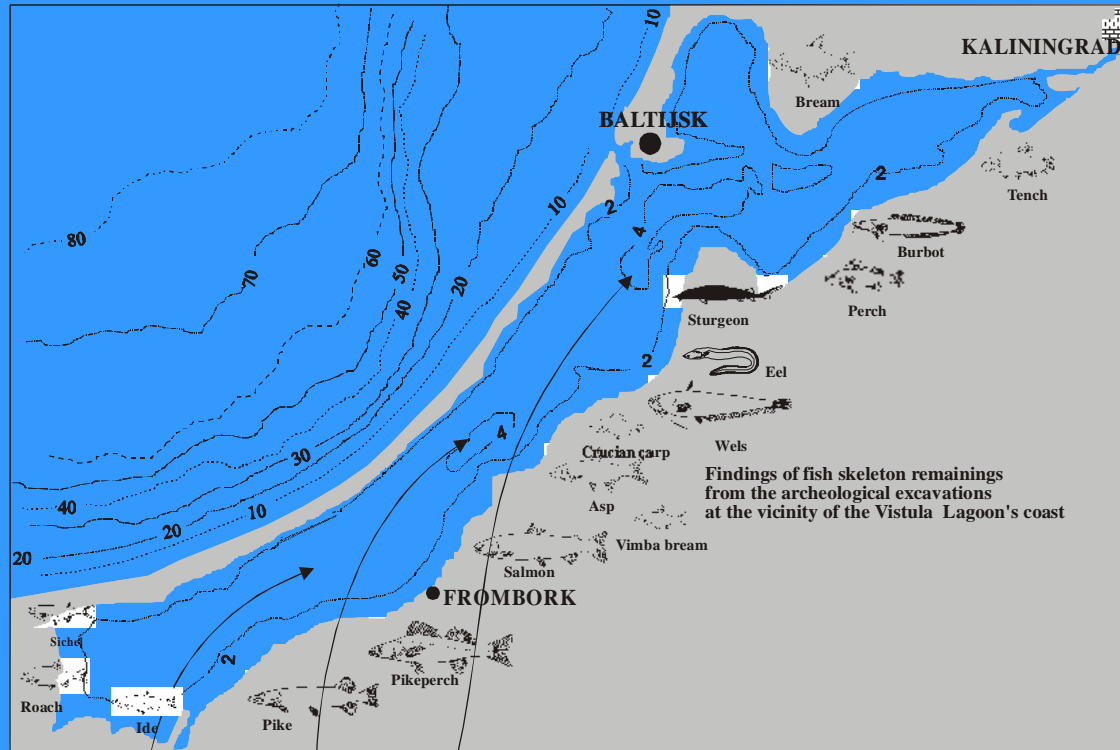


The results of studies on abundance the fish stocks supporting the fishery in the Vistula Lagoon in 1951-2001



Fish species inhabiting the Vistula Lagoon

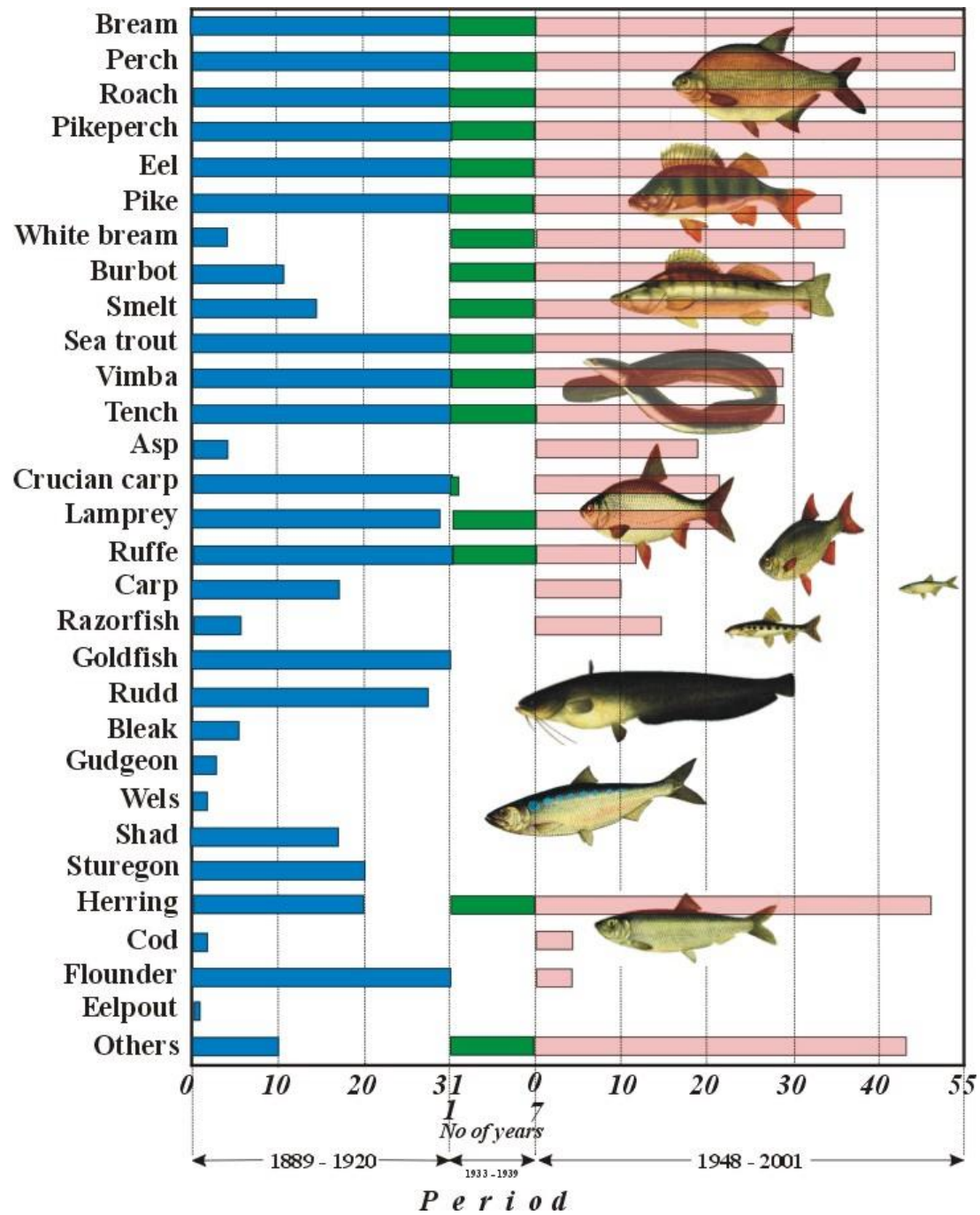


<i>Anguilla anguilla</i>	<i>Ctenopharyngodon idella</i>	<i>Platichthys flesus</i>
<i>Alosa alosa</i>	<i>Cyclopterus lumpus</i>	<i>Psetta maxima</i>
<i>Alosa fallax</i>	<i>Cyprinus carpio</i>	<i>Pungitius pungitius</i>
<i>Abramis bjoerkna</i>	<i>Esox lucius</i>	<i>Rodeus sericeus</i>
<i>Abramis brama</i>	<i>Gadus morhua</i>	<i>Rutilus rutilus</i>
<i>Alburnus alburnus</i>	<i>Gasterosteus aculeatus</i>	<i>Salmo salar</i>
<i>Aspius aspius</i>	<i>Gobio gobio</i>	<i>Salmo trutta</i>
<i>Barbatula barbatula</i>	<i>Gymnocephalus cernuus</i>	<i>Scardinius erythrophthalmus</i>
<i>Carassius carassius</i>	<i>Leuciscus idus</i>	<i>Silurus glanis</i>
<i>Clupea harengus</i>	<i>Lota lota</i>	<i>Stizostedion lucioperca</i>
<i>Coregonus albula</i>	<i>Misgurnus fossilis</i>	<i>Tinca tinca</i>
<i>Coregonus lavaretus</i>	<i>Neogobius melanostomus</i>	<i>Vimba vimba</i>
<i>Cobitis taenia</i>	<i>Oncorhynchus mykiss</i>	<i>Zoarces viviparus</i>
	<i>Osmerus eperlanus</i>	
	<i>Pelecus cultratus</i>	
	<i>Perca fluviatilis</i>	

