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## Development of cod recreational fisheries in Poland

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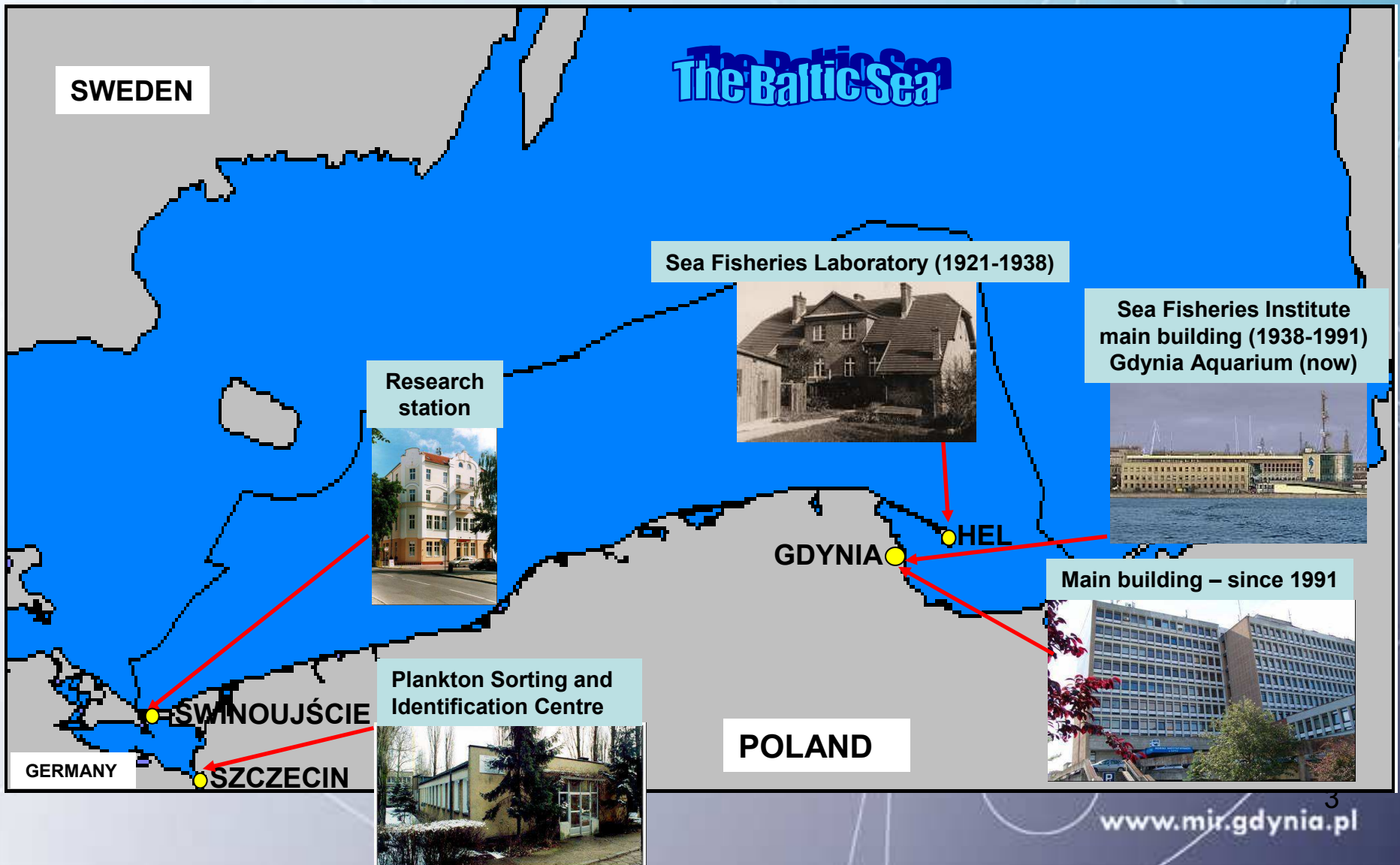
**Research topics:** - biology, recruitment and stock assessment of Baltic cod  
- cod recreational fisheries  
- marine protected areas

**Membership:** - ICES Baltic Fisheries Assessment Working Group  
- ICES Baltic International Trawl Survey Working Group

