

Narew River Valley

- ✓ length 484 km (448 km in Poland)
- catchment basin 75.1 thousand km² (53.8 thousand in Poland)
- ✓ springs in the Białowieża Primaeval Forest
- ✓ confluence with the Vistula river near Warsaw



Narew National Park

- ✓ established in 1996
- √ area: 7350 ha

- ✓ lenght of valley: 35 km
 ✓ 41 plant communities
 ✓ bird area of European importance, registered as IBAE Poland 098
 ✓ proposed to be included on the list of RAMSAR sites
- proposed to be included together with the Biebrza National Park on the World **Heritage List of UNESCO**



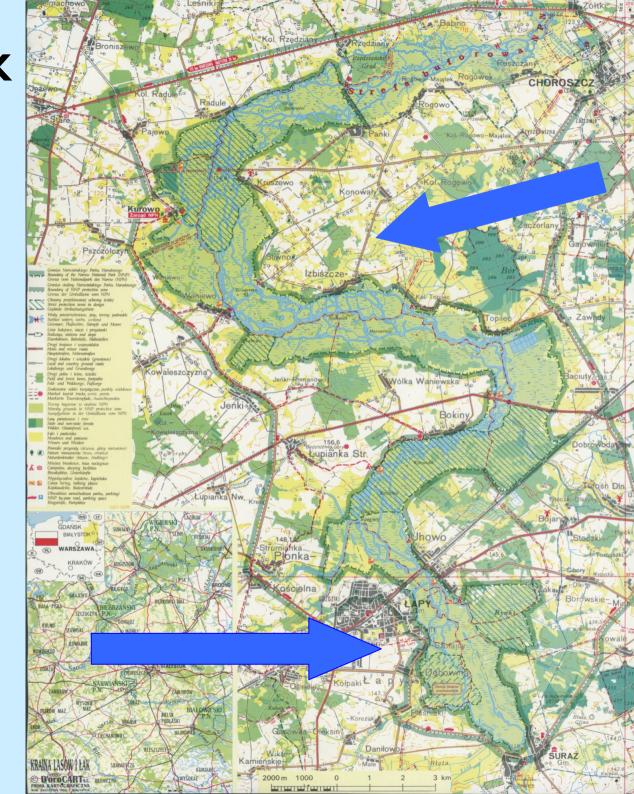
Narew National Park

Northern part

peat accumulation, several equally important riverbeds, low accessibility

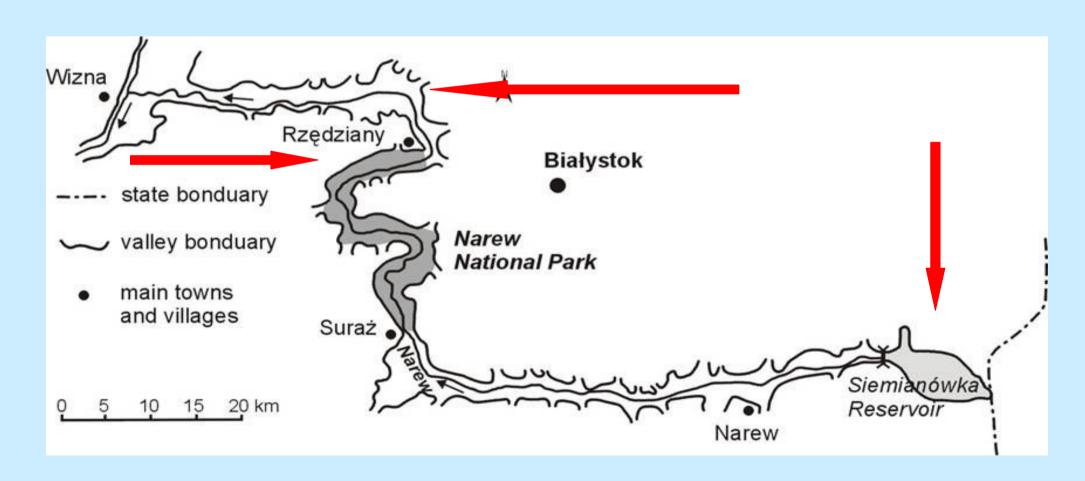
Southern part

no peat accumulation, one major riverbed, better accessibility



human impact

- ✓ canalisation of about 50-km section of the river below the **National Park**
- canalisation the river in northern part of the National Park
 construction and filling of the dam reservoir Siemianówka in 1993



