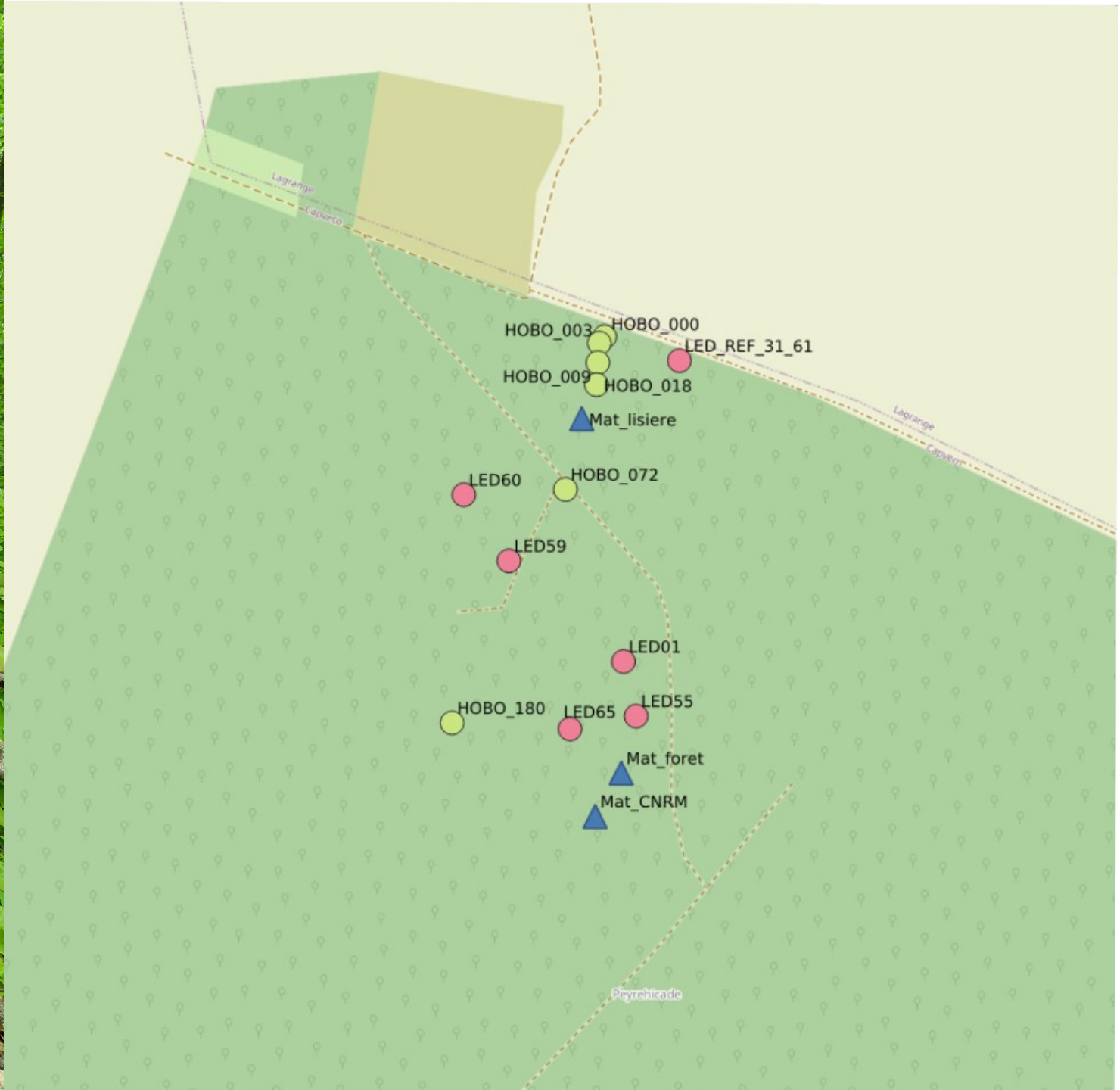




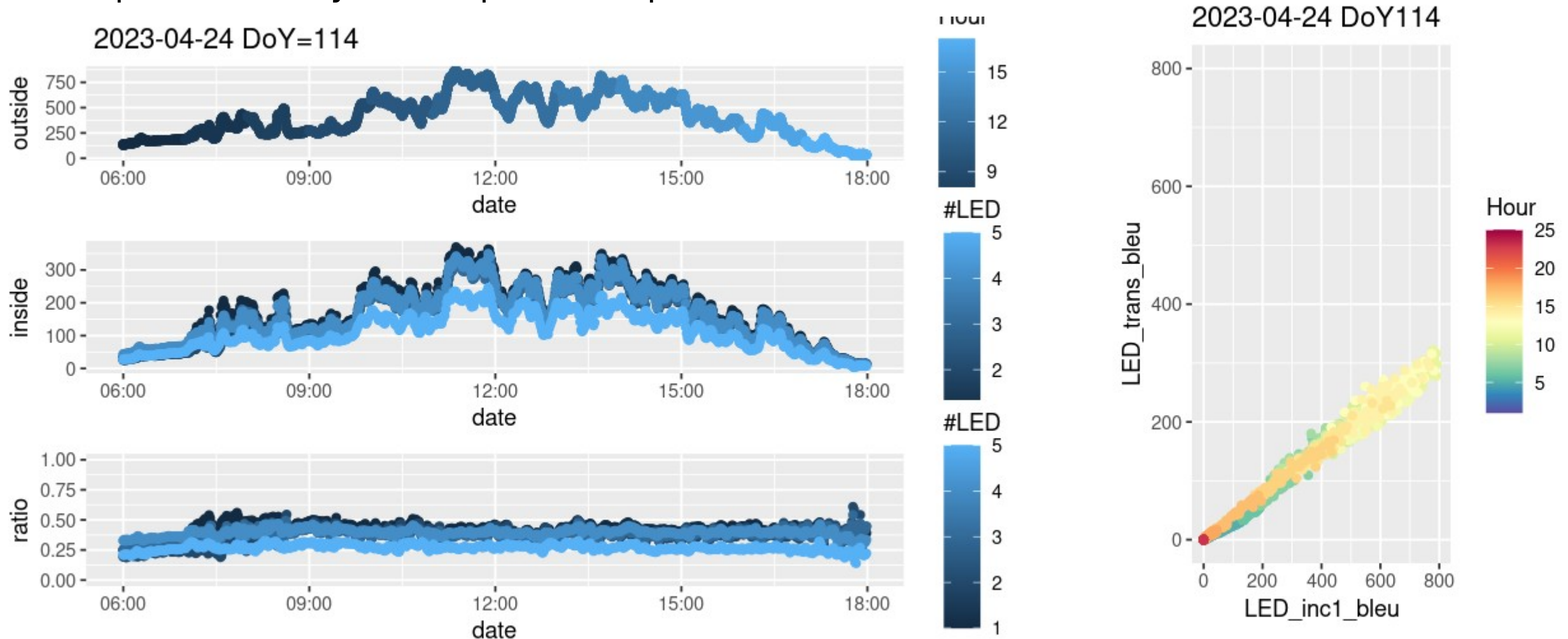
➤ Phenology Lannemezan

Sébastien Lafont
Sylvia Dayau
