



Micro-meteorology monitoring system over Nakdong river in Korea

Cho changbum (1), Byon jae-young (2), Kim kyu rang (3), and Choi byoung-cheol (4)

(1) Korean Meteorological Administration, Seoul, Korea, Republic Of, (2) Korean Meteorological Administration, Seoul, Korea, Republic Of, (3) Korean Meteorological Administration, Seoul, Korea, Republic Of, (4) Korean Meteorological Administration, Seoul, Korea, Republic Of

National Institute of Meteorological Research established micro-meteorology monitoring system at the Nakdong River of South Korea since 2010 in order to study the micro-meteorological impact due to nationwide major river development project. A total of 37 automatic weather stations are in operation at areas near the dams which were constructed as part of this project. The weather stations mainly measure air temperature, humidity, and wind, with some of the stations measuring radiation and heat fluxes. More than half of the stations are installed on agricultural areas and the rest are installed in an industrial area. The data collected from the stations are used to observe the micro-meteorological system and used as an input to numerical models, which compose a meteorological environment impact assessment tool.