APCC
APEC CLIMATE CENTER

Climate Outlook

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APEC Climate Center

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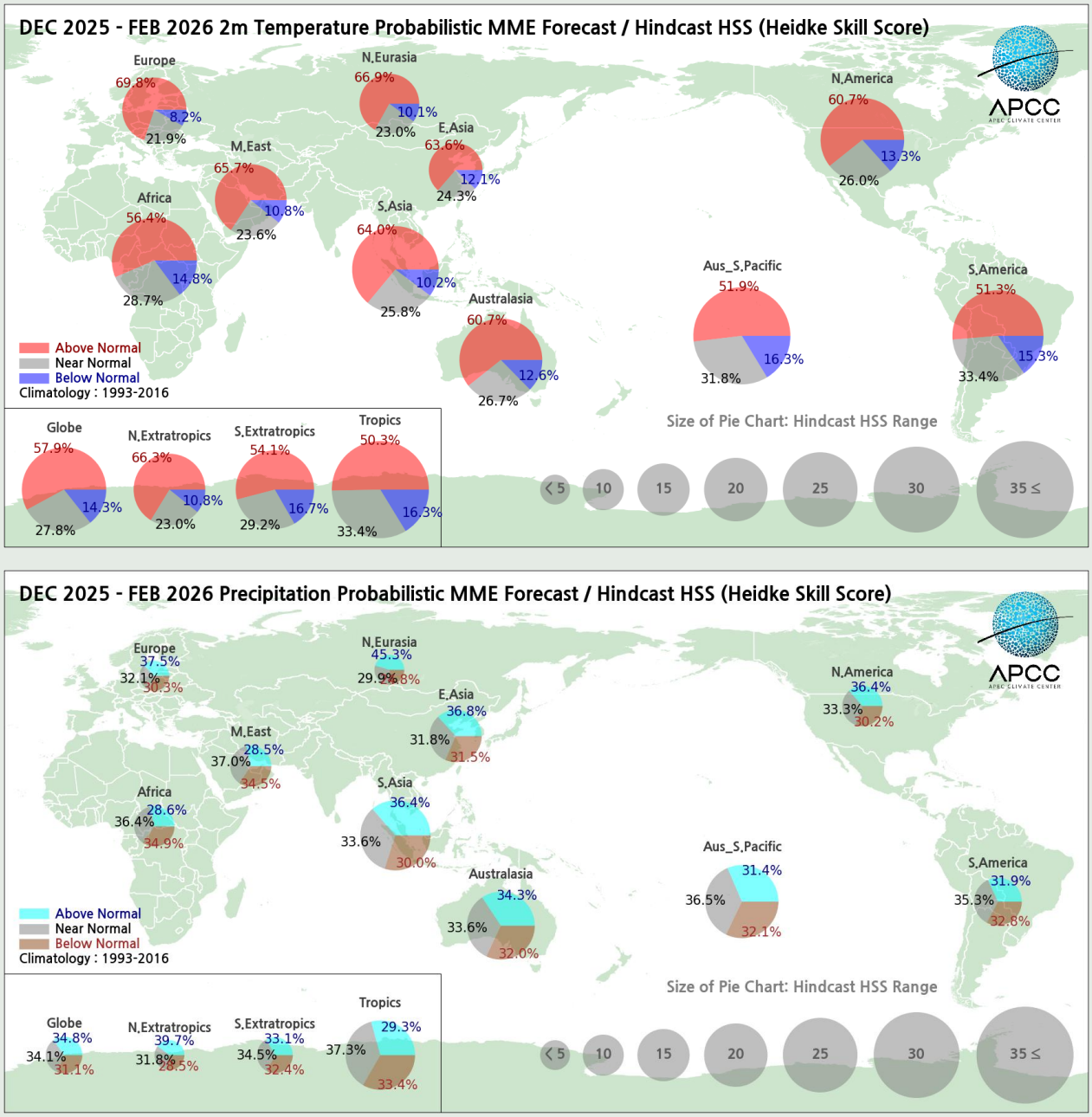
December 2025 - February 2026

- ***The APCC ENSO Alert suggests "Inactive". La Nina is expected to be end in coming months.***
- ***Above normal temperatures is mostly probable for the globe except for the central and eastern tropical Pacific, and some region in the other tropical oceans for December 2025 — May 2026.***
- ***Above normal precipitation is predicted for the Arctic and adjacent region of northern continents, Western equatorial Pacific and subtropical north and south Pacific and central America. Below normal precipitation is predicted for the tropical Atlantic and western Indian Ocean, East Asia, equatorial central Pacific and off-equatorial eastern Pacific for December 2025 – February 2026. Similar pattern of precipitation with lower probability is expected during March – May 2026 except for central equatorial Pacific.***

