



Global warming hiatus simulated in HadGEM2-AO

Jieun Wie (1), Byung-kwon Moon (1), and Ki-young Kim (2)

(1) Jeonbuk National University, Jeonju, S.Korea(jieunwie@gmail.com), (2) -D Solution Inc., Seoul, S.Korea

The increase rate of the observed global surface air temperature has reduced in recent decades, although the greenhouse gases concentrations continuously increased, which is called hiatus or warming pause. We investigated the characteristics of the warming pause in global warming scenarios by HadGEM2-AO. The model simulated several pauses during the next 95 years both in atmospheric and sea surface temperature. The empirical orthogonal functions(EOF) analysis of zonal averaged ocean temperature shows that cold anomalies appear in equatorial upper ocean during hiatus period, which indicates that a hiatus event is possibly linked to La Niña condition.