

Seasonal Model Prediction by ECMWF for the period March to July 2007

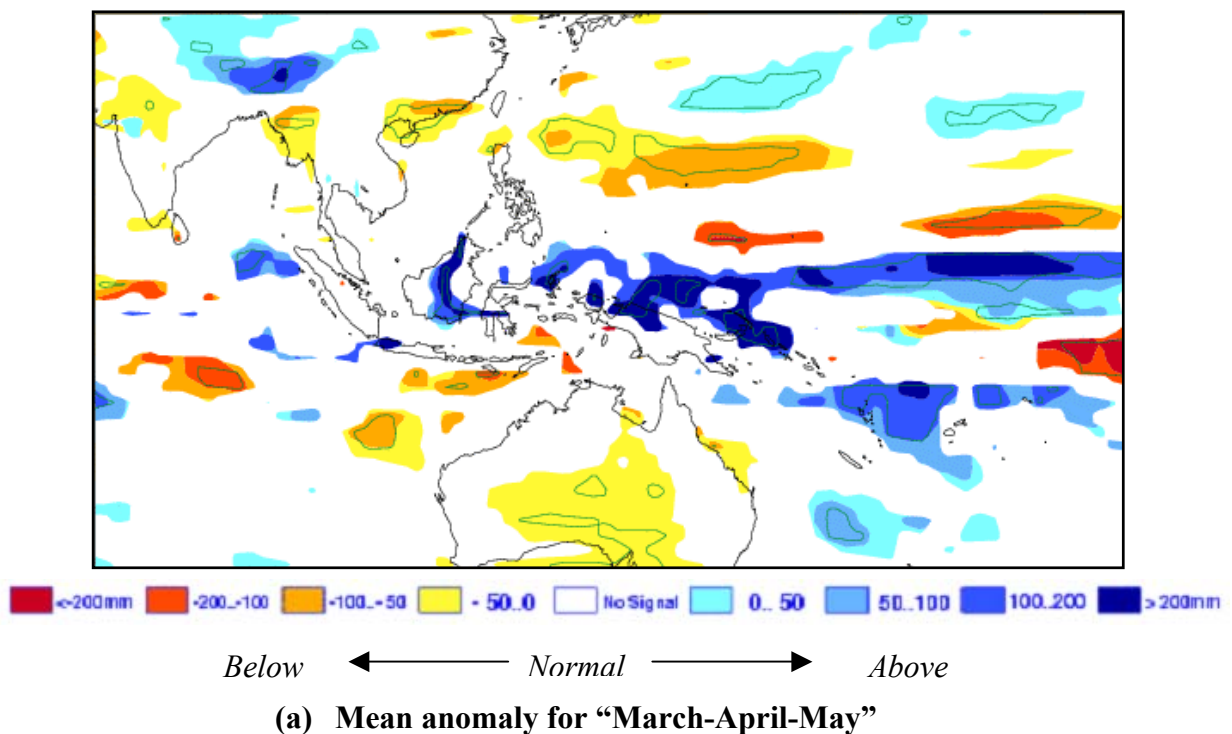
Figure 1(a), (b) and (c) depict the mean precipitation anomalies, that is, the differences between predicted precipitation and the long-term mean precipitation, for a period of 3 months respectively for “March-April-May”, “April-May-June” and “May-June-July” from the *European Centre for Medium-Range Weather Forecast (ECMWF)* seasonal forecast model.

