

## Weekly SAHF Forecasters' Forum #27

Date: 18 August 2022

### Discussion Notes

<p><b>Realized Weather (11-17 August 22)</b></p>	<ul style="list-style-type: none"> <li>• Shallow westerly wave prevailed over the northern parts of Afghanistan and Pakistan during the week.</li> <li>• 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.</li> <li>• Southeasterly and easterly wind prevailed over Bhutan and Nepal. Under this influence, the countries observed isolated and scattered rain/thundershowers with most places in these countries experiencing hot and dry weather conditions.</li> <li>• 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.</li> <li>• 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. Places such as Kyaukpyu and Kyeilkmayaw 19.76 inches and 13.94 inches respectively.</li> <li>• Under the influence of moderate monsoonal flow much of Sri Lanka and Maldives experienced scattered and isolated rain/thundershowers.</li> <li>• Monsoon trough passed over Rajasthan and Gujarat and a depression formed in the northern Bay of Bengal during the week.</li> </ul>	
<p><b>Salient synoptic features in the coming week (18-24 August 22)</b></p>	<ul style="list-style-type: none"> <li>• A fresh westerly wave is expected over Afghanistan and Pakistan during the coming week.</li> <li>• Monsoon winds likely to reach south and central parts of Pakistan by 22 August 2022.</li> <li>• Southeasterly to easterly wind flow likely over Nepal and Bhutan regions up to 1.5km level after 20 August 2022.</li> <li>• Moderate to strong south westerly and southerly winds likely to occur from Bay of Bengal over Bangladesh and adjoining areas at lower levels.</li> <li>• Moderate to strong monsoonal flow likely over Myanmar during the coming week.</li> <li>• Moderate monsoonal winds likely over Sri Lanka and Maldives region during the coming week.</li> </ul>	
<p><b>Rainfall outlook (18-24 August 22)</b></p>	<ul style="list-style-type: none"> <li>• 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 until 21 August 2022. Rainfall activity expected to decrease starting 22 August 2022.</li> <li>• Bhutan and Nepal likely to experience isolated and scattered</li> </ul>	<p><b>Extended Range Outlook (until 01 September 2022)</b></p> <ul style="list-style-type: none"> <li>• Probability of rainfall (&gt;25mm) likely over Maldives, Bangladesh, Myanmar, and most parts of central and western India, parts of Bhutan, Pakistan and Nepal towards the week ending of 25 August 2022.</li> <li>• Probability of rainfall (&gt;25mm) likely over Bhutan, Nepal, Bangladesh, and Myanmar,</li> </ul>

	<p>rain/thundershowers with some places expected to experience hot and dry weather conditions.</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Maldives and Sri Lanka likely to experience isolated and scattered rain/thundershower during the coming week.</li> </ul>	<p>pockets of Sri Lanka and India towards the week ending of 01 September 2022.</p>
<p><b>Temperature outlook (18-24 August 22)</b></p>	<ul style="list-style-type: none"> <li>• No significant anomalies.</li> </ul>	<p><b>Ocean Watch</b>  <b><i>Ocean Surface Forecast briefing during past week (11-17 August 2022)</i></b></p> <ul style="list-style-type: none"> <li>• High wind warnings and alerts were issued for coastal states of India.</li> <li>• Higher wind speeds were observed in the Arabian (12-18 m/s) compared to Bay of Bengal and the southern tropical Indian ocean (10-14 m/s).</li> <li>• Higher wave heights were observed in the Arabian sea (4.0-5.0m) and normal wave heights in the Bay of Bengal (2.5-3.5 m).</li> <li>• Western Arabian Sea and southern tropical Indian ocean showed cooling in temperature by upwelling. SST ranges from 24°C-32°C in the Arabian sea, 28°C-30°C in the Bay of Bengal, and 18°C-27°C in the Indian ocean.</li> </ul> <p><b>Forecast for coming week (18-24 August 2022)</b></p> <p><b><i>Wind Speed</i></b></p> <ul style="list-style-type: none"> <li>• Wind speed likely to be normal in the Arabian sea, Bay of Bengal and Southern Indian Ocean (maximum around 14 m/s) during the coming week.</li> </ul> <p><b><i>Wave Heights</i></b></p> <p>Wave heights likely to be normal in the Arabian sea and the Bay of Bengal (&lt;4.0m) during the coming week. m.</p> <p><b><i>Swell Waves</i></b></p> <ul style="list-style-type: none"> <li>• Calm waters are expected during the</li> </ul>

		<p>coming week in the Arabian Sea, Bay of Bengal and Southern Indian Ocean.</p> <ul style="list-style-type: none"> <li>• Swell wave heights likely to be normal(&lt;3m) in the Arabian sea, Bay of Bengal and in the Indian ocean during the coming week.</li> </ul> <p><b>Sea Surface Temperature</b></p> <ul style="list-style-type: none"> <li>• Sea surface temperature in the Bay of Bengal is likely to be around 31°C and in the Arabian sea it is likely to be around 30°C.</li> </ul>
<p><b>Monsoon watch</b></p>	<p><b>Past Week (11-17 August 2022)</b></p> <ul style="list-style-type: none"> <li>• Moderate to strong cross equatorial flow prevailed over Arabian sea and Bay of Bengal.</li> <li>• Weak monsoon flow prevailed over Nepal and Bhutan region due to fluctuation of monsoon trough position.</li> <li>• A low pressure formed over northwest Bay of Bengal and adjoining off Odisha coast on 11 August 2022 and intensified to WML/depression on 12 August 2022 and moved to west north westerly direction and weakened to WML over east Rajasthan.</li> <li>• Monsoon trough shifted to south from its normal position.</li> <li>• Monsoon was vigorous and active over Pakistan and Myanmar, active over Bangladesh, and moderate over Nepal, Bhutan, Sri Lanka and Maldives.</li> </ul> <p><b>Coming week (18-24 August 2022)</b></p> <ul style="list-style-type: none"> <li>• Moderate to strong cross equatorial flow over Arabian sea and Bay of Bengal likely during the week.</li> <li>• A fresh low-pressure area likely to form north Bay of Bengal on 19 August 2022 and likely to intensify.</li> <li>• Monsoon trough active and likely to remain south from its normal position.</li> </ul>	