



No SF-2021-04-ENSO-IOD

## Current condition and forecasts of ENSO and IOD for AMJ 2021

Issued on 3<sup>rd</sup> April 2021 by Seasonal forecasting Division of the Department of Meteorology, Sri Lanka.

### 1. El Niño and La Niña update

The 2020–21 La Niña is nearing its end, with most oceanic indicators of the El Niño-Southern Oscillation (ENSO) now at neutral levels. However, a number of atmospheric indicators remain at La Niña levels, meaning La Niña's influence is likely to persist into April. Further, there is a ~60% chance of a transition from La Niña to ENSO-Neutral during the Northern Hemisphere spring 2021 (April-June). (source-CPC-USA/BoM) (Fig.3).

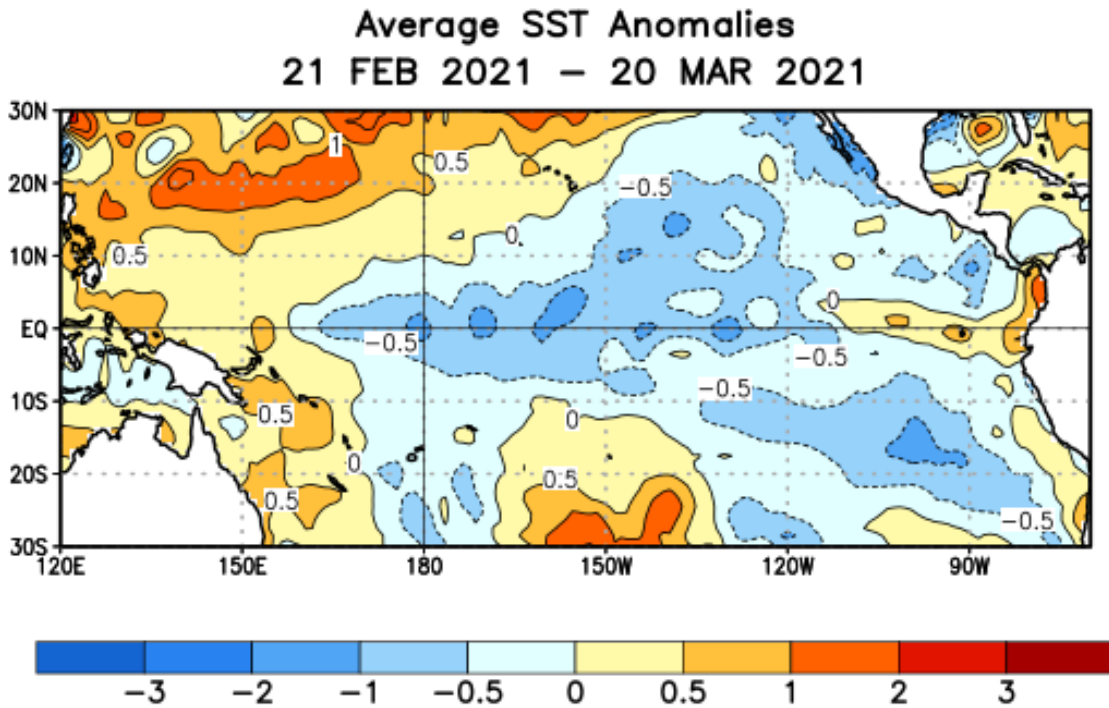


Fig 1: Observed Average sea surface temperature (SST) anomalies (°C)

