



Supplement of

Past and future discharge and stream temperature at high spatial resolution in a large European basin (Loire basin, France)

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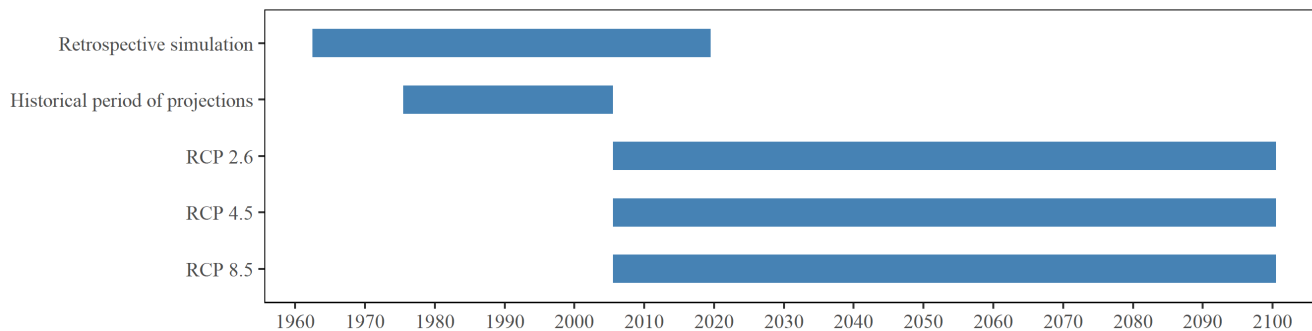


Figure S1. Period of availability of daily Q and Tw in the retrospective simulation and in projections.

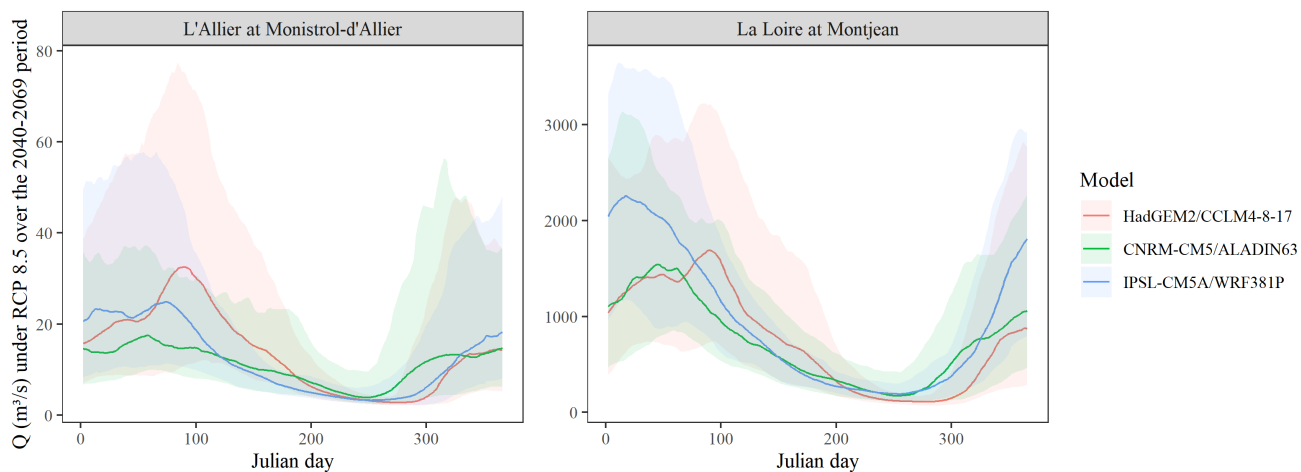


Figure S2. Annual cycle of Q under three GCM/RCMs and RCP 8.5 in the middle of the century (2040–2069) for two sub-basin (right) in the southern (L'Allier à Monistrol-d'Allier) and (left) northern part (La Loire à Montjean-sur-Loire) of the Loire River basin. For each day, the median and the 10th-90th percentiles of Q over the 2040–2069 period is calculated before applying a 30-day moving average. Colors show different GCMs+RCMs.

