In past years, we have made efforts to improve understanding of the major S2S predictability sources particularly in the tropics: such as ENSO, MJO, and BSISO and their global impacts. We also developed S2S forecast systems and carried out experimental S2S forecasting. In this talk, we will highlight our major findings: for example, what is the pathway for ENSO to impact Asian summer monsoon? How will MJO/BSISO impact North American snowstorm and Asian flooding? What are the roles of air-sea coupling and initial conditions on the forecasting of the MJO/BSISO? What are the major issues related to the extended-range forecasting of tropical cyclones?

End