



Shkodra Lake – natural and social studies on the Albanian side of the lake

By Spase Shumka



DRIMON works on:

- Nature sciences
- Interdisciplinary approaches
- Socio economic analyses

Sampling sites on
the Albanian side

Increases in both agriculture, industry and tourism development is regarded as positive by locals, as these sectors provide employment and more income to the region. However, development in these sectors is also accompanied by various negative impacts on the catchment's environment, including:

- increased demand for irrigation water and water for tourism industry;
- inappropriate use of land resources especially close to the lake shores for construction of hotels and restaurants, and conversion of shore areas into beaches;
- pollution from untreated sewage and waste water, seepage from solid waste;
- cultivation of land close to rivers and lake shores with no vegetation zones to reduce particle, nutrient and pesticide runoff;
- pollution from farm machinery and pesticide spray equipment that are rinsed directly in river or lake waters;
- deforestation in the catchment's areas etc.



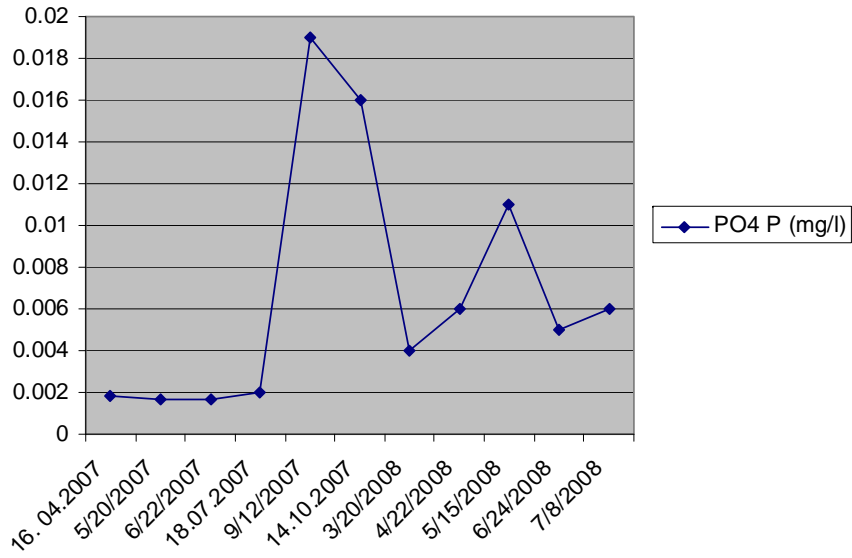
In the years 2007-2008 in both Shkodra and Prespa Plakes, and Buna River