Myrtille Grulois
Cyriane Garrigou

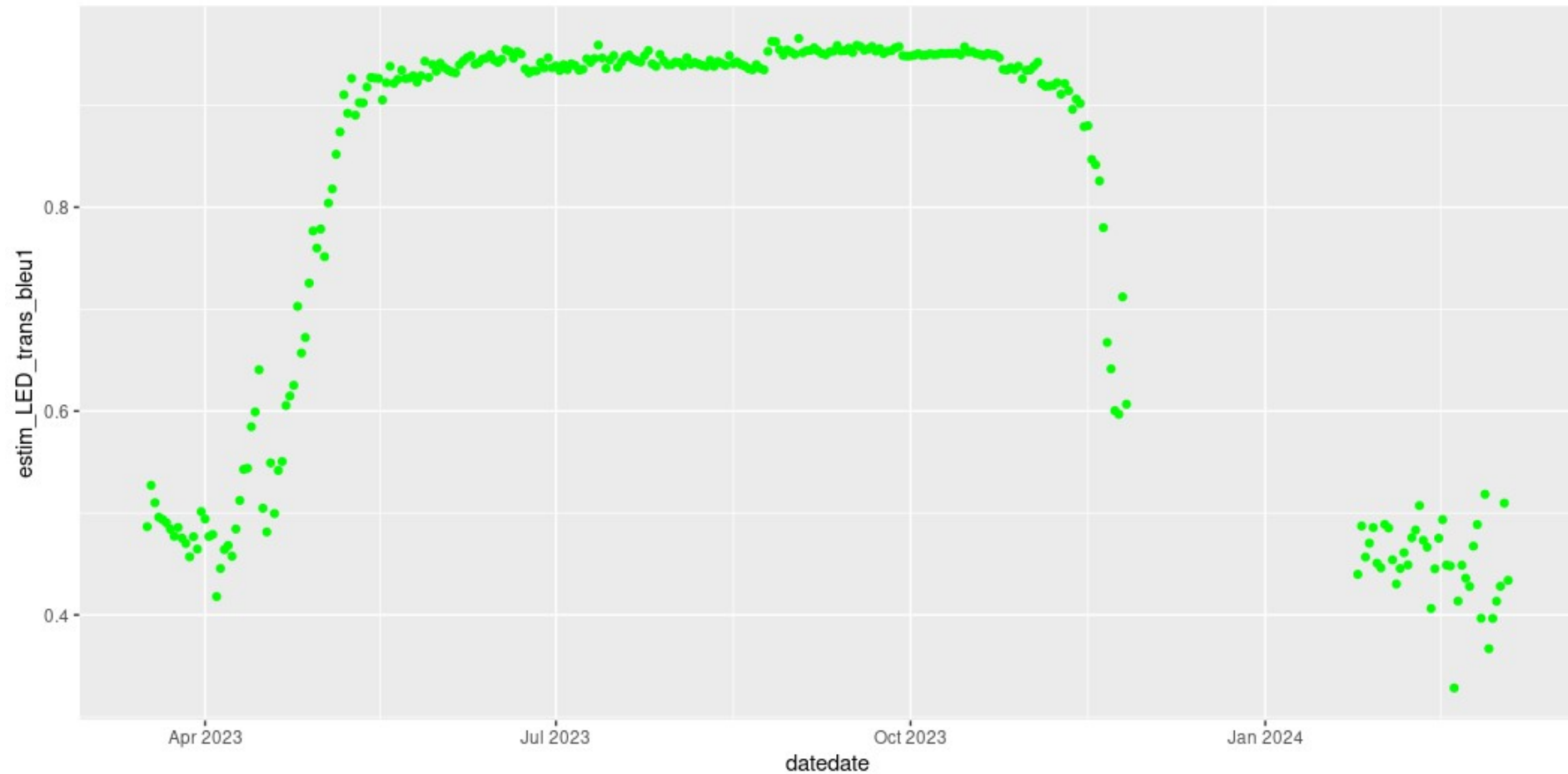


Estimation of Light interception

- 1) lights sensors inside (n=5) and outside (n=2) the forest. Acquisition every minute
- 2) compute the daily interception : slope of $R_{inside} / R_{outside}$