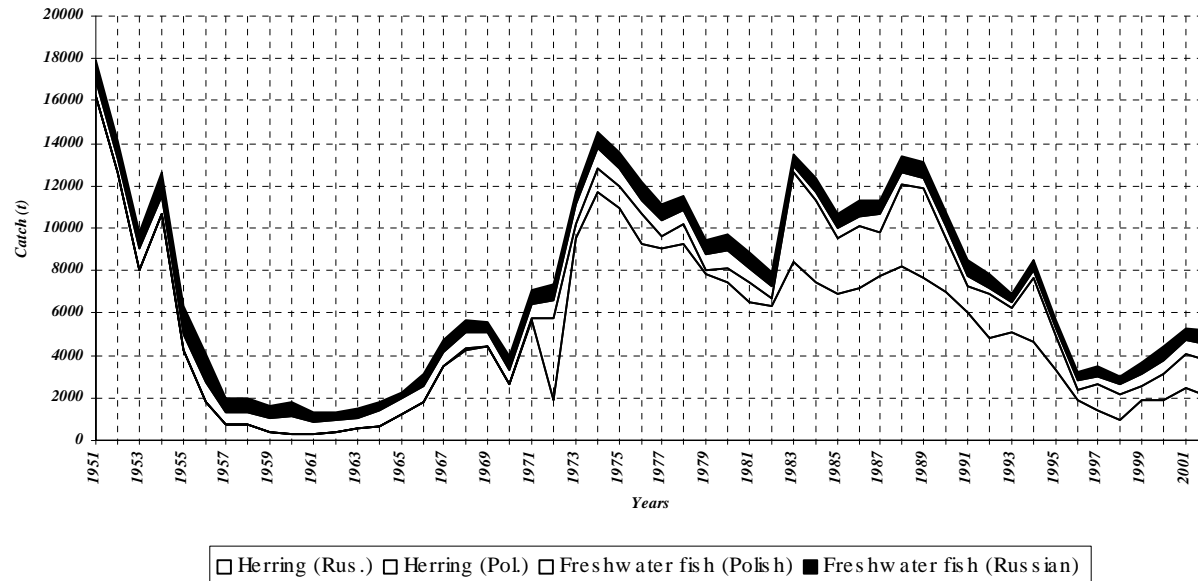
Fish species recorded in the last 50 years in the Vistula Lagoon

- Hensen (1878) – 18 species
- available sources in literatures – 40 species
- observed during last 10 years – 36 species

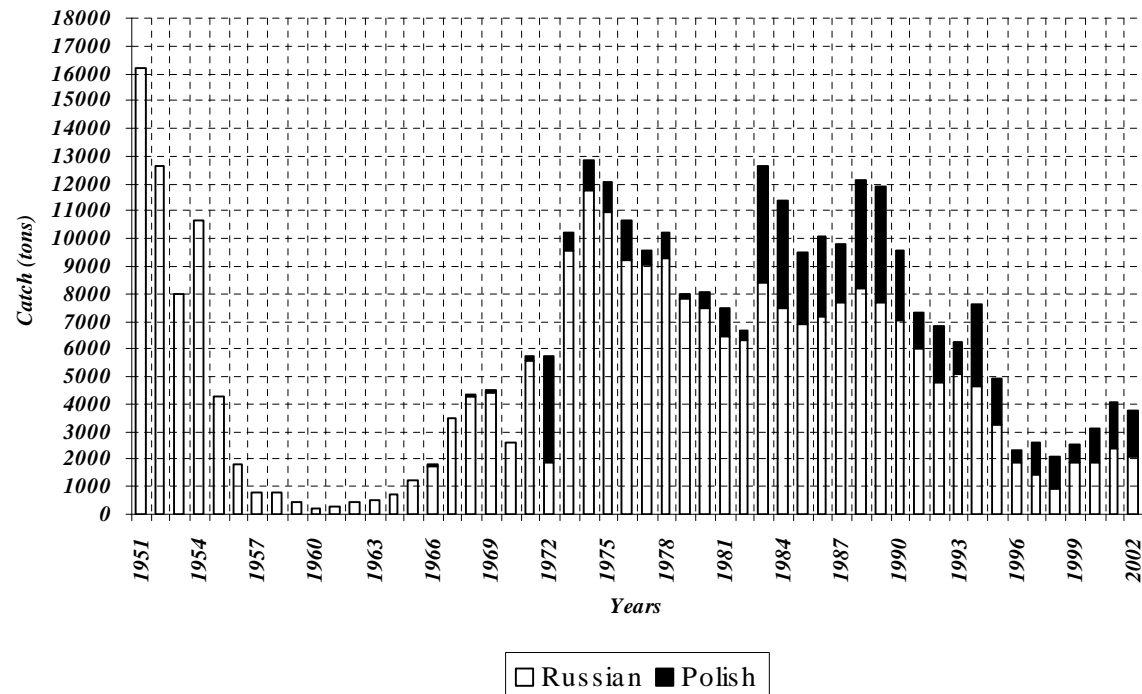
Fig. 3.1.1 Fish species recorded in the Vistula Lagoon



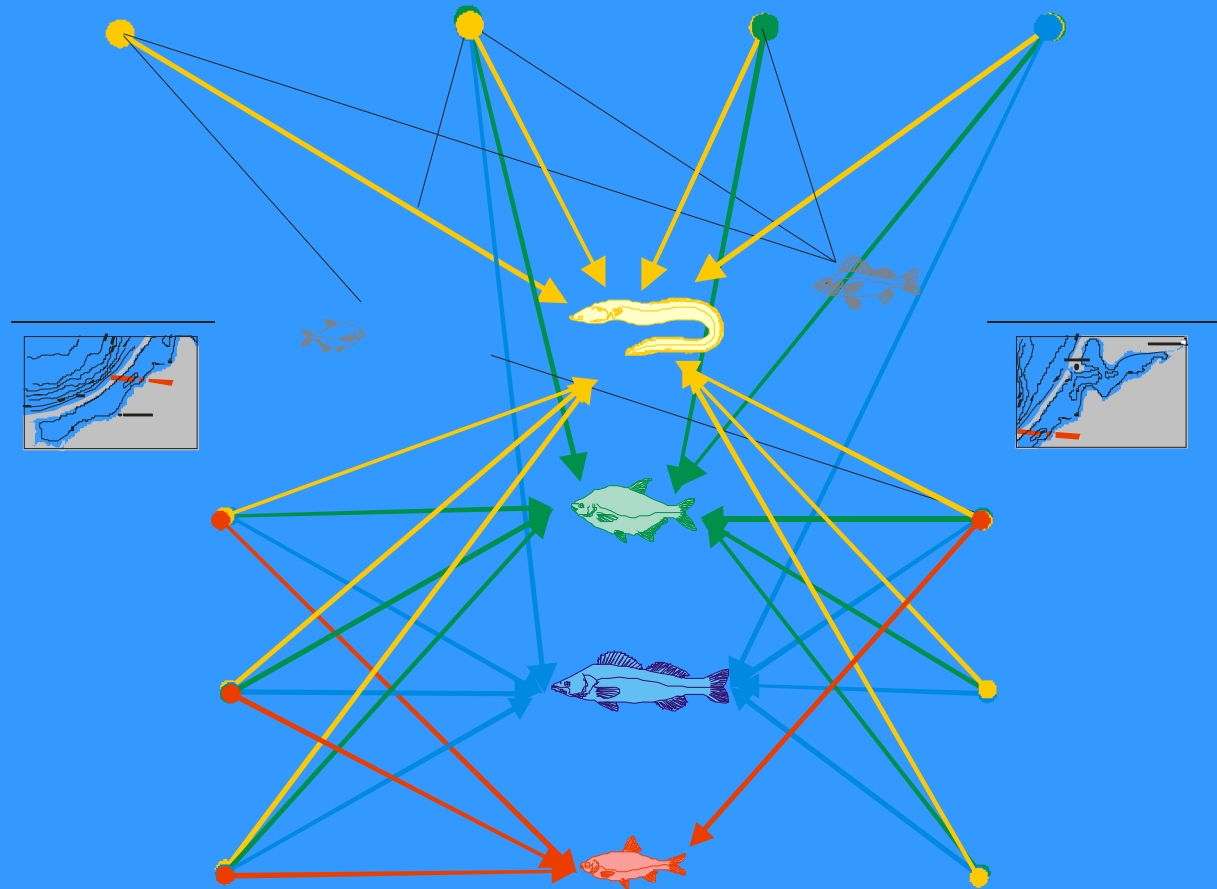
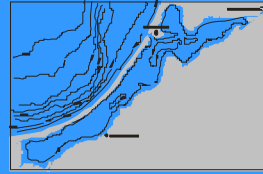
Total Catch



