

Supplementary information for ‘Uncertainties in long-term ensemble estimates of contextual evapotranspiration over Southern France’

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Performance and similarity assessment of the EVASPA estimates (similar to section 4.2 but including VIIRS LST data)

Table S 1: Global performance of daily evapotranspiration based on the average of all EVASPA ensemble members (as in Table 2, but including VIIRS-based estimates).

	Interpolated daily ET estimates				non-interpolated daily ET estimates			
	<i>RMSD</i> [mm/d]	<i>Willmott's D</i> [-]	<i>Bias</i> [mm/d]	<i>MAE</i> [mm/d]	<i>RMSD</i> [mm/d]	<i>Willmott's D</i> [-]	<i>Bias</i> [mm/d]	<i>MAE</i> [mm/d]
<i>Aurade</i>	0.93	0.83	0.10	0.68	1.18	0.80	0.23	0.90
<i>Bilos</i>	0.83	0.86	-0.17	0.62	1.08	0.81	-0.09	0.82
<i>Coussoul</i>	1.01	0.63	0.62	0.72	1.19	0.57	0.77	0.93
<i>Fontblanche</i>	0.94	0.58	-0.19	0.75	1.06	0.52	-0.01	0.85
<i>Lamasquere</i>	1.04	0.71	-0.41	0.70	1.27	0.62	-0.37	0.88
<i>LeBray</i>	0.74	0.85	-0.11	0.57	0.88	0.83	0.06	0.68
<i>Puechabon</i>	0.87	0.84	0.45	0.67	1.09	0.81	0.59	0.85
<i>Toulouse</i>	1.10	0.55	-0.70	0.79	1.35	0.42	-0.67	0.97
<i>Croplands</i>	0.99	0.78	-0.16	0.69	1.22	0.74	-0.07	0.89
<i>Forests</i>	0.87	0.80	-0.02	0.67	1.06	0.76	0.18	0.83
<i>Grasslands</i>	1.07	0.50	-0.27	0.78	1.28	0.40	-0.13	0.96
<i>Winter</i>	0.52	0.54	-0.14	0.38	0.59	0.49	-0.07	0.47
<i>Spring</i>	1.01	0.71	-0.22	0.78	1.23	0.64	-0.11	0.95
<i>Summer</i>	1.32	0.59	0.06	1.05	1.52	0.57	0.21	1.22
<i>Autumn</i>	0.70	0.65	-0.05	0.53	0.83	0.60	0.07	0.65
<i>All sites combined</i>	0.94	0.78	-0.09	0.69	1.15	0.73	0.04	0.87

