Growth dynamics of Scots pine in Olkusz Ore-bearing Region – preliminary results





Tomasz Zielonka, Piotr Malcher

Institute of Botany PASci, Kraków

Field measurements in the study plots

Tree layer DBH ≥ 10 cm

- measurement of DBH of all trees
- description of species
- measurement of height of 10 15 trees
- extraction of cores from 10 oldest trees (2 cores per each tree)

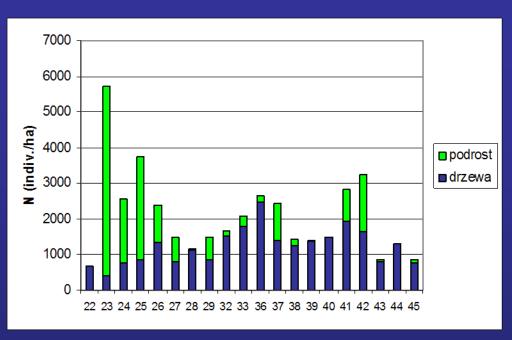
Regeneration: DBH < 10 cm i H >1,3 m

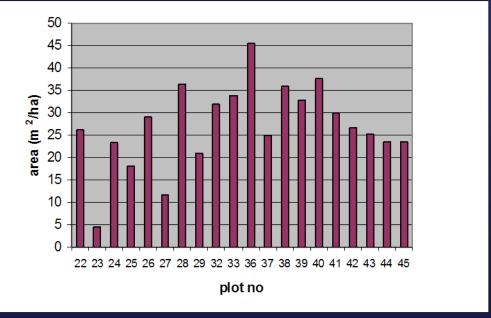
- measurement of DBH of all trees
- description of species



