JDR Award for the Most Cited Paper 2023:

Message from the Winner

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Thank you very much for this wonderful award. I am very honored to receive this award in the "most cited" category, which means that my research has been widely recognized, and I am very grateful to the JDR editorial board, reviewers, and co-authors.

The paper that received this honor was "Predictability of Precipitation Caused by Linear Precipitation Systems During the July 2017 Northern Kyushu Heavy Rainfall Event Using a Cloud-Resolving Numerical Weather Prediction Model." This paper evaluates the predictability of a numerical weather prediction model and presents several key issues regarding the predictability of the 2017 torrential rains in northern Kyushu, rains which caused extensive damage. In particular, we showed that the stagnation of the linear precipitation systems (LPS) was difficult to predict and that the maximum rainfall was underestimated.

Our paper did not present a breakthrough finding; however, I believe that along with the increase in disasters caused by LPS after the publication of the paper, interest in research on forecasting LPS increased. Notably, our focus on the difficult-to-predict case attracted a great deal of attention and many citations. In the project that followed the publication of this paper, research was conducted on how to utilize such uncertain forecast information for disaster prevention, which led to the acquisition of a patent and the publication of new papers.

In the future, we will continue our research to improve the accuracy of forecasting not only LPS but also other extreme weather events, such as guerrilla rainstorms, thunderstorms, and hailstorms. We will also seek ways to utilize this forecast information for disaster prevention, with the aim of contributing to society.

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