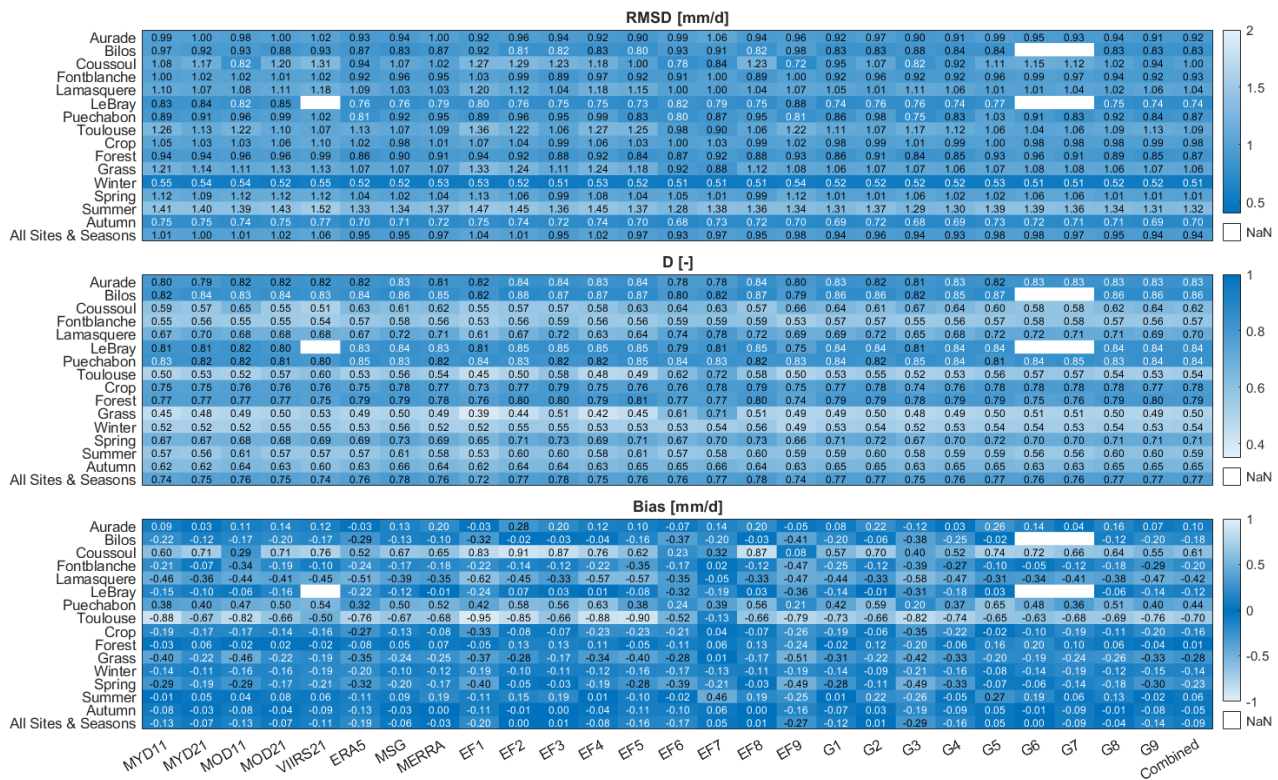


Figure S 1: As in Figure 5, but including VIIRS-based estimates.

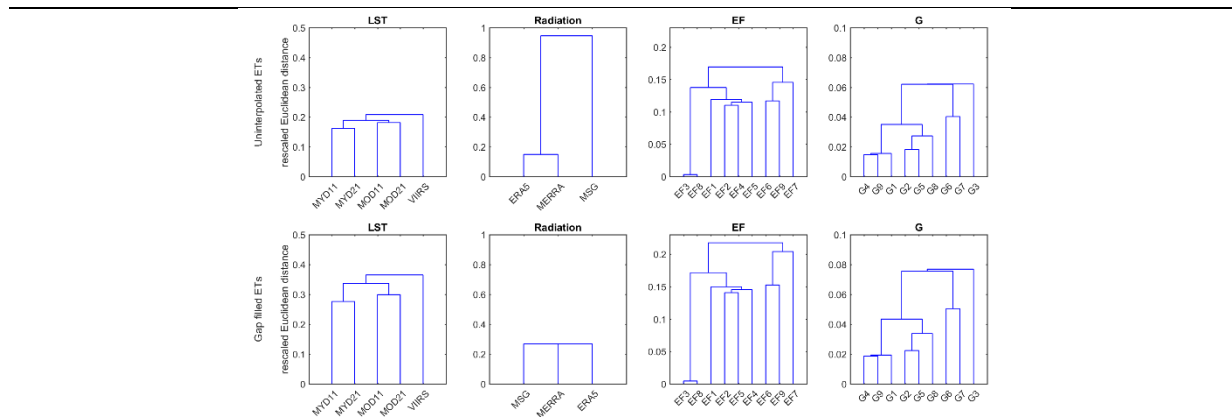


Figure S 2: As in Figure 7, but including VIIRS-based estimates.