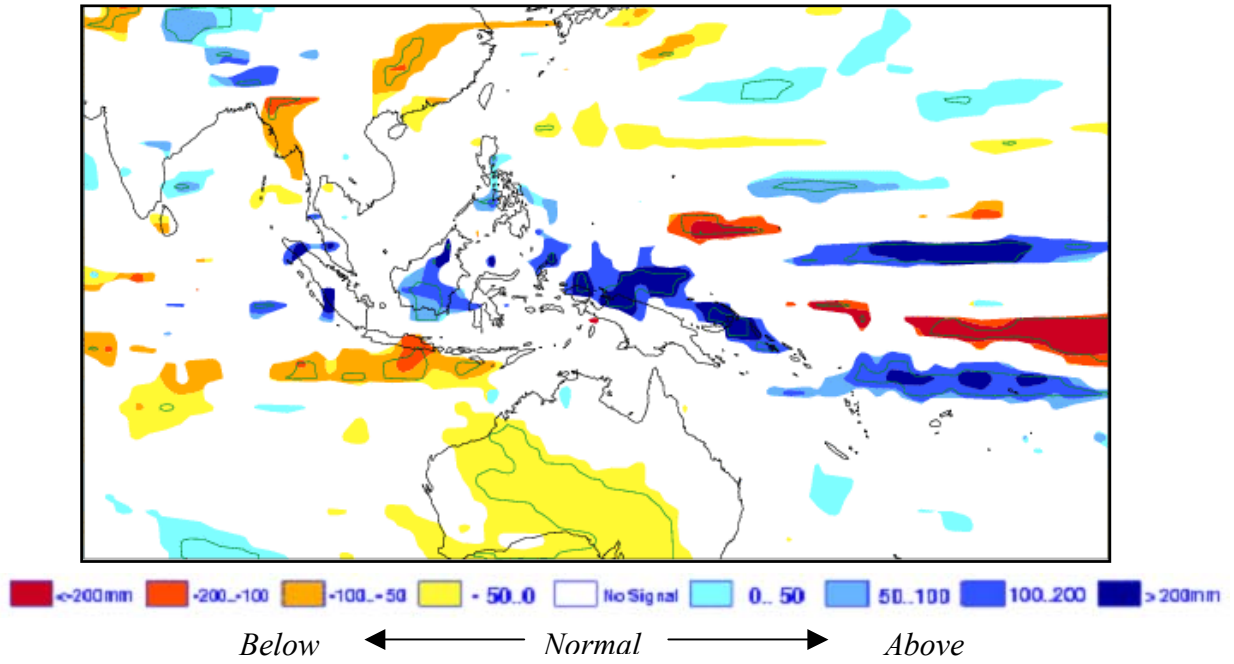
Based on the precipitation prediction for the coming March-April-May period, Peninsular Malaysia would receive normal rainfall. Eastern Sarawak and west coast of Sabah would receive above normal rainfall. Elsewhere in Sarawak and Sabah are expected to receive normal rainfall.

The April-May-June period indicates some small changes in the rainfall patterns for Peninsular Malaysia as well as Sabah and Sarawak. Central region of West Coast Peninsular Malaysia would receive above normal rainfall. Elsewhere in Peninsular Malaysia are expected to receive normal rainfall. Interior areas of Sarawak and western Sabah would receive above normal rainfall. Elsewhere in Sabah and Sarawak are expected to receive normal rainfall.

