



Decadal changes in northward propagating ISO in the western Pacific area

MinHo Kwon (1), Tim Li (2), WonMoo Kim (1), Dongchull Jeon (1), and Jong-Ghap Jhun (3)

(1) Korea Ocean Research and Development Institute, Republic Of Korea (mhkwon@kordi.re.kr), (2) University of Hawaii, USA, (3) Seoul National University, Republic of Korea

Decadal changes around 1994 have been detected in terms of interannual variability and decadal mean itself for summertime. After 1994, amounts of precipitation in the Southeastern part of China were abruptly increased and correspondingly, mean circulation changes in the atmosphere were detected including significantly decreases of jet stream strength in East Asia. In this study, an abrupt changes ISO (Intra-Seasonal Oscillation) propagating northward in the western Pacific area are investigated before and after the mid-1990s. In association with these decadal changes, intraseasonal structure of summer precipitation in Korea was significantly changed after 1994. These changes can be caused by decadal shifts of summertime circulation in East Asia around 1993 and 1994. This study investigates the northward propagating ISO structure changes and possible causes after the mid-1990s.