- one sampling site in Shiroka – Shkodra
- one sampling site in Buna

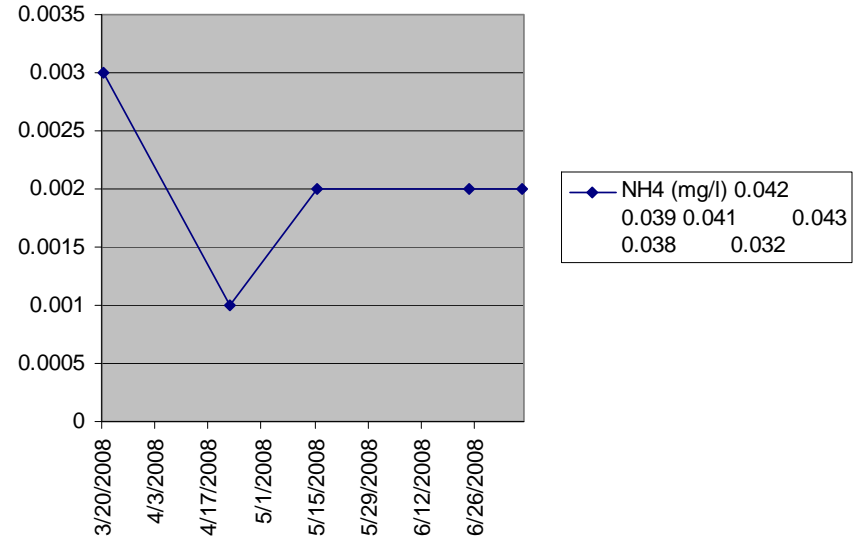


WATER QUALITY

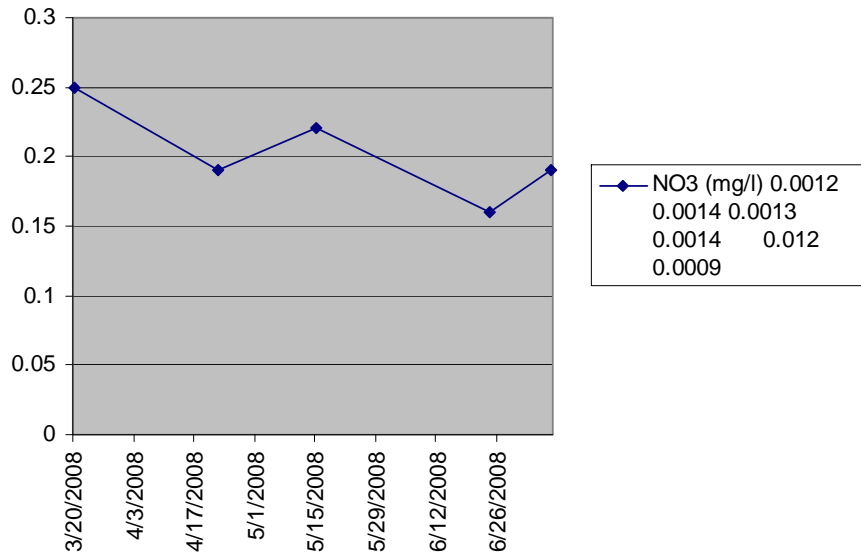
PO4 P (mg/l)



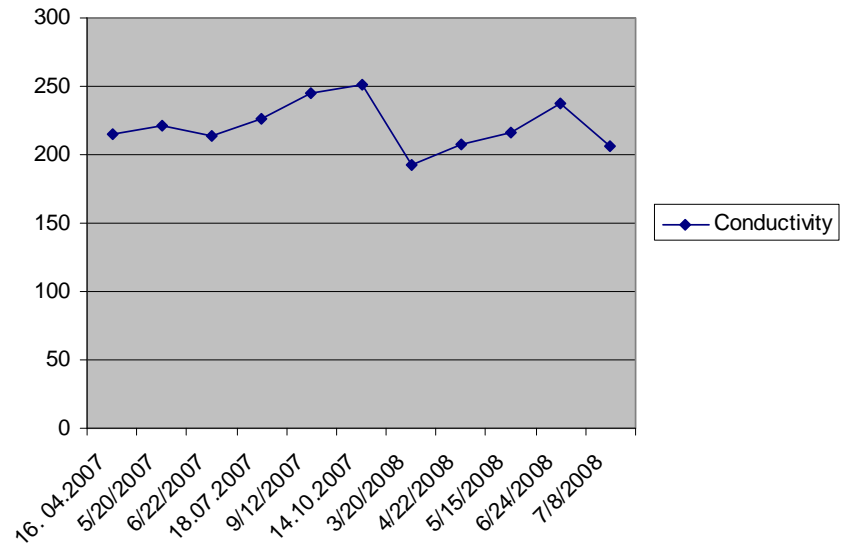
NH4 (mg/l) 0.042 0.039 0.041 0.043 0.038 0.032

