

STICS & MAESPA Models

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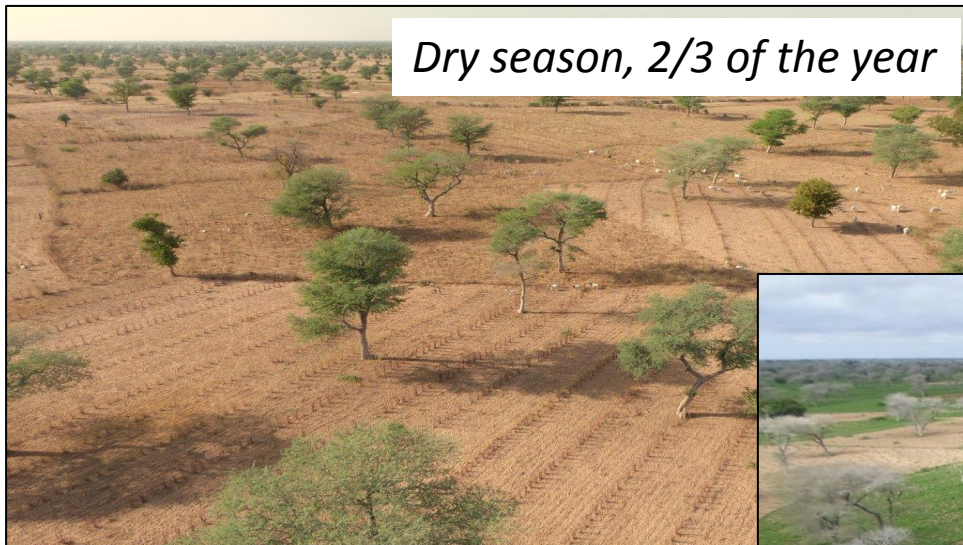
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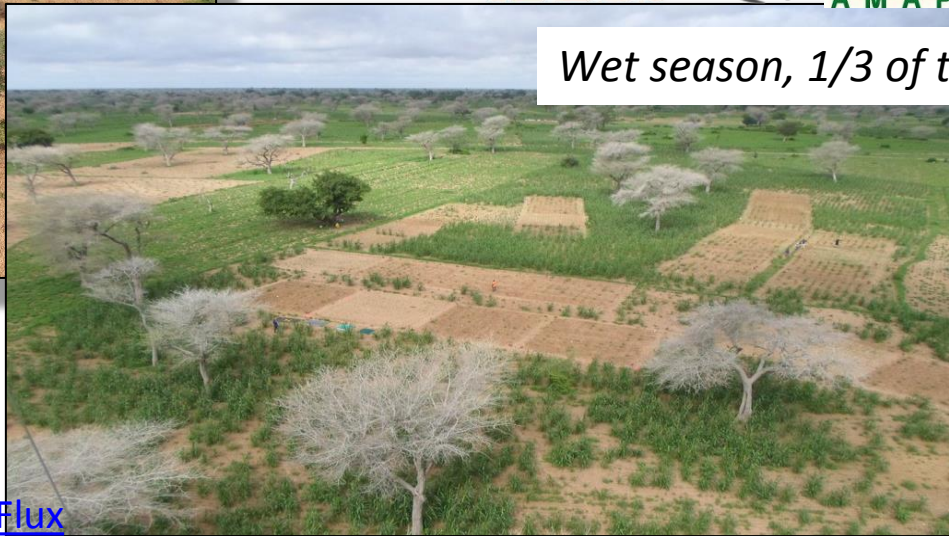
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“*Faidherbia-Flux*”: A long-term Collaborative Observatory on food security, GHG fluxes, ecosystem services, mitigation and adaptation in a semi-arid agro-silvo-pastoral ecosystem (groundnut basin in Niakhar/Sob, Senegal)

Dry season, 2/3 of the year



Wet season, 1/3 of the year

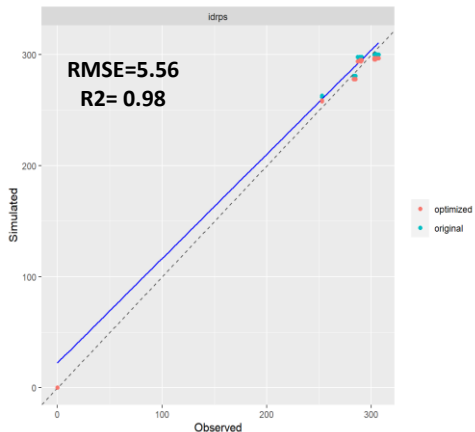


“*Faidherbia-Flux*” Web site :
<https://lped.info/wikiObsSN/?Faidherbia-Flux>

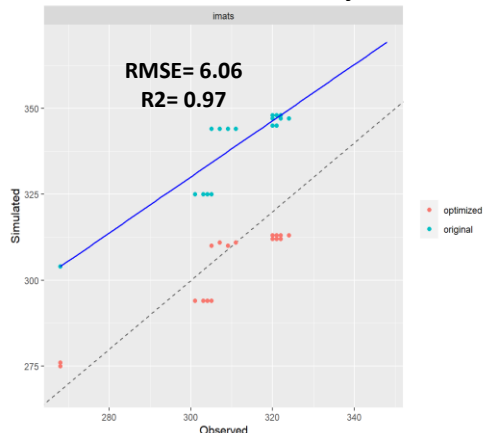
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Calibration and optimization of the STICS model on pure and agroforestry millet in a tropical environment: case of the Senegalese groundnut basin

