

Environmental changes and effects on wheat yields

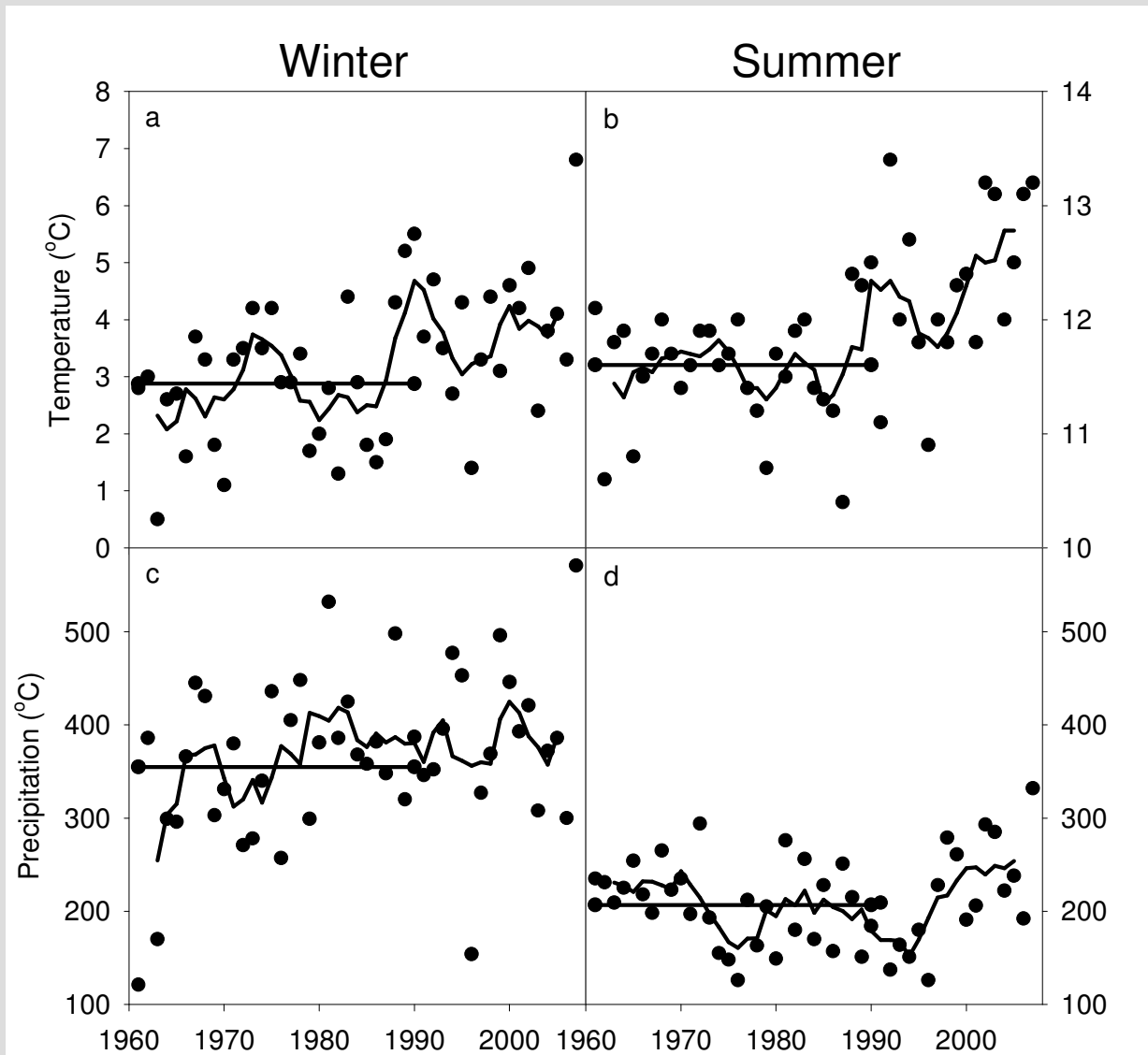
Jørgen E. Olesen