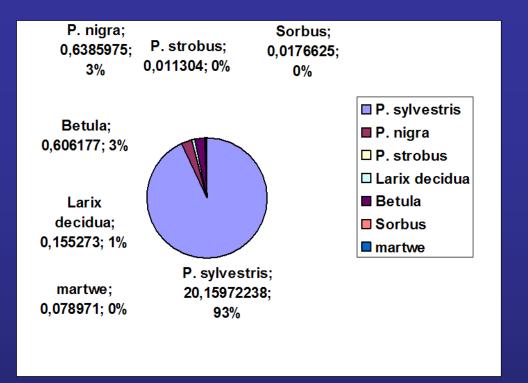
Density of trees and regeneration

Basal area

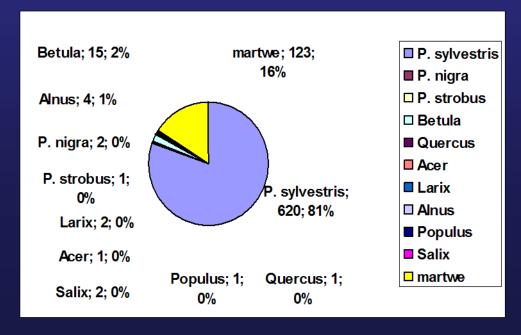


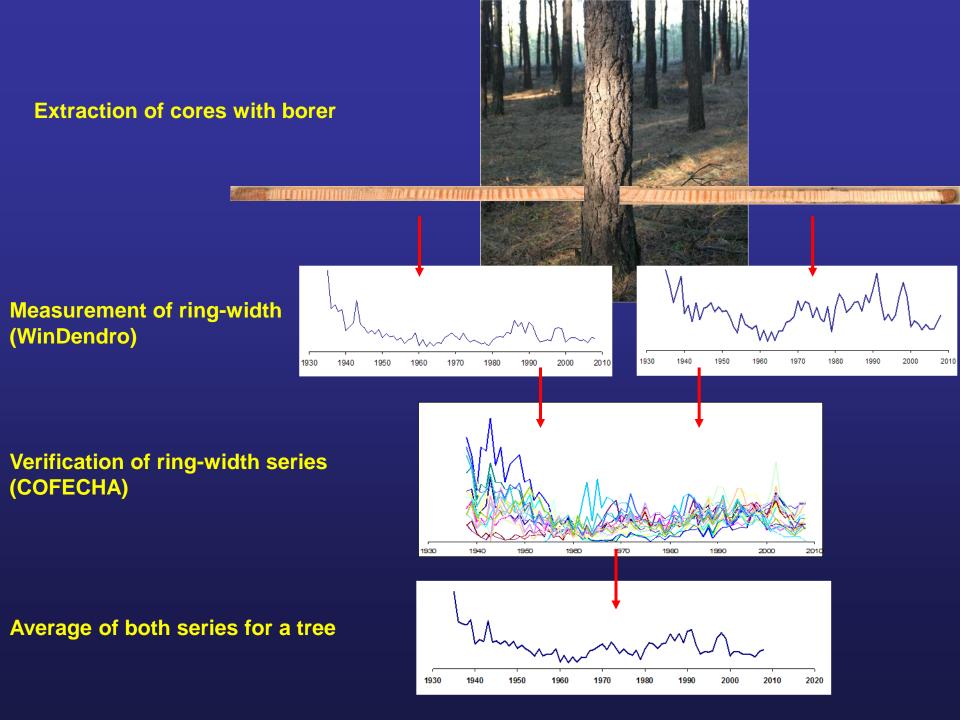


Species composition based on basal area



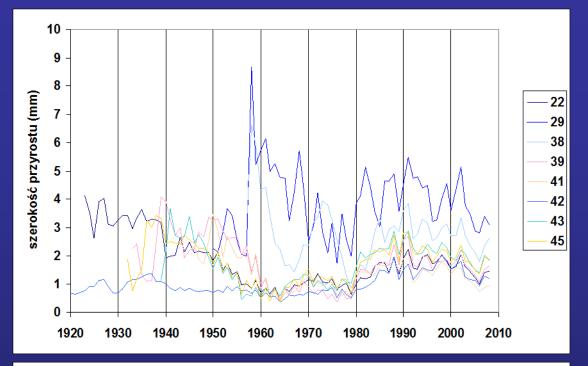
Species composition based on number of individuals

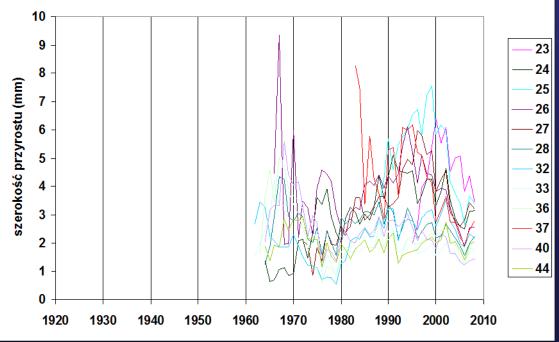




Average ring-width for trees, which germinated before 1960

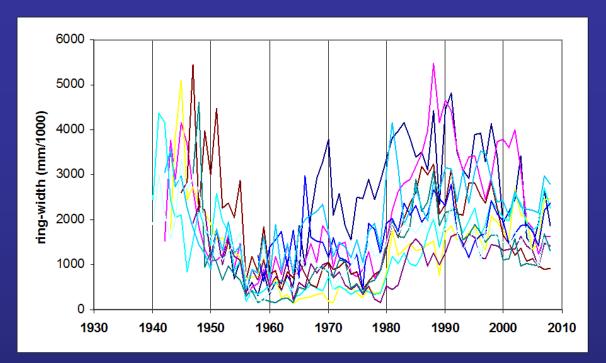
Average ring-width for trees, which germinated after 1960