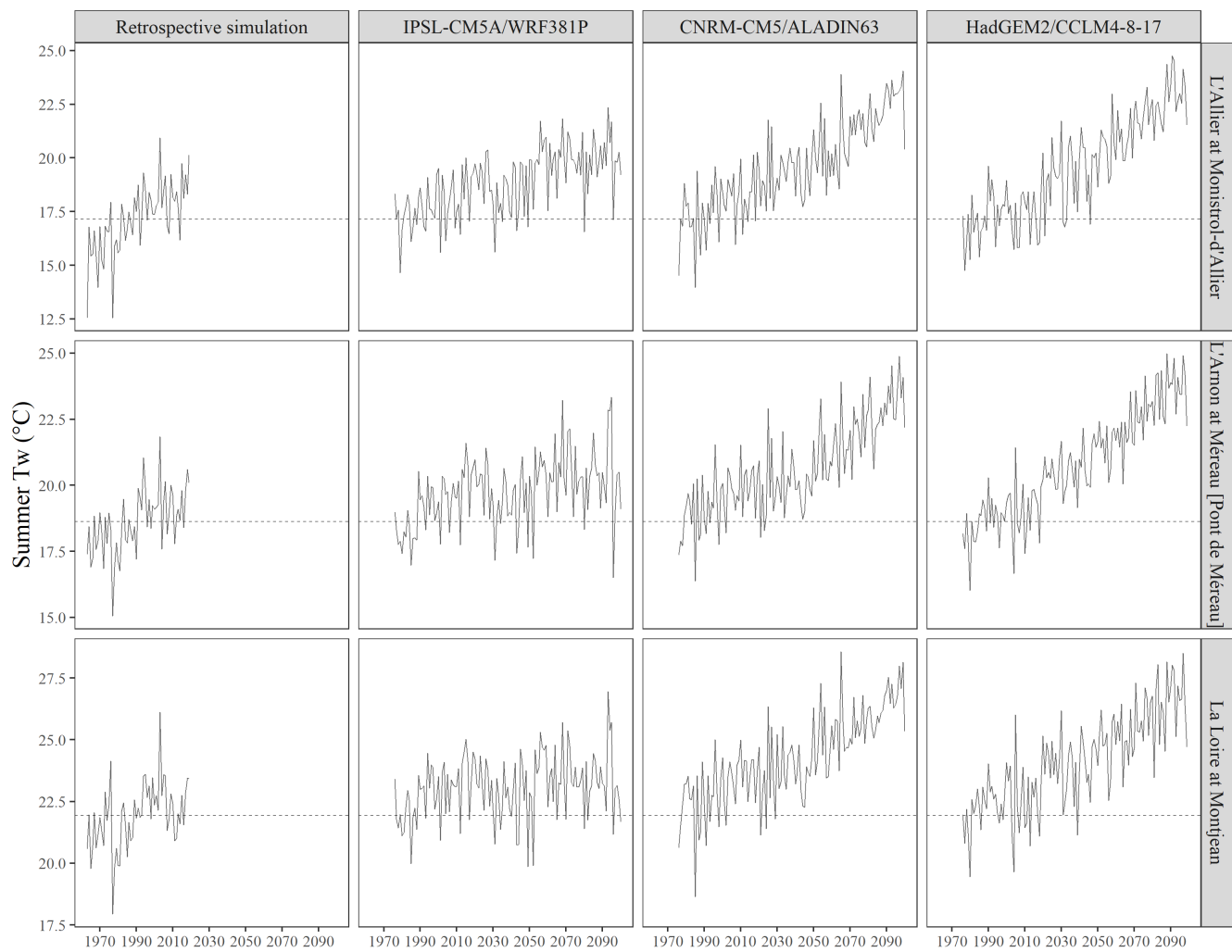


Figure S3. Summer Tw in retrospective and projections under RCP 8.5 at the outlet of three sub-basins in the upstream, middle and downstream part of the basin as shown in Figure 1.