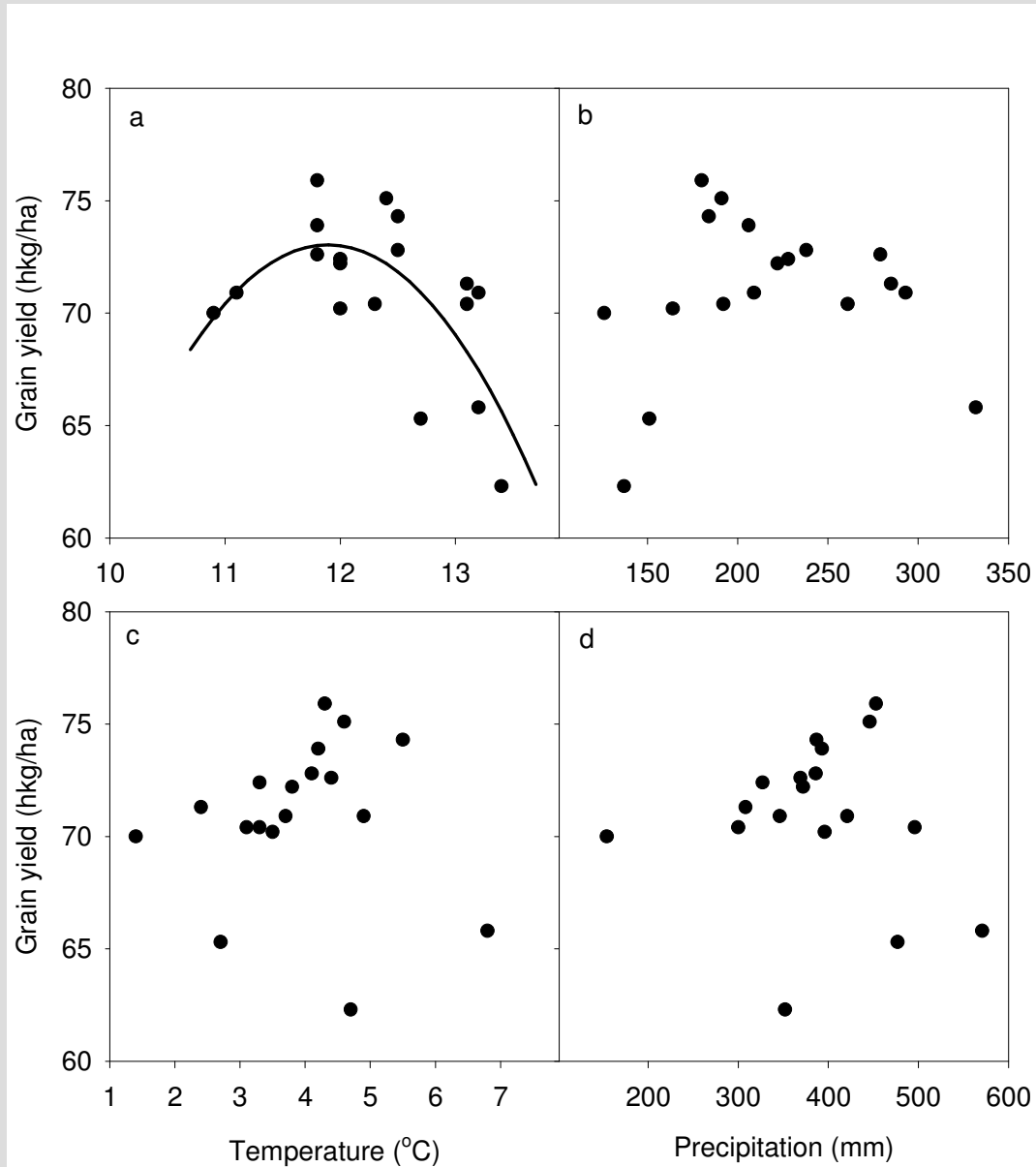
AARHUS UNIVERSITET

Det Jordbrugsvidenskabelige Fakultet

Seasonal change in temperature and precipitation