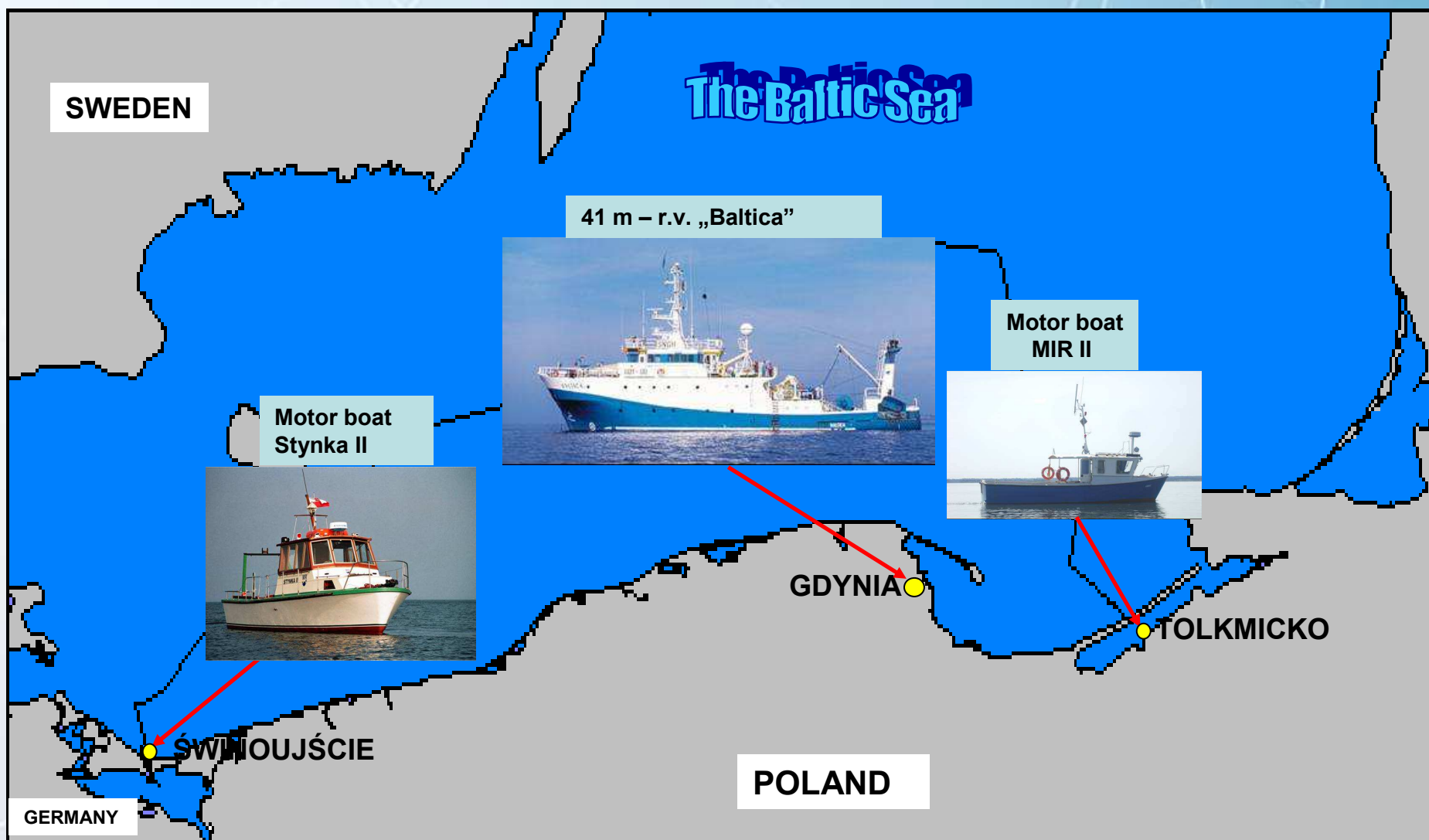
**Projects:**

**EU FP:** **ELME** (2004-2006), **FISBOAT** (2004-2007), **PROTECT** (2005-2008),  
**FISH/2006/15-LOT8** (2007-2008), **DECODE** (2007-2009), **UNCOVER**  
(2006-2010)

# Sea Fisheries Institute - infrastructure



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# Sea Fisheries Institute



- **Department of Fishery Resources**
  - biology and evaluation of dynamics of fish populations
  - genetic characteristic of exploited stocks
  - selectivity of fishing gears
- **Department of Fisheries Oceanography and Marine Ecology**
  - functioning of coastal/estuarine ecosystems
  - biology of early life history stages of marine and brackish water fishes
- **Department of Processing Technology;**
  - technology and organization of the processing of fish
  - hygiene and sanitary conditions in production processes
- **Department of Fishery Economics**
  - researching the intensity of resource exploitation and catch quota use
  - fisheries market research and economic aspects of its regulation in the EU
- **Department of Food and Environment Chemistry**
  - research on the influence of fish biological conditions and spatial distribution on their chemical content
  - research on marine environment contaminants and concentration of pollutants in marine organisms

