



Current status and future plan of Risk-based Warning System in Korea

Seungbum Kim (1), Kwan-Young Chung (), and Min-Jeong Youn ()

(1) Korea Meteorological Administration(kmaskim@korea.kr), (2) Korea Meteorological Administration(kychung@kma.go.kr), (3) Korea Meteorological Administration(ymj@korea.kr)

Currently, weather warnings in Korea are being issued based on fixed meteorological thresholds, but it is revealed that a new way is needed to prevent damages caused by meteorological hazards in Korea. To overcome this problem, Korea Meteorological Administration (KMA) plans to start the “Risk-based Warning Service” in 2020 to reduce risks caused by high-impact weather events. The KMA’s Risk-based Warning Service will be carried out based on risk-matrix approach which is being actively used in the UKMO’s weather warnings. For the success of the risk-based warning service, KMA has been developing highly sophisticated hazard models to assess the impacts caused by weather-related multi hazards. During 2016, KMA has tried pilot project with these risk-matrix and model output on impact forecast of Typhoon’s precipitation and strong wind. KMA has also supported decision makers with impact-based forecasts on Heat-Wave, precipitation and severe snows in specific area successfully as the trial service. The results will be presented in this presentation.