1970s





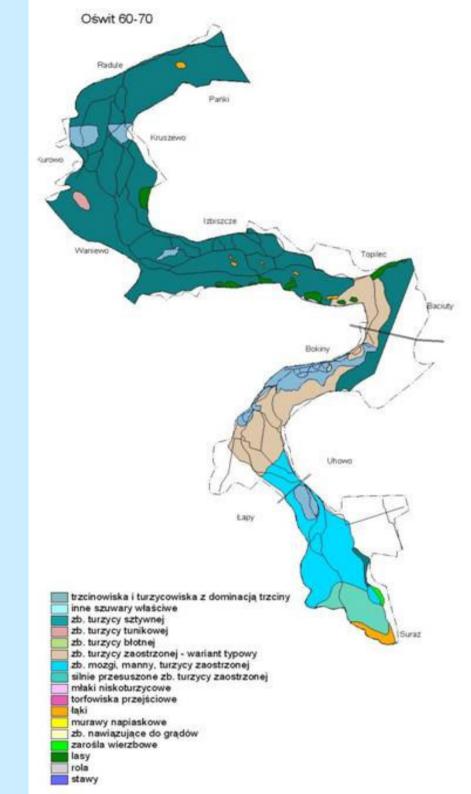




2003

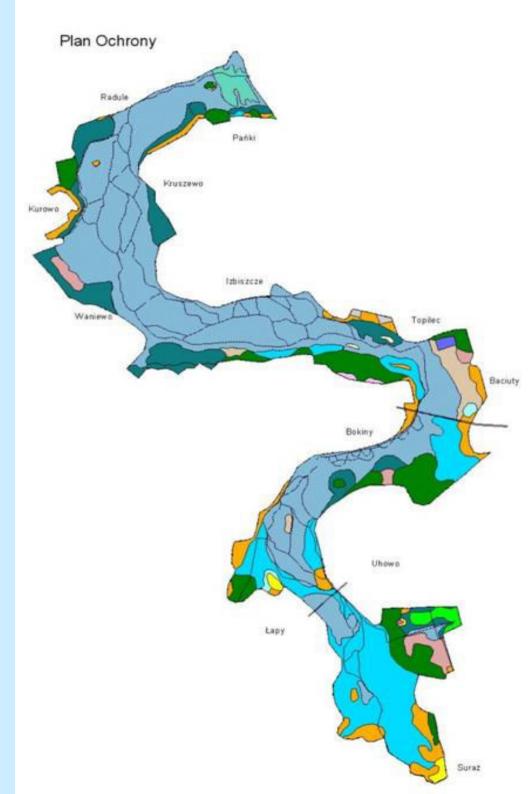
Vegetation of Narew National Park in 70s

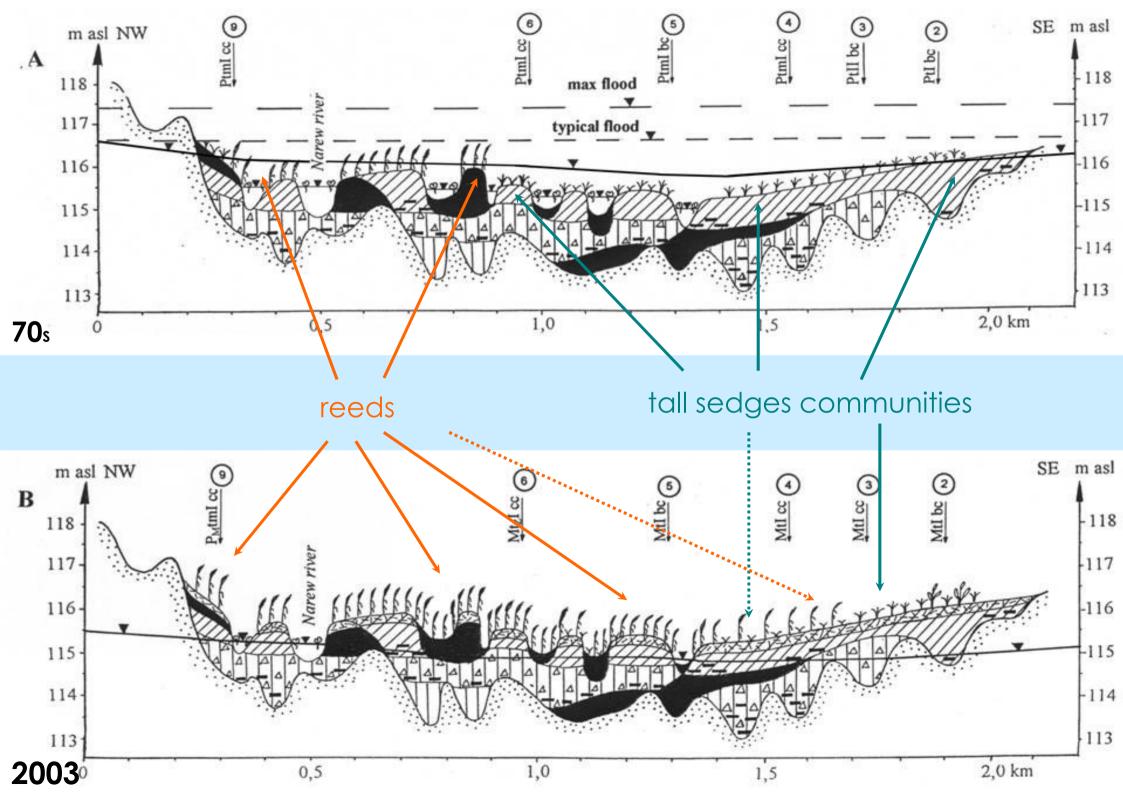
- permanent wetland condition
- mowing and grazing on the whole area
- domination of tall sedge communities (Caricetum elatae) in the northern part
- domination of tall sedge community (Caricetum gracilis) in the southern part
- tall helophyte communities (Phragmition) mainly in the closest vicinity of the river
- locally sedge-moss communities at the valley margins