**OVERALL STAFF CA. 200 PERSONS**

**BUDGET (including vessels) approx. 5.000.000 EUR**



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# Participation in the UE FP Projects

- **4SEAS**
- **ELME**
- **CHARM**
- **COST-IMPACT**
- **BECAUSE**
- **MANTRA-EAST**
- **EFIMAS**
- **SIBER**
- **FISBOAT**
- **SIGNAL**
- **EUR-OCEANS**
- **PROTECT**
- **TTQ Leonardo**
- **INDECO**
- **IN EX FISH**
- **DECODE**
- **UNCOVER**
- **MARIFISH**
- **CEVIS**

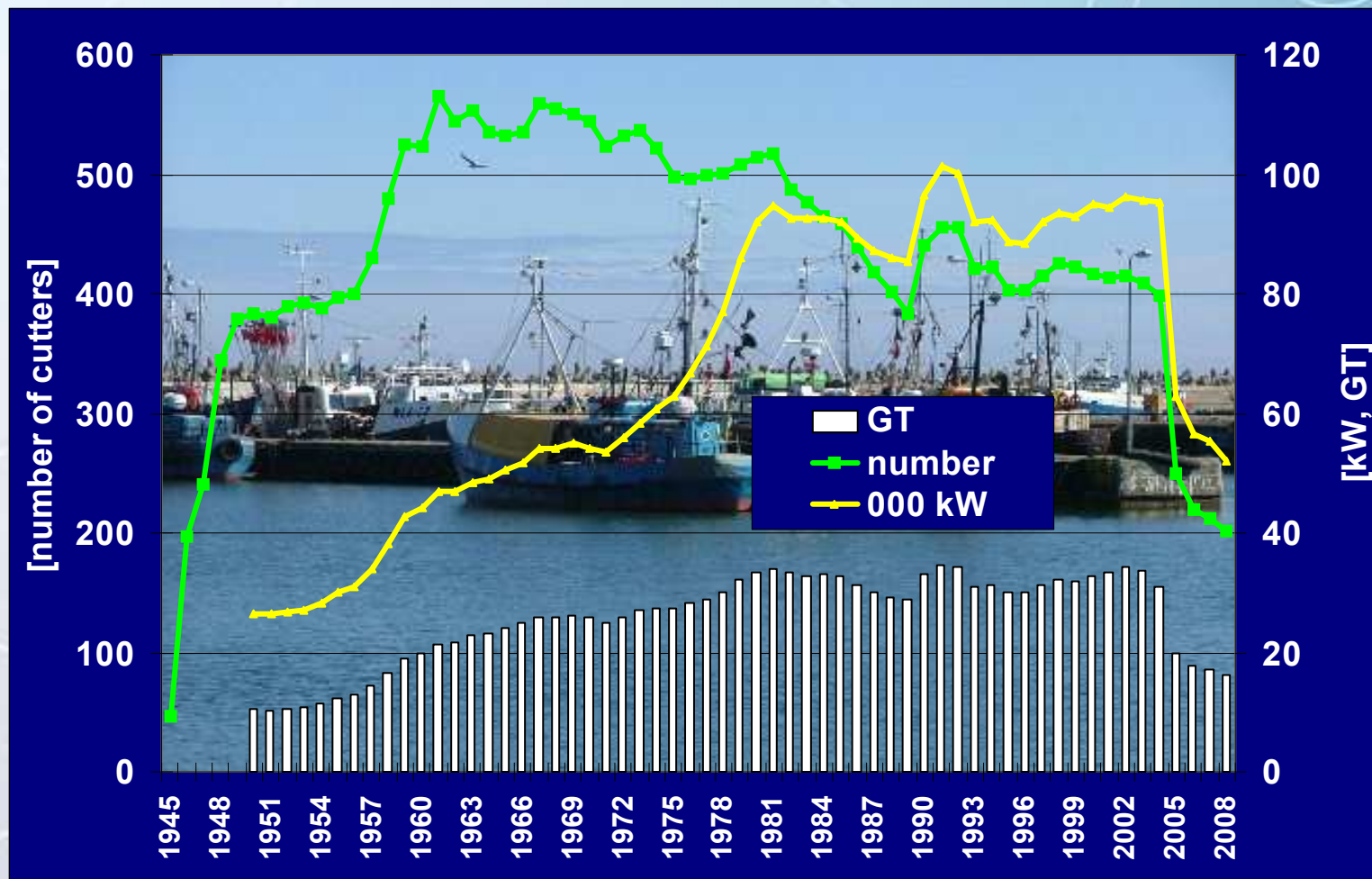
# Development of cod recreational fisheries in Poland