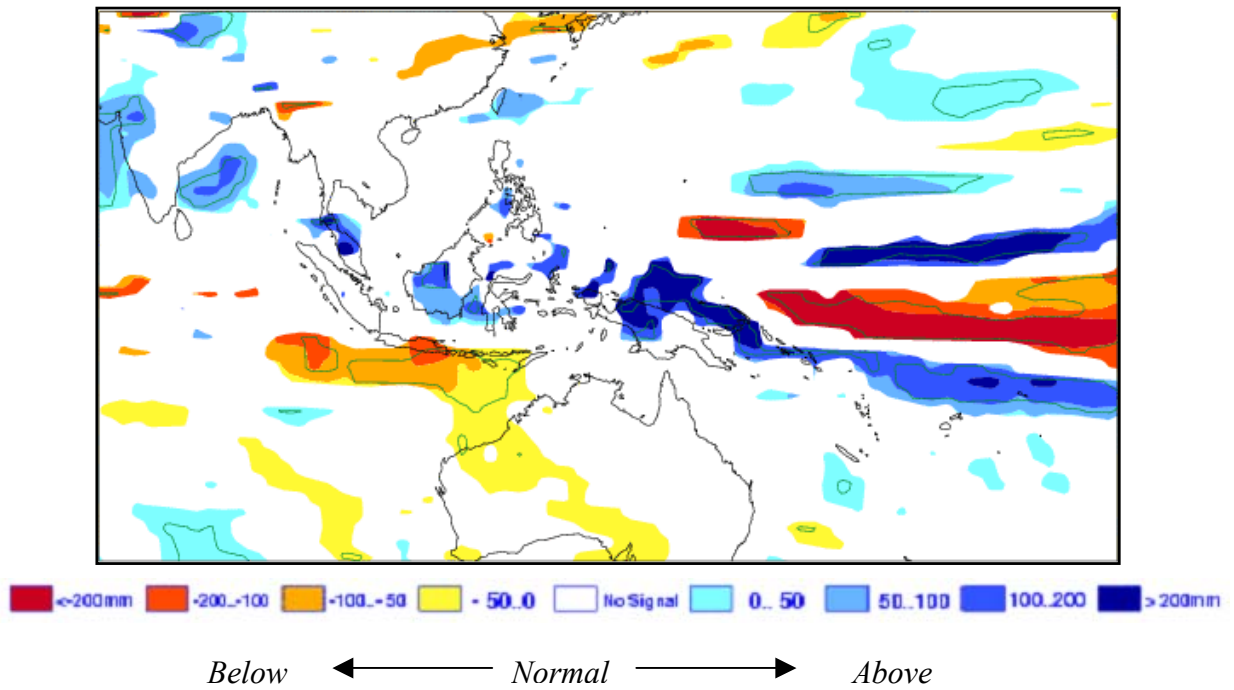
The ECMWF model for the May-June-July period shows that northern Peninsular Malaysia would receive above normal rainfall. Elsewhere in Peninsular Malaysia are expected to receive normal rainfall. Central Sarawak would receive above normal rainfall. Elsewhere in Sarawak and the entire Sabah are expected to receive normal rainfall.

Figure 1: Predicted Seasonal Precipitation Anomalies (mm) by ECMWF Model





(b) Mean anomaly for “April-May-June”



(c) Mean anomaly for “May-June-July”

Weather outlook from March until July 2007

From March until early May, Peninsular Malaysia would receive normal rainfall. From mid May until early June, central region of West Coast Peninsular Malaysia would receive above normal rainfall. Elsewhere are expected to receive normal rainfall. From mid June until July, northern Peninsular Malaysia would receive above normal rainfall whereas central and southern Peninsular Malaysia would receive normal rainfall.

From March until early May, eastern region of Sarawak would receive above normal rainfall. From mid May until early June, interior areas of Sarawak would receive above normal rainfall. From mid June until July, central Sarawak would receive above normal rainfall.

West Coast Sabah would receive above normal rainfall from March until early May. Elsewhere in Sabah are expected to receive normal rainfall. Starting from mid May until early June, western Sabah would receive above normal rainfall. From mid June until July, entire Sabah would receive normal rainfall.

The Malaysian Meteorological Department will continue to analyse and issue update of weather outlook if there are any further developments. Further information could also be obtained through the website www.kjc.gov.my.

Table below shows the summary on weather outlook from March until July 2007 according to states in Malaysia:

States	Forecast Rainfall Amount per Month (mm)	Weather Outlook
Perlis	130 – 180 150 – 230	<i>March – May:</i> Normal rainfall. <i>June – July:</i> Above normal rainfall.
Kedah	160 – 190 240 – 290	<i>March – May:</i> Normal rainfall. <i>June – July:</i> Above normal rainfall.
Penang	180 – 200 230 – 280	<i>March – May:</i> Normal rainfall. <i>June – July:</i> Above normal rainfall.
Perak	190 – 230 140 – 200	<i>March – May:</i> Normal rainfall. <i>June – July:</i> Above normal rainfall.
Selangor, Kuala Lumpur and Negeri Sembilan	150 – 240 130 – 190	<i>March – May:</i> Normal rainfall. <i>June – July:</i> Normal rainfall.
Malacca	130 – 200 150 – 220	<i>March – May:</i> Normal rainfall. <i>June – July:</i> Normal rainfall.
Kelantan and Terengganu	100 – 120 130 – 170	<i>March – May:</i> Normal rainfall. <i>June – July:</i> Above normal rainfall.
Pahang	150 – 190 140 – 200	<i>March – May:</i> Normal rainfall. <i>June – July:</i> Above normal rainfall.