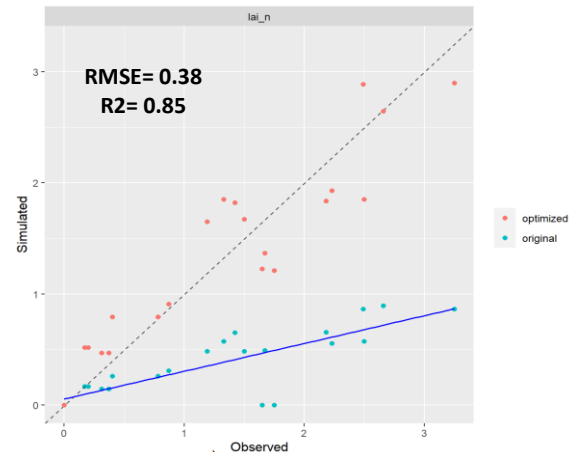
Grain Filling



Grain Maturity



LAI



STICS parameters calibration was satisfactory for the phenology (grain filling et maturity), and the Leaf Area Index, according to RMSE and R^2

Study in progress

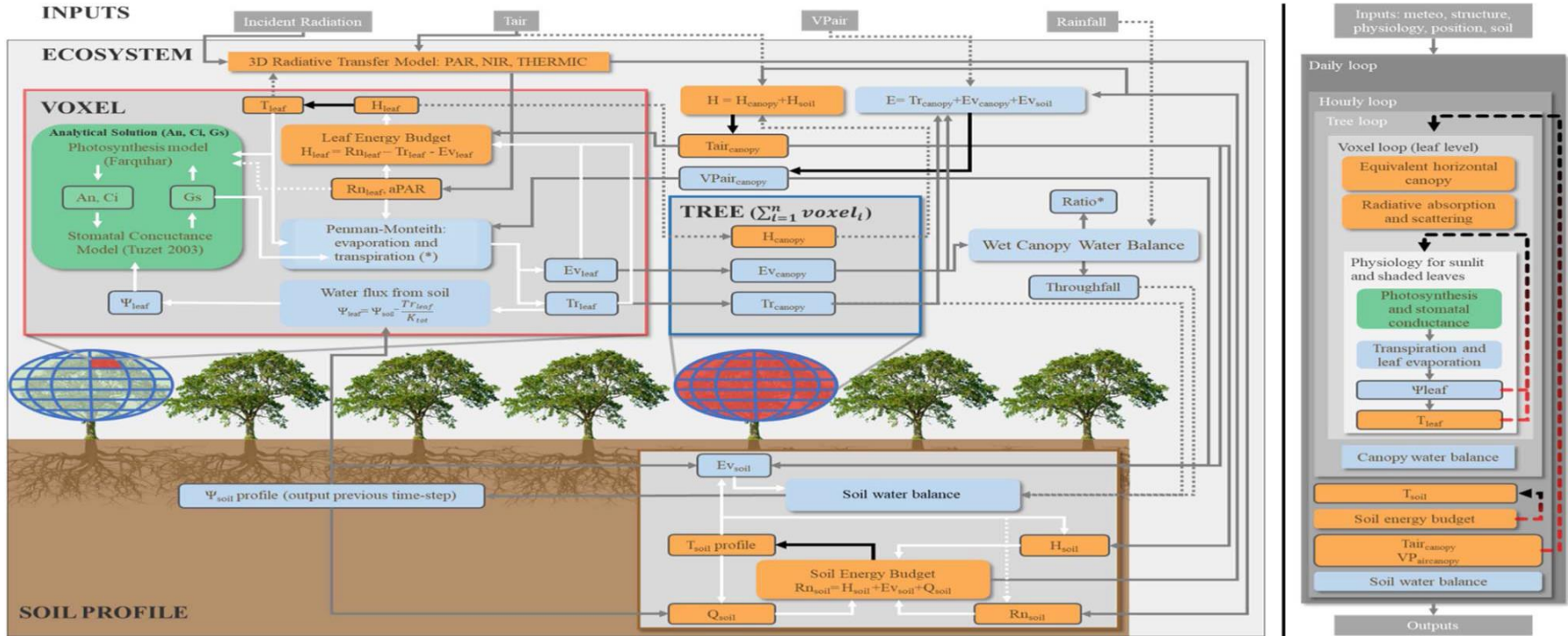
Rainy season, period of the millet growing period from jullet to october



Dry season leafing period of F. A Trees



Overview of MAESPA model



Detailed MAESPA model workflow.

Some test simulations (in progress)