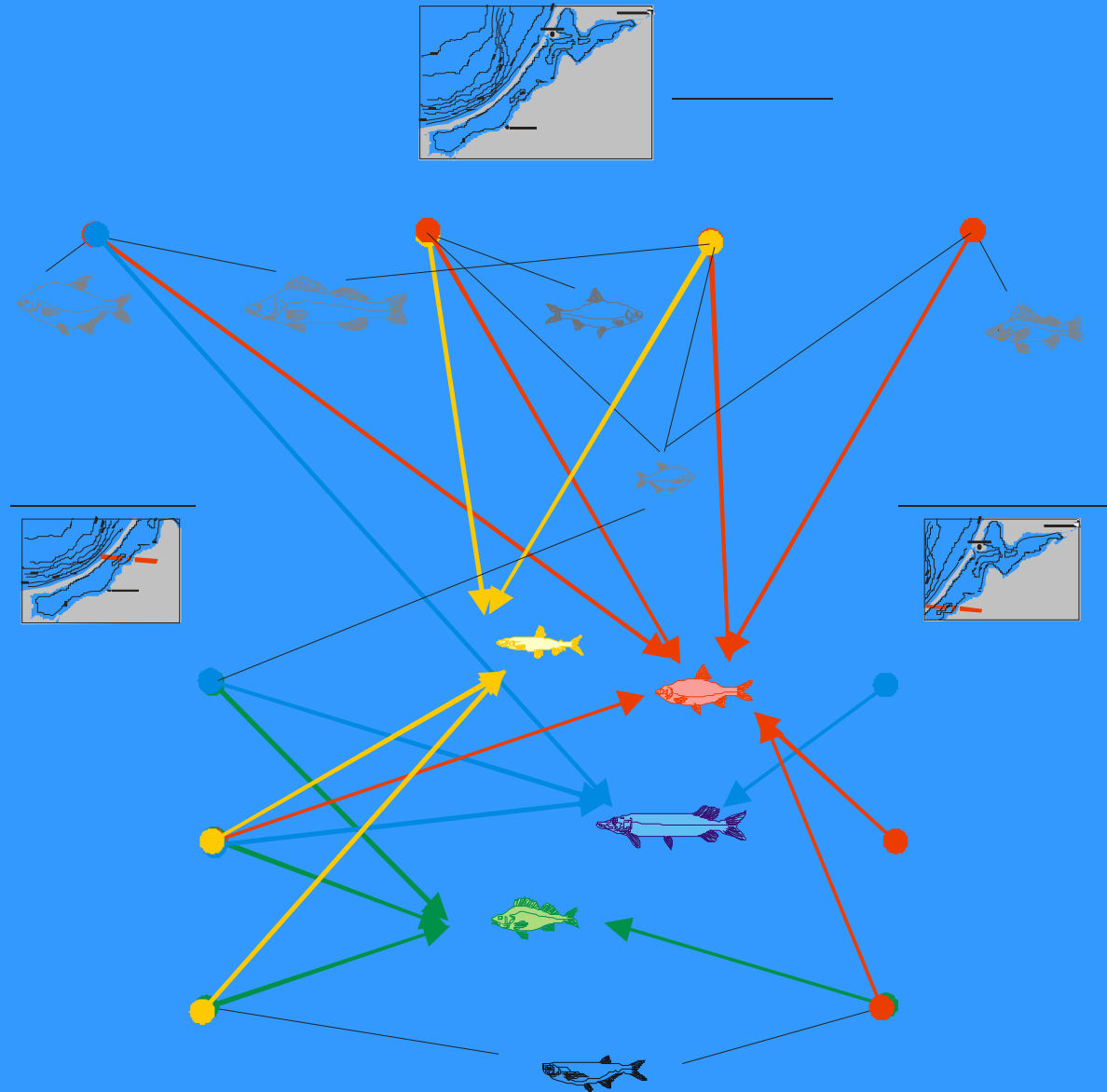
Herring



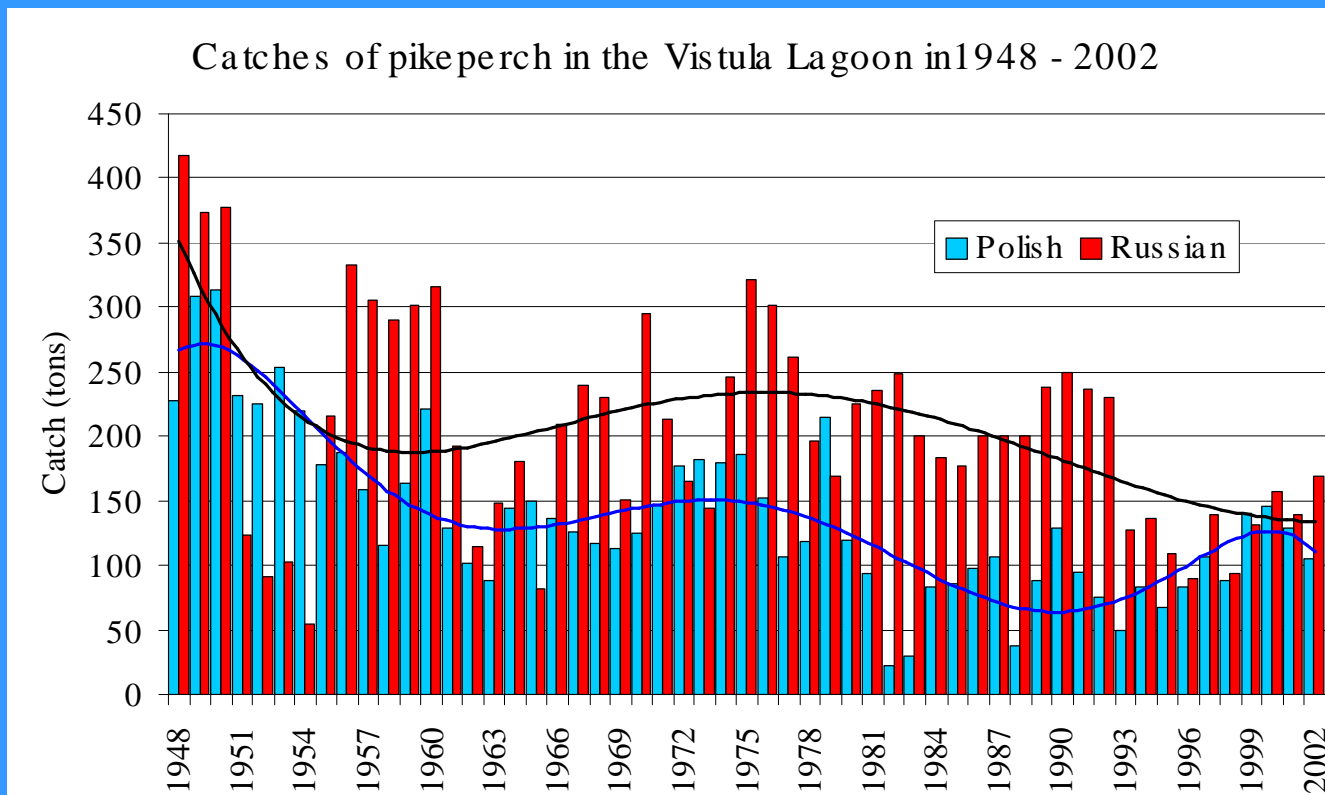
Apperance of the species in catching of fish in different periods >10% total catch