Temporal Dynamic of Light interception



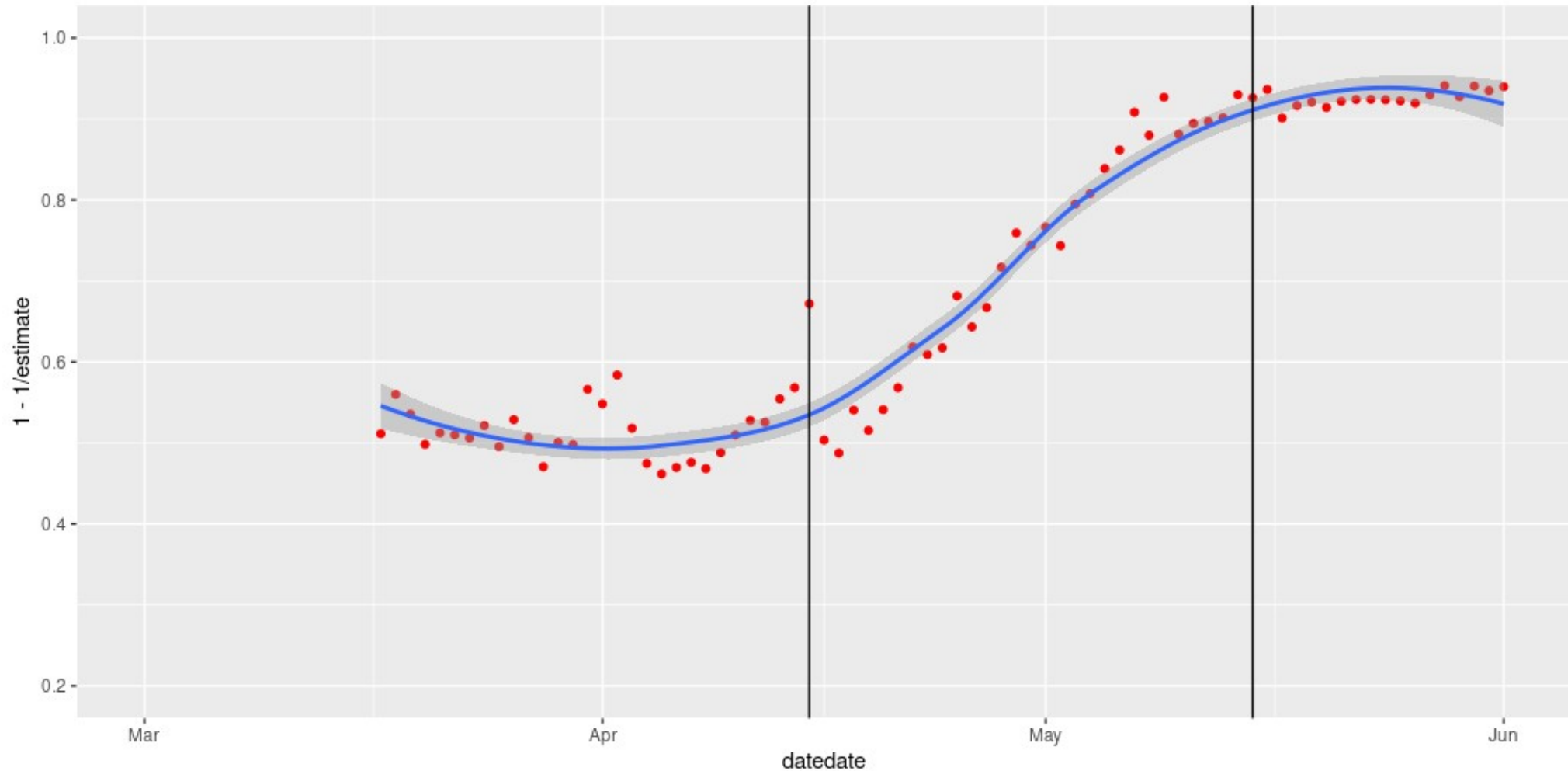
INRAE

Titre de la présentation