## "Marine life changes"

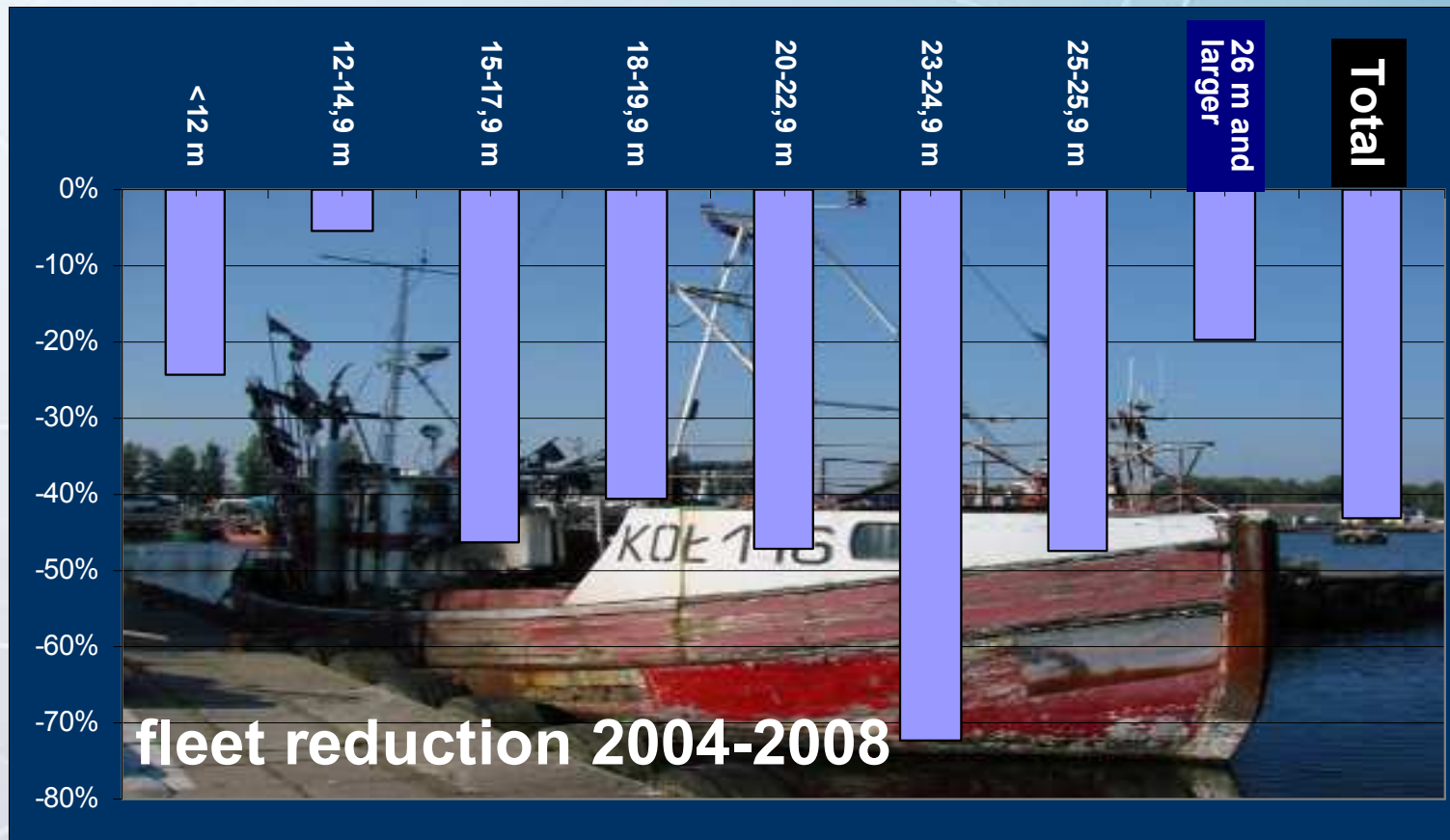
- is presented as a change in a pattern of marine exploitation observed in Polish fisheries
- cod recreational fisheries development and its impact on cod is one of the aspects of the change

