

Table S1: Effects of halophyte genotype (HG) and the four (Ctrl, 90, 180, 360 mM NaCl) water salinity levels (WS) on the physiological traits at seven days from the salt stress initiation (7 DAS). Significance codes: ns, (+), *, **, and *** mean, respectively, not significant and significant at $p \leq 0.1$, $p \leq 0.05$, $p \leq 0.01$ and $p \leq 0.001$. Different letters indicate significant differences at $P \leq 0.05$ (n=4).

Halophyte Genotype	SPAD	A ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	GS ($\text{mol m}^{-2} \text{s}^{-1}$)	E ($\text{mol m}^{-2} \text{s}^{-1}$)	Φ_{PSII}	Fv/Fm'	ETR ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	qP	iWUE ($\mu\text{mol CO}_2 \text{ mol}^{-1} \text{H}_2\text{O}$)	RWC (%)	LWP (MPa)	
AH	29.8 b	5.20 a	0.054 bc	0.93 b	0.511 c	0.568 c	43.8 c	0.88 b	6.22 a	86.71 a	-9.23 c	
AG	15.9 c	5.46 a	0.089 a	1.43 a	0.613 a	0.675 a	54.7 a	0.93 a	4.40 b	73.30 c	-3.47 a	
AR	13.6 d	4.23 b	0.066 b	1.06 b	0.539 b	0.641 b	47.6 b	0.85 c	4.31 b	81.96 b	-2.99 a	
AS	36.4 a	5.01 a	0.045 c	0.70 c	0.486 c	0.644 b	43.1 c	0.76d	7.32 b	71.13 c	-5.03 b	
P	< 0.0000 ***	0.0000 ***	0.0000 ***	< 0.0000 ***	< 0.0000 ***	< 0.0000 ***	< 0.0000 ***	< 0.0000 ***	0.0000 ***	0.0000 ***	< 0.0000 ***	
Water Salinity												
Ctrl	25	5.63 a	0.093 a	1.42 a	0.55	0.643	47.5	0.85	4.35 c	80.09	-3.73 a	
90	23.7	5.14 ab	0.071 b	1.17 b	0.55	0.3	47.6	0.86	4.98 bc	79.00	-4.11 ab	
180	23.5	4.80 bc	0.053 c	0.90 c	0.52	0.626	46.6	0.84	5.72 b	77.74	-5.71 ab	
360	23.4	4.35 c	0.040 c	0.64 d	0.52	0.626	47.4	0.86	7.19 a	76.25	-7.16 b	
P	0.9118 ns	0.0000 ***	0.0000 ***	< 0.0000 ***	0.9882 ns	0.5440 ns	0.9972 ns	0.9072 ns	0.0000 ***	0.1347 ns	0.060 (+)	
