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

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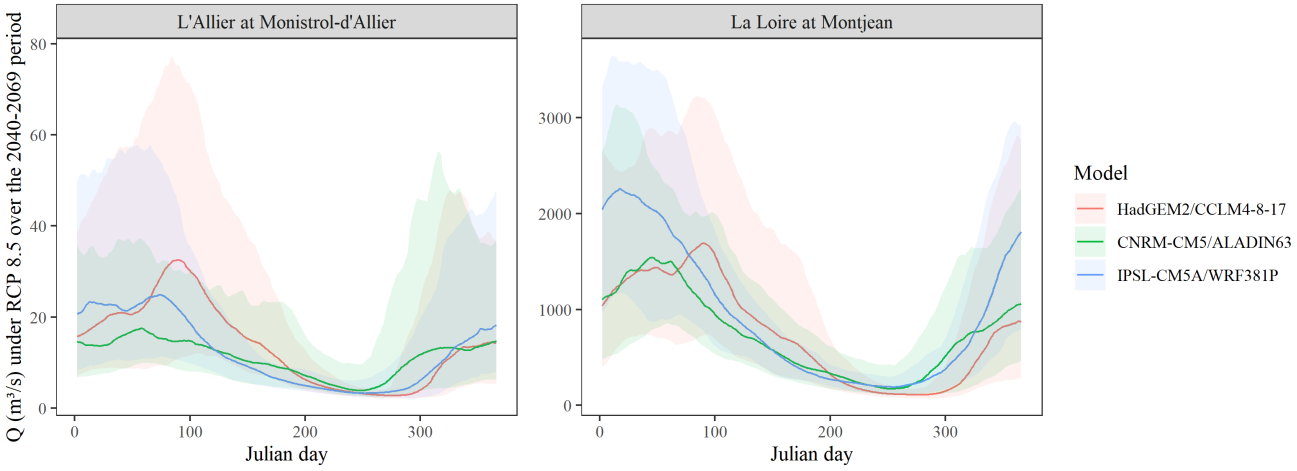

Figure S1. Annual cycle of Q under three GCM/RCMs and RCP 8.5 in the middle of the century (2040–2069) for two sub-basin (right) in the southern (L’Allier à Monistrol-d’Allier) and (left) northern part (La Loire à Montjean-sur-Loire) of the Loire River basin. For each day, median, 10th-90th percentile of Q over the 2040–2069 period is calculated then a 30-day moving average is applied on these daily cycles. The colors show different GCM/RCMs.

