report D2

CABRI—Cooperation along a Big River:
Institutional coordination among stakeholders
for environmental risk management in the Volga Basin

Environmental Risk Management in the Volga Basin:

Overview of present situation and challenges in Russia and

Moscow
2006

United Nations
Educational, Scientific and
Cultural Organization

Hydrological Programme (IHP)

World's Large Rivers Initiative

WLRI

...Rivers' Contribution to Water Security

A contribution to UNESCO'S International Hydrological Programme (IHP)

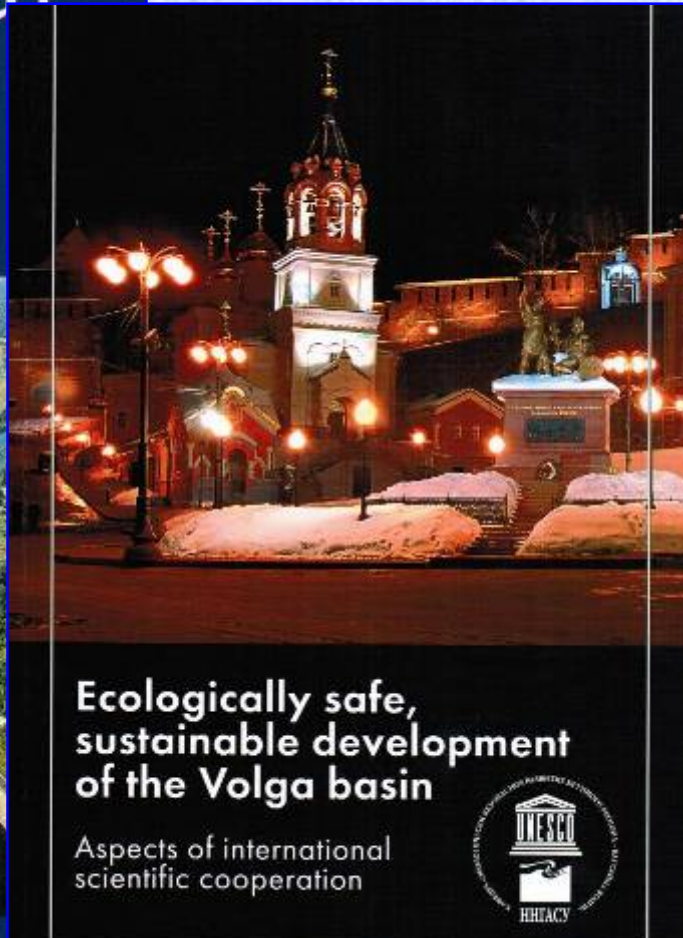
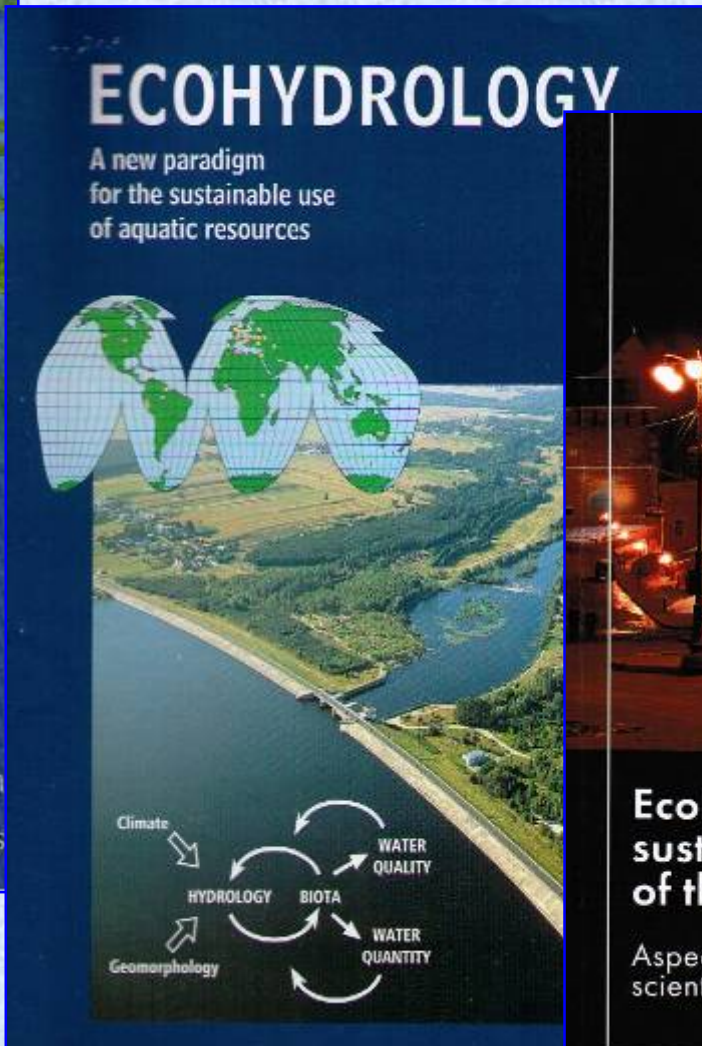
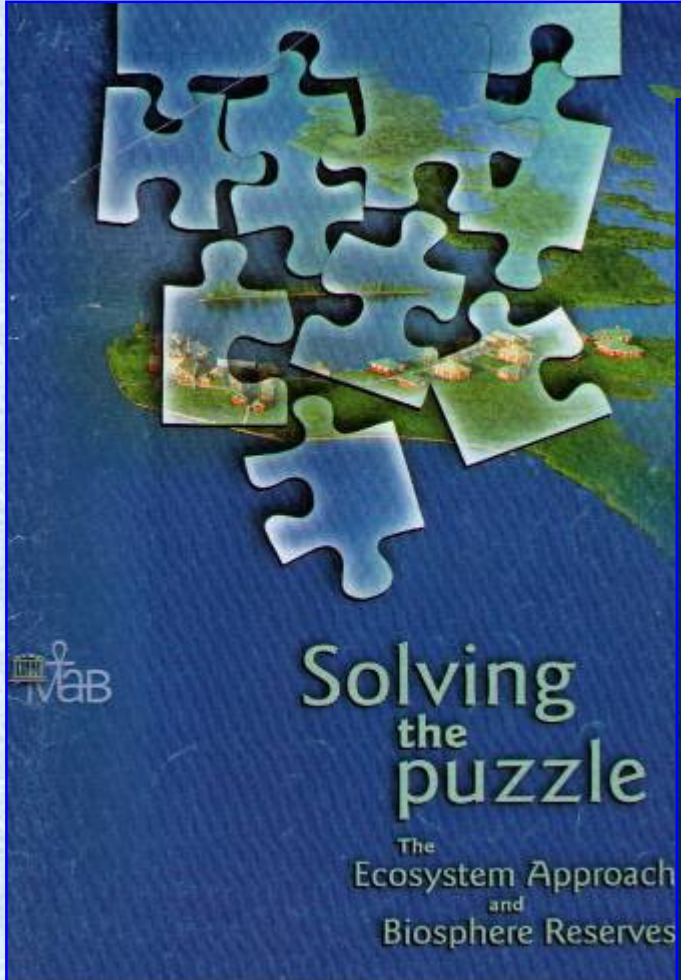
WORLD'S LARGE RIVERS
INITIATIVE

Prof. Dr. Helmut Habersack

BOKU - University of Natural Resources and Life Sciences Vienna

World's Large Rivers Initiative WLRI

The ecosystem approach for conservation of biodiversity and sustainable development of terrestrial and aquatic ecosystems



Many thanks for your attention