## Weekly SST Anomalies (DEG C)

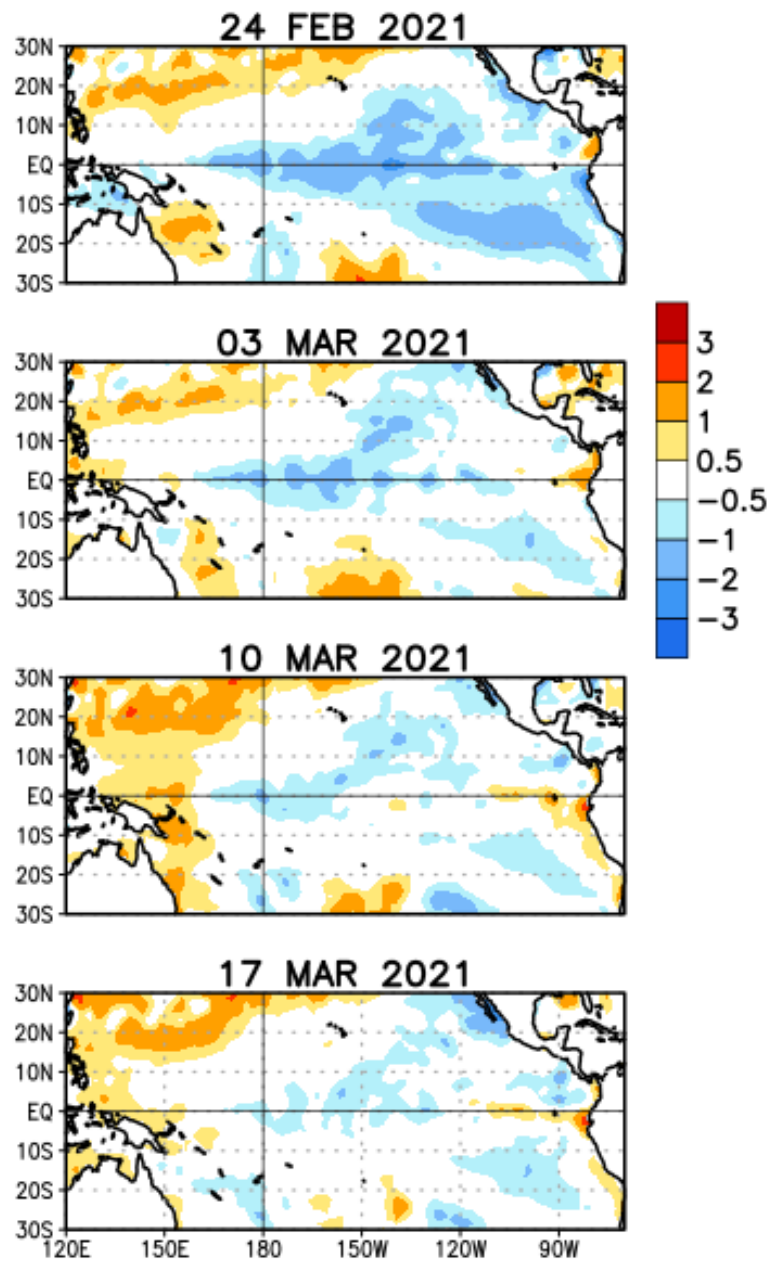


Fig 2: Weekly Observed Average sea surface temperature (SST) anomalies (°C)