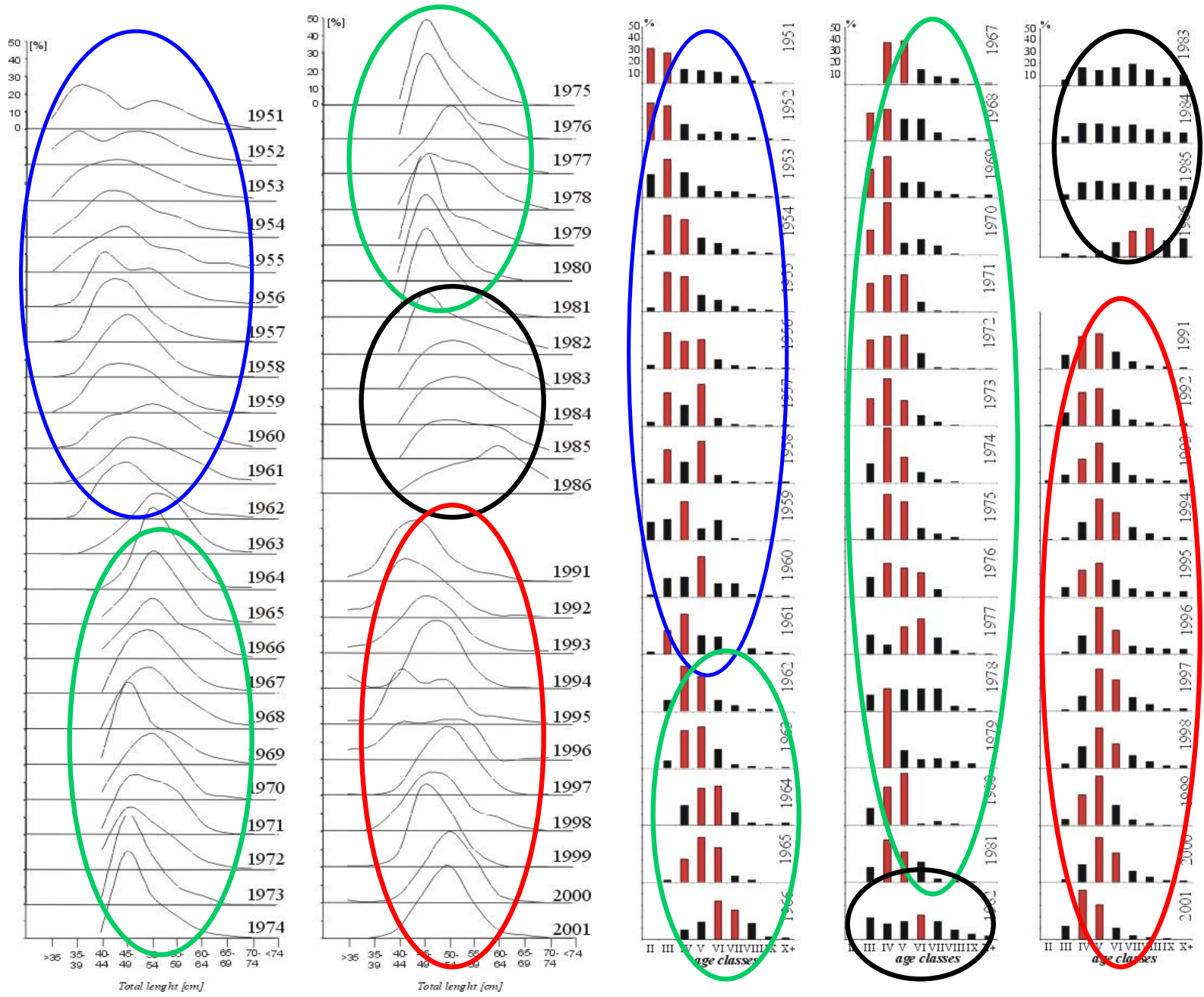


Apperance of the species in catching of fish in different periods 1-9% total catch