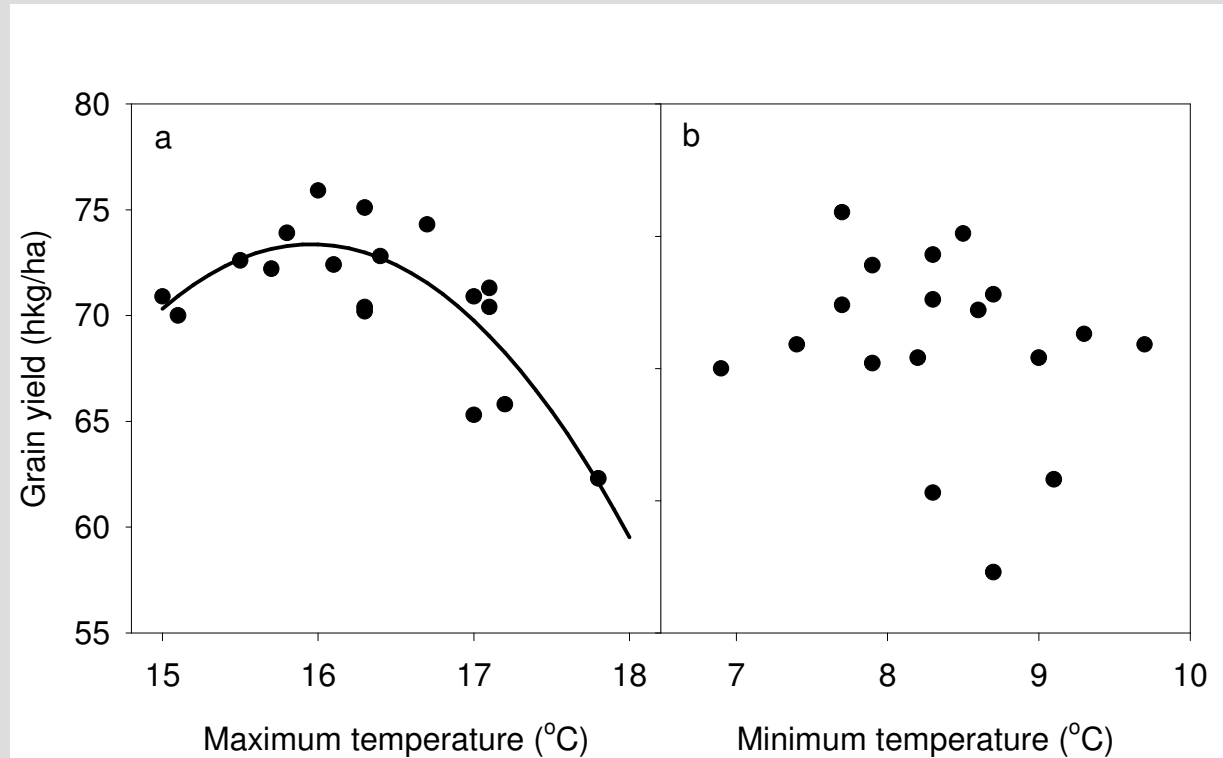
Climate effects on wheat yield



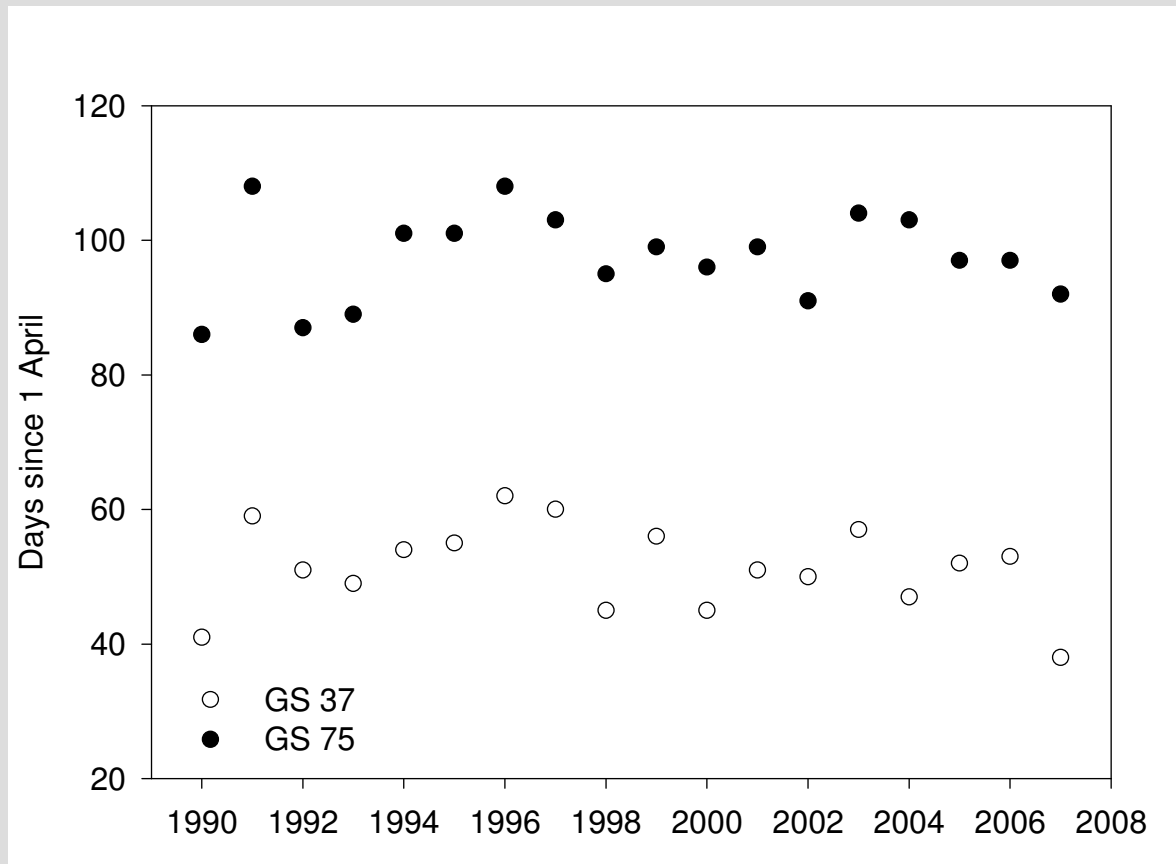
Summer

Winter