HG x WS												
Ctrl	AG	17.3 c	6.35 a	0.137 a	2.08 a	0.64 a	0.68 a	55.4 a	55.4 ab	5.62	73.9	-3.15 bc
90	AG	16.5 cd	5.58 ab	0.11 ab	1.73 ab	0.64 a	0.68 ab	55.7 a	55.7 a	3.23	74.5	-3.54 bc
180	AG	14.9 de	5.43 ab	0.068 cde	1.18 cde	0.60 ab	0.68 abc	54.2 ab	54.2 bcd	3.64	73.5	-3.08 b
360	AG	15 de	4.54 bc	0.046 de	0.71 efg	0.58 ab	0.66 bcd	53.6 ab	53.6 abc	7.42	71.3	-4.09 cd
Ctrl	AR	14.3 ef	4.74 bc	0.092 bc	1.42 bc	0.57 cd	0.64 de	47.3 cd	47.3 g	5.62	85.9	-2.22 a
90	AR	12.8 f	4.49 bc	0.078 bcd	1.24 bcd	0.53 cde	0.64 de	46.7 cde	46.7 g	4.80	81.8	-2.89 ab
180	AR	13.2 ef	3.86 c	0.047 de	0.83 defg	0.53 cde	0.63 e	46.5 cde	46.5 fg	4.85	81.3	-3.73 bc
360	AR	14 ef	3.88 c	0.046 de	0.74 defg	0.53 bc	0.65 cd	49.9 bc	49.9 ef	7.61	78.7	-3.1 ab
Ctrl	AS	39.5 a	6.33 a	0.065 cde	1.01 cdefg	0.52 defg	0.68 a	46 def	46.0 h	9.02	74.8	-3.47 bc
90	AS	35.3 a	4.78 bc	0.042 de	0.66 fg	0.49 gh	0.63 e	42.9 fg	43.0 h	6.44	71.2	-4.23 bc
180	AS	35.9 a	4.67 bc	0.045 de	0.63 g	0.4 fgh	0.63 e	39.9 fg	39.9 h	5.36	69.3	-3.58 bc
360	AS	35.1 a	4.32 bc	0.034 e	0.56 g	0.47 efgh	0.64 de	43.5 efg	43.5 h	7.95	69.3	-8.83 e
Ctrl	AH	28.9 b	5.14 abc	0.076 bcd	1.15 cdef	0.5 h	0.56 f	41.8 g	41.8 fg	4.61	85.8	-6.1 de
90	AH	30.3 b	5.7 ab	0.053 de	1.04 cdefg	0.53 defgh	0.58 f	44.9 defg	44.9 de	3.13	88.5	-5.76 de
180	AH	30.3 b	5.3 abc	0.051 de	0.95 cdefg	0.53 cdef	0.58 f	46 cdef	46.0 cd	3.40	86.8	-12.46 e
360	AH	29.5 b	4.64 bc	0.033 e	0.56 g	0.49 h	0.55 f	42.3 g	42.3 de	6.29	85.7	-12.6 e
P		< 0.0000 ***	0.061 (+)	0.032 **	0.0003 ***	< 0.0000 ***	< 0.0000 ***	< 0.0000 ***	< 0.0001 ***	0.1928 ns	0.8730 ns	< 0.0000 ***