PIKEPERCH

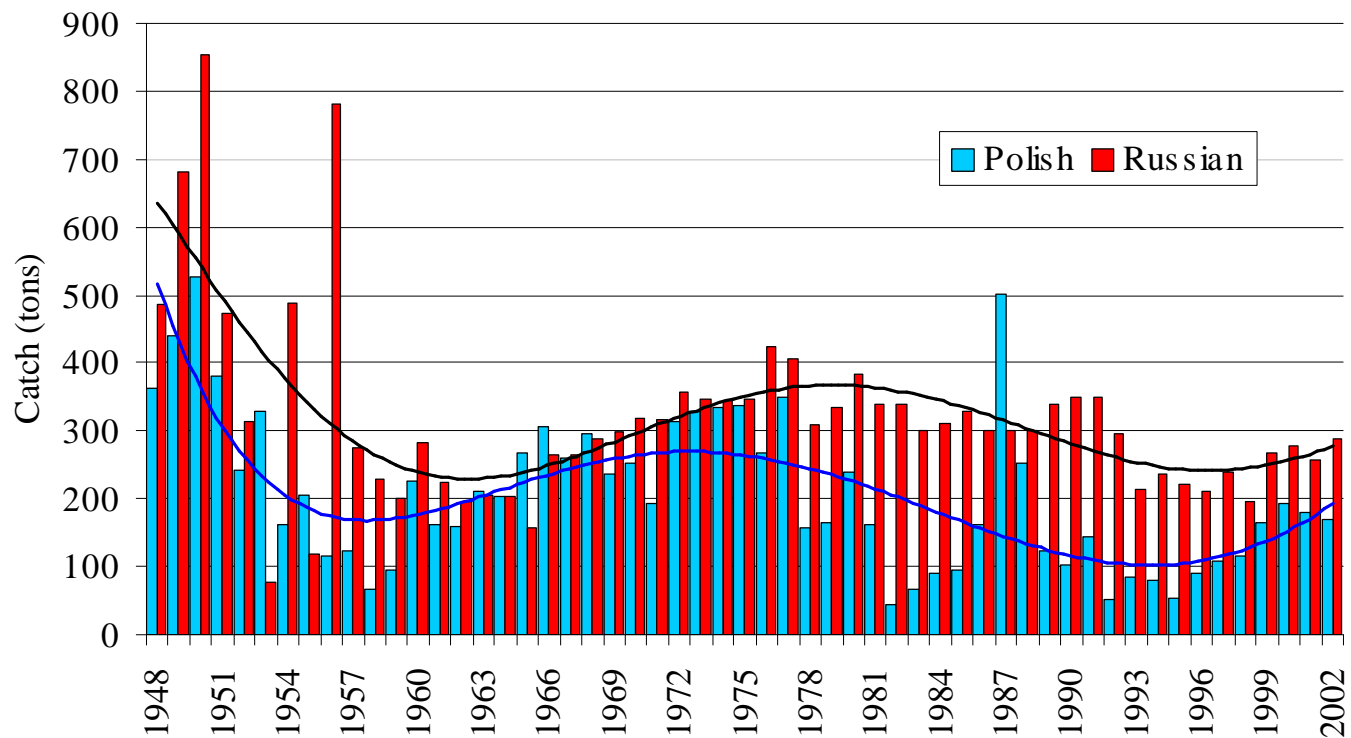


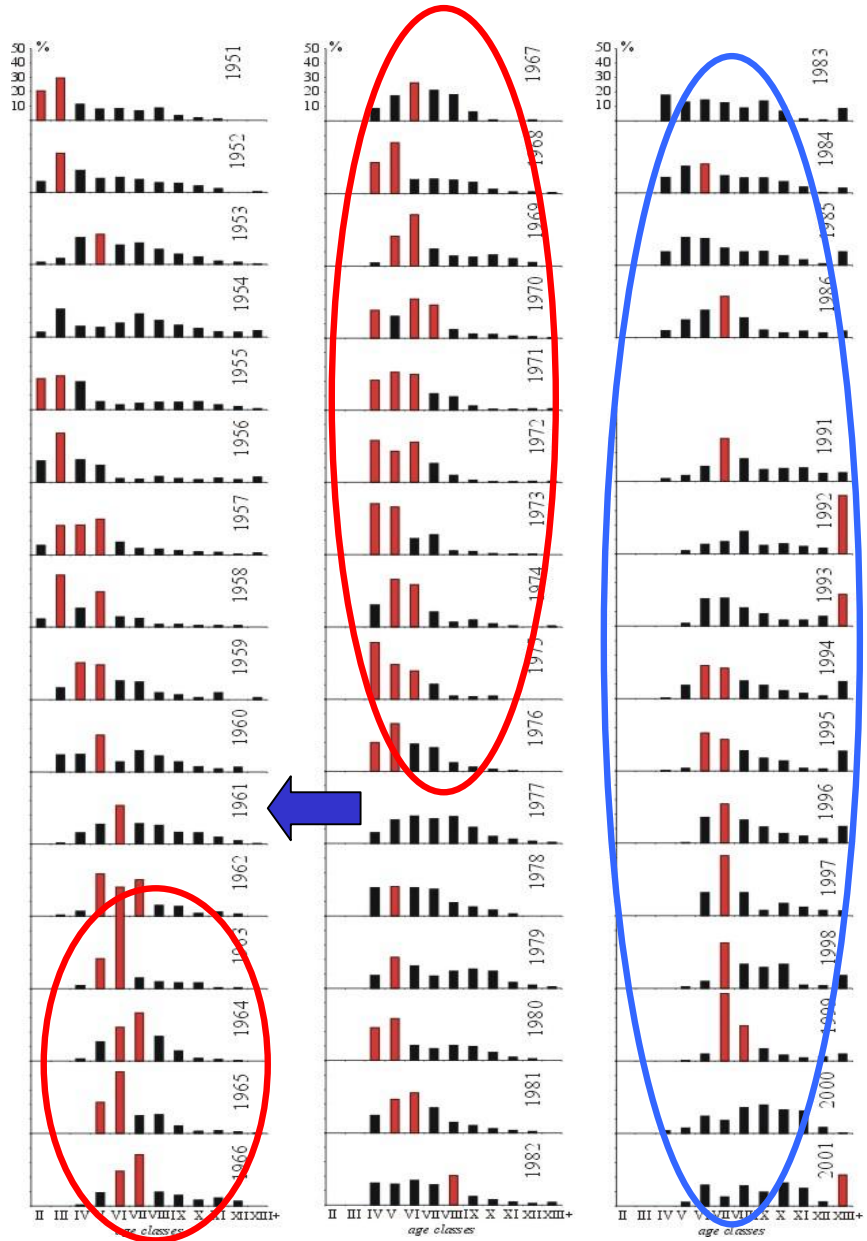
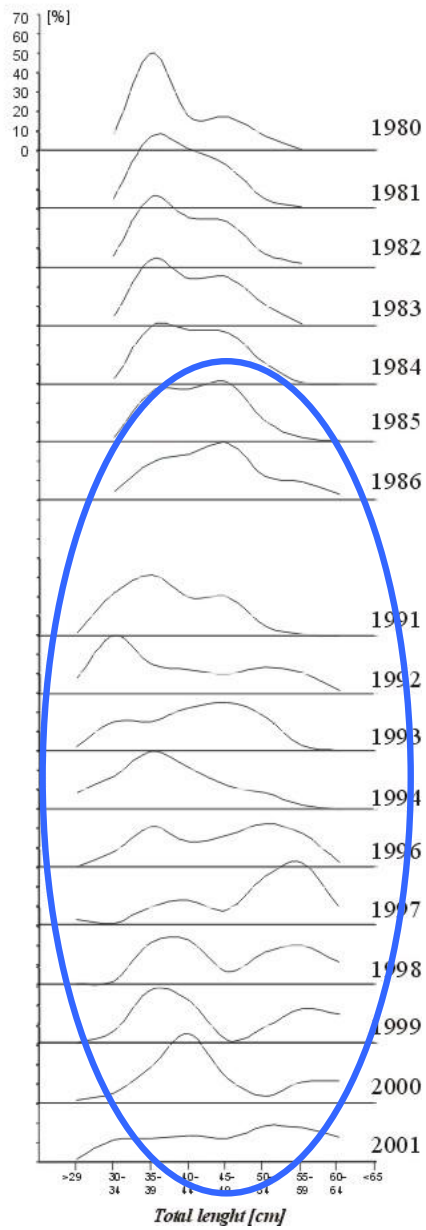
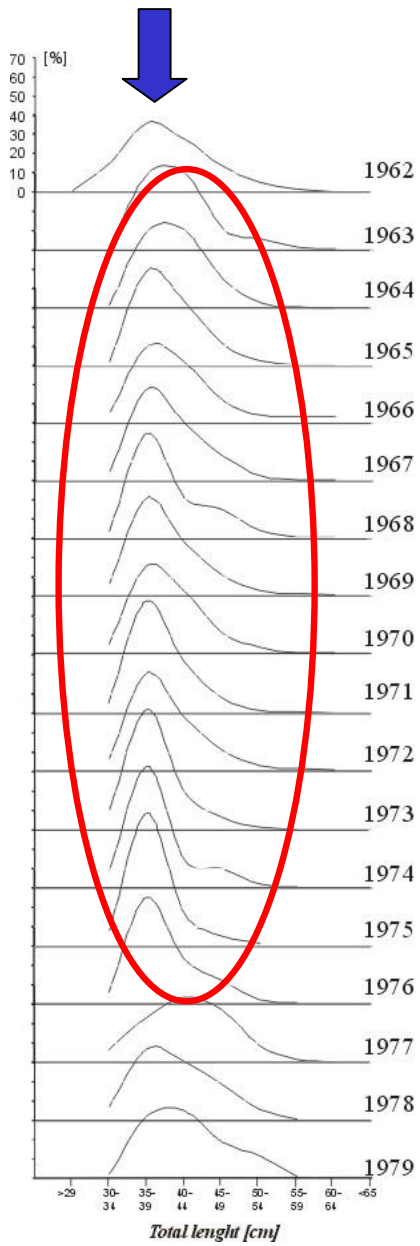


