

Weekly SAHF Forecasters' Forum #26

Date: 11 August 2022

Discussion Notes

<p>Realized Weather (04-10 August 22)</p>	<ul style="list-style-type: none"> • Shallow westerly wave passed over the northern parts of Afghanistan and Pakistan during the week. • Under the influence of moderate monsoon currents and a cyclonic circulation, much of Pakistan observed scattered to fairly widespread rain/thundershowers with isolated heavy rain/thundershowers over some places. Places like Lahore, Padidan, Tando Jam, Kotli and Karachi recorded more than 100 mm of rainfall. • Southeasterly and easterly wind prevailed over Bhutan and Nepal. Under this influence, the countries observed isolated and scattered rain/thundershowers with isolated places in these countries experiencing very heavy rainfall. • Due to persistence of moderate to strong south westerly and southerly wind flow from Bay of Bengal and adjoining areas, Bangladesh experienced scattered to fairly widespread rainfall over much of the country with isolated places experiencing heavy rainfall. • Under the influence of moderate to strong monsoonal flow over Myanmar, the country experienced fairly widespread to widespread rain/thundershowers over most of the places with some places observing isolated heavy rainfalls. • Under the influence of moderate monsoonal flow much of Sri Lanka and Maldives experienced scattered and isolated rain/thundershowers with some parts of Sri Lanka observing heavy rainfall till 06 August 2022. During the week, Maldives experienced strong wind gust of more than 20 miles/sec in most of the places. • Monsoon trough passed over Rajasthan and Gujarat and a low pressure system formed in the northern Bay of Bengal during the week.
<p>Salient synoptic features in the coming week (11-17 August 22)</p>	<ul style="list-style-type: none"> • A fresh westerly wave is expected over Afghanistan and Pakistan during the coming week. • Monsoon winds from Bay of Bengal and Arabian sea likely to reach south and central parts of Pakistan over the week. • Southeasterly to easterly wind flow likely to persist over Nepal and Bhutan regions up to 1.5km level. • Moderate to strong south westerly and southerly winds likely to occur from Bay of Bengal over Bangladesh and adjoining areas at lower levels. • Moderate to strong south westerly winds likely over Myanmar during the coming week. • Moderate south westerly to north westerly winds likely over Sri Lanka and Maldives region.

<p>Rainfall outlook (11-17 August 22)</p>	<ul style="list-style-type: none"> • Under the influence of monsoon currents, Pakistan is likely to experience scattered to fairly widespread rain/thundershowers with isolated places expected to receive heavy rainfalls. • Bhutan and Nepal likely to experience isolated and scattered rain/thundershowers with gradual increase in rainfall expected during the coming week. • Bangladesh and Myanmar likely to experience scattered and fairly widespread to widespread rain/thundershowers over the coming week with some places expected to receive isolated heavy rainfalls. • Maldives and Sri Lanka likely to experience isolated and scattered rain/thundershower during the coming week. 	<p>Extended Range Outlook (until 24 August 2022)</p> <ul style="list-style-type: none"> • Probability of rainfall (>25mm) likely over Nepal, Bangladesh, Myanmar, and most parts of central and western India, Bhutan and isolated pockets of Pakistan and Maldives towards the week ending of 17 August 2022. • Probability of rainfall (>25mm) likely over Bhutan, Nepal, Bangladesh, and Myanmar, northern, western, and central parts of India and pockets of Sri Lanka and Pakistan towards the week ending of 24 August 2022.
<p>Temperature outlook (11-17 August 22)</p>	<ul style="list-style-type: none"> • No significant anomalies. 	<p>Ocean Watch <i>Ocean Surface Forecast briefing during past week (04-10 August 2022)</i></p> <ul style="list-style-type: none"> • High wind warnings and alerts were issued for coastal states of India. • Higher wind speeds were observed in the Arabian sea as well as Bay of Bengal (> 15 m/s) than the southern tropical Indian ocean (14 m/s). • Higher wave heights were observed in the Arabian sea as well as Bay of Bengal (3.5- 4.5 m) compared to the southern tropical Indian ocean (2.5- 3.5m). • Normal swell wave periods were observed over the Arabian sea, Bay of Bengal and the southern Indian ocean. • Gyres and eddies observed in the southwest Arabian sea. Coastal currents were normal in the Bay of Bengal and southern Indian ocean. • Western Arabian Sea and southern tropical Indian ocean showed cooling in temperature by upwelling.

		<p>Forecast for coming week (11-17 August 2022)</p> <p>Wind Speed</p> <ul style="list-style-type: none"> • Wind speed in the Arabian sea likely to be around 15-16 m/s, and in central Indian ocean it is likely to be around 11-13m/s, in the Bay of Bengal it is likely be around 11 m/s. <p>Wave Heights</p> <p>Wave heights in southern Indian ocean likely to be more than 5.0 m, and in the Arabian sea likely it is to be around 5.0-5.5 m.</p> <p>Swell Waves</p> <ul style="list-style-type: none"> • Swell wave periods likely to be around 19 m/sec along the coasts of Maldives, Sri Lanka and eastern coast of India. • Swell wave heights likely to be around 4.0-4.5 m in the Arabian sea, and less than 1.0 m in the Bay of Bengal and in the southern Indian ocean. <p>Sea Surface Temperature</p> <ul style="list-style-type: none"> • Sea surface temperature in the Bay of Bengal is likely to be around 28- 30 °C and in the Arabian sea it is likely to be around 22-30°C.
<p>Monsoon watch</p>	<p>Past Week (04-10 August 2022)</p> <ul style="list-style-type: none"> • Monsoon is active over Myanmar, Bangladesh, and Pakistan, moderate over Nepal, Bhutan, Sri Lanka, and Maldives. • Persistence of moderate to strong cross equatorial flow over Arabian sea and Bay of Bengal. • A low pressure formed off Odisha and North Andhra coast on 06 August 2022, intensified to WML on 07 August 2022 and further developed into depression on 09 August 2022 that moved west and northwesterly direction and weakened to low pressure over Madhya Pradesh. • A fresh low-pressure area formed over Saurashtra and adjoining areas on 10 August 2022. 	

	<ul style="list-style-type: none">• Monsoon trough shifted to south from its normal position and offshore trough seen over west coast of India. <p><i>Coming week (11-17 August 2022)</i></p> <ul style="list-style-type: none">• Moderate to strong cross equatorial flow likely over the Arabian sea and Bay of Bengal.• A fresh low pressure area likely to form over north Bay of Bengal on 13 August 2022.• Monsoon trough is active and likely to remain south of its normal position for few more days.	
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