Table S2: Effects of halophyte genotype (HG) and the four (Ctrl, 90, 180, 360 mM NaCl) water salinity levels (WS) on the physiological traits at twenty-seven days from the salt stress initiation (27 DAS). Significance codes: ns, (+), *, **, and *** mean, respectively, not significant and significant at $p \leq 0.1$, $p \leq 0.05$, $p \leq 0.01$ and $p \leq 0.001$. Different letters indicate significant differences at $P \leq 0.05$ ($n=4$).

Halophyte Genotype	SPAD	A ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	GS ($\text{mol m}^{-2} \text{s}^{-1}$)	E ($\text{mol m}^{-2} \text{s}^{-1}$)	Φ_{PSII}	Fv'/Fm'	ETR ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	qP	iWUE ($\mu\text{mol CO}_2 \text{mol}^{-1} \text{H}_2\text{O}$)	RWC (%)	LWP (-Mpa)	
AH	35.1 a	5.67 a	0.054 a	1.38 a	0.53 c	0.58 c	47.41 c	0.92 a	4.62 b	82.67 a	-16.94 c	
AG	16.9 b	5.53 a	0.043 b	1.01 b	0.62 a	0.67 a	55.75 a	0.94 a	6.00 a	78.09 ab	-6.98 b	
AR	14.9 c	4.43 b	0.042 b	1.15 ab	0.59 b	0.66 b	50.95 b	0.83 b	4.01 b	79.76 ab	-4.22 a	
AS	33.8 a	4.46 b	0.039 b	0.74 c	0.47 d	0.64 b	45.36 a	0.81 c	5.96 a	76.37 b	-4.75 a	
P	< 0.0001***	0.0001***	< 0.0001***	0.0011 **	< 0.0001 ***	0.0001 ***	< 0.0001 ***	< 0.0001 ***	0.0001 ***	0.0194 *	< 0.0001***	
Water Salinity												
Ctrl	25.2	5.56 a	0.0603 a	1.32 a	0.55 ab	0.65	49.16 ab	0.87 c	4.33 b	82.56 a	-4.34 a	
90	25.7	5.23 a	0.054 a	1.32 a	0.57 a	0.65	50.74 a	0.89 ab	4.80 b	80.54 ab	-7.64 b	
180	25.2	5.02 ab	0.034 b	0.98 b	0.57 a	0.62	48.79 b	0.88 bc	5.32 ab	78.44 ab	-9.59 b	
360	24.6	4.29 b	0.029 b	0.69 c	0.54 b	0.64	50.81 a	0.91 a	6.14 a	75.32 b	-11.31 b	
P	0.9700 ns	0.039 *	< 0.0001***	< 0.0001***	0.042 *	0.3014 ns	0.0488 *	< 0.0001***	0.0024 **	0.005 **	0.0005 ***	
HG x WS												
Ctrl	AG	16.38 c	6.04 a	0.07 ab	1.46 ab	0.635 abc	0.69 a	55.3 abc	0.918 abcd	4.36 bc	82.1 ab	-3.68 ab
90	AG	16.7 bc	5.38 abcde	0.03 de	1.02 cde	0.628 abcd	0.67 abc	54.7 abcd	0.937 ab	5.43 abc	80.95 ab	-5.76 efg
