Table S1. The results of two-way ANOVA for the effects of ethylene and accession on the elongation of the 3^{rd} oldest petioles of *R. palustris* in 3 d in Figure 1D.

	F value	
	DF	Elongation
Ethylene	4	18.20***
Accession	1	43.32***
Ethylene×accession	4	2.64\$

F-values and their significance are given. Significance levels are as follows: 0.05 < P < 0.1; ***: P < 0.001.

Table S2. The results of three-way ANOVA for the effects of treatment, accession, and time on concentrations of soluble sugars, fructans and starch in the shoots and roots of *R. palustris* in Figure 2.

		F value							
	DF	Shoot soluble sugars	Shoot fructans	Shoot starch	Root soluble sugars	Root fructans	Root starch		
Treatment	1	93.97***	63.39***	53.97***	63.51***	1.27ns	0.04ns		
Accession	1	3.81\$	1.37ns	0.40ns	9.00**	0.53ns	5.73*		
Time	3	1.94ns	2.88*	0.50ns	1.70ns	1.03ns	2.29\$		
Treatment×accession	1	2.99\$	1.82ns	0.09ns	0.02ns	0.39ns	0.32ns		
Treatment×time	2	0.68ns	0.81ns	1.58ns	6.59**	2.13ns	0.67ns		
Accession×time	3	0.19ns	1.57ns	0.57ns	0.70ns	0.28ns	2.68\$		
Treatment×accession×time	2	1.16ns	1.08ns	0.22ns	0.71ns	0.19ns	0.19ns		

F-values and their significance are given. Significance levels are as follows: ns: P > 0.1; 0.05 < P < 0.1; 0.01 < P < 0.05; **: 0.001 < P < 0.01; ***: P < 0.001.

Table S3. The results of three-way ANOVA for the effects of treatment, accession and ABA on the elongation of the 3^{rd} oldest petioles of *R*. *palustris* in 3 d in Figure 3C.

		F value
	DF	Elongation
Treatment	1	2140.20***
Accession	1	96.25***
ABA	3	99.93***
Treatment×accession	1	231.37***
Treatment×ABA	3	104.25***
Accession×ABA	3	19.10***
Treatment×accession×ABA	3	18.19***

F-values and their significance are given. Significance levels are as follows: ***: P < 0.001.

Table S4. The results of three-way ANOVA for the effects of treatment, accession and GA on the elongation of the 3^{rd} oldest petioles of *R*. *palustris* in 3 d in Figure 4.

		F value
	DF	Elongation
Treatment	1	2852.58***
Accession	1	225.02***
GA	4	9.55***
Treatment×accession	1	135.13***
Treatment×GA	4	1.01ns
Accession×GA	4	0.56ns
Treatment×accession×GA	4	1.37ns

F-values and their significance are given. Significance levels are as follows: ns: P > 0.1; ***: P < 0.001.

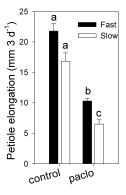


Figure S5. Submergence-induced petiole elongation rates over 3 d in the fast and slow *R. palustris* accessions, either or not pre-treated with the GA biosynthesis inhibitor paclobutrazol. Data are means \pm SE, n=10.

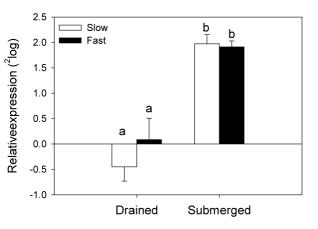


Figure S6. Relative transcript abundance of the *R. palustris EXPANSIN A1* gene (*RpEXPA1*) in the 3rd oldest petiole of the slow (open bars) and fast (closed bars) accessions after 6 h of submerged and drained control treatments. Values are measured with real-time RT-PCR with tubulin as internal standard, relative to the value at t=0 and 2log transformed. Data are mean ± SE, n=5-6. Different letters indicate significant differences (Games-Howell test, P<0.05).