Table S1. 2018 CO_2 x soil moisture experiment: chlorophyll trait variance components and ANOVAs including source of variation, degrees of freedom (df), mean square values (MS), variance component (VC), *P* values, and coefficient of determination (R^2). *P* values < 0.05 are in bold print.

Source of variation	df	Chlorophyll *a* ($mg \cdot g^{-1}$)			Chlorophyll *b* ($mg \cdot g^{-1}$)			Carotenoids ($mg \cdot g^{-1}$)		
		MS	VC (%)	*P*-value	MS	VC (%)	*P*-value	MS	VC (%)	*P*-value
Block	1	1.648	10.4	**<0.001**	0.336	12.0	**< 0.001**	0.032	12.0	**< 0.001**
SP[1]	3	0.320	6.1	**0.008**	0.068	7.3	**0.002**	0.007	8.3	**0.001**
CO_2	1	1.031	6.5	**<0.001**	0.195	7.0	**<0.001**	0.013	4.9	**0.002**
Water	1	1.241	7.8	**<0.001**	0.198	7.1	**<0.001**	0.015	5.6	**0.001**
SP *CO_2	3	0.247	4.7	**0.025**	0.039	4.2	**0.033**	0.005	6.0	**0.009**
SP*Water	3	0.326	6.2	**0.007**	0.057	6.1	**0.006**	0.006	6.4	**0.005**
Water*CO_2	1	0.008	0.1	0.751	0.002	0.1	0.680	0.002	0.8	0.256
SP*Water*CO_2	3	0.085	1.6	0.341	0.016	1.7	0.291	0.001	3.8	0.057
Clone(SP)	12	0.119	9.0	0.116	0.018	7.6	0.184	0.001	4.9	0.575
Clone(SP)*CO_2	12	0.099	7.5	0.228	0.019	8.0	0.151	0.001	6.8	0.326
Clone(SP)*water	12	0.068	5.1	0.545	0.011	4.6	0.586	0.001	6.0	0.406
Clone(SP)*water*CO_2	12	0.065	4.9	0.577	0.013	5.7	0.405	0.001	4.5	0.685
Error	63	0.075	30.1		0.012	28.6		0.001	30.1	
R^2				0.700			0.715			0.697

Source of variation	df	Total chlorophyll ($mg \cdot g^{-1}$)			Chlorophyll *a*:*b* ratio			Chlorophyll : carotenoids ratio		
		MS	VC (%)	*P*-value	MS	VC (%)	*P*-value	MS	VC (%)	*P*-value
Block	1	3.471	10.9	**< 0.001**	0.076	4.6	**0.011**	6.631	4.2	**0.007**
SP[1]	3	0.680	6.4	**0.005**	0.049	8.9	**0.007**	1.873	3.6	0.101
CO_2	1	2.121	6.7	**<0.001**	0.014	0.8	0.264	9.412	6.0	**0.002**
Water	1	2.432	7.6	**<0.001**	0.024	1.5	0.145	10.368	6.6	**0.001**
SP *CO_2	3	0.481	4.5	**0.027**	0.007	1.3	0.582	0.473	0.9	0.652
SP*Water	3	0.656	6.2	**0.007**	0.009	1.6	0.502	3.336	6.4	**0.013**
Water*CO_2	1	0.018	0.1	0.729	0.009	0.5	0.367	1.459	0.9	0.199
SP*Water*CO_2	3	0.174	1.6	0.324	0.004	0.8	0.761	0.176	0.3	0.894
Clone(SP)	12	0.227	8.6	0.133	0.019	14.0	0.077	2.351	18.0	**0.005**
Clone(SP)*CO_2	12	0.203	7.6	0.201	0.006	4.1	0.903	1.085	8.3	0.269
Clone(SP)*water	12	0.131	4.9	0.562	0.015	10.8	0.215	0.565	4.3	0.789
Clone(SP)*water*CO_2	12	0.137	5.2	0.525	0.011	8.2	0.443	0.626	4.8	0.724
Error	63	0.147	29.6		0.011	42.8		0.866	35.4	
R^2				0.705			0.572			0.649

[1]Species