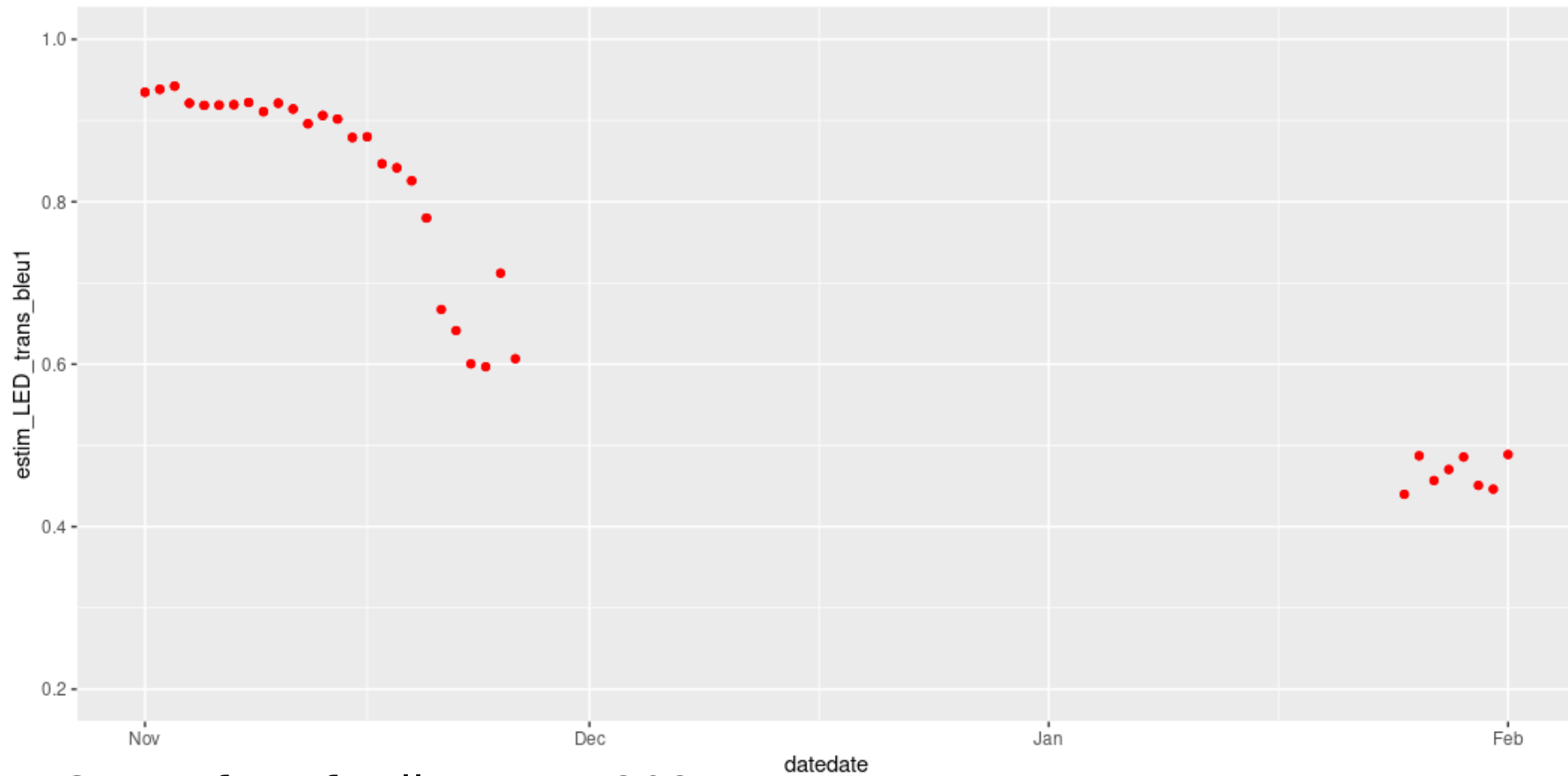
Date / information / nom de l'auteur

Light interception, zoom on spring period :

