



Local service usin critical value for each risk level of heavy rainfall and heat wave in Busan, Ulsan, Gyeongnam of Korea

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In this study calculated the risk level suitable for the characteristics of meteorological disaster occurrences in each region in the heavy rainfall and heat wave advisory and warning in Busan, Ulsan, Gyeongnam of Korea. Risk level of heavy rainfall and heat wave was set to 4 steps. 4 Steps are defined as "No severe weather, Be aware, Be prepared, Take action". Trial service using set critical values were carried out in the region's relevant disaster prevention organizations during last summer and that results analyzed. For heavy rainfall risk level, in the climate distribution of the last 30 years of 45 station in korean peninsula, advisory(over 70mm/6h) and warning(over 110mm/6hr) probability were applied to the value of the last 10 years' value for each region. It calculated by reflecting weight of disaster damage sensitivity(DDS), and based on the 1, 3, 6 hours rainfall amount values. For heat wave risk level, in the climate distribution of the last 30 years of 45 stations in Korean peninsula, advisory(over 33 degree) and warning(over 35 degree) level probability were applied to the value of the last 10 years' value for each region. It was calculated by reflecting weight of accumulated distribution of heat-related patients, the rapid change points were set to 2 steps(No severe weather, Take action).

Keywords : heavy rainfall, heat wave, critical value, risk level, impact-based forecast