

SAHF Forecasters' Forum #14

Date: 19 May 2022

Discussion Notes

<p>Realized Weather (13-19 May 2022)</p>	<ul style="list-style-type: none"> • Three WDs passed over north of Afghanistan and Pakistan, and continental dry air prevailing over the rest of the regions of Afghanistan and Pakistan. • Isolated and scattered rain/thundershowers observed over northern parts of Afghanistan and Pakistan with rest of the areas experiencing dry weather conditions. • Heatwave conditions are observed over some regions of Afghanistan and Pakistan from 07 May 2022 with some places experiencing severe heat. In Pakistan record maximum temperatures of 51 °C were observed at Jacobabad in Sindh on 14 May 2022 with three more stations in the area recording above 50 C. • Light to moderate rain/thundershowers observed over Nepal and Bhutan. • Rainfall of 170mm in 24 hrs. was recorded in southern Bhutan. The southern parts of country also experienced strong windstorms causing damages to roofs of houses. • Westerly trough/east- west trough from east Uttar Pradesh to West Bengal and south-westerly wind flow from Bay of Bengal persisting over Bangladesh. • Persistence of feeble westerly trough over north Myanmar and moderate strong south-westerly winds over southern Myanmar. The country declared onset of southwest monsoon 2022 on 13 May 2022 in the southern region. • Persistence of north-south trough extending from Tamil Nadu to west of Sri Lanka. Moderate to at time strong south westerly winds (monsoon flow) observed. Sri Lanka declared monsoon onset (today) on 19 May 2022 and reported minor flooding in Ratnapura during 16-18 May 2022. • Isolated and scattered thundershowers observed over Sri Lanka with some areas experiencing fairly widespread rainfall. • Isolated and scattered rain/thundershowers observed over Maldives with strong wind with gusts ~ 50-60mph, mainly in south-westerly to north-westerly direction. Some stations recorded 100 mm rainfalls. Progression of south west monsoon from southern atolls to northern atolls observed.
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<p>Salient synoptic features in the coming week</p>	<ul style="list-style-type: none"> • WD expected over Afghanistan and adjoining areas of Pakistan on 20 May and 23 May 2022. • Persistence of strong south westerly winds from Bay of Bengal to north eastern regions at lower levels. • Persistence of south westerly wind flow over Myanmar with no significant synoptic situation. • Persistence of north-south trough to west of Sri Lanka at lower tropospheric levels. • Moderate to strong south westerly winds prevailing over Sri Lanka and Maldives. • Moderate to strong cross equatorial wind flow likely during this week. 	
<p>Rainfall outlook</p>	<ul style="list-style-type: none"> • Dry weather conditions over most parts of Afghanistan and Pakistan, while rest of the region likely to experience scattered to fairly widespread rains/thundershowers over the next week. • Bhutan and Nepal likely to experience scattered to fairly widespread rain/thundershowers over the next week. • Bangladesh, Maldives likely to experience increasing rainfall, while Myanmar and Sri Lanka may experience isolated heavy rainfall over the next week. 	<p>Extended Range Outlook (until 01 June 2022)</p> <ul style="list-style-type: none"> • Higher probability of rainfall (>25 mm) towards the week ending of 25 May 2022 over Nepal, Bhutan, Bangladesh, Myanmar, peninsular India and isolated places over Maldives and Sri Lanka. • Higher probability of rainfall (>25 mm) towards the week ending of 01 June 2022 over Bangladesh, Bhutan, Nepal, Myanmar and isolated places over Sri Lanka.
<p>Temperature outlook</p>	<ul style="list-style-type: none"> • Heatwave conditions with severe heat in few places are likely to prevail over Afghanistan and Pakistan until 22 May 2022. Temperatures likely to decrease thereafter. 	
<p>Extreme weather situations</p>	<ul style="list-style-type: none"> • Heatwave conditions to prevail over the north western areas of the region until 22 May 2022. 	
<p>New products introduced</p>	<ul style="list-style-type: none"> • NASA Landslide Nowcast product was discussed. Higher probability of landslides is expected over isolated places in the hill states like Bhutan, 	

	<p>Nepal, north east India and isolated places over Bangladesh and Myanmar.</p> <ul style="list-style-type: none">• Multi model ensemble product showing weighted correlation for precipitation forecast was discussed. The product provides forecast information for some parts of South Asia.	
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