180	AG	17.27 bc	5.65 abcd	0.04 cde	0.89 def	0.64 ab	0.69 a	56.2 ab	0.931 abc	6.37 abc	77.61 ab	-7.75 ghi
360	AG	17.27 bc	5.07 bcdef	0.03 de	0.68 fg	0.653 a	0.68 ab	56.9 a	0.964 a	7.83 a	71.76 b	-10.73 hij
Ctrl	AR	15.01 bc	4.71 efg	0.05 bcd	1.33 abc	0.597 abcde	0.67 abc	52.5 abcde	0.892 bcde	3.56 c	85.32 ab	-3.23 a
90	AR	15.46 b	4.96 cdef	0.06 abc	1.55 ab	0.555 ef	0.64 abcd	48.7 def	0.865 de	3.29 c	79.56 ab	-4.29 bcd
180	AR	14.55 b	3.97 fg	0.03 de	0.91 def	0.553 ef	0.64 abcd	48.5 def	0.868 cde	4.36 bc	81.63 ab	-4.12 bc
360	AR	14.59 b	4.09 fg	0.03 de	0.86 ef	0.62 abcde	0.68 ab	54.1 abcde	0.915 abcd	4.82 abc	72.51 b	-5.22 ef
Ctrl	AS	33.98 a	4.37 efg	0.04 cde	0.76 fg	0.468 g	0.62 bcd	41 h	0.755 g	6.03 abc	85.14 ab	-3.85 acb
90	AS	34.23 a	5.91 abcd	0.06 abc	0.88 def	0.558 def	0.66 abcd	49.2 cde	0.84 ef	7.08 ab	74.23 ab	-4.36 cd
180	AS	33.33 a	4.73 defg	0.04 cde	0.88 ef	0.474 g	0.61 cd	41.7 gh	0.78 fg	5.38 abc	72.35 b	-4.86 de
360	AS	33.74 a	2.82 g	0.02 e	0.49 g	0.565 cde	0.65 abcd	49.6 cde	0.864 de	5.39 abc	73.76 ab	-5.92 ef
Ctrl	AH	35.34 a	5.8 abc	0.08 a	1.74 a	0.551 ef	0.61 cd	47.9 efg	0.904 abcde	3.37 c	77.73 ab	-6.60 fgh
90	AH	36.51 a	5.98 ab	0.07 ab	1.82 a	0.576 bcde	0.62 bcd	50.3 bcde	0.935 ab	3.4 c	87.47 a	-16.16 ijk
180	AH	35.59 a	5.73 abcd	0.04 cde	1.22 bcd	0.558 def	0.6 de	48.8 def	0.93 abc	5.15 abc	82.23 ab	-21.64 jk
360	AH	32.96 a	5.17 bcdef	0.03 de	0.79 fg	0.488 fg	0.54 e	42.6 fgh	0.898 bcde	6.57 abc	83.24 ab	-23.35 k
P	< 0.0001 ***	0.0021 **	< 0.0001 ***	< 0.0001 ***	< 0.0001 ***	0.0003 ***	< 0.0001 ***	0.0001 ***	0.0222 *	0.0142 *	< 0.0001 ***	

Table S3: Effects of halophyte genotype (HG) and the four (Ctrl, 90, 180, 360 mM NaCl) water salinity levels (WS) on physiological traits, biomass and element content at twenty-seven days from the salt stress initiation (27 DAS). Significance codes: ns, (+), *, **, and *** mean, respectively, not significant and significant at p ≤ 0.1, p ≤ 0.05, p ≤ 0.01 and p ≤ 0.001. Different letters indicate significant differences at P ≤ 0.05 (n=4).

