



*Supplement of*

## **Soil disturbance in wetlands by feral pigs increases greenhouse gas emissions**

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**Table S1. Regression coefficients for greenhouse gas emission for reference plots and plots with pig damage during the Yekke season.**

| Reference |                  |          |                | Pigs     |          |                | Reference       |          |                | Pigs     |          |                |
|-----------|------------------|----------|----------------|----------|----------|----------------|-----------------|----------|----------------|----------|----------|----------------|
|           | CO <sub>2</sub>  |          |                |          |          |                | CH <sub>4</sub> |          |                |          |          |                |
| SITE      | <i>b</i>         | <i>m</i> | R <sup>2</sup> | <i>b</i> | <i>m</i> | R <sup>2</sup> | <i>b</i>        | <i>m</i> | R <sup>2</sup> | <i>b</i> | <i>m</i> | R <sup>2</sup> |
| UB        | 577              | 28.5     | 1.00           | 528      | 14.9     | 0.93           | 1.8             | 0.0002   | 0.10           | 1.7      | 0.006    | 0.90           |
| MU        | 562              | 14.2     | 0.94           | 596      | 13.2     | 0.50           | 1.7             | 0.002    | 0.83           | 2.2      | 0.11     | 0.60           |
| MA        | 539              | 11.0     | 1.00           | 612      | 33.6     | 1.00           | 1.8             | 0.002    | 0.83           | 1.9      | 0.003    | 0.52           |
| CO        | 599              | 24.2     | 0.98           | 487      | 21.2     | 0.99           | 1.9             | 0.06     | 0.99           | 5.3      | 0.36     | 0.92           |
| JA        | 553              | 15.1     | 0.99           | 457      | 24.8     | 1.00           | 2.0             | -0.002   | 0.96           | 2        | 0.01     | 0.92           |
| DJ        | 462              | 14.2     | 1.00           | 514      | 33.3     | 1.00           | 1.7             | 0.004    | 0.87           | 11.4     | 1.0      | 0.92           |
|           | N <sub>2</sub> O |          |                |          |          |                |                 |          |                |          |          |                |
| UB        | 0.34             | 0.0002   | 0.42           | 0.35     | 0.009    | 0.99           |                 |          |                |          |          |                |
| MU        | 0.33             | 0.002    | 0.94           | 0.38     | 0.005    | 0.63           |                 |          |                |          |          |                |
| MA        | 0.34             | 0.0001   | 0.12           | 0.35     | 0.001    | 0.89           |                 |          |                |          |          |                |
| CO        | 0.34             | 0.0001   | 0.79           | 0.43     | 0.036    | 1.00           |                 |          |                |          |          |                |
| JA        | 0.32             | 0.0001   | 0.50           | 0.32     | 0.007    | 1.00           |                 |          |                |          |          |                |
| DJ        | 0.32             | 0.0001   | 0.29           | 0.31     | 0.001    | 0.95           |                 |          |                |          |          |                |

**Table S2. Regression coefficients for greenhouse gas emission for reference plots and plots with recent and past pig damage during the Kunumeleng season.**

| Reference        |          |          |                | Pigs Recent |          |                | Pigs Past |          |                |
|------------------|----------|----------|----------------|-------------|----------|----------------|-----------|----------|----------------|
| CO <sub>2</sub>  |          |          |                |             |          |                |           |          |                |
| SITE             | <i>b</i> | <i>m</i> | R <sup>2</sup> | <i>b</i>    | <i>m</i> | R <sup>2</sup> | <i>b</i>  | <i>m</i> | R <sup>2</sup> |
| MU               | 560      | -0.7     | 0.64           | 619         | 7.9      | 1.00           | 553       | 3.0      | 0.93           |
| MA               | 655      | 0.27     | 0.01           | 620         | 3.6      | 0.40           | 544       | 3.4      | 0.99           |
| DJ               | 889      | 1.3      | 0.02           | 571         | 7.2      | 0.78           | 828       | 4.6      | 0.72           |
| CH <sub>4</sub>  |          |          |                |             |          |                |           |          |                |
| MU               | 1.8      | 0.002    | 0.71           | 2.6         | 0.042    | 0.98           | 1.9       | -0.002   | 0.72           |
| MA               | 1.9      | 0.001    | 0.26           | 328         | 2.3      | 0.08           | 2.2       | -0.002   | 0.50           |
| DJ               | 1.9      | -0.001   | 0.15           | 54          | 0.85     | 0.33           | 1.7       | -0.003   | 0.79           |
| N <sub>2</sub> O |          |          |                |             |          |                |           |          |                |
| MU               | 0.35     | -0.0001  | 0.40           | 0.36        | 0.002    | 0.99           | 0.34      | 0.0001   | 0.10           |
| MA               | 0.34     | 0.0001   | 0.22           | 0.32        | 0.001    | 0.01           | 0.35      | -0.00001 | 0.35           |
| DJ               | 0.35     | -0.0002  | 0.54           | 0.35        | -0.0002  | 0.72           | 0.34      | 0.0001   | 0.54           |