

Weekly SAHF Forecasters' Forum #22

Date: 14 July 2022

Discussion Notes

<p>Realized Weather (08-14 July 2022)</p>	<ul style="list-style-type: none"> • Under the influence of shallow westerly waves, the northern parts of Afghanistan experienced scattered to fairly widespread rain/thundershowers. • Under the influence of moderate to strong monsoon currents, much of Pakistan observed light to moderate rain/thundershowers with some places experiencing heavy rain/thundershowers. Places like Islamabad, Karachi and Takhtbai received more than 150 mm in 24 hours. • Under the influence of south easterly wind flow Bhutan and Nepal received scattered to fairly widespread rain/thundershowers with most of the places experiencing hot and dry weather. • Due to persistence of strong south westerly wind flow from Bay of Bengal, Bangladesh experienced scattered to fairly widespread rain/thundershowers over some areas. • Under the influence of moderate to strong south westerly winds over Myanmar, the country experienced scattered rain/thundershowers over most of the places with isolated heavy rainfalls in some places in the south and central regions. Places like Belin and Langlon received 7.08 inches and 7.64 inches of rainfall respectively in 24 hours. • Under the influence of moderate south westerly and north westerly winds much of Sri Lanka and Maldives experienced scattered to fairly widespread rain/thundershowers over much of the places.
<p>Salient synoptic features in the coming week</p>	<ul style="list-style-type: none"> • Westerly wave activity is expected over Afghanistan during the coming week. • Monsoon currents approaching to north and central parts of Pakistan. • Moderate south westerly winds likely to occur from Bay of Bengal to north-eastern region at lower levels. • Persistence of strong monsoonal wind flow over Myanmar and expected to continue during the coming week. • Moderate to strong monsoonal westerly winds likely to continue over Sri Lanka and Maldives. • Moderate to strong cross equatorial wind flow likely during the coming week. • Strong westerly winds (low level jet) likely over Arabian Sea. • The monsoon trough likely to shift gradually to normal position during coming week.

<p>Rainfall outlook</p>	<ul style="list-style-type: none"> • Isolated and scattered rain/thundershowers likely over northern parts of Afghanistan with much of the areas likely to experience hot and dry weather. • With the monsoon currents becoming active, Pakistan is likely to experience scattered to widespread rain/thundershowers with heavy rainfalls over some areas. However, rain/thundershowers activities likely to decrease after 19 July 2022. • Bhutan and Nepal likely to experience scattered rain/thundershowers with gradual increase in rain/thundershowers expected during the coming week. • Bangladesh and Myanmar likely to experience scattered and fairly widespread rain/thundershowers over the coming week with some places expected to receive isolated heavy rainfalls. • Maldives and Sri Lanka expected to experience gradual increase in rain/thundershowers over the coming week. 	<p>Extended Range Outlook (until 27 July 2022)</p> <ul style="list-style-type: none"> • Probability of rainfall (>25mm) likely over Myanmar, Maldives, Bhutan, Nepal, Bangladesh and most parts of central India and isolated pockets of Sri Lanka towards the week ending of 20 July 2022. • Probability of rainfall (>25mm) likely to continue over Bhutan, Bangladesh, Myanmar, Nepal and pockets of central India, Maldives, Pakistan and Sri Lanka towards the week ending of 27 July 2022.
<p>Temperature outlook</p>	<ul style="list-style-type: none"> • No significant anomalies 	<p>Ocean Watch</p> <ul style="list-style-type: none"> • <i>Waves (significant wave heights in metres)</i> The waves were high with height in the range of 4-6 m, north of 10° N in the Arabian Sea. In the Bay of Bengal, the waves were lesser with the height in range of 2-6 m. • <i>Waves (swell wave periods in seconds)</i> In the Arabian Sea the swell periods were high near Maldives and Sri Lanka only (around 18 s). In the Bay of Bengal, the periods were higher in the Southern Bay of Bengal (up to 17s). • <i>Surface currents(m/s)</i> Consistent clockwise eddy was seen in the western Arabian Sea having high currents of nearly 2.0-3.0 m/s. West

		<p>coast of India experienced high southeasterly currents of around 0.6-1.0 m/s. Over the Bay of Bengal consistent anticlockwise eddy is seen off Sri Lanka with high currents of 1.5-2.0 m/s. Currents along the east coast of India, northerly at 0.5-0.7 m/s.</p>
<p>Monsoon watch</p>	<ul style="list-style-type: none"> • Currently monsoon is active and vigorous over Myanmar, and active over Bangladesh, Bhutan, Nepa, Pakistan and is moderate over Maldives and Sri Lanka. • Persistence of moderate to strong cross equatorial flow over Arabian sea and moderate over Bay of Bengal with increase of wind speed over Arabian sea and offshore trough over west coast of India. Persistence of cyclonic circulation/low pressure system over the Bay of Bengal region. 	