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Environmental drivers of the geographical distribution of methanotrophs: Insights from a national survey

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1 Environmental drivers of the geographical distribution of methanotrophs: insights from 2 a national survey. 3 Loïc Nazaries¹*, Senani B. Karunaratne¹, Manuel Delgado-Baquerizo^{1,2}, Colin D. 4 Campbell^{3,4}, and Brajesh K. Singh^{1,5}* 5 6 7 ¹ Hawkesbury Institute for the Environment, Western Sydney University, Building L9, 8 9 Locked Bag 1797, Penrith, NSW 2751, Australia. ² Cooperative Institute for Research in Environmental Sciences, University of Colorado, 10 11 Boulder, CO 80309, USA. ³ The James Hutton Institute, Craigiebuckler, Aberdeen, AB15 8BQ, Scotland. 12 ⁴ Department Soil and Environment, Swedish Agricultural Sciences University, Uppsala, 13 14 Sweden. 15 ⁵ Global Centre for Land-Based Innovation, Western Sydney University, Locked Bag 1797, Penrith, NSW 2751, Australia. 16 17 18 Keywords: methanotrophs, pmoA, spatial modelling, mapping, niche partitioning, 19 biogeography. 20 Running title: Drivers of methanotrophic communities. 21 22 * Corresponding authors: 1. Loïc Nazaries: L.Nazaries@westernsydney.edu.au 23 2. Brajesh K Singh: B.Singh@westernsydney.edu.au 24 25

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