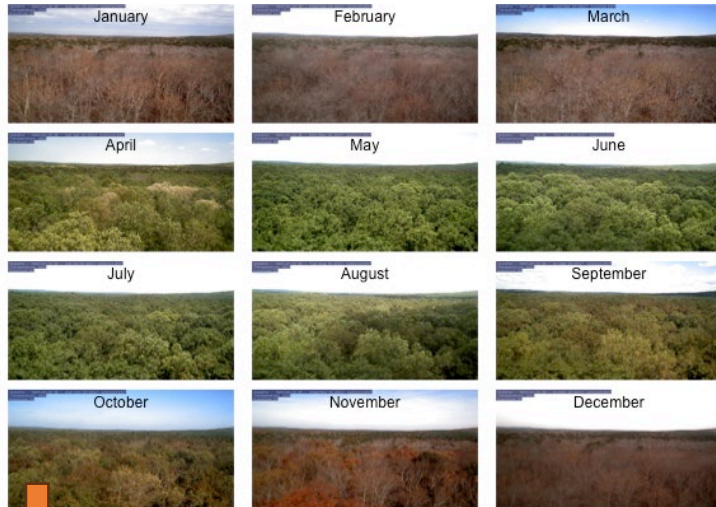


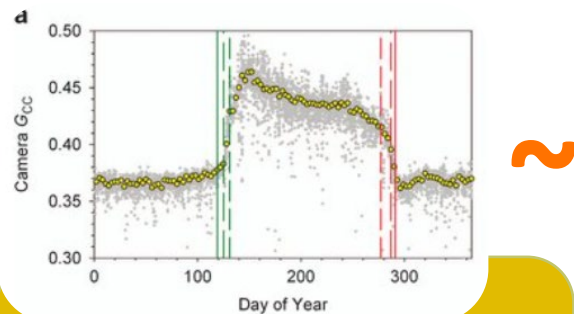
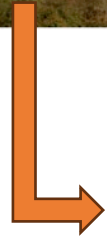
Phenology, climate extremes and carbon uptake in temperate forests



Forests capture CO_2 from the atmosphere and store it as biomass. This makes **forests important carbon sinks**.

Climate change might **lengthen the growing season** with potential for **increased CO_2 capture**. However, forests **also suffer from increasing temperatures and more intense droughts**.

In this MSc thesis we evaluate how long term variation in phenology and climatic conditions impact on atmospheric carbon exchange in multiple European forests.



Phenology by continuous **phenocam** monitoring



Climatic conditions by continuous **meteo** data



CO_2 fluxes by continuous **eddy covariance** measurements