

# Microalgae bio-reactive façade: system thermal-biological optimization

## Supplementary materials

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### Outdoor temperature, clear sky incident illumination, and the cloud cover maps

Figure 1, 2, 3 and 4 present the average outdoor temperature, the clear sky incident illumination (DNI), the cloud cover, and the effective light resource over France for the four trimesters of the year 2023.

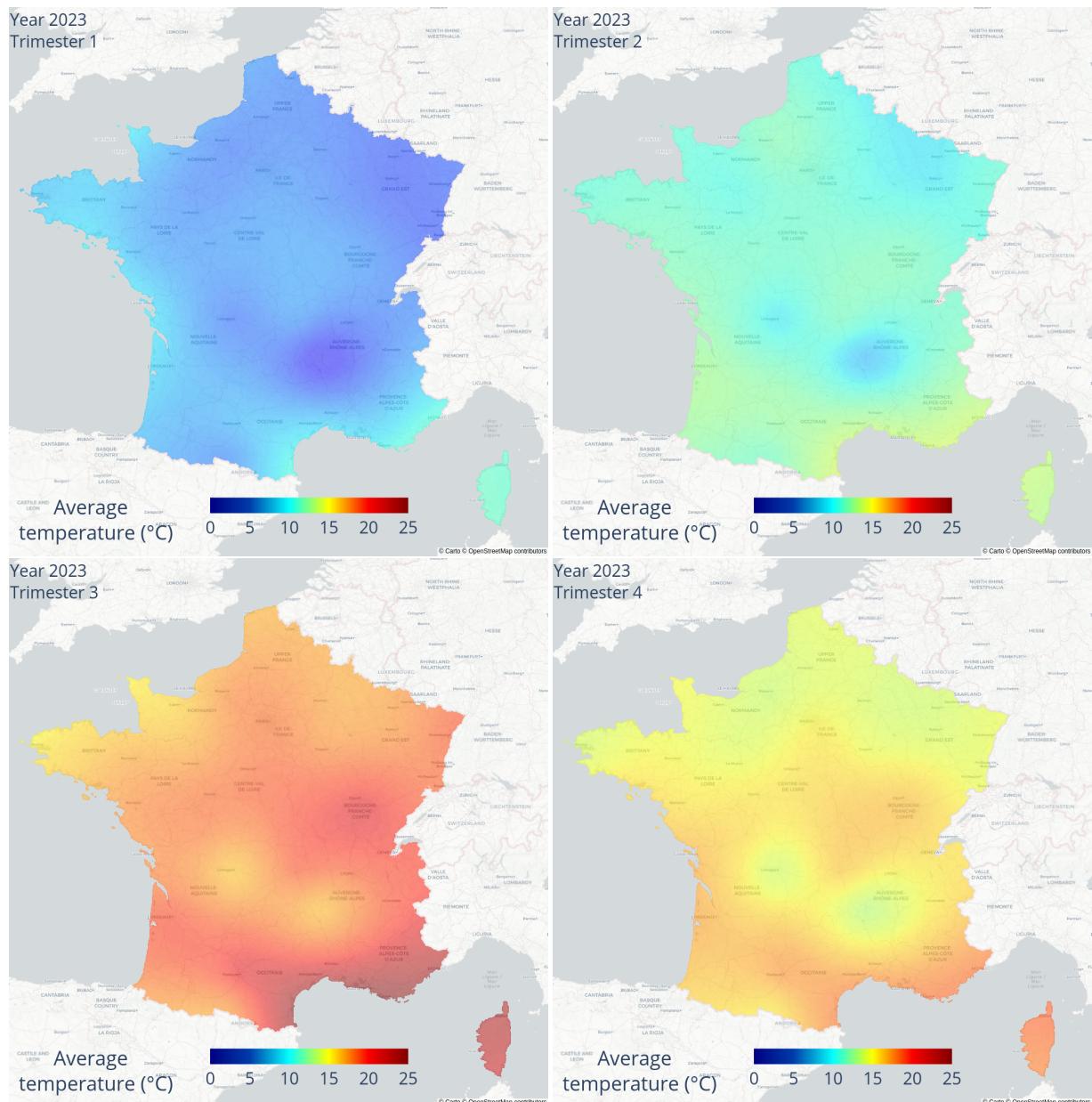
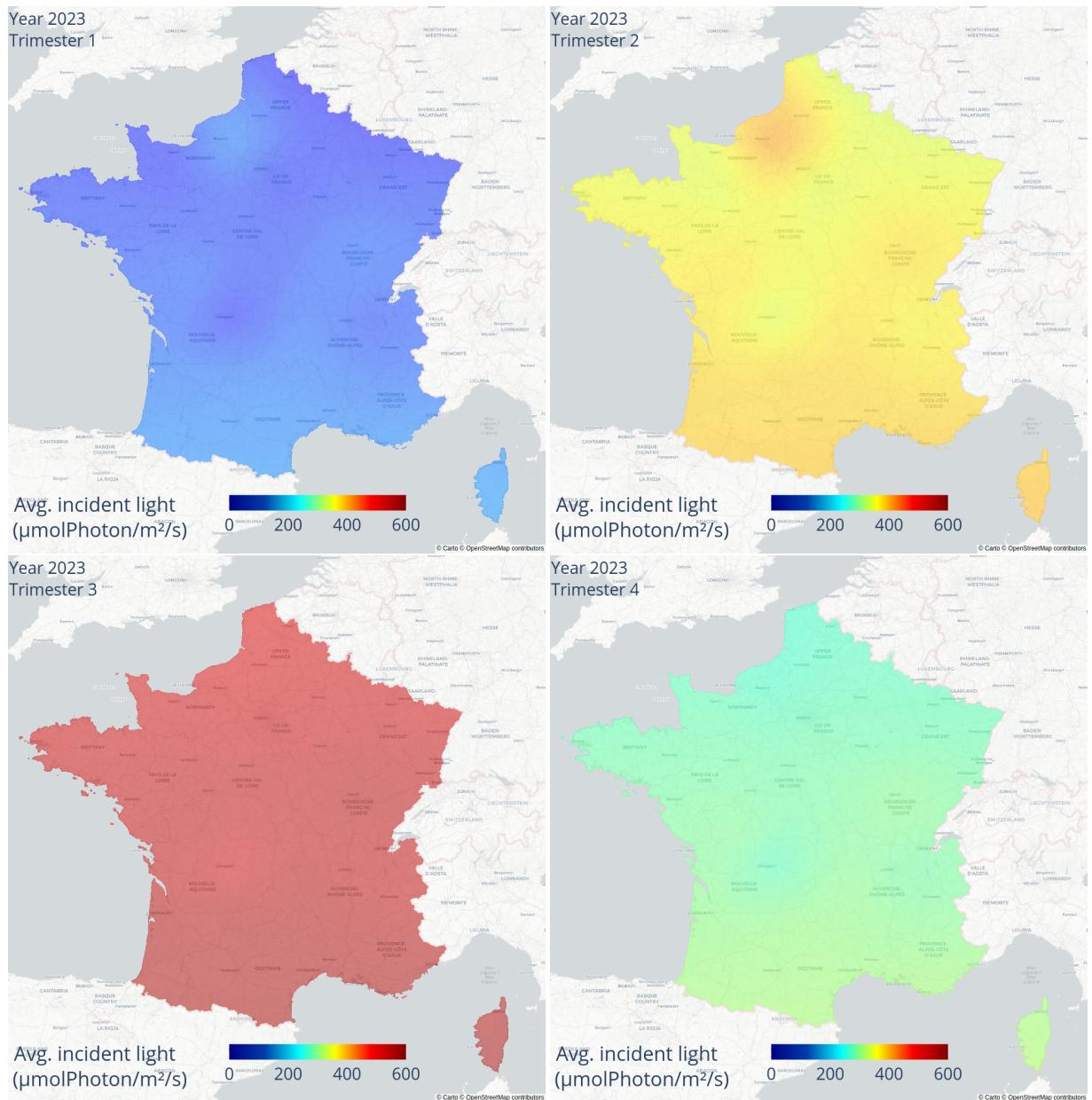
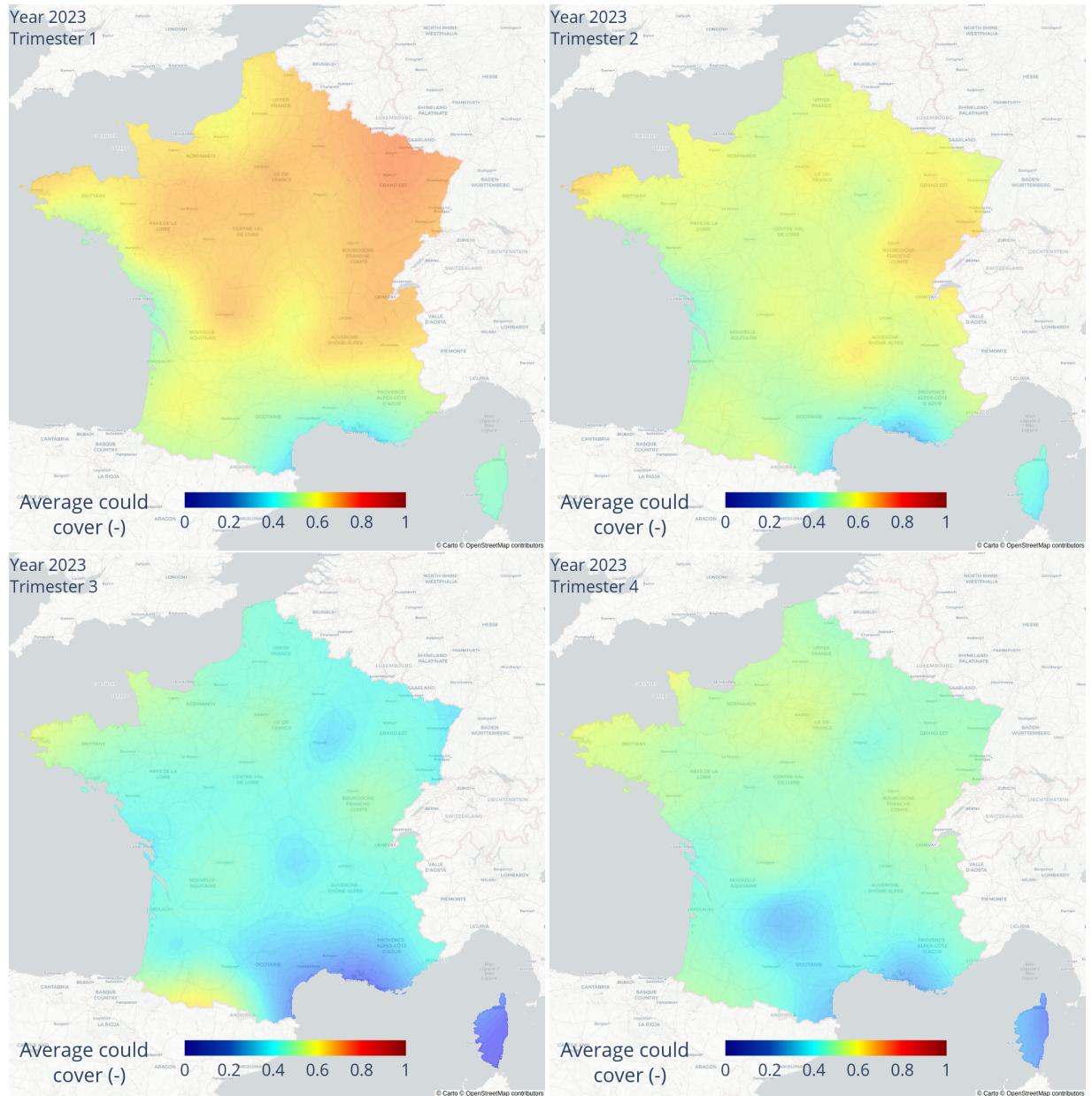


