

Experimental warming increases respiration and affects microbial communities of soil wetlands from different elevations of the Argentinean Puna

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Keywords: High-altitude ecosystems, peatlands, temperature, microorganisms, soil CO₂ flux, *vegas*

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Supplementary Figures

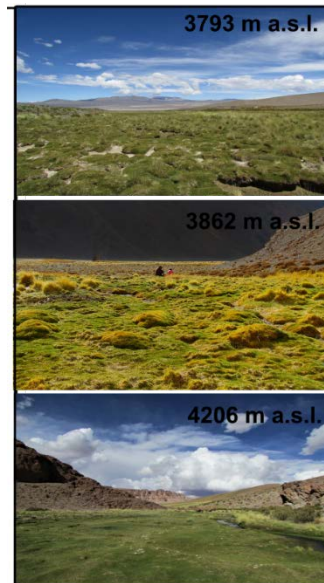


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Fig. S1 Study area and the location of selected wetlands (indicated by different symbols) in the Argentinean Puna region. The photographs on the right show a landscape view of the three selected wetlands with the characteristic arid matrix surrounding them.

Supplementary Table

Table S1 Proportion (%) of the different PLFA markers at the end of the incubation experiment in wetland soils from different elevations of the Argentinean Puna. Values represent mean \pm SE; ($n = 4$). C= control (10 °C) and W=warming treatments (25 °C).

		Studied wetlands					
		3793 m a.s.l.		3862 m a.s.l.		4206 m a.s.l.	
Microbial group	PLFA marker	C	W	C	W	C	W
<i>Unspecific bacteria</i>	<i>14:0</i>	1.53 \pm 0.09	5.26 \pm 0.41	2.08 \pm 0.08	4.56 \pm 0.20	2.06 \pm 0.28	4.42 \pm 0.55
	<i>15:0</i>	1.22 \pm 0.11	4.49 \pm 1.17	1.46 \pm 0.07	1.91 \pm 0.07	1.10 \pm 0.19	5.42 \pm 1.96
	<i>16:0</i>	22.05 \pm 6.06	24.43 \pm 4.81	43.04 \pm 0.41	40.99 \pm 0.42	26.64 \pm 1.22	28.44 \pm 1.34
	<i>17:0</i>	0.10 \pm 0.02	0.69 \pm 0.19	0.24 \pm 0.01	0.95 \pm 0.04	1.02 \pm 0.20	0.38 \pm 0.11
	<i>18:0</i>	44.93 \pm 0.50	11.97 \pm 1.59	40.62 \pm 0.21	11.58 \pm 0.71	4.80 \pm 0.53	18.17 \pm 3.04
	<i>20:0</i>	0.65 \pm 0.02	5.28 \pm 1.35	1.06 \pm 0.12	0.82 \pm 0.41	8.02 \pm 2.12	6.05 \pm 1.62
<i>Gram-positive bacteria</i>	<i>i-15:0</i>	2.09 \pm 0.57	10.84 \pm 1.75	2.01 \pm 0.45	9.97 \pm 0.16	8.81 \pm 0.57	7.98 \pm 0.75
	<i>a-15:0</i>	0	5.13 \pm 2.57	0	0	5.07 \pm 0.86	1.86 \pm 0.93
	<i>i-16:0</i>	0	3.50 \pm 0.62	0.17 \pm 0.09	3.39 \pm 0.04	4.42 \pm 0.46	3.05 \pm 0.22
	<i>i-17:0</i>	21.33 \pm 5.90	4.51 \pm 0.48	0.99 \pm 0.08	2.91 \pm 0.49	8.51 \pm 1.44	1.05 \pm 0.32
<i>Gram-negative bacteria</i>	<i>16:1ω9c</i>	0	0.41 \pm 0.20	0	0.04 \pm 0.02	4.45 \pm 0.97	1.38 \pm 0.42
	<i>cy17:0</i>	0.11 \pm 0.02	3.07 \pm 0.23	0.19 \pm 0.03	2.56 \pm 0.33	5.64 \pm 0.68	2.56 \pm 0.47
	<i>cy19:0</i>	0.54 \pm 0.11	6.08 \pm 0.98	0.46 \pm 0.08	5.20 \pm 0.35	2.81 \pm 0.27	3.18 \pm 0.22
<i>Fungi</i>	<i>18:2ω9.12c</i>	0.97 \pm 0.07	4.09 \pm 0.43	1.94 \pm 0.37	4.30 \pm 0.36	3.83 \pm 0.34	3.74 \pm 0.35
	<i>18:1ω9c</i>	4.47 \pm 0.39	10.25 \pm 0.50	5.75 \pm 0.51	10.82 \pm 0.38	12.81 \pm 0.24	12.33 \pm 1.23