Halophyte Genotype	FW (g plant ⁻¹)	DW (g plant ⁻¹)	PH (cm)	SLA (cm ² g ⁻¹)	EL (%)	Ca (mg kg ⁻¹ DW)	K (mg kg ⁻¹ DW)	Na (mg kg ⁻¹ DW)	P (mg kg ⁻¹ DW)	Mg (mg kg ⁻¹ DW)	δ ¹³ C (‰)	C (%)	N (%)
AH	17.6 b	3.074 c	63.0 c	189.4 c	77.0 a	96.4 a	328.1 a	670.3 a	29.58 b	71.7 a	-18.47 a	31.4 b	2.34 b
AG	24.2 a	4.78 b	105.4 a	310.2 a	49.1 b	73.0 b	226.6 c	573.7 b	40.33 a	47.6 c	-32.27 c	35.0 a	2.16 b
AR	12.2 c	1.87 d	77.8 b	319.2 a	55.4 b	101.8 a	255.7 b	662.4 a	28.99 b	48.3 c	-33.31 d	33 b	2.89 a
AS	26.5 a	5.55 a	102.0 a	264.7 b	77.0 a	80.5 b	225.2 c	506.1 c	29.58 b	58.9 b	-30.93 b	35.3 a	2.14 b
P	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	0.000 ***	<0.0001 ***	<0.0001 ***
Water Salinity													
Ctrl	15.7 b	3.10 b	90.2	300.1 a	39.3 d	112.1 a	268.3 ab	349.1 c	29.69 b	66.8 a	-29.38 b	36.5 a	2.17
90	24.0 a	4.18 a	89.7	277.7 ab	52.1 c	86.9 b	272.5 a	658.8 b	36.37 a	59.5 ab	-29.37 b	33.1 b	2.49
180	21.5 a	3.83 ab	86.2	267.0 b	59.8 c	75.4 b	252.6 bc	720.4 a	33.44 ab	51.1 bc	-28.34 a	32.8 b	2.39
360	19.4 ab	3.87 a	81.9	236.6 c	70.7 a	77.4 b	242.2 c	684.2 ab	38.40 a	49.2 c	-27.91 a	32.4 b	2.47
P	0.0092 **	0.0026 **	0.193 ns	<0.0001 ***	<0.0001 ***	<0.0001 ***	0.0004 ***	<0<0.0001***	0.0011 **	0.0011 **	0.000***	<0.0001 ***	0.227 ns
HG x WS													
Ctrl AG	20.4 cd	4.09	104.6	368.2 a	29.6 h	92.1	234.7	316.88 f	36.32 abcd	65.1	-33.08 def	37.1	1.98 b
90 AG	29.3 a	5.46	109.8	317.6 abcd	43.8 fgh	71.7	239.2	614.91 cd	38.74 abcd	49.1	-32.99 def	35.4	2.04 b
180 AG	25.5 ab	4.72	102	316.5 abcd	54.7 def	68.9	224.0	722.76 abc	42.52 abc	39.2	-32.53 cdef	32.9	2.47 ab
360 AG	21.8 bc	4.85	105.3	238.3 efg	68.3 bcd	59.4	208.3	640.33 bcd	43.8 ab	37.0	-30.48 bc	34.7	2.16 b
Ctrl AR	9.2 g	1.29	96.6	322.8 abc	42.0 fgh	123.2	286.6	377.2 f	25.04 d	53.0	-33.97 ef	36.1	2.32 b
90 AR	17.1 de	2.07	78.3	339.1 ab	49.8 efg	106.3	276.5	769.5 ab	37.62 abcd	56.4	-34.53 f	31.5	3.72 a
180 AR	10 g	1.22	69.5	325.5 abc	65.6 cde	89.4	233.0	732 abc	27.3 cd	47.6	-33.04 def	33.1	2.59 ab
360 AR	12.7 fg	1.76	66.75	289.3 bcde	64.1 de	88.3	226.7	771.1 ab	25.99 d	36.3	-31.69 bcde	31.4	2.92 ab
Ctrl AS	20.1 cd	4.52	96.2	306.4 abcde	54.6 def	106.4	217.5	295.1 f	28.64 bcd	65.2	-31.93 bcde	38.2	1.77 b
90 AS	29.8 a	5.94	105	253.5 cdef	84.4 ab	73.8	228.0	533.1 de	44.63 a	60.1	-30.95 bcd	35	2.22 b
180 AS	29.4 a	5.77	106.5	253.4 cdef	82.0 abc	68.2	227.5	663.0 abcd	38.11 abcd	50.3	-29.89 b	34.1	2.35 b
360 AS	26.7 a	5.95	100.3	245.5 defg	87.0 a	73.8	228.0	533.1 de	44.63 a	60.1	-30.95 bcd	34	2.2 b
Ctrl AH	13.3 fg	2.49	63.3	203.0 fg	30.9 h	126.6	334.5	407.1 ef	28.78 bcd	83.8	-18.52 a	34.5	2.61 ab
90 AH	19.9 cde	3.30	65.8	200.7 fg	30.3 h	95.8	346.2	717.9 abc	24.5 d	72.6	-19 a	30.4	2 b
180 AH	21 cd	3.62	66.9	180.4 g	37.0 gh	74.9	325.9	764.0 abc	25.83 d	67.1	-17.89 a	31.1	2.14 b
360 AH	16.4 ef	2.90	55.3	173.5 g	63.3 de	88.3	305.7	792.4 a	39.2 abcd	63.4	-18.52 a	29.6	2.59 ab
P	<0.0001 ***	0.6884 ns	0.1171 ns	0.0165 *	0.0001 ***	0.5289 ns	0.0547 ns	0.0328 *	0.0037 **	0.2063 ns	0.0133 *	0.6337 ns	0.0139 *

