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Supplement of

Evaluating the potential of large-scale simulations to predict carbon fluxes of terrestrial ecosystems over a European Eddy Covariance network

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Supplementary material

Table S.1 - Performance of the CTESSSEL runs in simulating daily carbon fluxes for all PFTs selecting tower vegetation type from a satellite derived global map (CTESSEL) and the actual tower vegetation type (CTESSEL_obs): ENF—Evergreen Needleleaf Forest; EBF—Evergreen Broadleaf Forest; DBF—Deciduous Broadleaf Forest; GRA—Grassland; and CRO—Cropland. N.Site—Number of available sites for each PFT; N.Data—Number of available days; CORR—Correlation Coefficient; RMSE—Root Mean Square Error; Bias.

PFT	Model	N. Site	N. Data	NEE			GPP			Reco		
				CORR (-)	RMSE (gC/m ² d)	Bias (gC/m ² d)	CORR (-)	RMSE (gC/m ² d)	Bias (gC/m ² d)	CORR (-)	RMSE (gC/m ² d)	Bias (gC/m ² d)
ENF	CTESSEL	5	10811	0.64	1.88	-0.13	0.81	2.89	-1.76	0.78	2.63	-1.89
	CTESSEL_obs		10811	0.55	2.48	1.39	0.82	2.95	-1.87	0.79	1.52	-0.49
EBF	CTESSEL	2	3554	0.50	2.11	1.00	0.65	1.92	-0.97	0.41	1.75	0.03
	CTESSEL_obs		3554	0.34	2.05	-0.14	0.61	2.03	-0.60	0.62	1.31	-0.75
DBF	CTESSEL	4	6313	0.51	2.59	-0.01	0.80	4.47	-2.48	0.57	3.56	-2.50
	CTESSEL_obs		6313	0.49	2.69	-0.21	0.83	3.35	-1.31	0.41	3.01	-1.54
GRA	CTESSEL	13	13203	0.50	2.03	-0.93	0.77	2.43	-0.86	0.54	2.73	-1.80
	CTESSEL_obs		13203	0.27	3.12	-0.62	0.49	3.55	-0.53	0.28	2.81	-1.15
CRO	CTESSEL	8	10226	0.23	3.53	-0.54	0.51	4.42	-1.02	0.72	2.42	-1.56
	CTESSEL_obs		10226	0.24	3.86	-1.18	0.47	4.43	-0.27	0.71	2.35	-1.45
All	CTESSEL	32	88214	0.48	2.43	-0.13	0.71	3.22	-1.42	0.60	2.62	-1.54
	CTESSEL_obs	32	88214	0.38	2.84	-0.15	0.64	3.26	-0.92	0.56	2.20	-1.08