# Polish Baltic cutter fleet

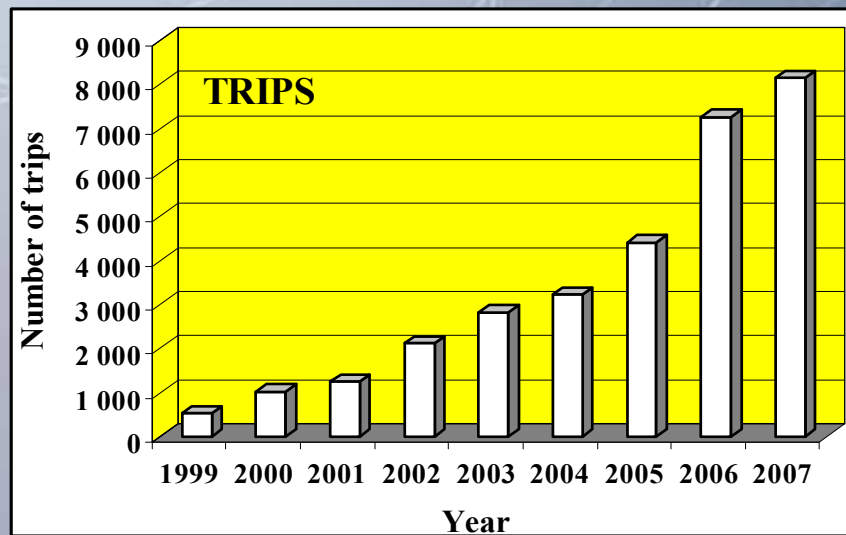
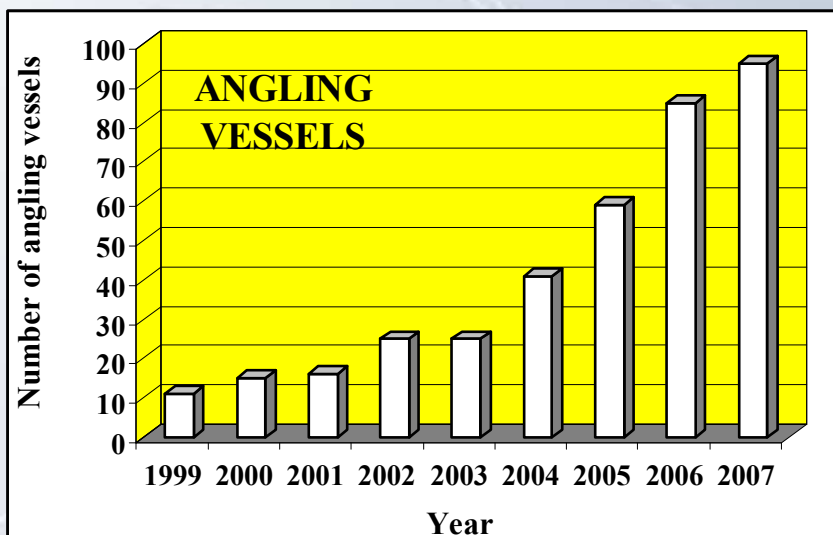
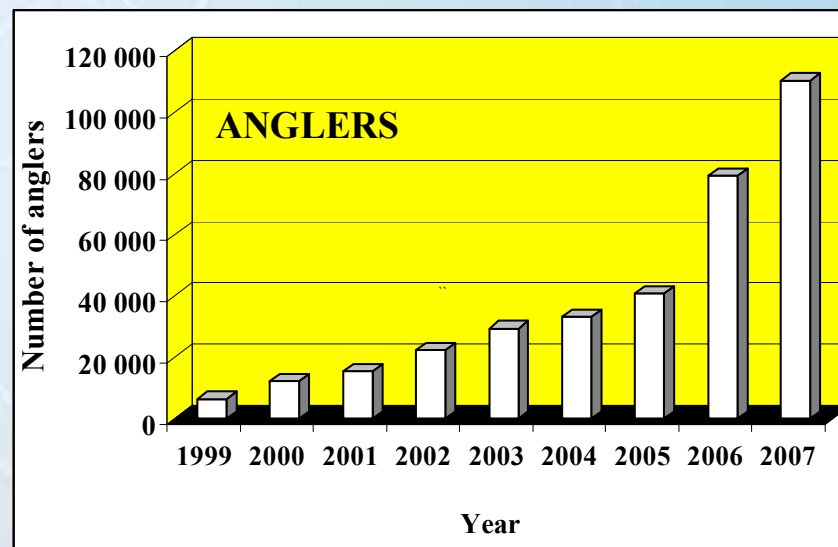