Leaf emergence : 15 April 2023
Leaf full development : 15 May 2023



End of Season



INRAE Start of Leaf Fall : 15/11/2024

Titre de la présentation

Date / information / nom de l'auteur

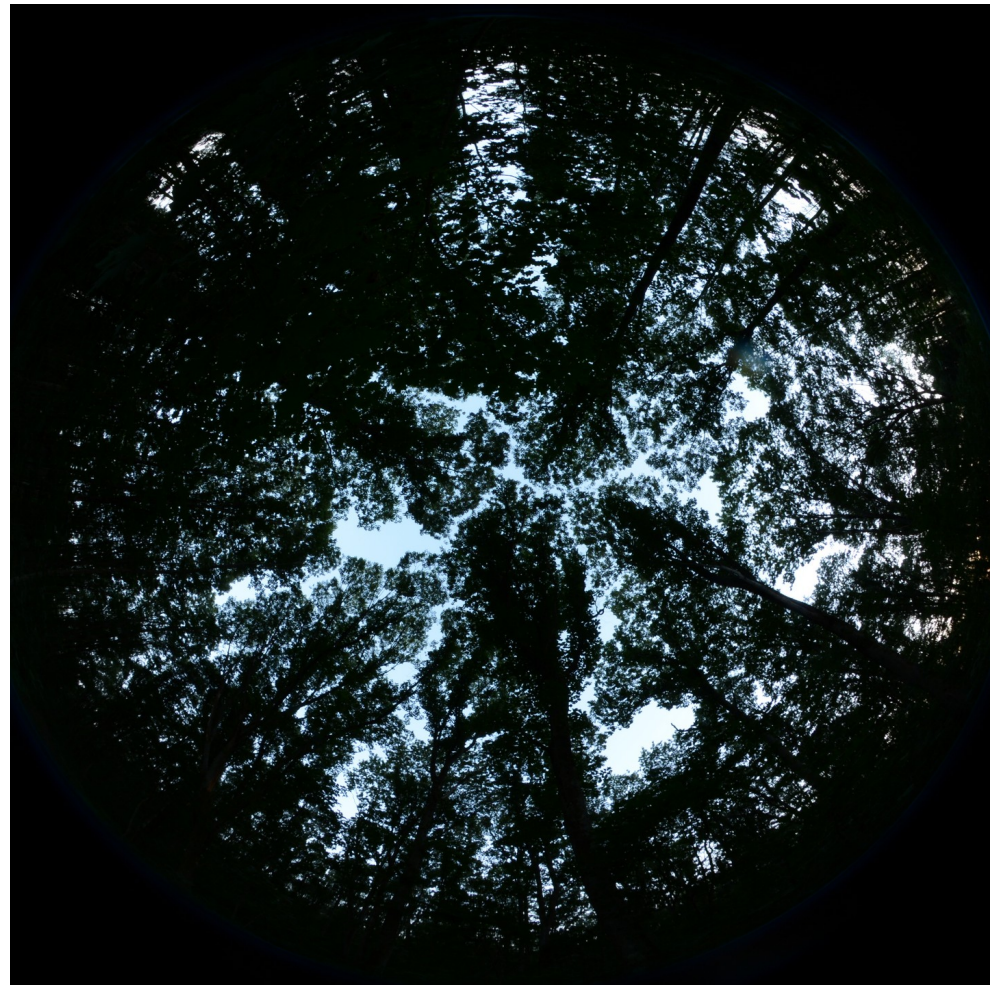


Estimation by Hemispherical picture

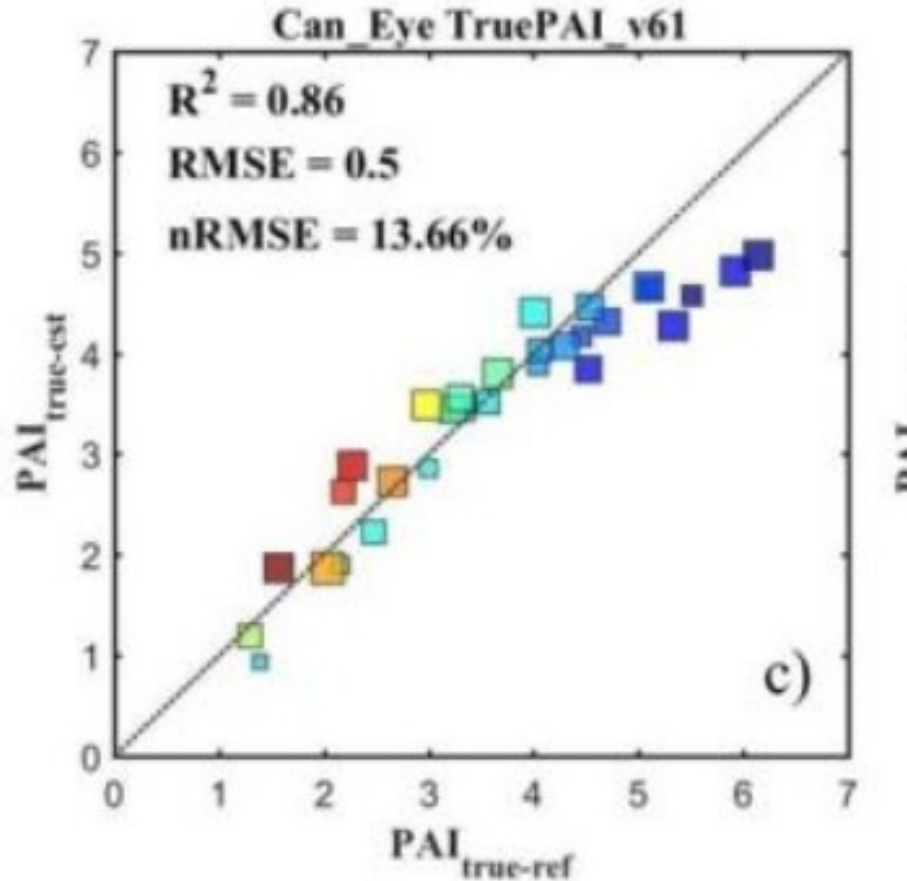
14 April 2023



20 August 2023



Estimation by Hemispherical picture



- Numerical simulation of 30 different forests (various tree size and distribution) with a DART-like model
- Numerical simulation of hemispherical picture.
- Comparison of simulation and CAN-EYE results

DHP results

Image processing with CAN-EYE (<https://can-eye.paca.hub.inrae.fr/>)

Date	Fapar	Effective PAI	PAI
19/04/2023 (evening)	0.48	0.8	1.1
20/04/2023 (morning)	0.50	0.9	1.5
20/08/2023 (evening)	0.8	1.9	3.4



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TO DO

- Create a daily estimation of forest LAI based on light interception and DHP. For surface models runs ?
- Look at the link fluxes / LAI. (obs+ model ?)
- Compare with 10m copernicus LAI maps
- Put data on MOSAI website.

