



*Supplement of*

## Using near-surface atmospheric measurements as a proxy for quantifying field-scale soil gas flux

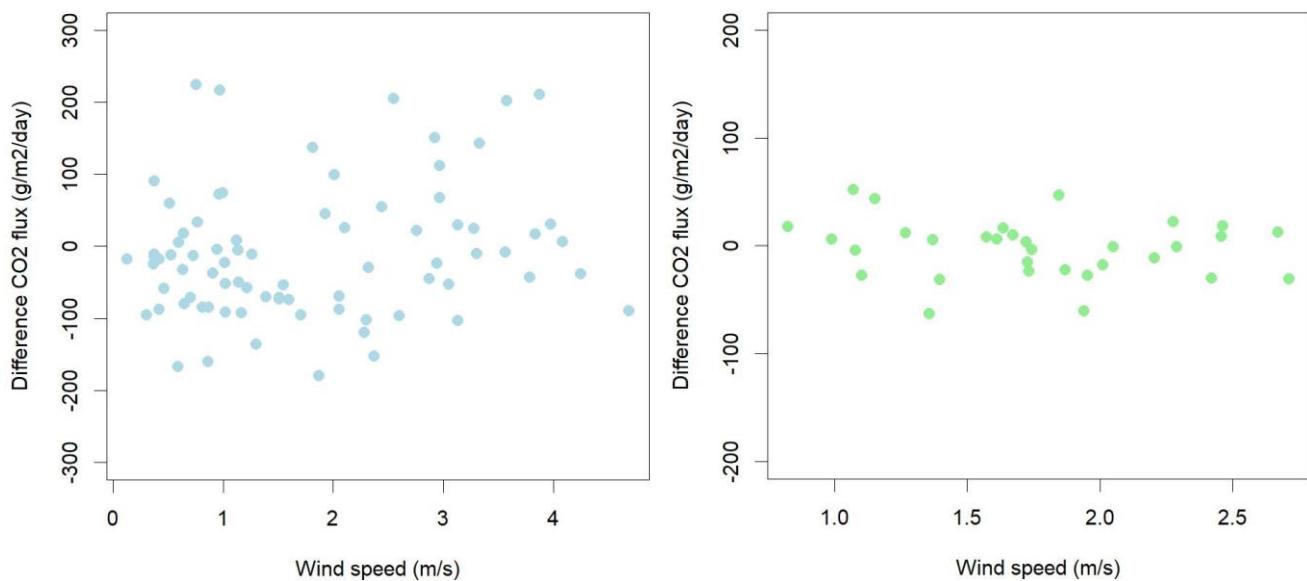
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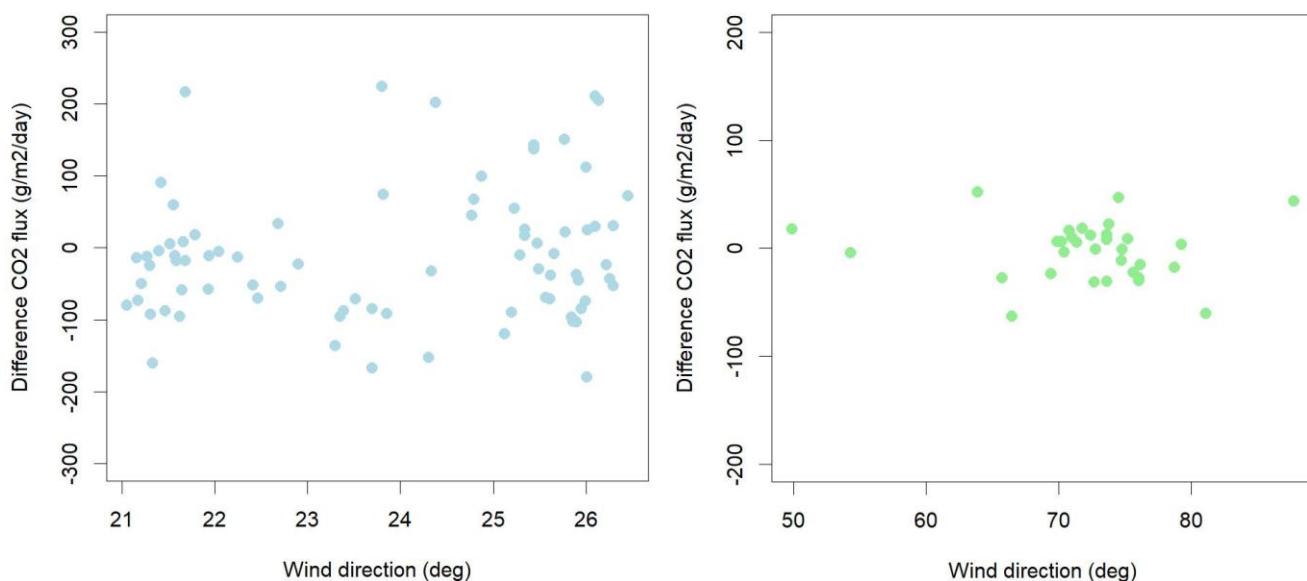
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### Wind variables against CO<sub>2</sub> flux differences

It is a reasonable assumption that wind speed and direction could influence the collection of flux data using the open-field method. To assess the impacts we have plotted the difference in CO<sub>2</sub> flux for each measurement location described in the main manuscript against wind speed and wind direction (Fig. S1 and Fig. S2). Regression analysis reveals R<sup>2</sup> values of close to zero (all below 0.05), suggesting that there is no relationship between the observed difference in CO<sub>2</sub> flux and wind direction or wind speed.



**Figure S1:** Wind speed plotted against difference in CO<sub>2</sub> flux for the Ailano, blue (left), and Sutton Bonington, green (right).



**Figure S2:** Wind direction plotted against difference in CO<sub>2</sub> flux for the Ailano, blue (left), and Sutton Bonington, green (right).