Comparison of individual EVASPA members according to land cover type and seasons

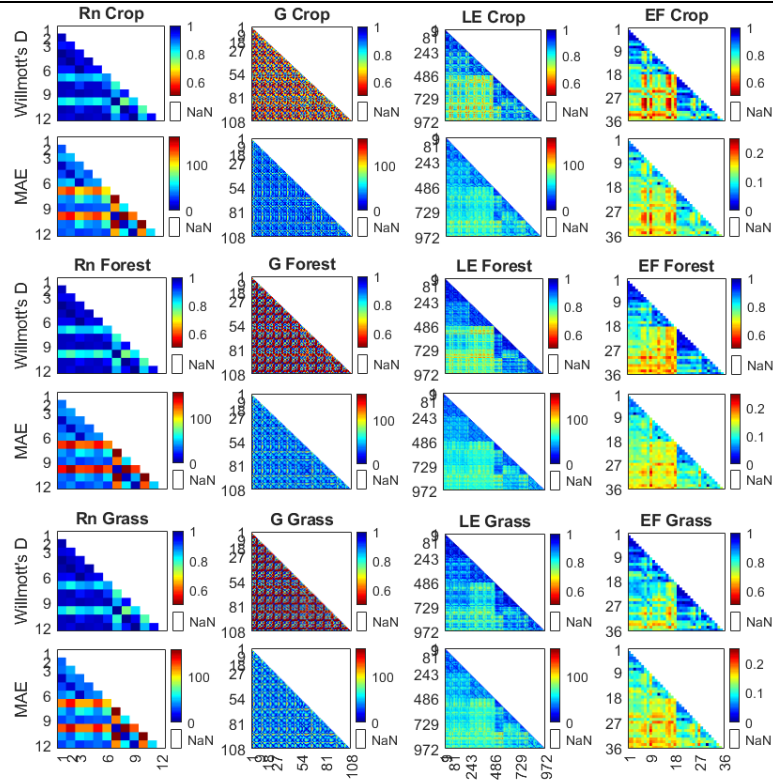
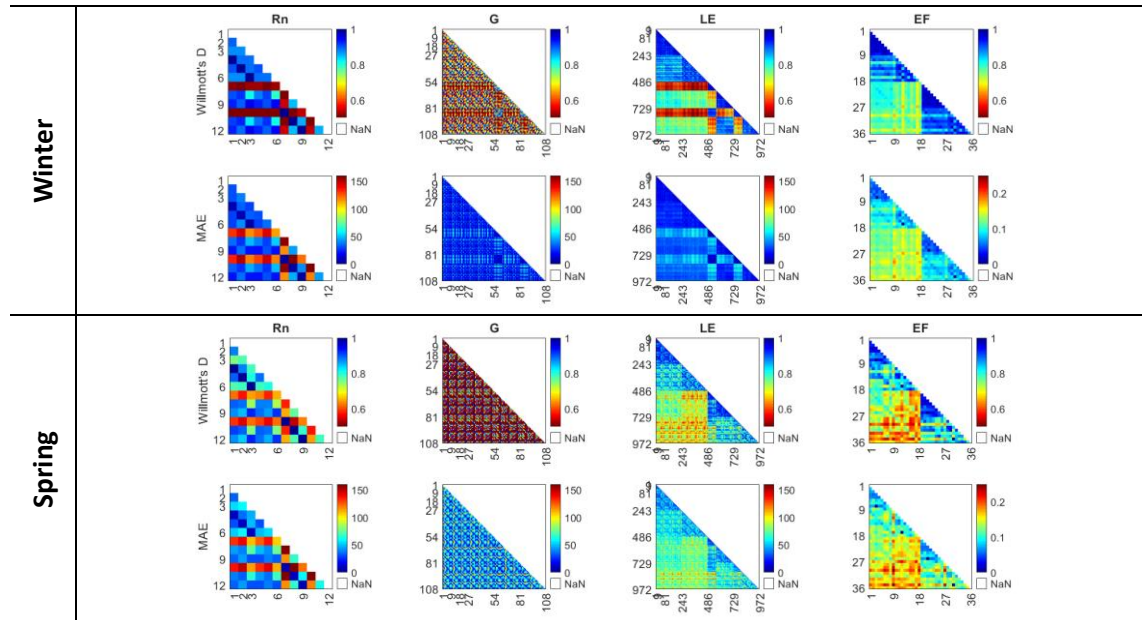


Figure S 3: Heat maps showing variability within the EVASPA ensemble according to land cover type (separately for net radiation - Rn, ground heat flux - G, latent heat flux – LE, and evaporative fraction - EF).



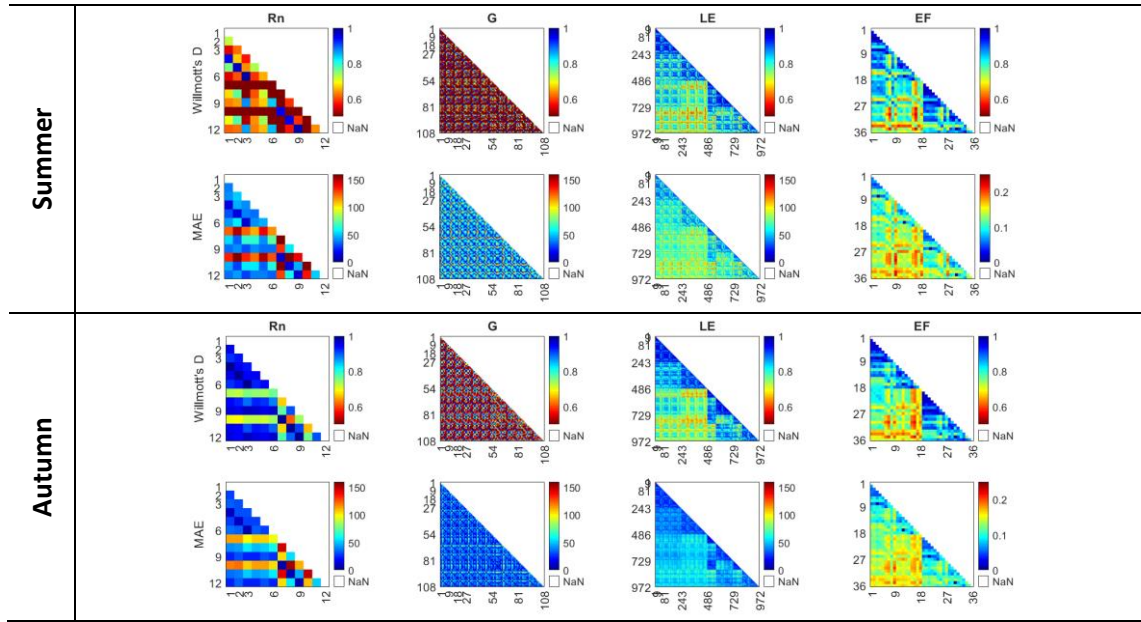


Figure S 4: Heat maps showing variability within the EVASPA ensemble per season (separately for Rn, G, LE and EF).