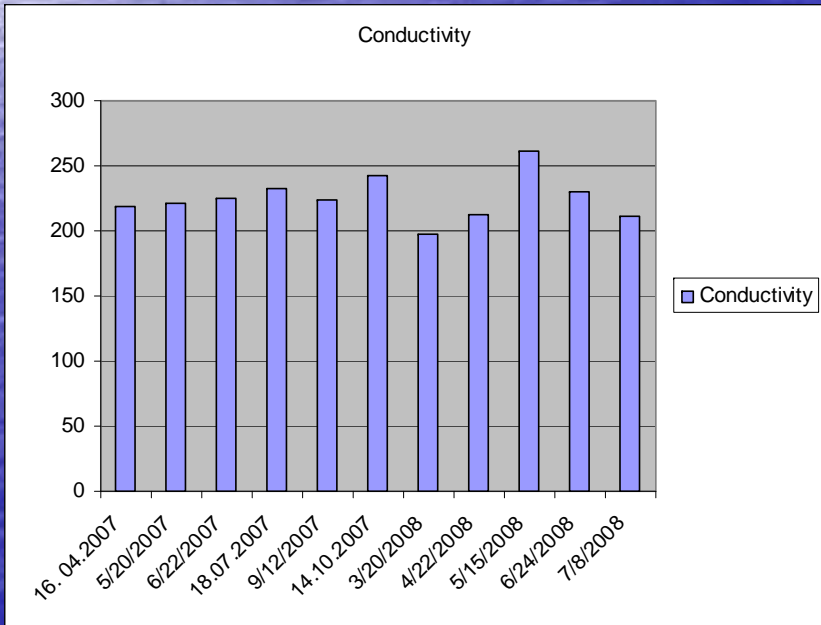
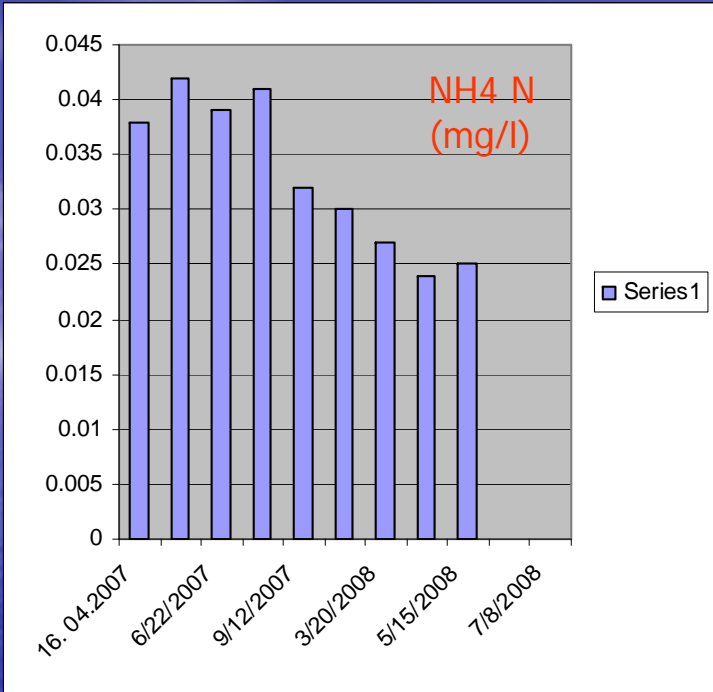
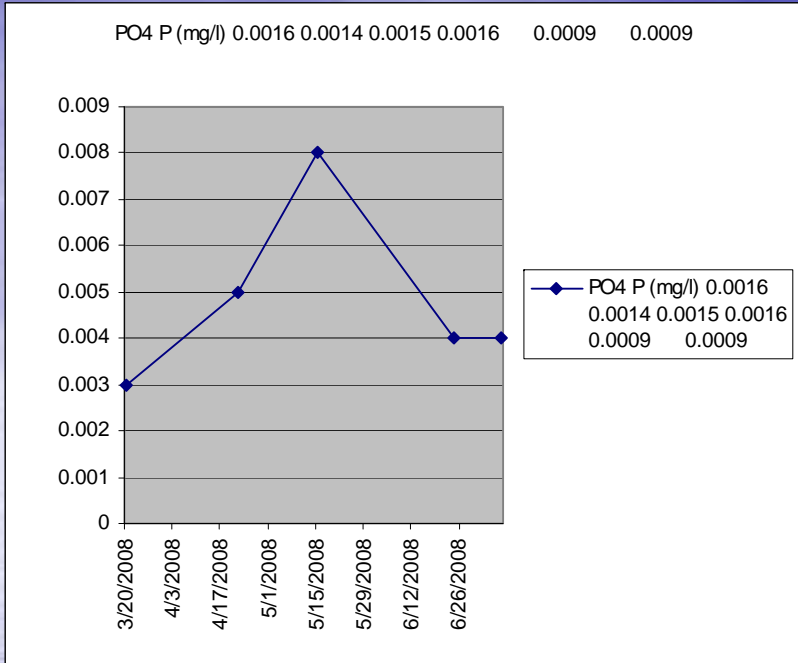