Table S4: Effects of halophyte genotype (HG) and the two corner (Ctrl and 360 mM NaCl) water salinity levels (WS) on physiological traits, biomass and element content at twenty days from the salt stress initiation (27 DAS). Significance codes: ns, (+), *, **, and *** mean, respectively, not significant and significant at $p \leq 0.1$, $p \leq 0.05$, $p \leq 0.01$ and $p \leq 0.001$. Different letters indicate significant differences at $P \leq 0.05$ ($n=4$).

Halophyte Genotype	FW (g plant ⁻¹)	DW (g plant ⁻¹)	PH (cm)	SLA (cm ² g ⁻¹)	EL (%)	Ca (mg kg ⁻¹ DW)	K (mg kg ⁻¹ DW)	Na (mg kg ⁻¹ DW)	P (mg kg ⁻¹ DW)	Mg (mg kg ⁻¹ DW)	δ13C (‰)	C (%)	N (%)
AH	14.38 b	2.69 b	59.3 c	188 b	47.1 b	107.4 a	320 a	600 a	34.0 ab	73.6 a	-18.5 a	32 b	2.60 a
AG	21.1 a	4.47 a	104.9 a	303 a	49.0 b	75.8 b	221 c	479 b	40.1 a	51.0 bc	-31. bc	35.9 a	2.07 ab
AR	10.9 c	1.52 c	81.7 b	306 a	53 b	105.7 a	257 b	574 a	25.5 b	44.7 c	-32.8 c	33.7 ab	2.62 a
AS	23.4 a	5.24 a	98.2 a	276 b	70.8 a	90.1 b	223 c	414 b	36.6 a	62.6 ab	-31.4 b	36.1 a	1.99 b
P	<0.0001***	<0.0001***	<0.0001***	<0.0001**	<0.0001**	<0.0001***	<0.0001***	<0.0001***	0.0014 **	<0.0001***	<0.0001***	0.0009 ***	0.0058 **
Water Salinity													
Ctrl	19.4 a	3.10 b	90.2 a	312 a	70.7 a	112.1 a	268.4 a	379 b	29.7 b	66.8 a	-29.4 b	36.5 a	2.17 b
360	15.7 b	3.87 a	81.9 b	237 b	39.3 b	77.4 b	242.4 b	714 a	38.4 a	49.2 b	-27.9 a	32.4 b	2.47 a
P	0.0002***	0.0025 **	0.0613 (+)	<0.0001**	<0.0001**	<0.0001***	0.0012 **	<0.0001***	0.0009 ***	<0.0001***	0.0002 ***	<0.0001***	0.0440 *
HG x WS													
Ctrl AG	20.36 c	4.09	104.6 a	368 a	29.6	92.1	235 c	317 e	36.3	65.1	-33.1 cd	37.1	1.98
360 AG	21.75 b	4.85	105.2 a	238 cd	68.3	59.4	208 c	640 bc	43.8	37	-30.5 b	34.7	2.16
Ctrl AR	9.15 f	1.29	96.6 a	323 ab	42	123.2	287 b	377 e	25	53	-34 d	36.1	2.32
360 AR	12.67 e	1.76	66.8 b	289 bc	64.1	88.3	227 c	771 ab	26	36.3	-31.7 bc	31.4	2.92
Ctrl AS	20.05 c	4.52	96.2 a	306 b	54.6	106.4	217 c	295 e	28.6	65.2	-31.9 bcd	38.2	1.77
360 AS	26.69 a	5.95	100.2 a	245 cd	87	73.8	228 c	533 cd	44.6	60.1	-30.9 bc	34	2.2
Ctrl AH	13.26 de	2.49	63.3 b	203 de	30.9	126.6	335 a	407 de	28.8	83.8	-18.5 a	34.5	2.61
360 AH	16.38 d	2.9	55.2 b	174 e	63.3	88.3	306 ab	792 a	39.2	63.4	-18.5 a	29.6	2.59
P	0.0001 ***	0.386 ns	0.039 *	0.0006 ***	0.1184 ns	0.9437 ns	0.0166 *	0.0498 *	0.1392 ns	0.1411 ns	0.030 *	0.4927 ns	0.4222 ns

Table S5: Effects of halophyte genotype (HG) and the two corner (Ctrl and 360 mM NaCl) water salinity levels (WS) on the physiological traits at seven days from the salt stress initiation (7 DAS). Significance codes: ns, (+), *, **, and *** mean, respectively, not significant and significant at $p \leq 0.1$, $p \leq 0.05$, $p \leq 0.01$ and $p \leq 0.001$. Different letters indicate significant differences at $P \leq 0.05$ ($n=4$).