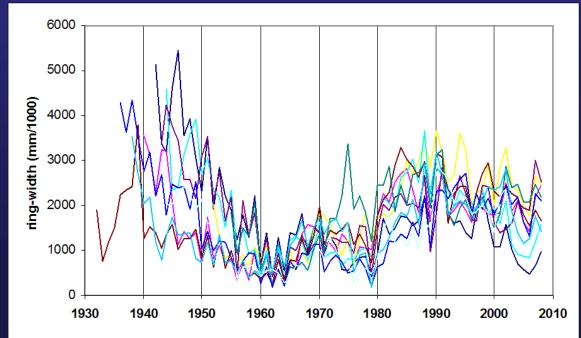


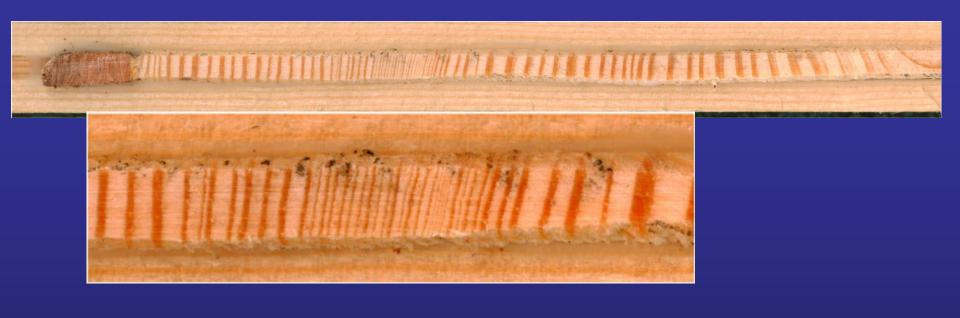


Ring-width series of trees in plot no 43

Ring-width series of trees in plot no 45



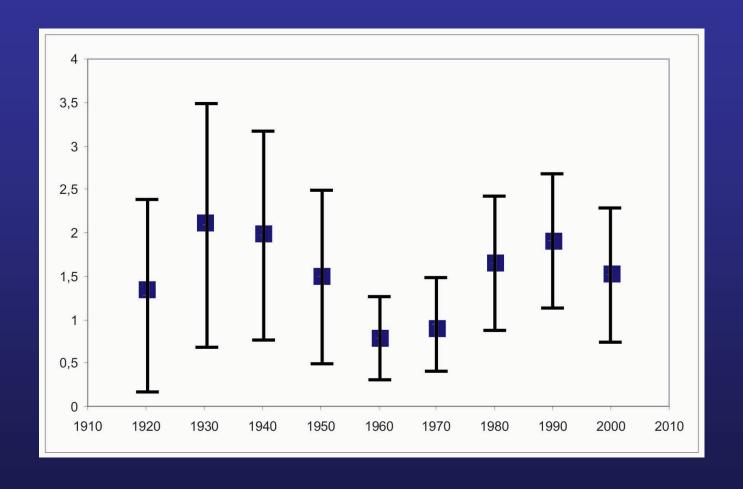


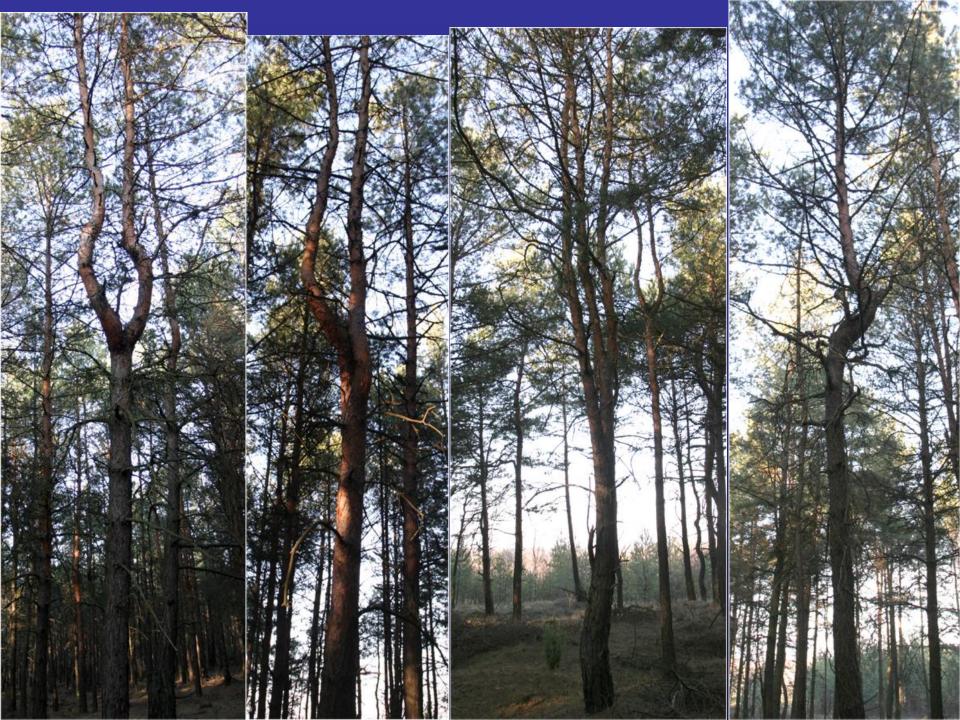






Average decadal ring-width +_ SD for all trees representing 6 the oldest plots









Fungal disease? (e.g. Gremmeniella abietina)

Insects outbreak? (e.g. Rhyacionia buoliana)