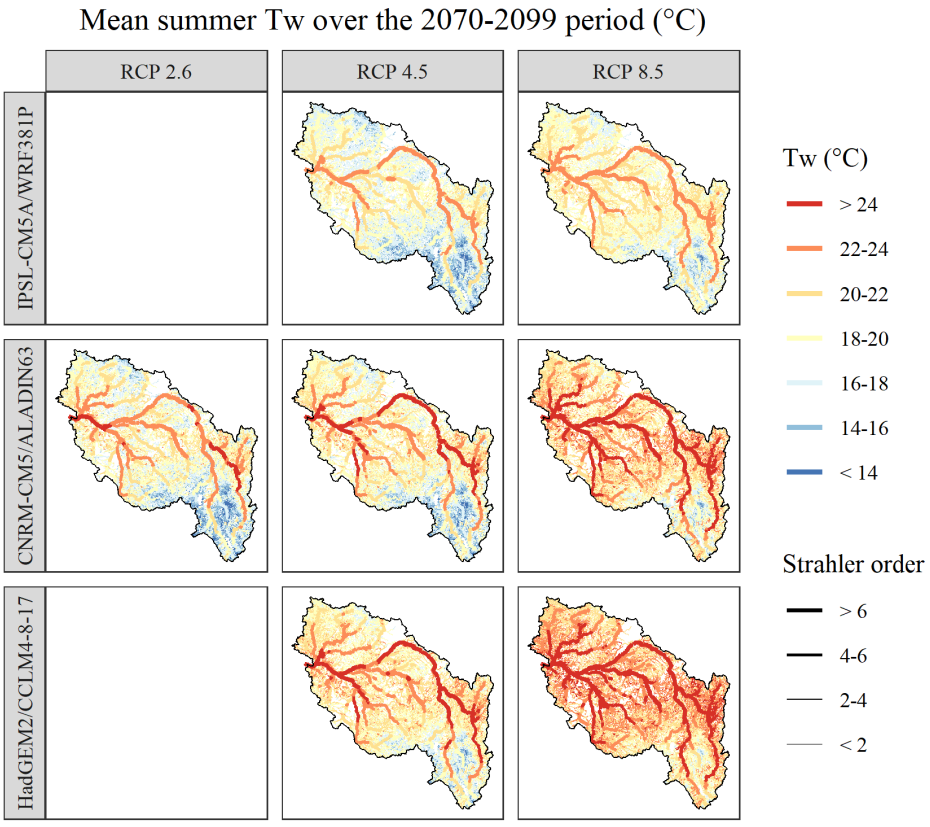

Figure S2. Spatial variability of summer Tw in projections under all GCM/RCMs and RCP 8.5 at the end of the century (2070–2099). Solid black lines show the three main Hydro-Ecoregion (HER) delineations in the basin.