Halophyte Genotype	SPAD	A ($\mu\text{mol m}^{-2}\text{s}^{-1}$)	GS ($\text{mol m}^{-2}\text{s}^{-1}$)	E ($\text{mol m}^{-2}\text{s}^{-1}$)	Φ_{PSII}	Fv'/Fm'	ETR ($\mu\text{mol m}^{-2}\text{s}^{-1}$)	qP	iWUE ($\mu\text{mol CO}_2\text{ mol}^{-1}\text{H}_2\text{O}$)	RWC (%)	LWP (-Mpa)	
AH	29.2 b	4.89 ab	0.053 b	0.855 b	0.484 c	0.556 b	42.1 c	0.870 B	6.81 a	85.8 a	-9.35 c	
AG	16.2 c	5.44 a	0.092 a	1.397 a	0.624 a	0.688 a	54.5 a	0.927 A	4.78 b	72.6 b	-3.62 b	
AR	14.2 c	4.31 b	0.070 ab	1.079 b	0.557 b	0.648 a	48.6 b	0.859 B	4.38 b	82.3 a	-2.66 a	
AS	37.3 a	5.33 a	0.050 b	0.781 b	0.509 c	0.661 a	44.7 c	0.769 C	7.12 a	72 b	-6.15 b	
P	<0.0001 ***	0.0074 **	0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	0.0005 ***	0.0001***	<0.0001***	
Water Salinity												
Ctrl	25	5.64 a	0.093 a	1.414 a	0.545	0.643 a	47.6	0.848	4.35 b	80.1 a	-3.73 a	
360	23.4	4.68 b	0.040 b	0.643 b	0.541	0.626 b	47.4	0.846	7.88 a	76.2 b	-7.16 b	
P	0.5590 ns	<0.0001 ***	<0.0001 ***	<0.0001 ***	0.7117 ns	0.0103 *	0.7415 ns	0.1116 ns	<0.0001 ***	0.0183 *	<0.0001***	
WS x HG												
Ctrl	AG	17.3 c	6.35 a	0.137 a	2.08 a	0.64	0.68 a	55.4	0.93	3.13	73.9	-3.15 a
360	AG	15 cd	4.54 b	0.046 cd	0.71 cd	0.61	0.66 b	53.6	0.92	6.44	71.3	-4.09 a
Ctrl	AR	14.3 d	4.74 b	0.092 b	1.42 b	0.54	0.64 b	47.3	0.84	3.4	85.9	-2.22 a
360	AR	14 d	3.88 b	0.046 cd	0.74 cd	0.57	0.65 b	49.9	0.88	5.36	78.7	-3.1 a
Ctrl	AS	39.5 a	6.33 a	0.065 bcd	1.01 bcd	0.52	0.68 a	46	0.77	6.29	74.8	-3.47 a
360	AS	35.1 a	4.32 b	0.034 d	0.56 d	0.49	0.64 b	43.5	0.77	7.95	69.3	-8.83 bc
Ctrl	AH	28.9 b	5.14 ab	0.076 bc	1.15 bc	0.48	0.56 c	41.8	0.85	4.61	85.8	-6.1 ab
360	AH	29.5 b	4.64 b	0.033 d	0.56 d	0.49	0.55 c	42.3	0.89	9.02	85.7	-12.6 c
P	0.0002 ***	0.0766 (+)	0.0077 **	0.0018 **	0.1328 ns	0.0010 **	0.1725 ns	0.3113 ns	0.1743 ns	0.3750 ns	0.0003 ***	

Table S6: Effects of halophyte genotype (HG) and the two corner (Ctrl and 360 mM NaCl) water salinity levels (WS) on the physiological traits at twenty-seven days from the salt stress initiation (27 DAS). Significance codes: ^{ns}, ⁽⁺⁾, ^{*}, ^{**}, and ^{***} mean, respectively, not significant and significant at $p \leq 0.1$, $p \leq 0.05$, $p \leq 0.01$ and $p \leq 0.001$. Different letters indicate significant differences at $P \leq 0.05$ ($n=4$).