BREAM

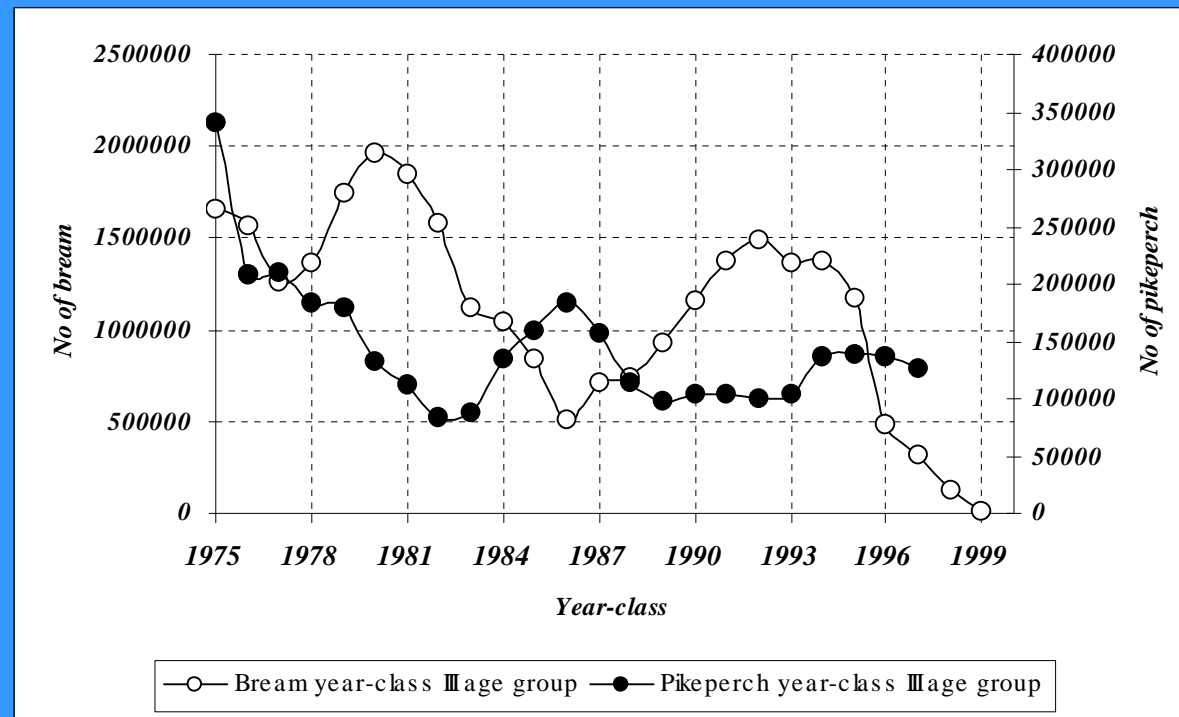


Catches of bream in the Vistula Lagoon in 1948 - 2002





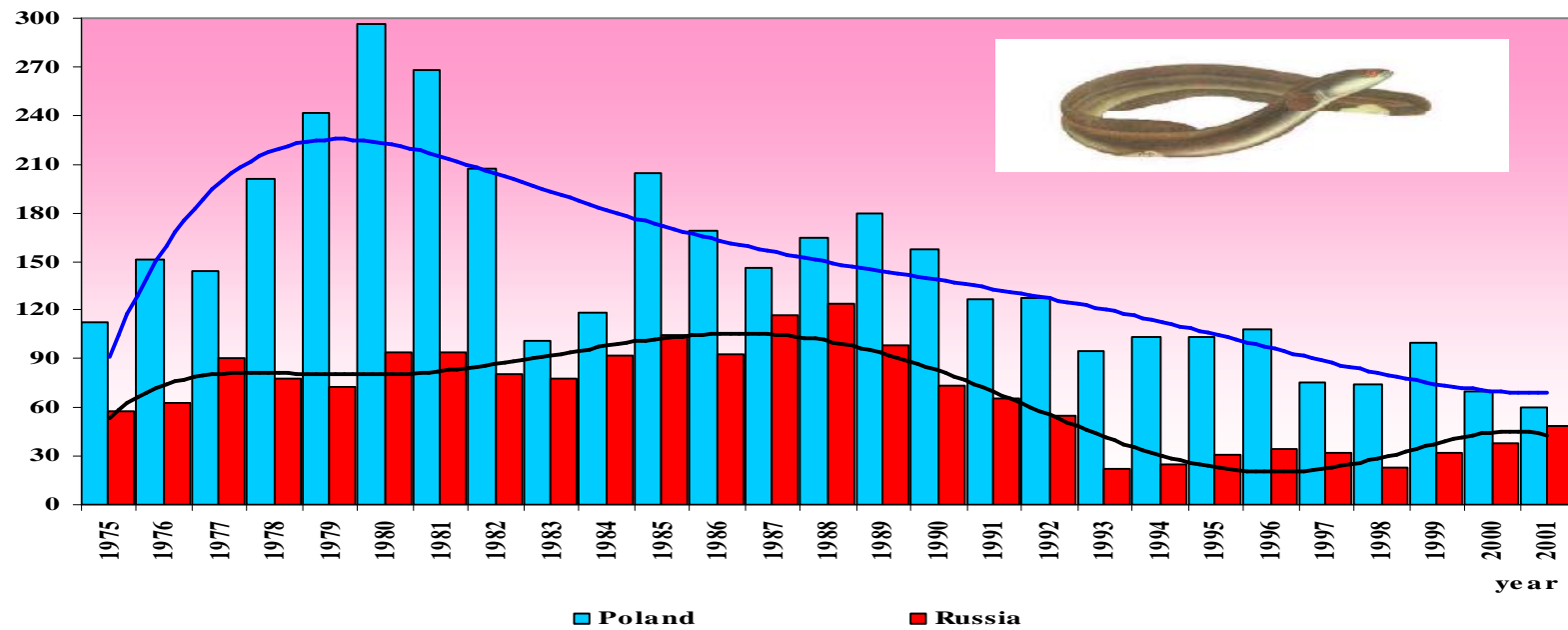
Pikeperch and Bream year-class at III age group



EEL

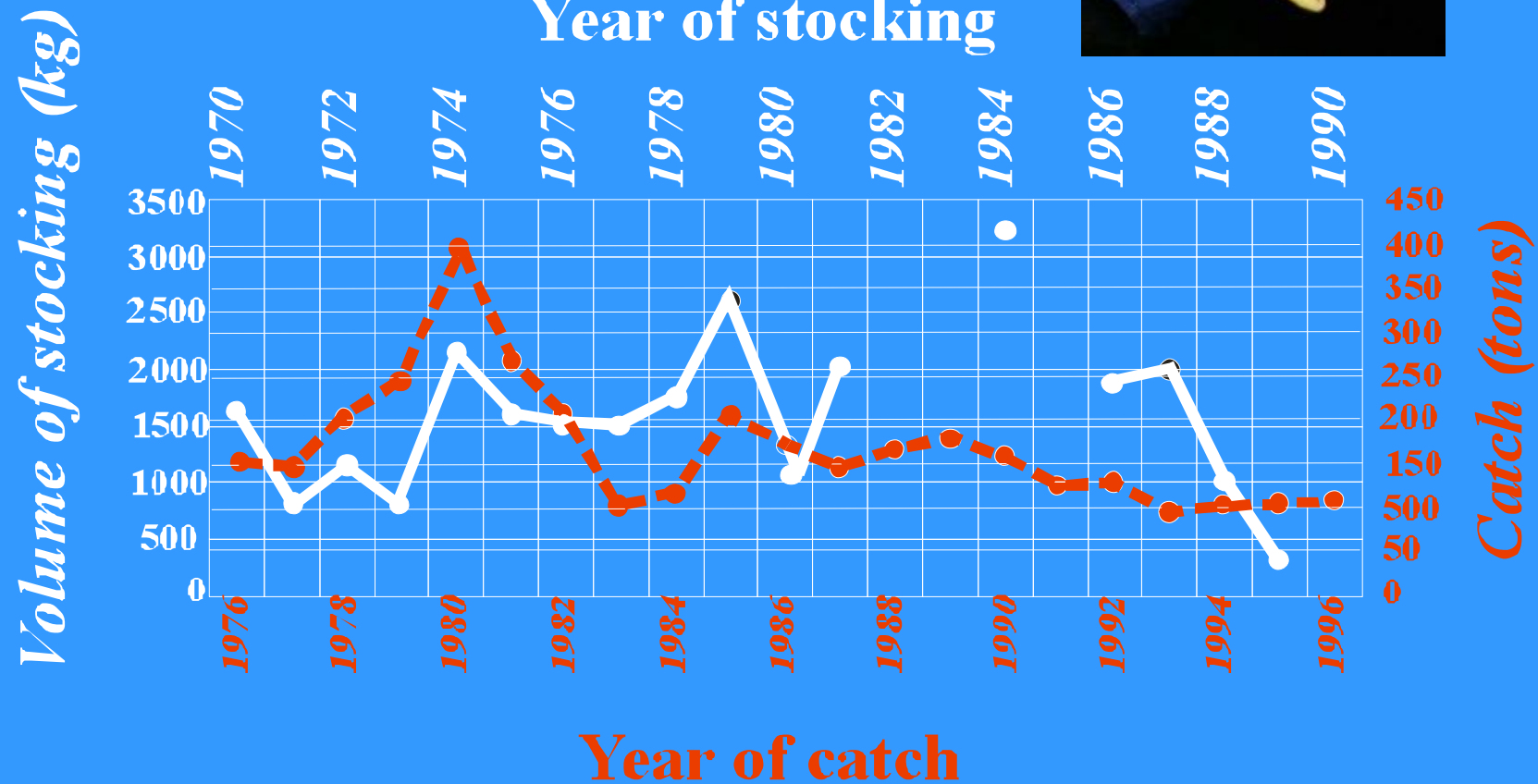


catch (tons)