# Fleet decommissioning (GT)

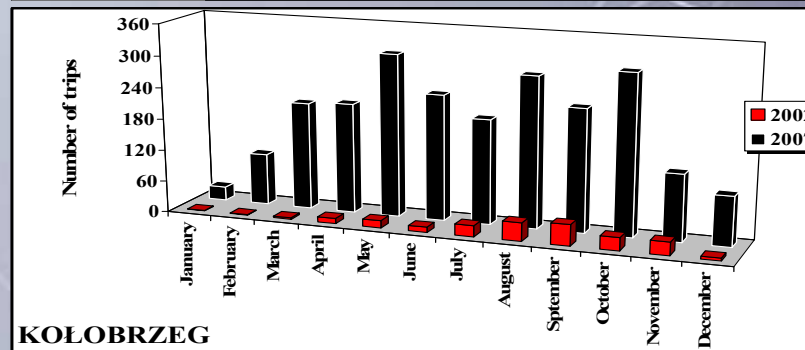
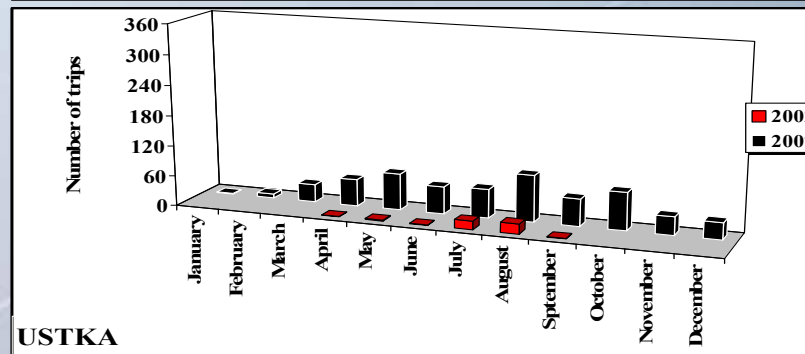
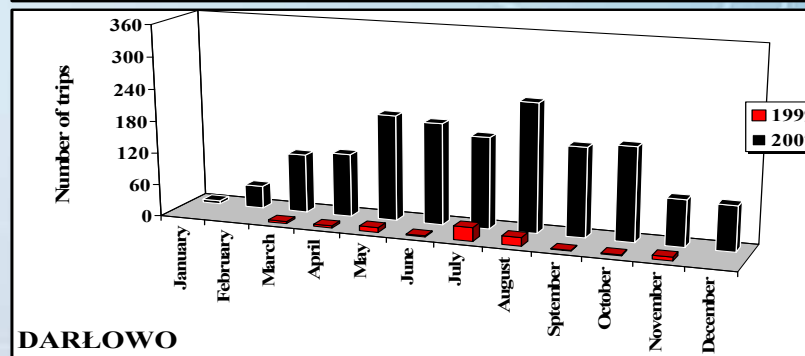
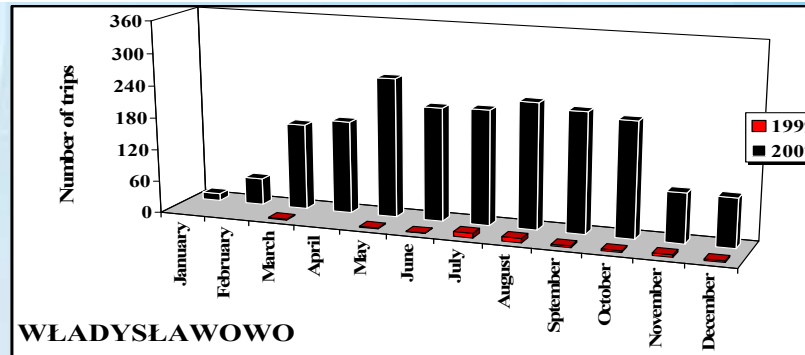


- second half of eighties – first attempts to run cod angling
- second half of nineties – the beginning of cod recreational fisheries development



## Seasonality

cod angling season has recently expanded, covering almost whole year





# Type of vessels exploited in cod recreational fisheries



1. commercial fishing vessels exploited in recreational fishing in a certain part part of the year (summer ban) and for the rest of the year exploited in commercial fishing