Halophyte Genotype	SPAD	A ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	GS ($\text{mol m}^{-2} \text{s}^{-1}$)	E ($\text{mol m}^{-2} \text{s}^{-1}$)	Φ_{PSII}	F _{V'} /F _{m'}	ETR ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	q _P	iWUE ($\mu\text{mol CO}_2 \text{mol}^{-1} \text{H}_2\text{O}$)	RWC (%)	LWP (-Mpa)
AH	24.63 a	5.48 a	0.058 a	1.25 a	0.520 b	0.58 c	45.3 b	0.901 b	4.97 ab	80.5 a	-14.98 c
AG	10.94 b	5.56 a	0.052 ab	1.07 a	0.644 a	0.67 a	56.1 a	0.941 a	6.10 a	76.9	-7.20 b
AR	6.05c	4.4 b	0.040 bc	1.1 a	0.609 a	0.66 a	53.3 a	0.904 b	4.19 b	78.9	-4.23 a
AS	24.38 a	3.59 b	0.028 c	0.61 b	0.516 b	0.64 b	45.3 b	0.809 c	5.71 ab	79.4	-4.88 ab
P	<0.0001 ***	0.003***	<0.0001 ***	0.0188 *	<0.0001 ***	<0.0001 ***	<0.0001 ***	<0.0001 ***	0.049 *	0.0001 ***	<0.0001 ***
Water Salinity											
Ctrl	25.2	5.23 a	0.060 a	1.32 a	0.563	0.65	49.2 a	0.867 b	6.15 a	82.6	-4.34 a
360	24.6	4.29 b	0.029 b	0.69 b	0.581	0.64	50.8 a	0.910 a	4.33 b	75.3	-11.31 b
P	0.9399 ns	0.0002 ***	<0.0001 ***	0.0002***	0.06809 ⁽⁺⁾	0.2847 ns	0.06812 ⁽⁺⁾	<0.0001 ***	0.001**	0.5113 ns	<0.0001 ***
HG x WS											
Ctrl	AG	16.4 b	6.04 a	0.071 ab	1.46 a	0.64 a	0.69 a	55.3 ab	0.92 ab	4.36 b	82.1 abc
360	AG	17.3 b	5.07 ab	0.032 cd	0.68 bc	0.65 a	0.68 a	56.9 a	0.96 a	7.83 a	71.8 c
Ctrl	AR	15 b	4.71 bc	0.051 bc	1.33 a	0.6 abc	0.67 ab	52.5 abc	0.89 bc	3.56 b	85.3 a
360	AR	14.6 b	4.09 bc	0.031 cd	0.86 b	0.62 ab	0.68 a	54.1 ab	0.92 abc	4.82 ab	72.5 bc
Ctrl	AS	34 a	4.37 bc	0.037 cd	0.76 b	0.47 e	0.62 bc	41 e	0.76 d	6.03 ab	85.1 a
360	AS	33.7 a	2.82 c	0.019 d	0.49 c	0.57 bc	0.65 abc	49.6 bc	0.86 c	5.39 ab	73.8 bc
Ctrl	AH	35.3 a	5.8 a	0.082 a	1.74 a	0.55 cd	0.61 c	47.9 cd	0.9 bc	3.37 b	77.7 abc
360	AH	33 a	5.17 ab	0.033 cd	0.79 b	0.49 de	0.54 d	42.6 de	0.9 bc	6.57 ab	83.2 ab
P		0.0008 ***	0.0131 *	0.0133 *	0.0004 ***	<0.0001 ***	0.0032 **	0.0001 ***	0.0004 ***	0.0222 *	0.0022 **

Table S7. Eigen analysis of the PCA correlation matrix

	Eigenvalue	Percentage of variance	Cumulative percentage of variance
PC1	7.01	29.22	29.22
PC2	6.30	26.24	55.47
PC3	4.00	16.65	72.11

Table S8. Correlation coefficients between quantitative and categorical variables, and the first three PCs. The PCs were computed using 32 input data.

<i>Quantitative variables</i>	PC1	PC2	PC3
A	0.41 *	ns	ns
C	ns	0.7 **	-0.54 **
Ca	0.85 **	0.36 *	ns
DW	-0.65 **	ns	-0.49 **
δC	0.63 **	-0.66 **	ns
E	0.71 **	0.55 **	ns
EL	-0.68 **	-0.59 **	ns
ETR	-0.45 **	0.58 **	0.61 **
Fv'/Fm'	-0.52 **	0.73 **	ns
FW	-0.67 **	ns	-0.44 *
GS	0.67 **	0.5 **	ns
K	0.89 **	ns	ns
LWP	ns	0.79 **	ns
Mg	0.71 **	ns	-0.44 *
N	ns	ns	0.64 **
Na	ns	-0.71 **	0.59 **
P	-0.53 **	-0.44 *	ns
PH	-0.61 **	0.5 **	-0.37 *
qP	ns	ns	0.81 **
RWC	0.45 **	ns	-0.4 *
SLA	ns	0.81 **	ns
SPAD	ns	-0.63 **	-0.54 **
WUE	-0.52 **	-0.43 *	ns
Φ_{PSII}	-0.44 *	0.58 **	0.61 **
<i>Categorical variables</i>	PC1	PC2	PC3
HG	0.62 **	0.48 **	0.65 **
WS	0.31 **	0.41 **	0.19 **

HG = Halophyte genotypes; WS = Water salinity; Significance codes: ns, * and ** mean non-significant and significant at $p \leq 0.05$ and $p \leq 0.01$, respectively.