



*Supplement of*

**Effects of mild alternate wetting and drying irrigation and rice straw application on N<sub>2</sub>O emissions in rice cultivation**

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1 Table S1 Effects of different treatments on cumulative N<sub>2</sub>O emissions,  
 2 cumulative CH<sub>4</sub> emissions and GWP. The values denote means ± standard  
 3 errors (n=3). Different lowercase letters indicate significant differences (*P*  
 4 < 0.05).

| Treatments |                    | Cumulative N <sub>2</sub> O<br>emissions<br>kg ha <sup>-1</sup> | Cumulative CH <sub>4</sub><br>emissions<br>kg ha <sup>-1</sup> | GWP<br>kg CO <sub>2</sub> -eq ha <sup>-1</sup> |
|------------|--------------------|---|--|--|
| CF         | CK                 | 1.48±0.06 ef  | 19.02±0.54 ef  | 916.2±25.4 e                                   |
|            | <sup>15</sup> S    | 1.24±0.05 f   | 420.67±23.28 b   | 10886.2±593.7 b                                |
|            | <sup>15</sup> U    | 4.02±0.30 c   | 35.57±0.83 e   | 2088.4±98.7 d                                  |
|            | U+ <sup>15</sup> S | 3.89±0.09 c   | 455.84±12.54 a   | 12556.7±339.3 a                                |
|            | <sup>15</sup> U+S  | 3.76±0.02 c   | 456.47±20.02 a   | 12531.4±496.1 a                                |
| AWD        | CK                 | 1.64±0.15 e   | 14.16±0.73 f   | 841.7±62.1 e                                   |
|            | <sup>15</sup> S    | 2.07±0.17 d   | 158.48±6.97 c  | 4577.5±194.7 c                                 |
|            | <sup>15</sup> U    | 4.48±0.12 b   | 20.26±1.28 ef  | 1842.0±63.7 d                                  |
|            | U+ <sup>15</sup> S | 5.05±0.28 a   | 125.33±5.88 d  | 4663.7±65.8 c                                  |
|            | <sup>15</sup> U+S  | 5.29±0.25 a   | 121.01±5.88 d  | 4556.9±204.4 c                                 |

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