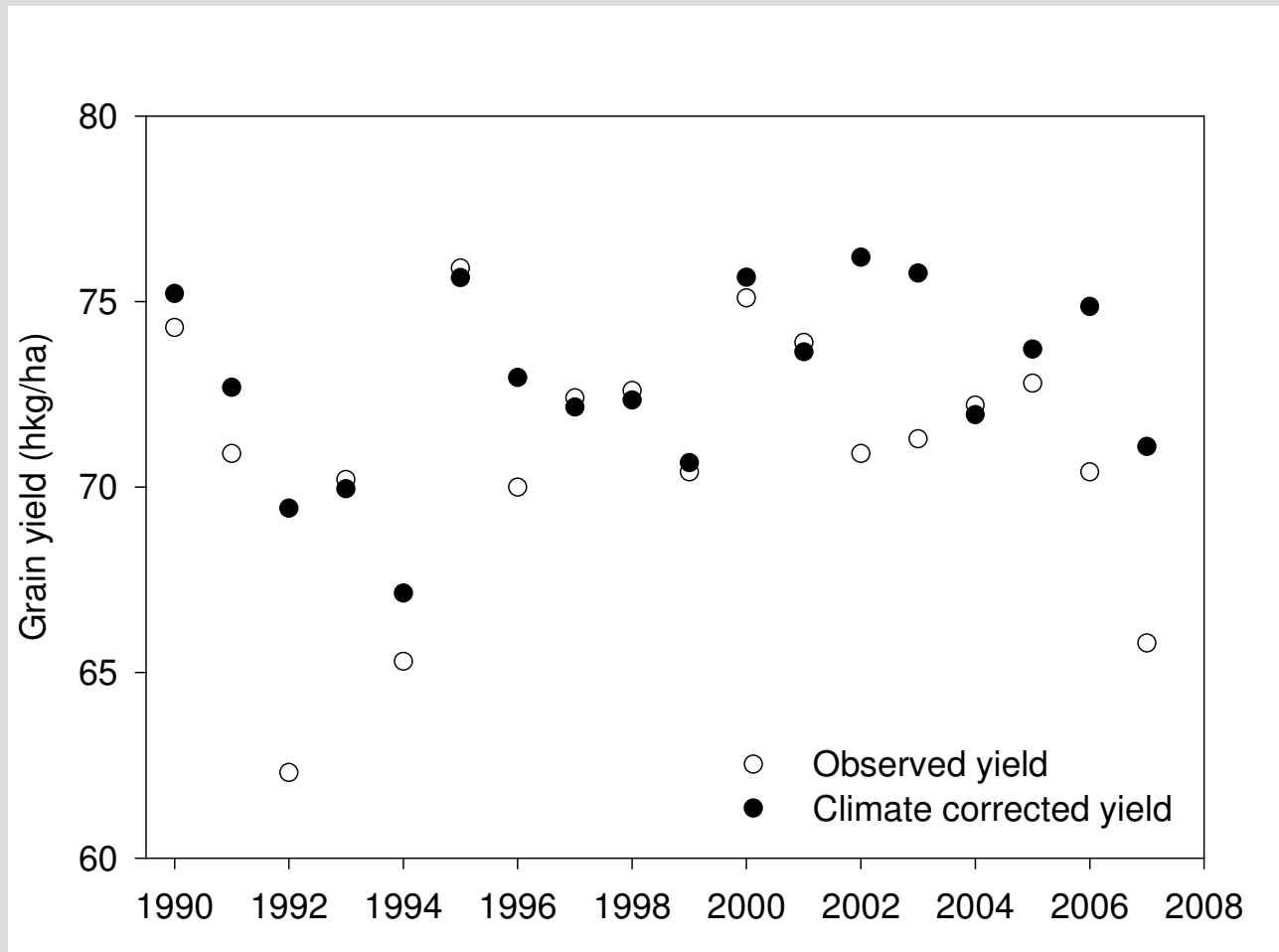
Climate effects on wheat yield



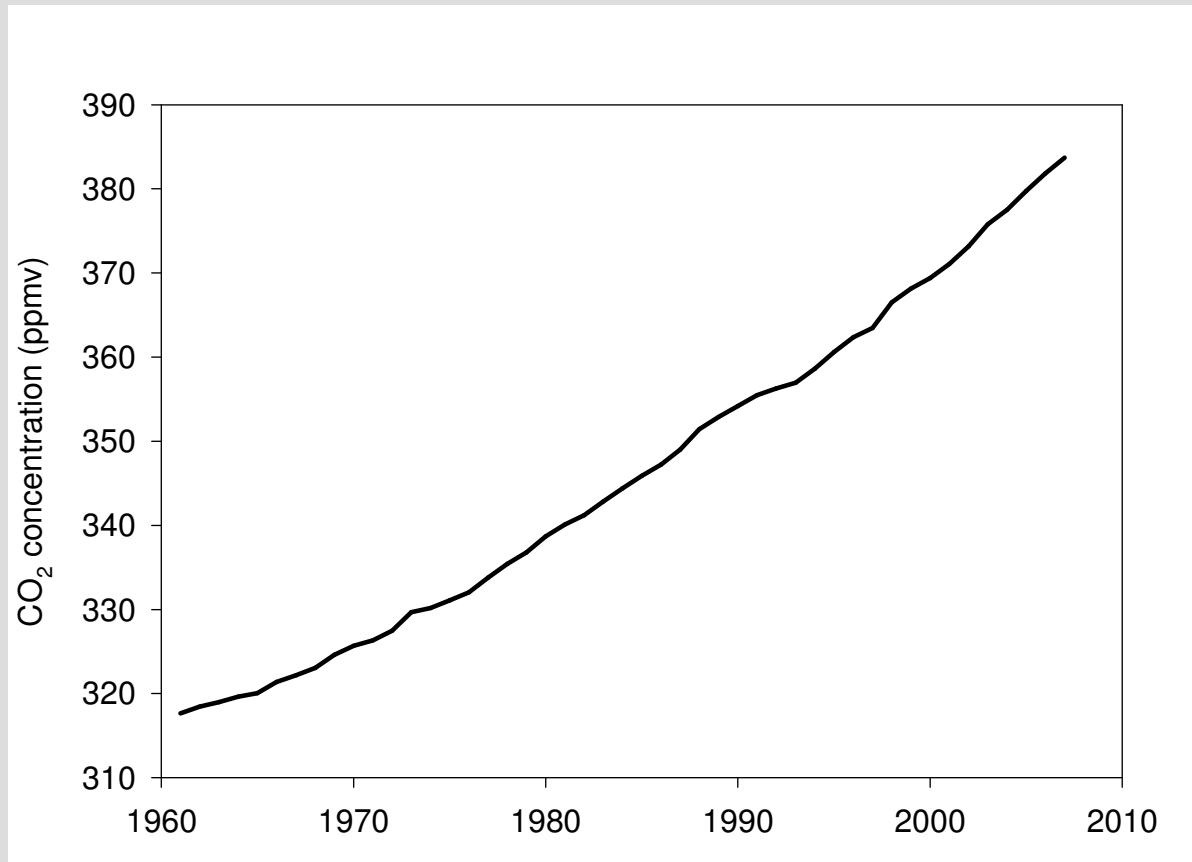
Growth stages in winter wheat



