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Supplement of

The potential of Orbiting Carbon Observatory-2 data to reduce the uncertainties in CO₂ surface fluxes over Australia using a variational assimilation scheme

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1 Analysis of wind direction

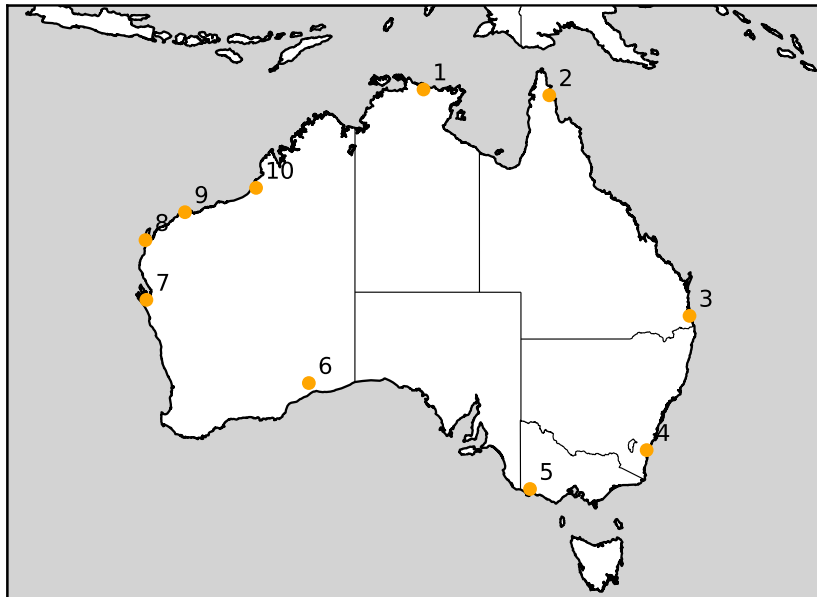
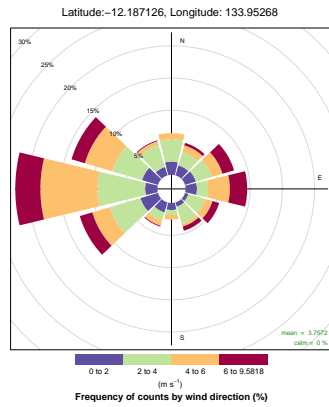
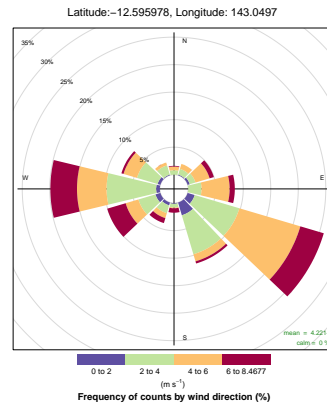


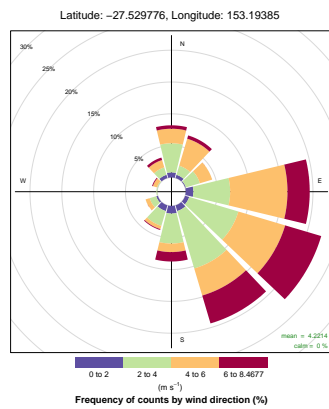
Figure S1. Orange points represent the locations for the wind roses shown in Fig. S3. These points are located around the coast in the Western region of Australia.



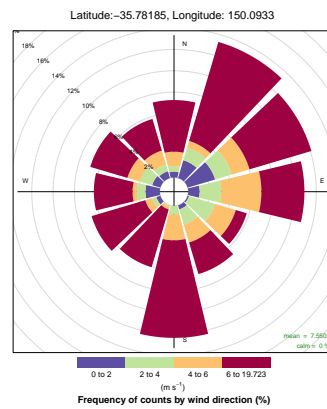
(a) Location 1



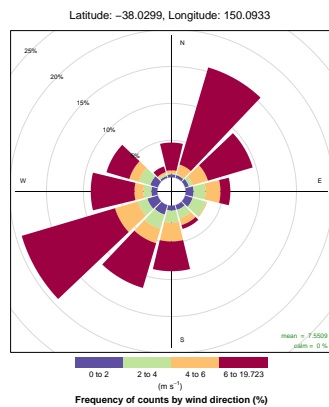
(b) Location 2



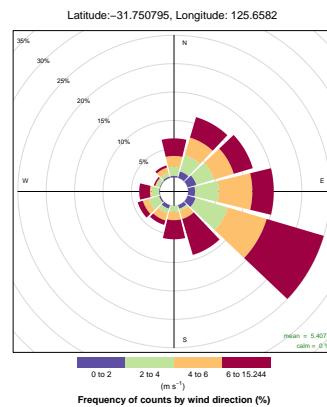
(c) Location 3



(d) Location 4

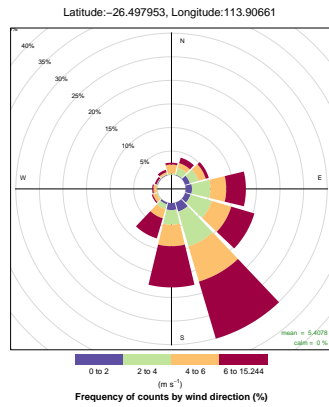


(e) Location 5

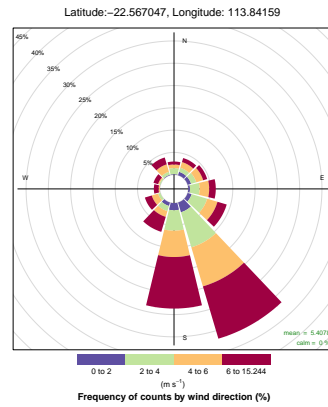


(f) Location 6

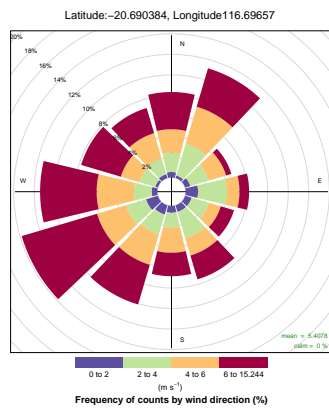
Figure S2. Wind roses show the frequency of occurrence of wind speed and direction available for 6 selected locations around the coast in Australia for March 2015.



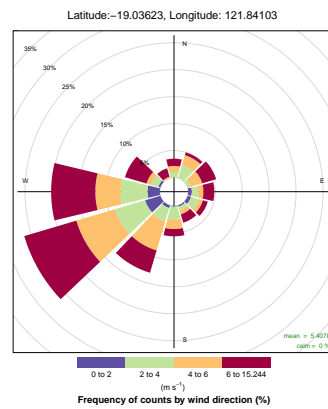
(a) Location 7



(b) Location 8



(c) Location 9



(d) Location 10

Figure S3. Wind roses show the frequency of occurrence of wind speed and direction available for 4 selected locations around the coast in Australia for March 2015.