2. former fishing vessels withdrawn from commercial fishing (fishing equipment disassembled) and adapted to recreational fishing

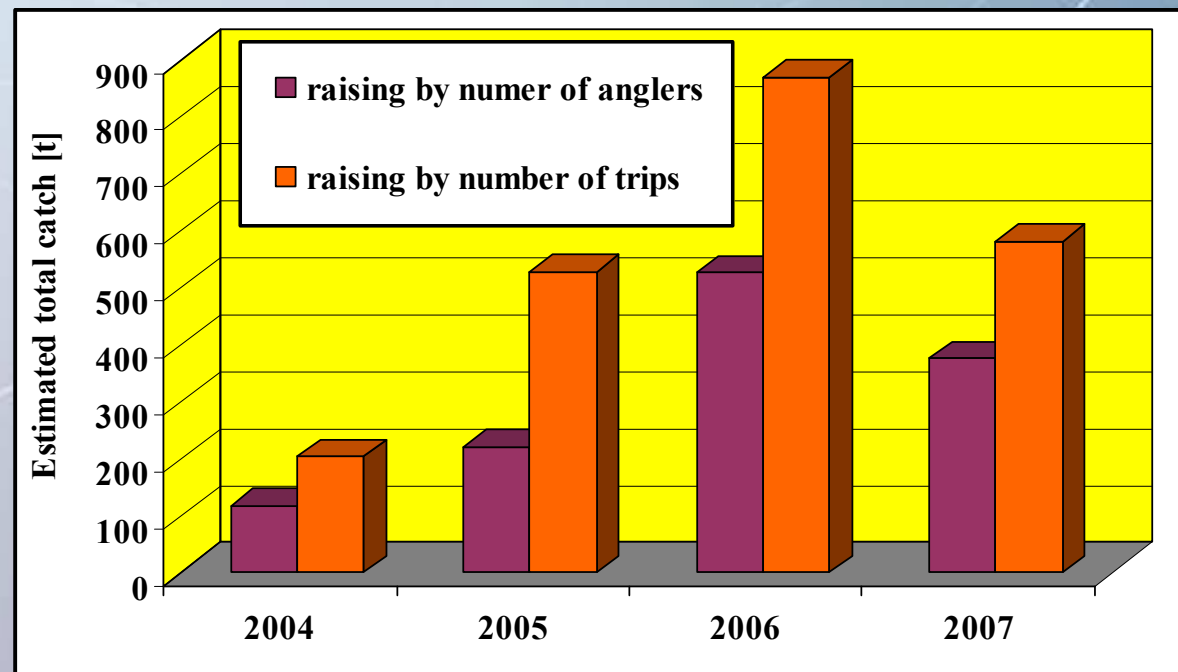


3. other type of vessels (previously never used in fishing)