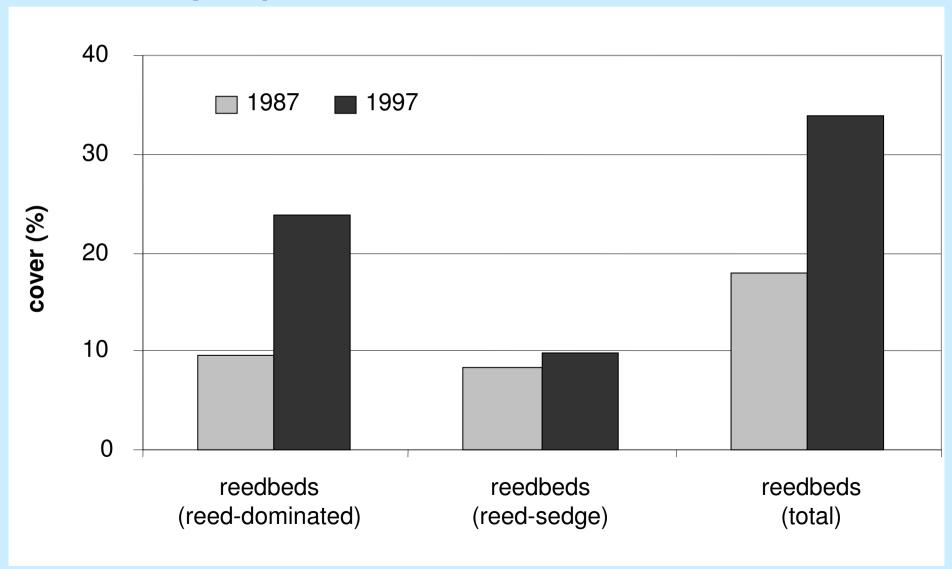
Vegetation of Narew National Park in 2000

- peat decomposition process
- mowing and grazing mainly in southern part
- decrease of the area of tall sedge communities (Caricetum elatae, Caricetum ppropinquatae),
- disappearance of sedge-moss communities (Caricetum diandrae)
- increase of reedbeds area (Phragmitetum communis, Glycerietum maximae, Phalaridetum arundinaceae) and drained tall sedge communities Caricetum gracilis





Changes of reedbeds cover on the floodplains of Narew National Park from 1987 to 1997 Próchnicki (2002)



- ✓ Changes in habitat and vegetation from 70s to 2000:
 - cessation of peat accumulation, initiation of peat decomposition, release of nitrogen compounds
 - replacement of Magnocaricion communities by matrix communities with dominance of Phragmites australis
 - occurrence of species alien to peatlands: Cirsium arvense, Urtica dioica and dicotyledonous herbs characteristic of meadow communities
- √ Causes of changes:
 - drainage below the Park and disturbance to water input far above the Park
 - economic transformations (mainly stopping mowing)

What we will see tomorrow...

Plan of excursion

- •1 mowing and grazing of meadows near Suraż
- •2 bridge Łapy-Uhowo open view on the valley
- •3 Kurowo trip by boats and walk on education path

