**Table S2.** Output of φCO2 measurements carried out at Taylor Valley, Antarctica. The total gas emission rates over the surveyed surface (21.6 km2) have been computed following the Chiodini and Frondini64 approach. Background values were not included.

|  |  |
| --- | --- |
| Population classes | average (g m-2d-1) |
| φCO2 |
| 2-3 | 2.47 |
| 3-5 | 3.89 |
| >5 | 6.26 |
| **t d-1** | **14.95** |