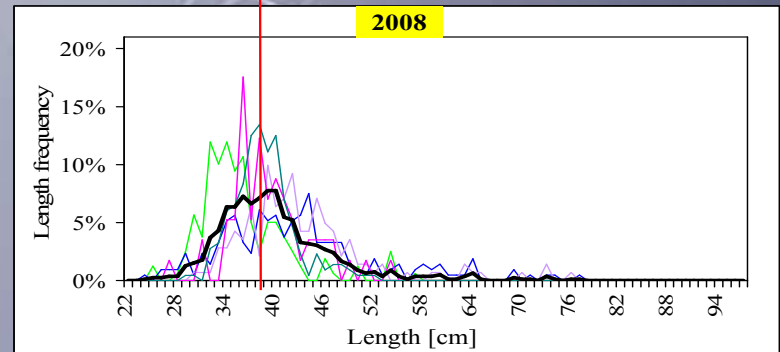
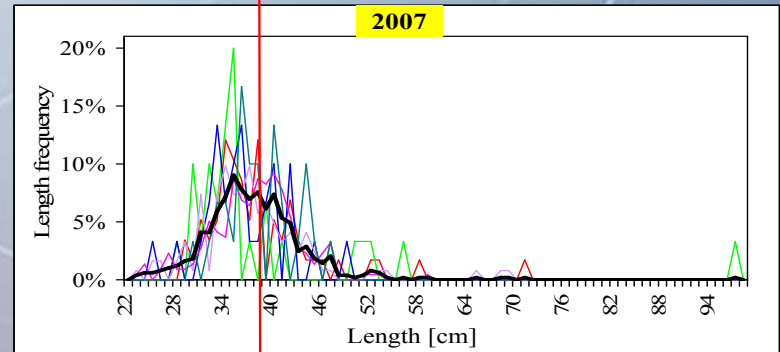
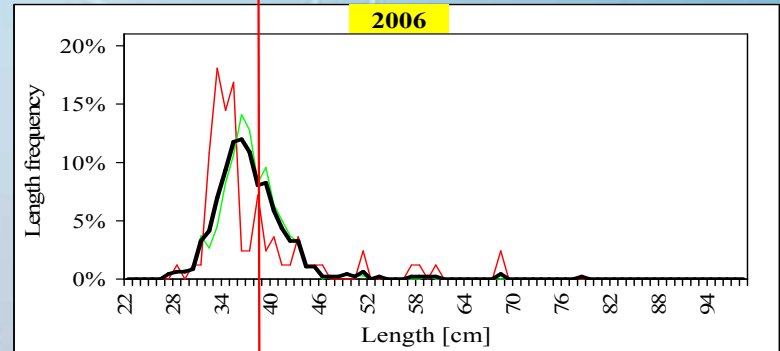
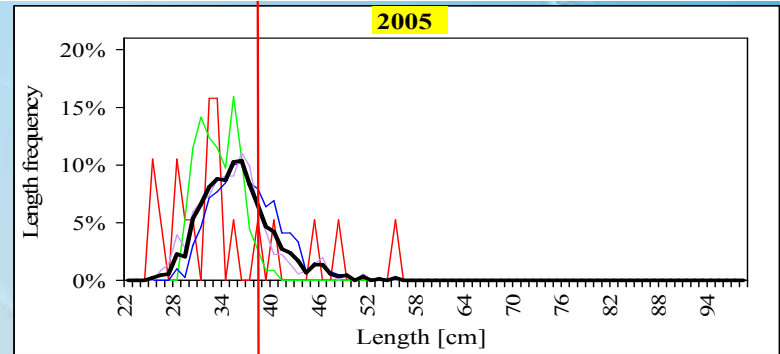
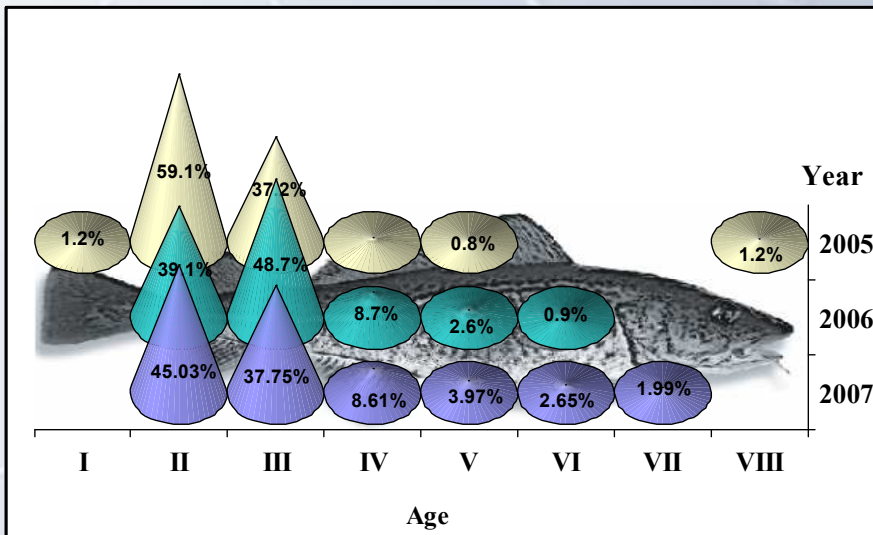


## The estimate of total yearly catch of cod in recreational fisheries

- there is no landind statistics available, therefore total catch can only be an estimated value
- in estimation of total catch, two raising procedures were applied:
  - by number of anglers
  - by number of trips
- total catch of cod in recreational fisheries represented approx. 4-5% of Polish 2007 cod catch quota



# Length and age distributions of angled cod



## Summary:

- **rapid development of recreational fisheries is a world general trend which affects marine life by increasing fishing pressure on some species and their life-span components**
- **recreational fisheries is not regulated in a form applied to commercial fisheries (e.g. total allowable catch), which in consequence requires different methodology to study recreational fisheries**
- **there is a need to strengthen international co-operation in order to find common approach to sampling methods allowing for estimating recreational fisheries and finally evaluating the impact on marine species**