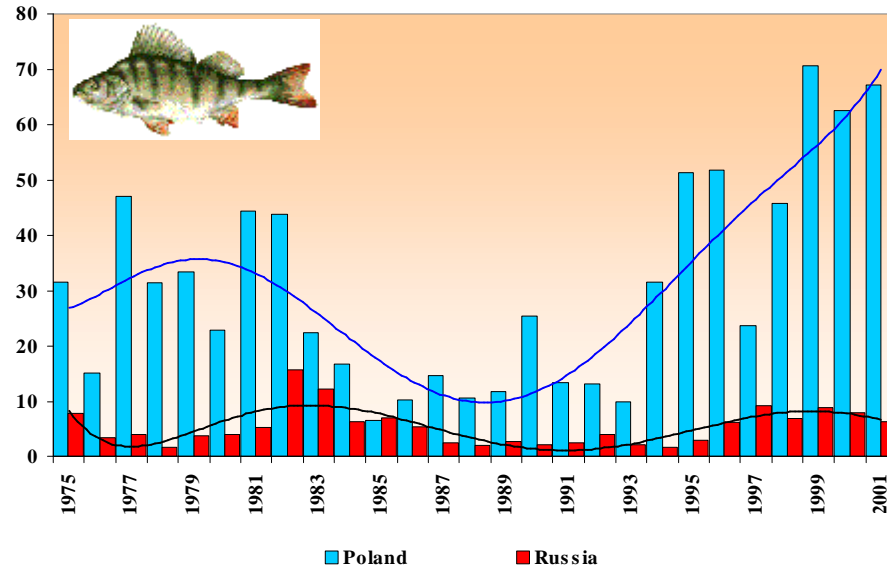
Stocking volume in Vistula Lagoon waters of glass eel with juxtaposition of total catch.

- Stocking with eel elvers
- - -●- - - Eel catch in the Polish part of the Vistula Lagoon



Perch (*Perca fluviatilis* L.)

landings (tons)

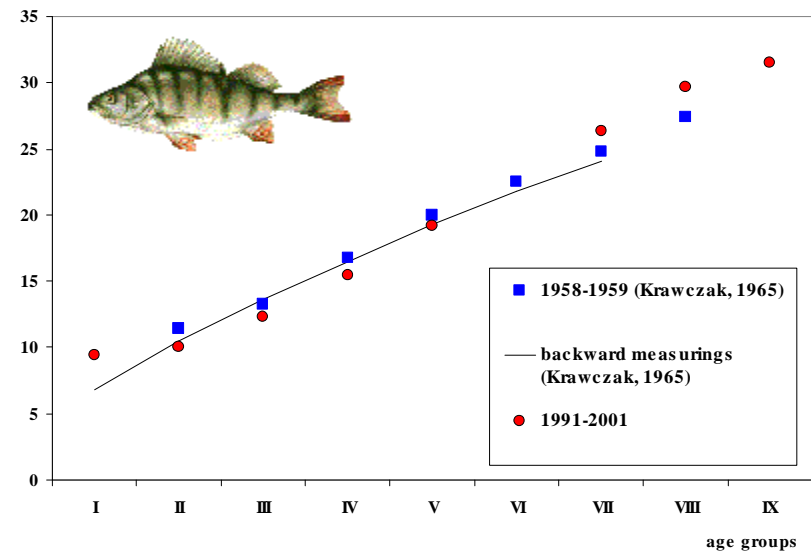


Landings

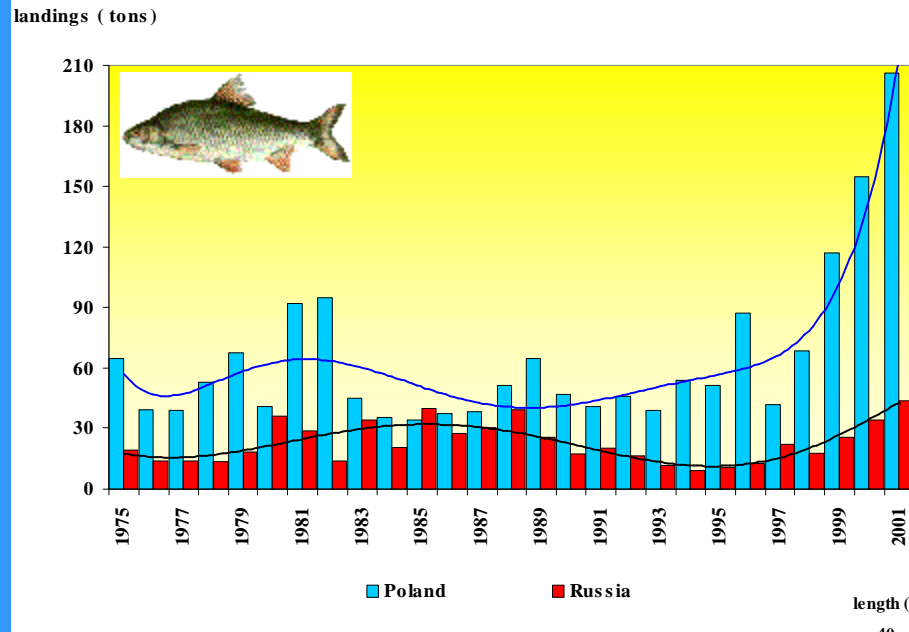


Average Vistula Lagoon perch lengths at various age groups

length (cm)



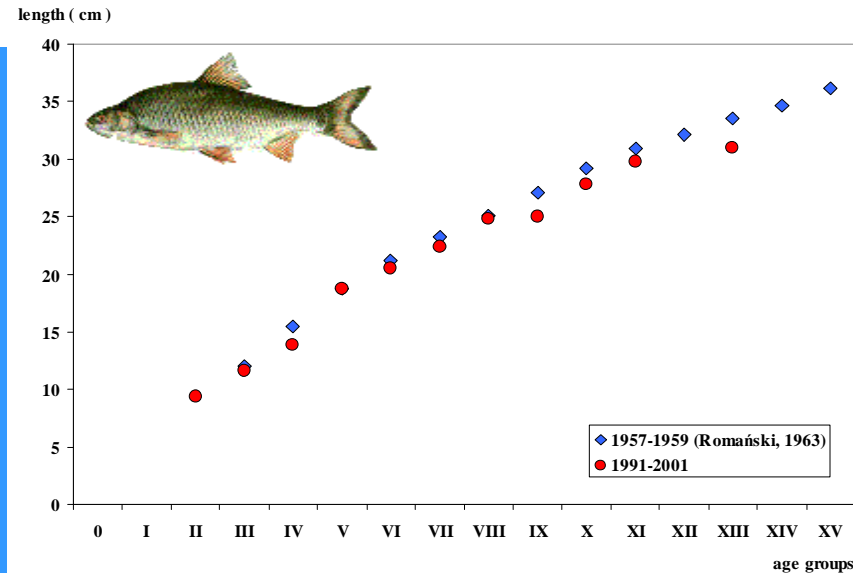
Roach (*Rutilus rutilus* L.)