### Early-March 2021 CPC/IRI Official Probabilistic ENSO Forecasts

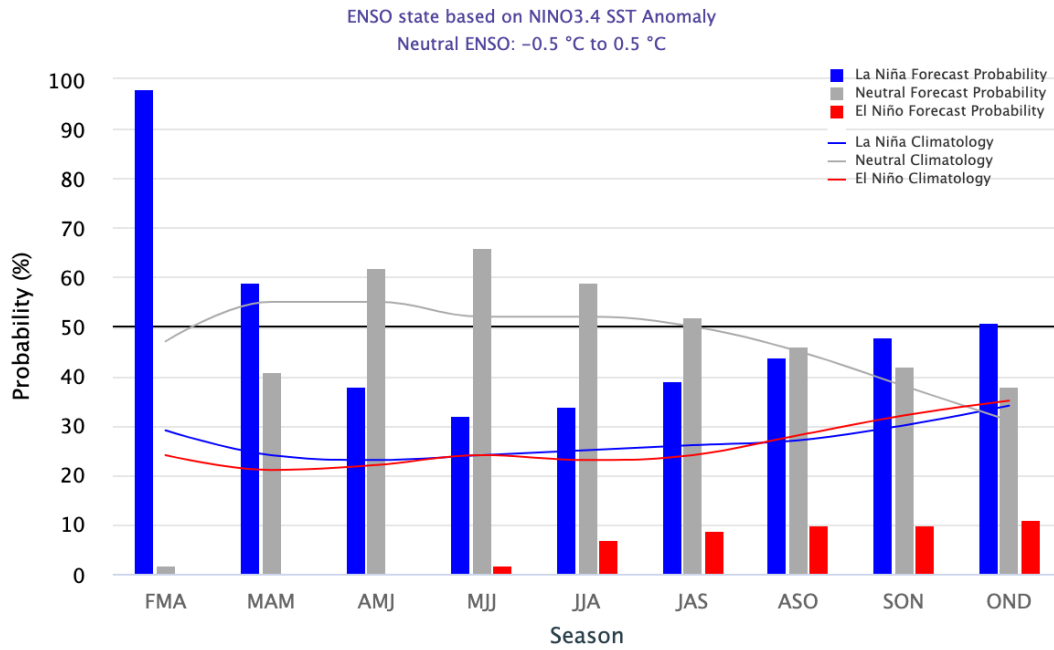


Fig 3: ENSO forecast from Climate Prediction Center (CPC)/ IRI Forecast

### 1.2 The Indian Ocean Dipole (IOD) update

In the Indian Ocean, remarkably positive SST anomalies were observed from the central to eastern parts of the northern tropical Indian Ocean, around Madagascar and northwest of Australia. The Indian Ocean Dipole (IOD) is currently in neutral phase and likely to continue during next four months. (Figure 4). (Source-Bureau of Meteorology, Australia/TCC).

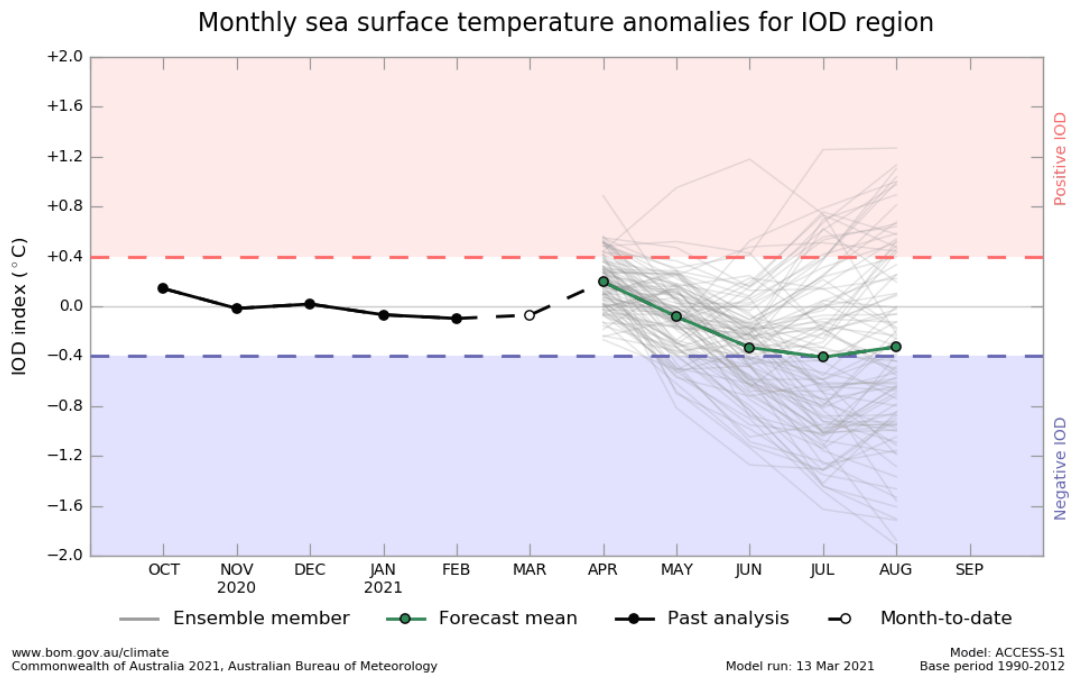


Figure 4: IOD forecast from Australian Bureau of Meteorology