NO3 (mg/l) 0.0012 0.0014 0.0013 0.0014 0.012 0.0009

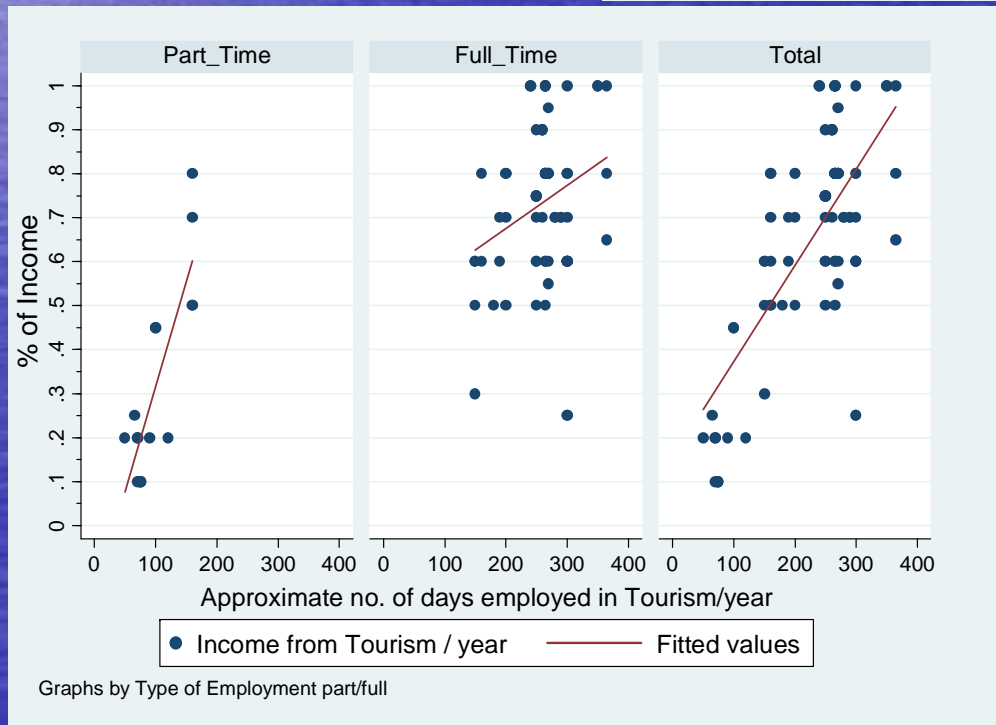
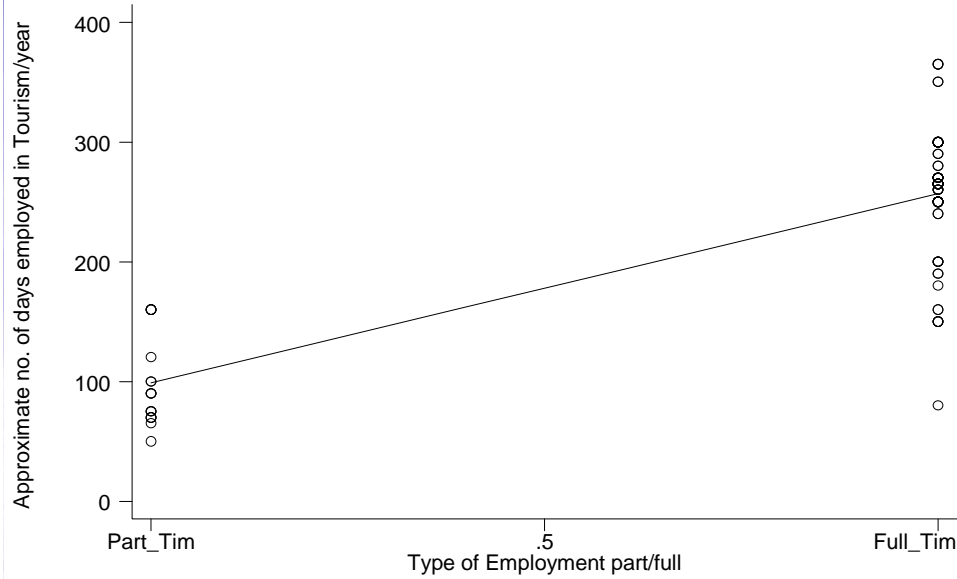