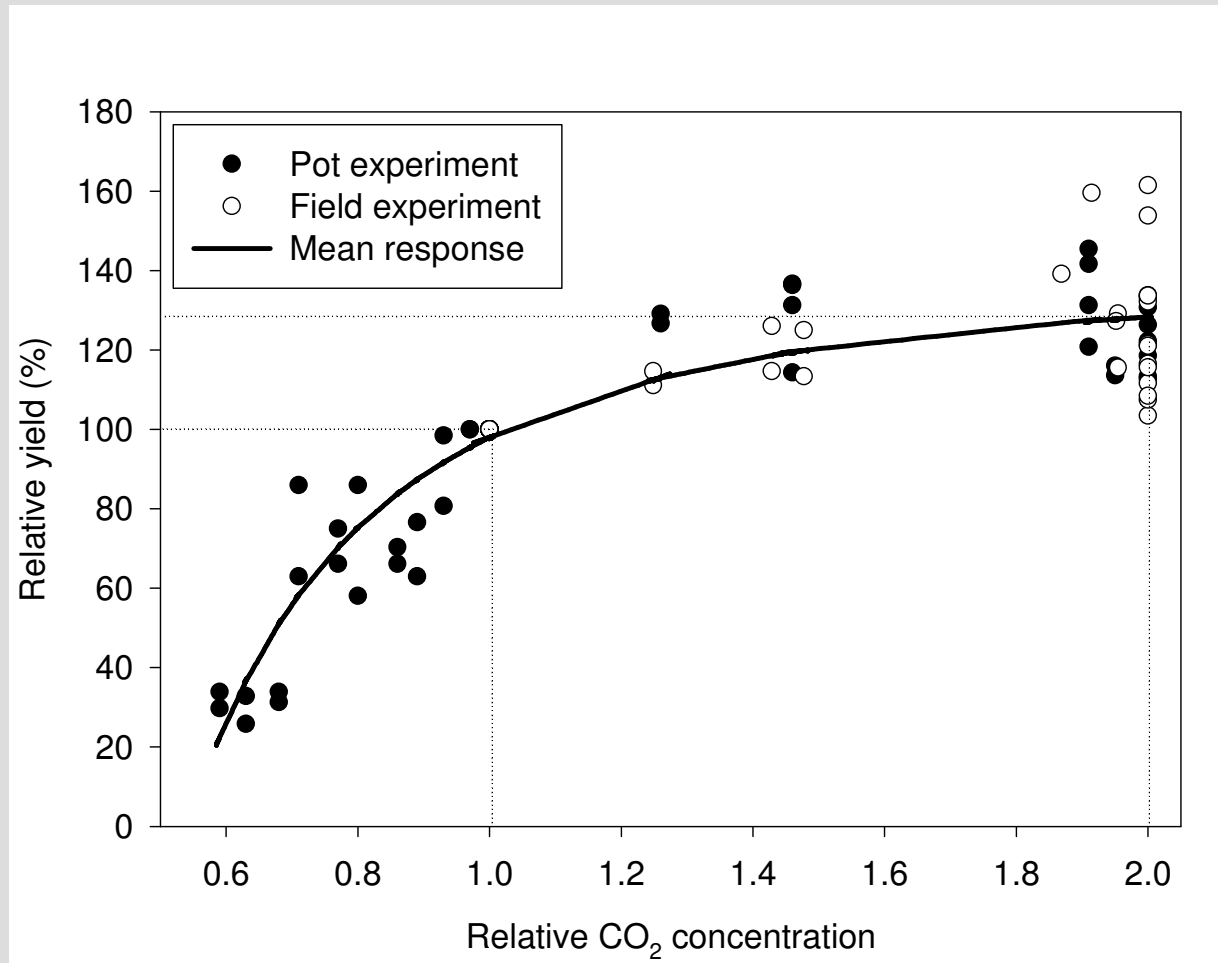
Observed and climate corrected national yields



Change in atmospheric CO₂



Wheat yield response to CO₂



Yield increase during 1990 to 2007: 4% or 3 hkg/ha

National wheat yields corrected for climate and CO₂