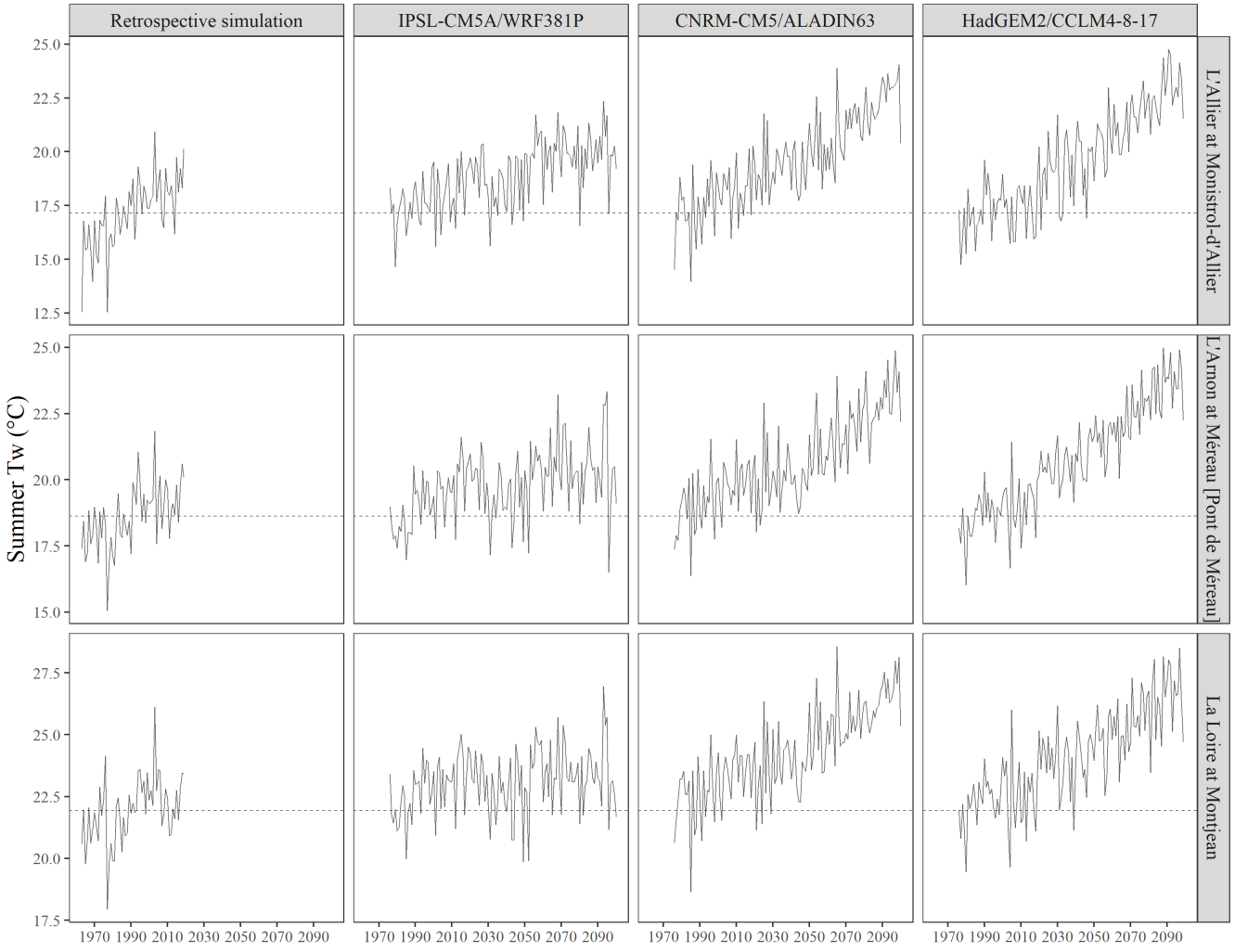

Figure S3. Summer Tw in retrospective and projections under RCP 8.5 at the outlet of three sub-basins in the upstream, middle and downstream part of the basin as shown in Figure **??**, top panel.

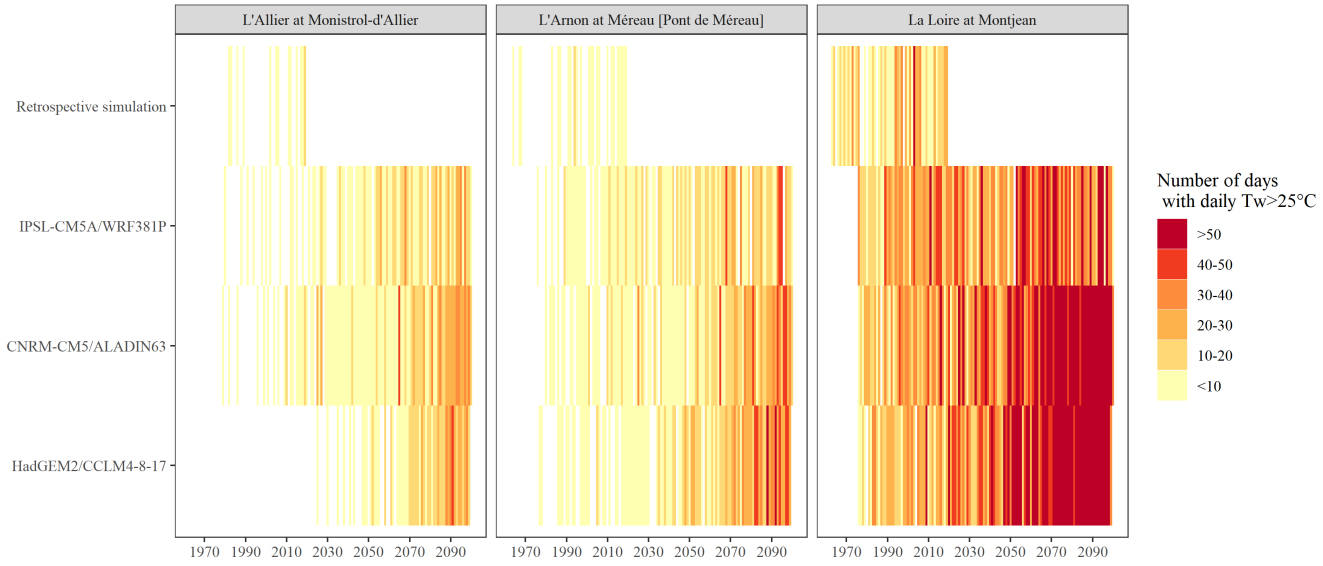

Figure S4. Number of days with daily Tw more than Tw $> 25\,°C$ for teh retrospective simulation and all GCM/RCMs projections under RCP 8.5 at three sub-basins in the upstream (left), bottom (middle) and downstream (right) part of the basin.