Conductivity



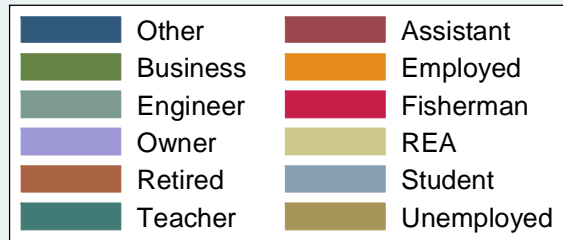
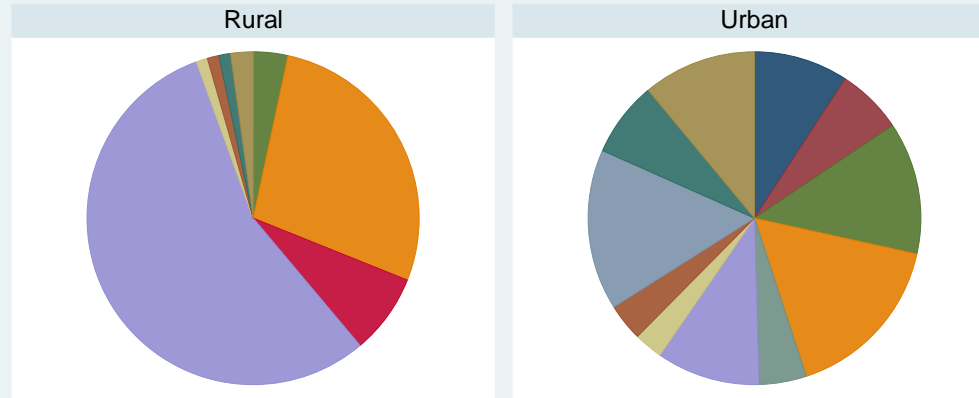


days_tourism = 98.889 + 158.044 part_full_time
 $r^2 = 0.615$ RMSE = 49.914 n = 93

