



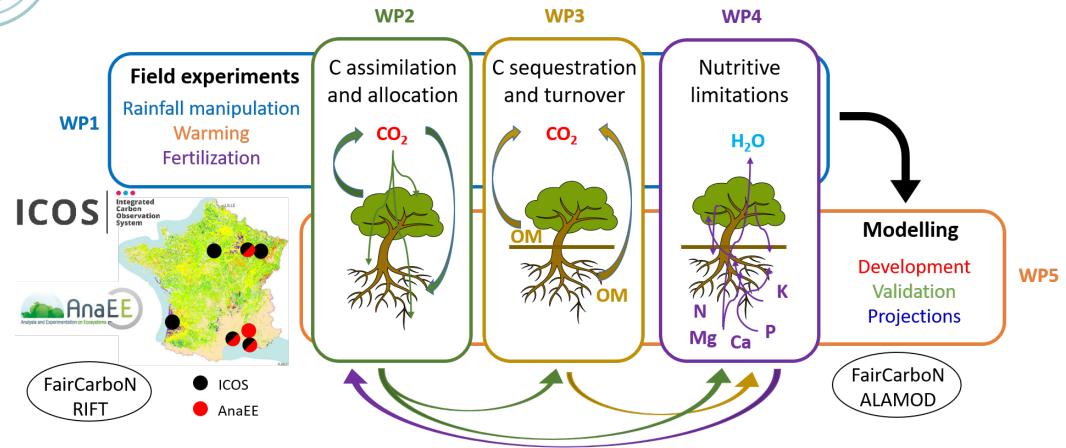








Drought ForC – Climate change impacts on C sequestration in forests





Monitoring, experiments and modeling



Long-term monitoring of forest C fluxes

Eddy covariance measurements of CO_2 and H_2O exchanges with the atmosphere \rightarrow ICOS ERIC network of Ecosystem stations







Rainfall manipulation experiments

Gutters or mobile roofs preventing the precipitation from reaching the soil

AnaEE research infrastructure of open-air experimental stations

in AnaEE-France



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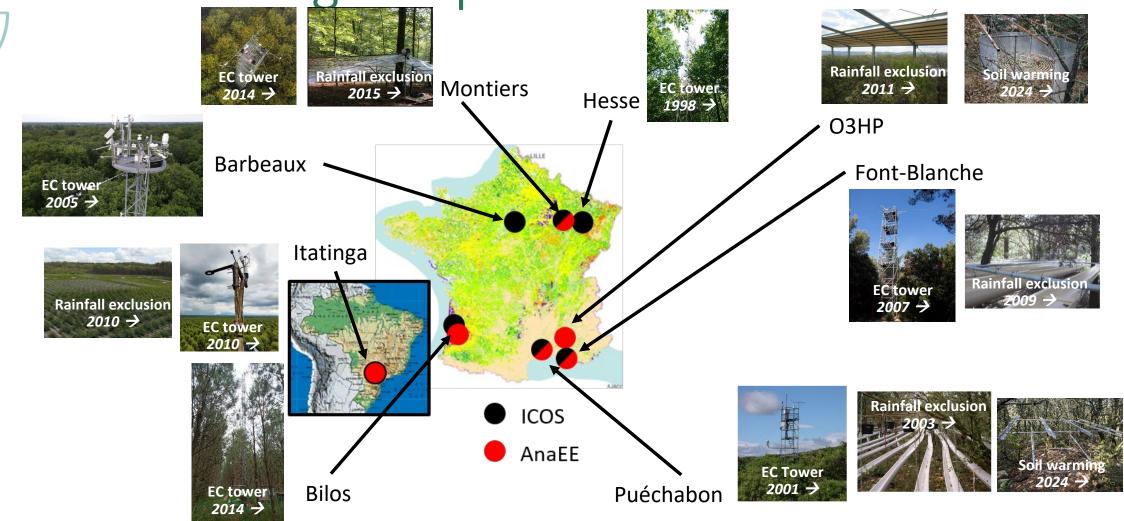
Numerical simulations with forest process based models

Wide diversity of hypotheses and mechanisms in forest models \rightarrow A large number of forest models developped and used in France \rightarrow 11 forest models brought together for the first time





A network of eight experimental sites





Drought ForC highlights in 2023-2024



37 people from 9 research units participated to the kick-off meeting in Montpellier in 2023

2 PhD students have been hired in october 2024:

- **Jeanne Poughon**: carbon allocation
- **Philippine Dubertrand**: modeling NPK cycles

Soil cores collected in all the sites and experimental treatments in spring 2024:

- Root biomass
- Soil carbon and nutrient content
- Root carbon and nutrient content
- Root in-growth cores installed to be collected in 2025 and 2026



PROGRAMME DE RECHERCHE
CARBONE ET ÉCOSYSTÈMES CONTINENTAUX

- Gather the data regarding net primary production in all the focal forest sites
- Start common experiment on litter decomposition
- Collect and centralize plant and soil samples from the different sites for common analyses
- Format data sets for the modelling WP ← ALAMOD
- Start a new experiment to manipulate soil temperature





