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On the possibility of the practical use of APCC's BSISO information

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According to increasing hazard caused by high impact weather around the world, there is a growing need for reliable forecasts of high impact extreme event at subseasonal timescale. Boreal Summer intraseasonal Oscillation (BSISO) is well known as a potential source of S2S predictability as well as the main driver of subseasonal variability over the Asia-monsoon region. So BSISO impact on summer climate/weather over the region is also a budding research issue and it comes down to the needs of reliable BSISO forecast.
Since 2013, APEC Climate Center (APCC) has provided real-time BSISO information including forecast, monitoring and verification. Along with BSISO forecast, APCC has found the relationship between BSISO and high impact extreme events in order enhance the practical use of BSISO forecast by applying their relationship to the extreme event forecast. We developed heavy rainfall probability forecast using BSISO forecast indices and provided the new contents via APCC webpage. We also focused on the utilization and interpretation of BSISO forecast in the flood prone area by making a user guide for the heavy rainfall probability forecast over Mekong River and found that APCC's BSISO forecast indices are capable of predicting heavy rainfall probability forecast over Mekong river basin. In addition, BSISO's modulation to tropical cyclone genesis over the West North Pacific has been investigated based on the Intreaseasonal Genesis Potential Index (ISGPI). It suggests the possibility of good use in predicting TC genesis over the WNP region from the subseasonal forecast perspective.
APCC is striving to fill the gap between forecast information and its practical use by promoting the value of BSISO forecasts in Asia-Pacific region.