Weekly SAHF Forecasters' Forum (FF) #73

Date: 06 July 2023

Discussion Notes

Realized Weather (30 June-06 July 23)	▪ The southwest monsoon has been active in the region during the week. The east-west monsoon trough, extending from Rajasthan in the northwest to the west central Bay of Bengal is currently situated south of its usual position as of 04 July 2023. This deviation is accompanied by a substantial amount of precipitable moisture, resulting in favourable conditions for precipitation. Under this active monsoon features: - Much of Pakistan experienced moderate to heavy rain with station in Lahore recording a total accumulated rain of 354mm during the week. - Most parts of Bhutan and Nepal experienced isolated and scattered rain/thundershowers, while southern parts of the countries experienced moderate to heavy rain. Also, Bangladesh experienced a good amount of rain in most parts of the country. - Myanmar and Sri Lanka mainly experienced isolated and widespread rain/thundershowers with intermittent heavy rain/thundershowers over southern parts of the countries. - Maldives experienced isolated and scattered rain/thundershowers with northern and southern Atolls experiencing heavy rain between 03-06 July 2023.
Salient synoptic features in the coming week (07-13 July 23)	▪ Westerly waves and south easterlies from the Bay of Bengal are likely to affect Pakistan until the week of 09 July 2023. ▪ A westerly trough is likely to continue over Bhutan and Nepal regions. Also, monsoon easterlies are seen over northeast India and Bhutan regions at lower levels. ▪ A moderate monsoonal flow is likely to continue over Bangladesh. ▪ A shallow westerly trough is likely to continue over northern Myanmar with moderate to strong cross-equatorial flow likely over the country from 09 July 2023. ▪ Moderate to strong cross-equatorial flow is likely over the Maldives and Sri Lanka. **Monsoon Features:** ▪ A cyclonic circulation is likely to form at 3.1-5.8 km between 09-10 July 2023 over the central Bay of Bengal and adjoining areas. ▪ Monsoon trough likely to fluctuate from its normal position. ▪ An offshore trough is likely to continue from Gujarat and Maharashtra coasts to Kerala coasts. ▪ Strengthening of the cross-equatorial flow is likely over the Arabian Sea and the Bay of Bengal. ▪ The persistence of Somali jets is likely to continue.

Rainfall outlook (07-13 July 23)	Under the influence of the above synoptic situations, countries are likely to experience the following weather conditions: ▪ Isolated and scattered rain/thundershowers likely over Pakistan with intermittent heavy rain/thundershowers over central and northern regions until 09 July 2023. ▪ Isolated and scattered rain/thundershowers are likely over Bangladesh, Bhutan and Nepal with the possibility of moderate to heavy rain/thundershowers over some places. ▪ Isolated and scattered rain/thundershowers are likely over Myanmar with possibility of increase rain/thundershowers with intermittent heavy rain after 09 July 2023. ▪ Isolated and scattered rain/thundershowers are likely over the Maldives and Sri Lanka.	**Extended Range Outlook (until 19 July 2023)** ▪ Under the influence of active monsoon currents over the region, higher probability of rain (>25mm) is likely over Bhutan, Nepal, Bangladesh, Myanmar, northeast and western parts of India and isolated places over Sri Lanka, Pakistan and Maldives towards the week ending of 19 July 2023.
Temperature outlook (07-13 July 23)	▪ No significant anomalies.	