계절예측정보를 활용한 작물 생산 및 병해충 위험 관리

김광형[1]*, 한은진[2], 이성규[1], Amor Ines[3]

국립원예특작과학원 온난화대응농업연구소

Seasonal Forecast-based Crop Yield and Disease Risk Management

K.-H. Kim[1]*, E. Han[2], S. Lee[1] and A. Ines[3]

[1]*APEC Climate Center, Busan, Korea,*

[2]*International Research Institute for Climate and Society, Columbia University, NY, USA,*

[3]*Michigan State University, Dept of Plant, Soil and Microbial Sciences, MI, USA*

Agriculture is one of the sectors most vulnerable to impacts of climate variabilities, especially extreme weather and climate events. In this regard, seasonal forecasts have received a lot of attention for climate risk management in agricultural communities, especially coping to the seasonal scale climate variabilities. One of the ways to utilize seasonal forecast in agricultural decision makings is to link the seasonal forecast with agricultural models such as crop growth and pest and disease models to produce useful information for supporting strategic decisions in crop production. Here, we developed a decision support system (DSS) tool that aims to facilitate translations of probabilistic seasonal forecasts to crop responses such as yield and disease epidemics. The resulting information from the DSS tool can help decision makers adjust crop management practices that may improve outcomes given the expected climatic condition of the growing season.

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* Correspondence to : kh.kim@apcc21.org