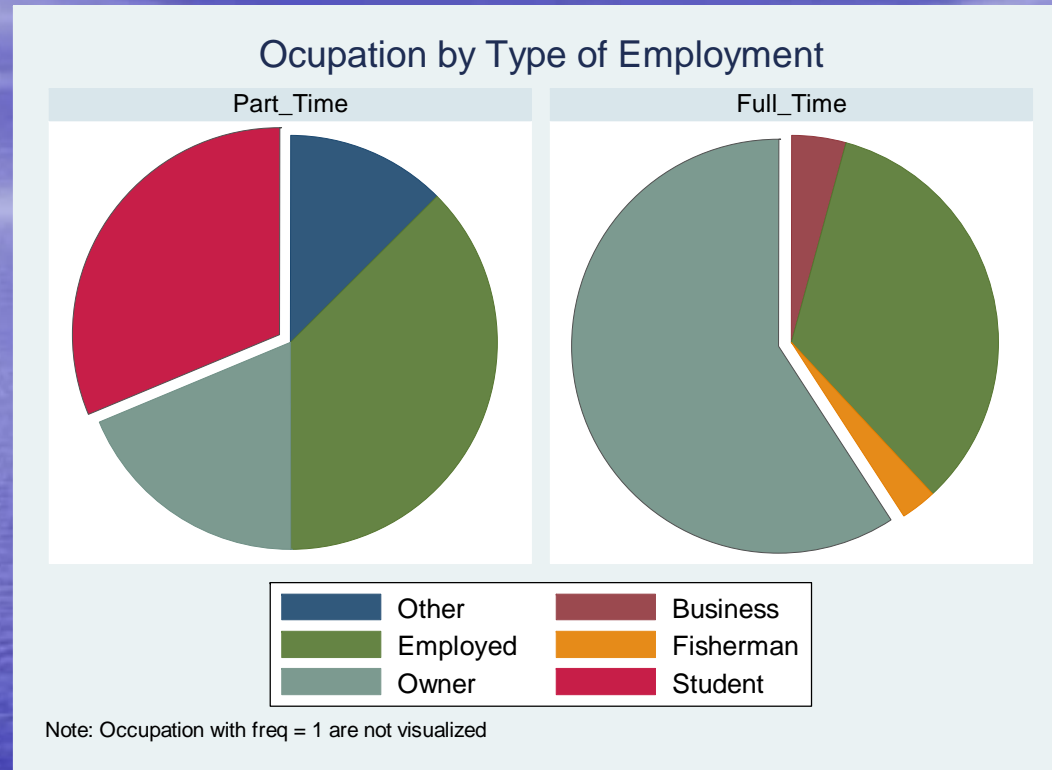


OCCUPATION

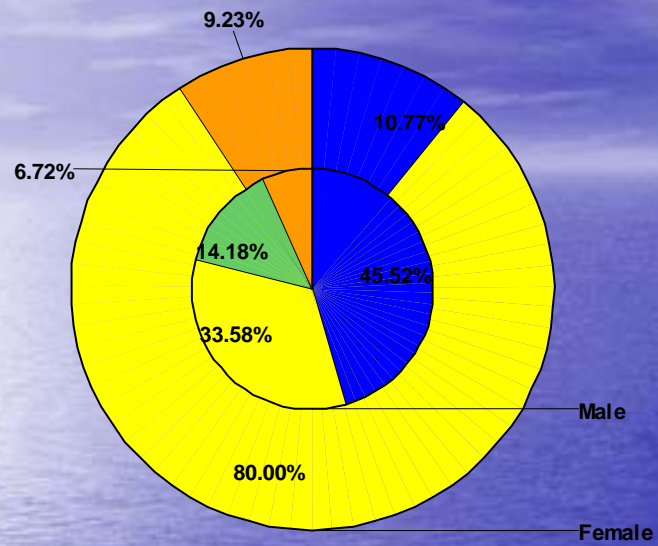
Occupation in Urban&Rural Areas



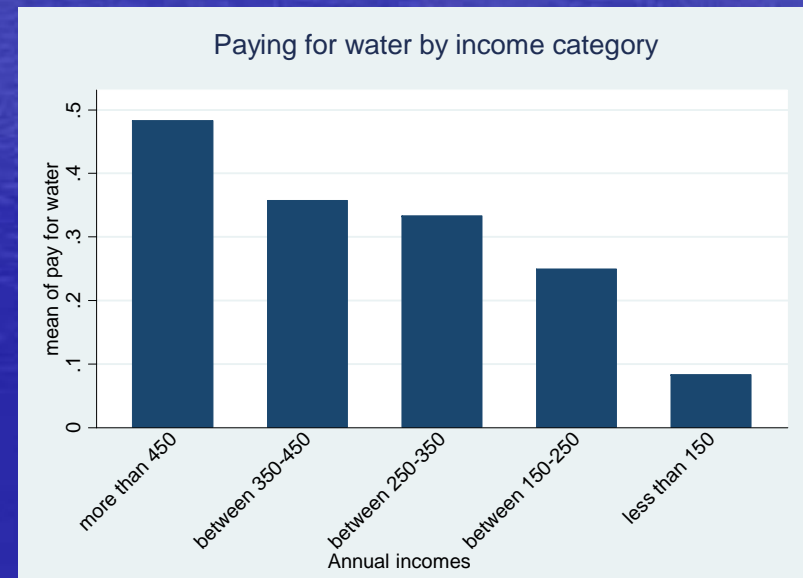
EMPLOMENT



WATER USE

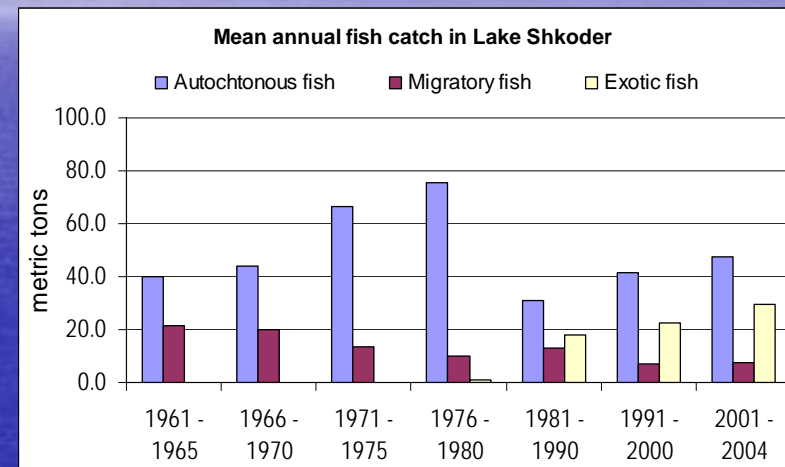
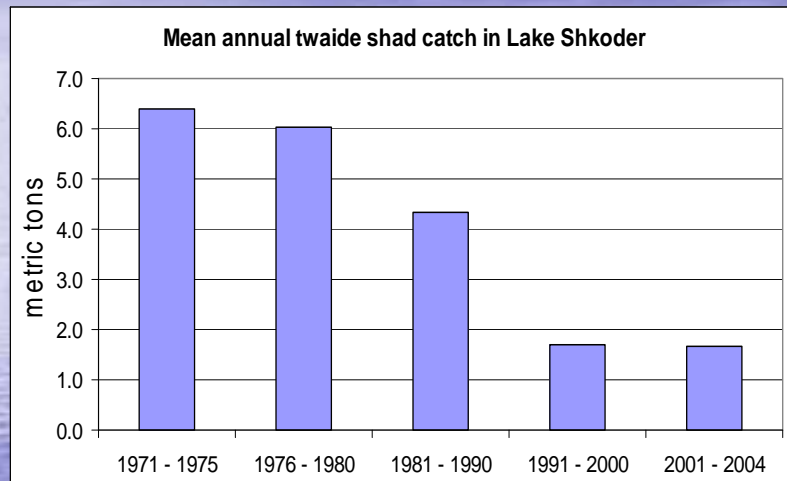


Pies show percents



FISHERY

- Significant decline of migratory fish in the overall production;
- Decline of autochthonous fish in the 1980s, but a recovery since then;
- Increase in exotic species, especially after 1980.



Mean annual fish catch in the Albanian section of Lake Shkoder
(source: Spase Shumka T Agri University)

Impacting factors:

- Pollution (industries, municipalities, solid waste, liquid waste);
- Hunting and fishing;
- Lakeshore development;
- Water management measures.

A blue-tinted photograph of a vast ocean under a cloudy sky. The text "FALEMINDERIT!" is centered in the upper half of the image.

FALEMINDERIT!