Johor	170 – 210	<i>March – May:</i> Normal rainfall.
	140 – 180	<i>June – July:</i> Normal rainfall.
Sarawak	200 – 260	<i>March – April:</i> Above normal rainfall over eastern Sarawak.
	210 – 240	<i>May – June:</i> Above normal rainfall over interiors of Sarawak.
	230 – 280	<i>July:</i> Above normal rainfall over central Sarawak.
Sabah	100 – 160	<i>March – April:</i> Above normal rainfall over West Coast Sabah.
	250 – 300	<i>May – June:</i> Above normal rainfall over western Sabah.
	180 – 220	<i>July:</i> Normal rainfall for entire Sabah.

Below are detail explanations of weather outlook from March until July 2007 according to states in Malaysia:

<i>States</i>	<i>Weather Outlook</i>
Perlis	Normal rainfall is expected from March until May whereby the total amount would be within 130 – 180 mm per month. Inter-monsoon would show an increase in rainfall compared with January and February. This is caused by convective rain occurring in the early afternoon. For June and July, rainfall would be above normal at 150 – 230 mm per month.
Kedah	Normal rainfall is expected from March until May with total amount as much as 160 – 190 mm per month. From June until July, total rainfall would be estimated between 240–290 mm per month, that is, above normal rainfall for Kedah.
Penang	Penang is expected to receive normal rainfall from mid March until early May with estimated total monthly rainfall to be as much as 180 – 200 mm. For June and July, rainfall would be above normal at 230 – 280 mm per month.
Perak	Total rainfall in Perak would be normal from March until May. But in June and July, most areas in Perak, especially coastal areas, would experience above normal rainfall at 140 – 200 mm per month. Coastal areas would experience rains in the late night and early morning.
Selangor, Kuala Lumpur and Negeri Sembilan	March until May resemble the inter-monsoon season with convective rains occurring over most areas in the afternoon. Rainfall is expected to be normal at 150 – 240 mm per month. June and July resemble the southwest monsoon season. Relatively, total rainfall would become less compared with the inter-monsoon as there would be less convective cloud formation. However, Sumatras would bring rains to the coastal areas in the early morning. Total monthly rainfall for June and July would be normal at 130 – 190 mm.
Malacca	Total monthly rainfall for March until May would be between 130 and 200 mm. For June and July, rainfall would be normal and total monthly amount is estimated to be 150 – 220 mm.
Kelantan and Terengganu	Normal rainfall is expected to be normal from March until May with total amount to be 100 – 120 mm per month. This shows an increase in rainfall compared with January and February. Total monthly rainfall for June and July would be above normal at 130 – 170 mm.

Pahang	Total monthly rainfall from March until May would be normal roughly at 150 – 190 mm. Total monthly rainfall from June until July are estimated to be 140 – 200 mm, that is, above normal rainfall for Pahang.
Johor	Total monthly rainfall from March until May would be normal roughly at 170 – 210 mm. Total monthly rainfall from June until July would be normal at 140 – 180 mm.
Sarawak	Generally, eastern Sarawak would receive above normal rainfall from March until April as much as 200 – 260 mm per month. From May until June, interiors of Sarawak would receive above normal rainfall as much as 210 – 240 mm per month due to convective cloud formation that would bring heavy rains to these areas. Central Sarawak would experience above normal rainfall in July as much as 230 – 280 mm.
Sabah	West Coast Sabah would experience above normal rainfall from March until April that is roughly 100 – 160 mm per month. Western Sabah would receive above normal rainfall from May until June that is as much as 250 – 300 mm per month. Total rainfall in Sabah for July would be normal at 180 – 220 mm.

Prepared by:

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