



Variation characteristics of soil organic carbon and carbon dioxide in the constructed wetland at the Goheung bay

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The seasonal variation for carbon dioxide in the air and soil organic carbon of the sediment were observed at the constructed wetland formed by reclamation work of the Goheung bay. Sediment sampling in the constructed wetland and carbon dioxide measurement in the air were accomplished in June 16 and August 23, 2007. Sediments in the constructed wetland were sampled at the 11 points (June 16) and 14 points (August 23). And, carbon dioxide in the air were measured at the 13 points (June 16) and 15 points (August 23). Water content and organic carbon of the sampled sediments were analyzed in the laboratory. Water content of the sediments was higher than general soil, and the seasonal variation was not showed. Organic carbon in the sediments sampled in August 23 was higher than it in June 16. Also, organic carbon in the sediments at the field of reeds was more than it of the pure wetland area. Maximum variation per day of the carbon dioxide in the air was higher in June 16, but carbon dioxide in the air was higher in August 23. As the results of this study, organic carbon in the sediments and carbon dioxide in the air were verified that summer season (August 23) was more than spring season (June 16) in the constructed wetland at the Goheung bay.