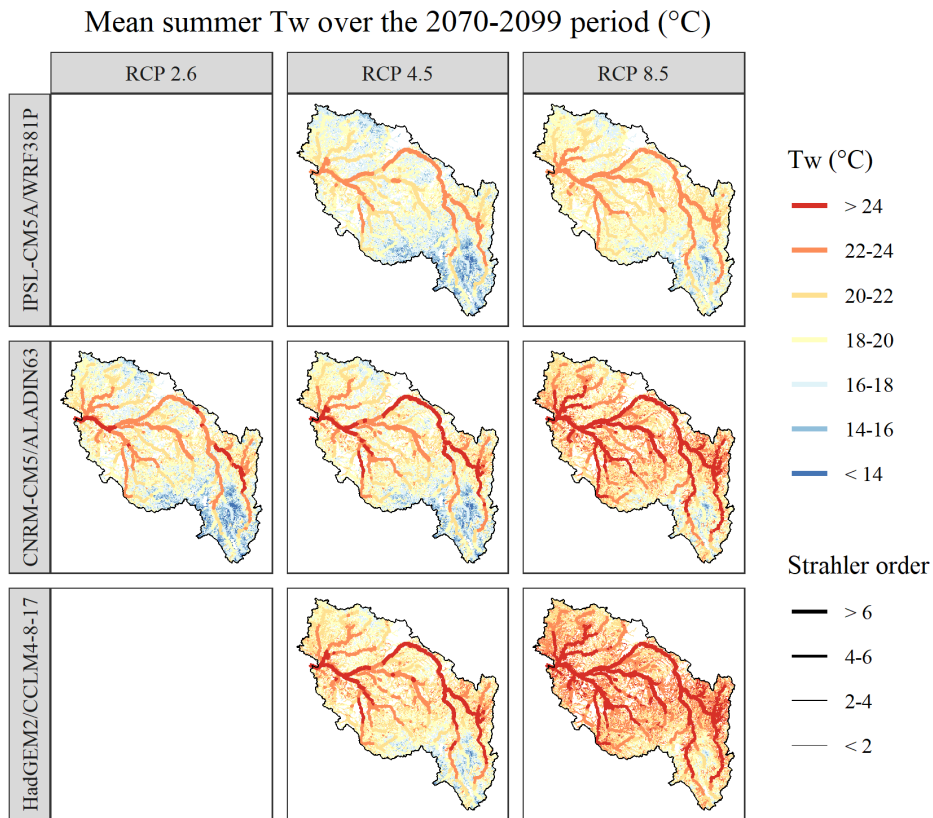


Figure S4. Spatial variability of summer Tw in projections under all GCMs/RCMs and RCP 8.5 at the end of the century (2070–2099).

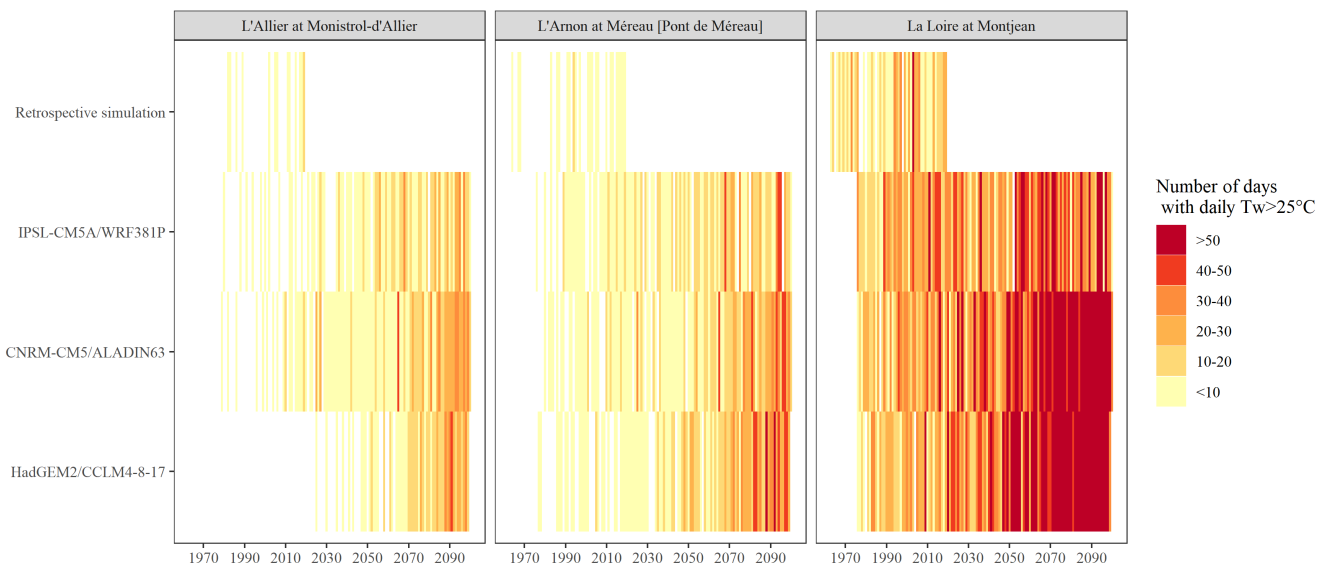


Figure S5. Number of days with daily $T_w > 25^\circ\text{C}$ for the retrospective simulation and all GCMs+RCMs projections under RCP 8.5 at three sub-basins in the upstream (left), bottom (middle) and downstream (right) part of the basin.