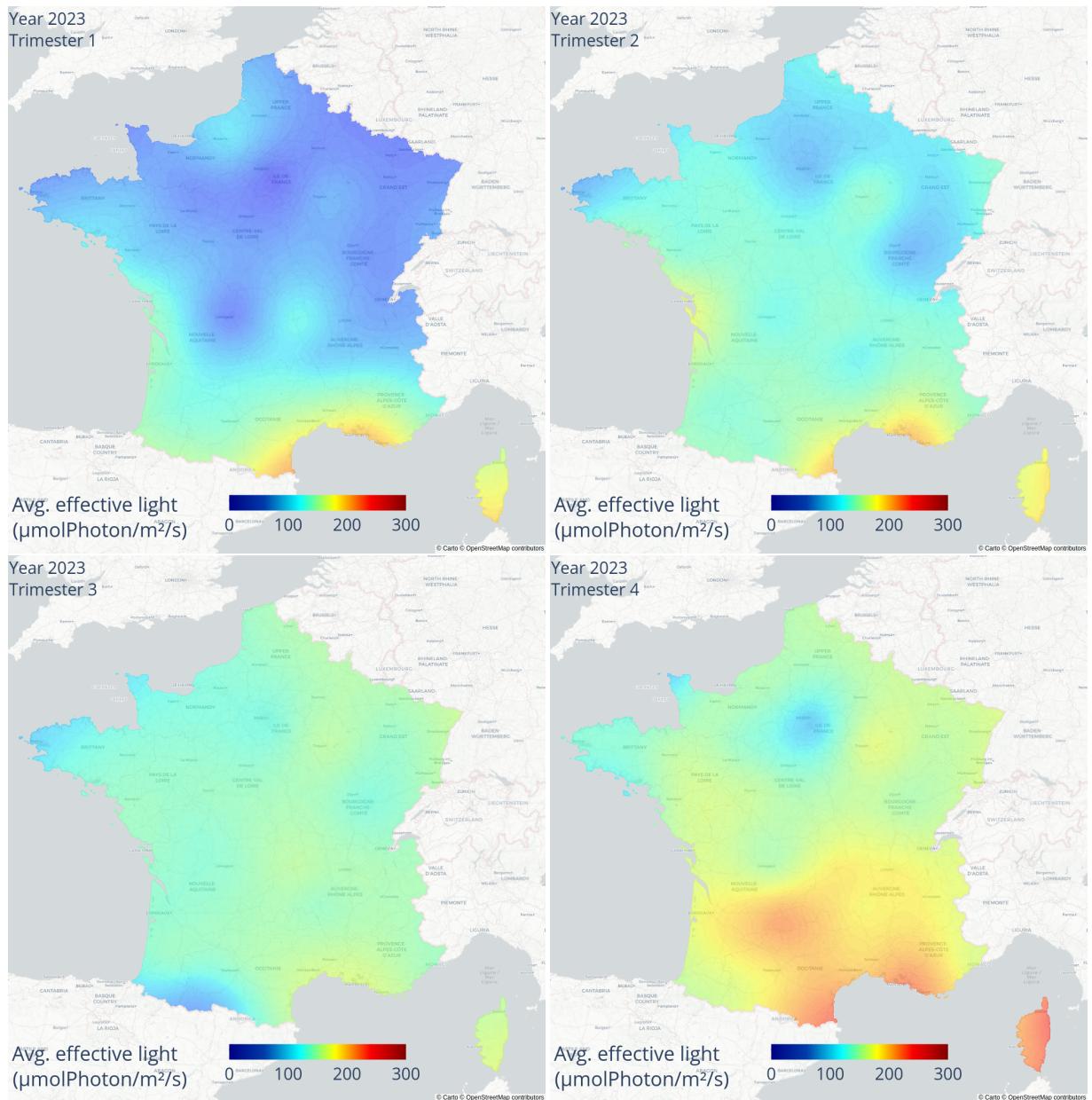
Fig. 1. Averaged outdoor temperature for the four trimester of 2023. Interpolation RBF function, *scipy* library



**Fig. 2.** Averaged clear sky Direct Normal Incident light for the four trimester of 2023. Interpolation RBF function, *scipy* library



**Fig. 3.** Averaged could cover for the four trimester of 2023. Interpolation RBF function, *scipy* library



**Fig. 4.** Averaged effective light resource for the four trimester of 2023. Interpolation RBF function, *scipy* library