Landings

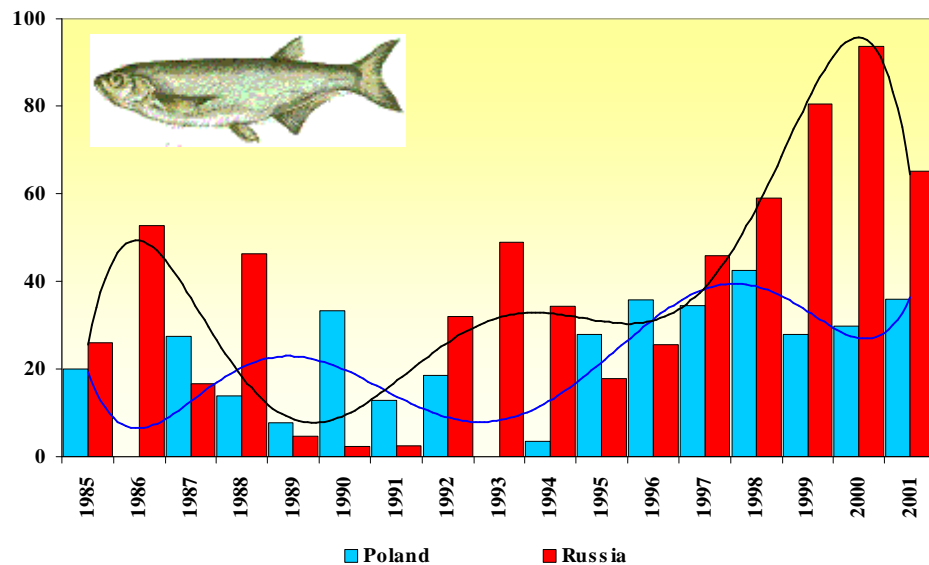


Average Vistula Lagoon roach lengths at various age groups



Razorfish (*Pelecus cultratus* L.)

landings (tons)

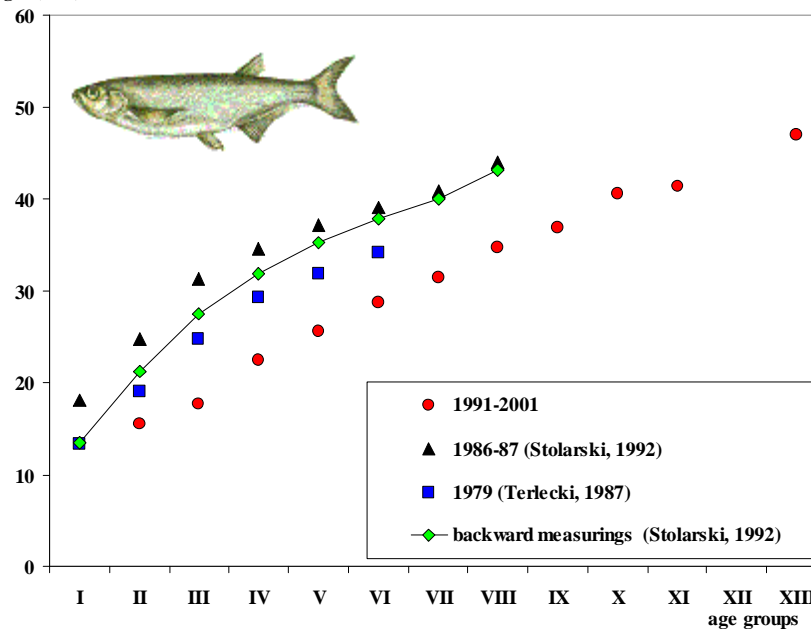


Landings

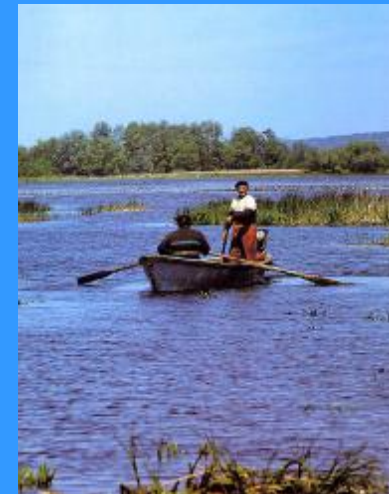
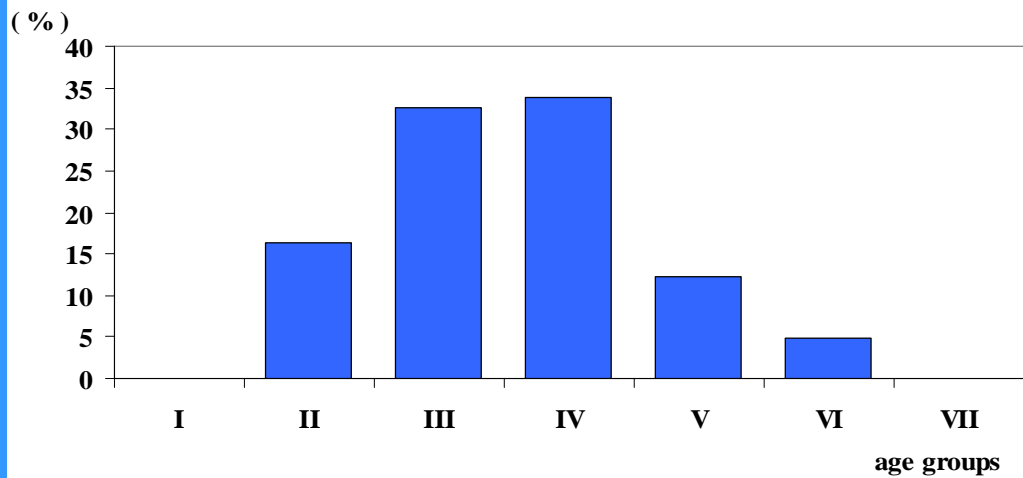
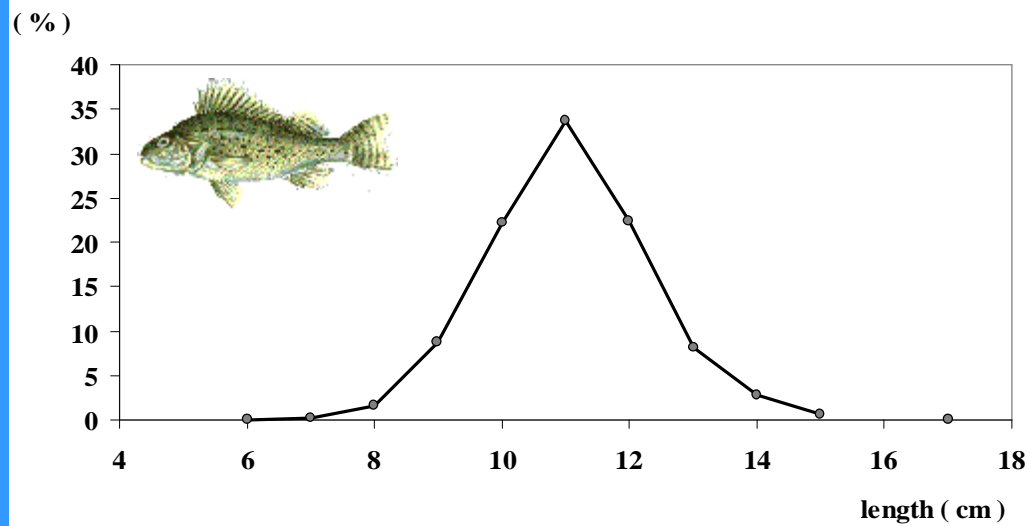


Average Vistula Lagoon razorfish lengths at various age groups

length (cm)



Ruffe (*Acerina cernua* L.)



CONCLUSION

- We can distinguish three periods in the history of the Vistula Lagoon:
- I) 1889 to 1945
- II) years 1948-90
- III) years 1991 up till now.

Research results of exploited pikeperch and bream population structures provide the basis for evaluation of changes which took place in these populations over last 50 years

Besides pikeperch and bream, data collected in the Polish part of the Lagoon in the 3rd period provides basis for characterizing of biological features of 8 species (eel, roach, perch, sibel, smelt, ruffe, rudd, pike), that constitute 90% of the total catch taken from the Lagoon

End of presentation

