

CO₂ Flux Variation with Seasonal Change in the Foreshore and Grassplot

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In this study, we investigated the fluctuations of carbon dioxide flux with soil temperature on the grassplot and foreshore. Furthermore we analyzed Seasonal change in carbon dioxide concentration and flux. Field measurements were carried out in Suncheon bay foreshore and Pukyong National University's grassplot, respectively 6 times and 24 times from March 2010 to March 2011. In summer, the soil temperatures was upper than 20°C, carbon dioxide emitted from the grassplot was three times higher than the foreshore. In winter, the soil temperatures was lower than 10°C, absorption of carbon dioxide occurred greater than 50 mg CO₂m⁻²hr⁻¹ in foreshore but the absorption of carbon dioxide on the grassplot did not happen. Carbon dioxide concentrations and fluxes showed the same tendency in winter and spring but showed the opposite trend from May to November.

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