

Table 1.

| Season   | Data coverage (%) | Wind speed ( $\text{m s}^{-1}$ ) | XCH <sub>4</sub> enhancement (ppb) | CH <sub>4</sub> Emission ( $\text{Tg yr}^{-1}$ ) |
|----------|-------------------|----------------------------------|------------------------------------|--------------------------------------------------|
| DJF-2018 | 91                | $3.5 \pm 0.9$                    | $16.5 \pm 4.3$                     | $11.5 \pm 4.2$                                   |
| MAM-2018 | 74                | $2.1 \pm 1.2$                    | $20.2 \pm 4.1$                     | $8.5 \pm 5.1$                                    |
| JJA-2018 | 44                | $2.7 \pm 0.3$                    | $10.5 \pm 4.1$                     | $5.7 \pm 2.3$                                    |
| SON-2018 | 83                | $2.7 \pm 0.4$                    | $18.7 \pm 4.3$                     | $10.1 \pm 2.8$                                   |
| DJF-2019 | 98                | $3.2 \pm 0.9$                    | $13.4 \pm 2.7$                     | $8.6 \pm 3.0$                                    |
| MAM-2019 | 92                | $3.1 \pm 0.8$                    | $13.6 \pm 3.6$                     | $8.4 \pm 3.1$                                    |
| JJA-2019 | 43                | $2.8 \pm 0.3$                    | $2.6 \pm 3.7$                      | $1.4 \pm 2.1$                                    |
| SON-2019 | 83                | $1.9 \pm 0.2$                    | $29.3 \pm 4.0$                     | $11.2 \pm 1.9$                                   |

Figure 2.

