

**Parallel Session D: Domain/cross-domain meetings,  
Convection permitting models**  
**D5: Introduction and application of ESGF in CORDEX-EA domain**

**Current status of CORDEX-EA data center and its future role**

*Jin-Uk Kim, National Institute of Meteorological Sciences, South Korea*

*Young-Hwa Byun, Jin-Uk Kim, Tae-Jun Kim, Seok-Woo Shin, Tae-Young Goo,  
National Institute of Meteorological Sciences, South Korea*

CORDEX-EA Data Center has been managed and operated during several years by Korea Meteorological Administration (KMA) and National Institute of Meteorological Sciences (NIMS) since CORDEX Phase I data sets were released in 2013. CORDEX Phase I data sets consist of outputs of 5 Regional Climate Models (RCMs) which include evaluation runs with reanalysis data (ERA-Interim and/or NCEP DOE data) and GCM-driven forcing run using HadGEM2-AO model. CORDEX data is in demand steadily from 2013 when the first data was released to the present day. According to statistics, for 6 years from 2013 to 2018, about 4 hundred thousand files have been downloaded by researchers, scientists, and the others in universities, institutes and industrial sectors through data center web (ftp site).

Recently, CORDEX group has started Phase II activities, linked with IPCC AR6 schedule, and many research institutes and universities have begun to run regional climate model through CORDEX protocol for model run and data requests. Therefore, NIMS started to make a plan to improve functionalities of data center including renovation of web site (<http://cordex-ea.climate.go.kr>). Also, construction of ESGF data node connected with Data Center web page has started with APEC Climate Center (APCC) for release of new data sets published by CORDEX Phase II activities. In this session, future role of CORDEX-EA Data Center with its current status will be discussed in fostering regional activities such as regional climate studies, data sharing, and application of climate information.

**Keywords:** CORDEX-EA, Data Center, Regional Climate, Climate Information