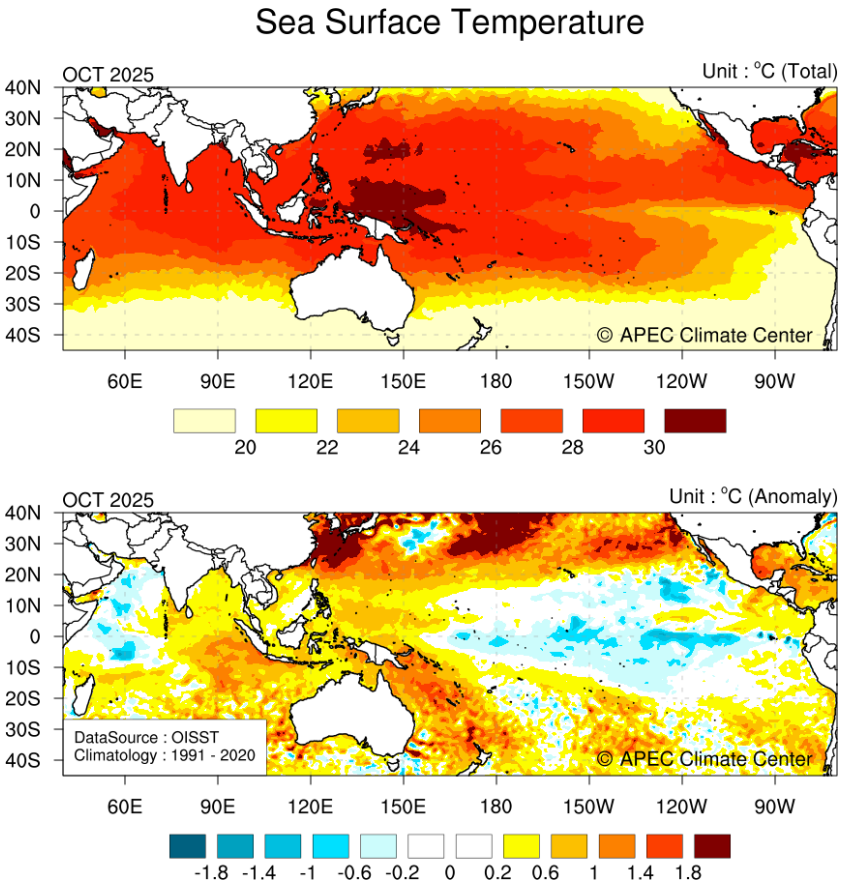


Summary of probabilistic MME forecasts of 2m temperature (top) and precipitation (bottom) and hindcast skill scores for December 2025 - February 2026.

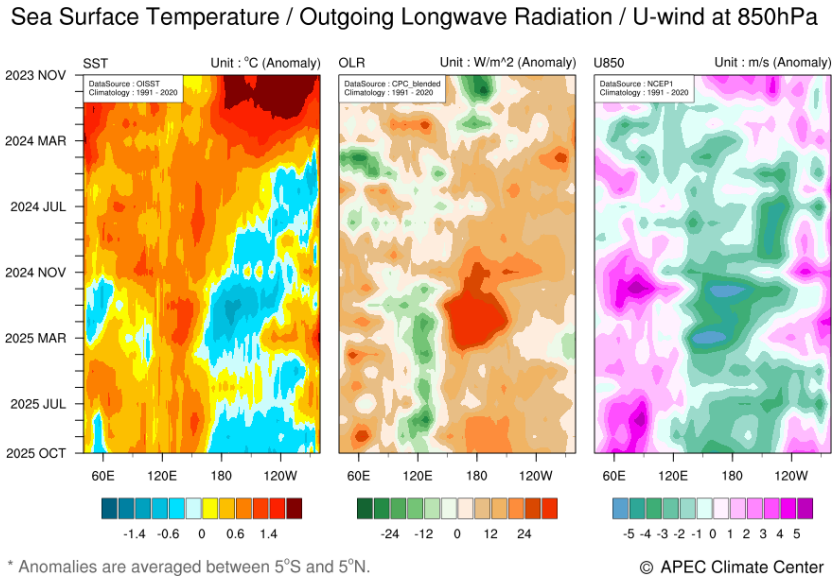
The information for March - May 2026 is available at http://www.apcc21.org/prediction/global/outlook?lang=en.

Current Climate Conditions

- In October 2025, negative sea surface temperature (SST) anomalies developed at the central to eastern equatorial Pacific, whereas positive SST anomalies at the southwestern Pacific is still remained. Warm SST at the eastern Indian Ocean and cold SST at the western Indian Ocean is signifying the negative phase of Indian Ocean Dipole mode.
- At the equator, associated with cold SST anomalies at the eastern Pacific, 850hPa easterly wind, positive OLR anomalies are remained in the central Pacific.
- Positive monthly mean temperature anomalies were observed over the Arctic sea, southwestern Europe and northwest Africa, Central Asia, East Asia, Canada, central USA, Australia, northeastern Brazil, and Antarctica. Below normal temperature anomalies were observed at central Europe, Tibet, Siberia, northeastern Russia, western coast of Canada and USA, southern part of South America.
- Above normal precipitation was observed over eastern Europe, some part of eastern Africa, India, East Asia, southern part of Maritime continent, and Alaska. Below normal precipitation was over the central Africa, some parts of Southeast Asia, eastern part of North America, and most of South America.

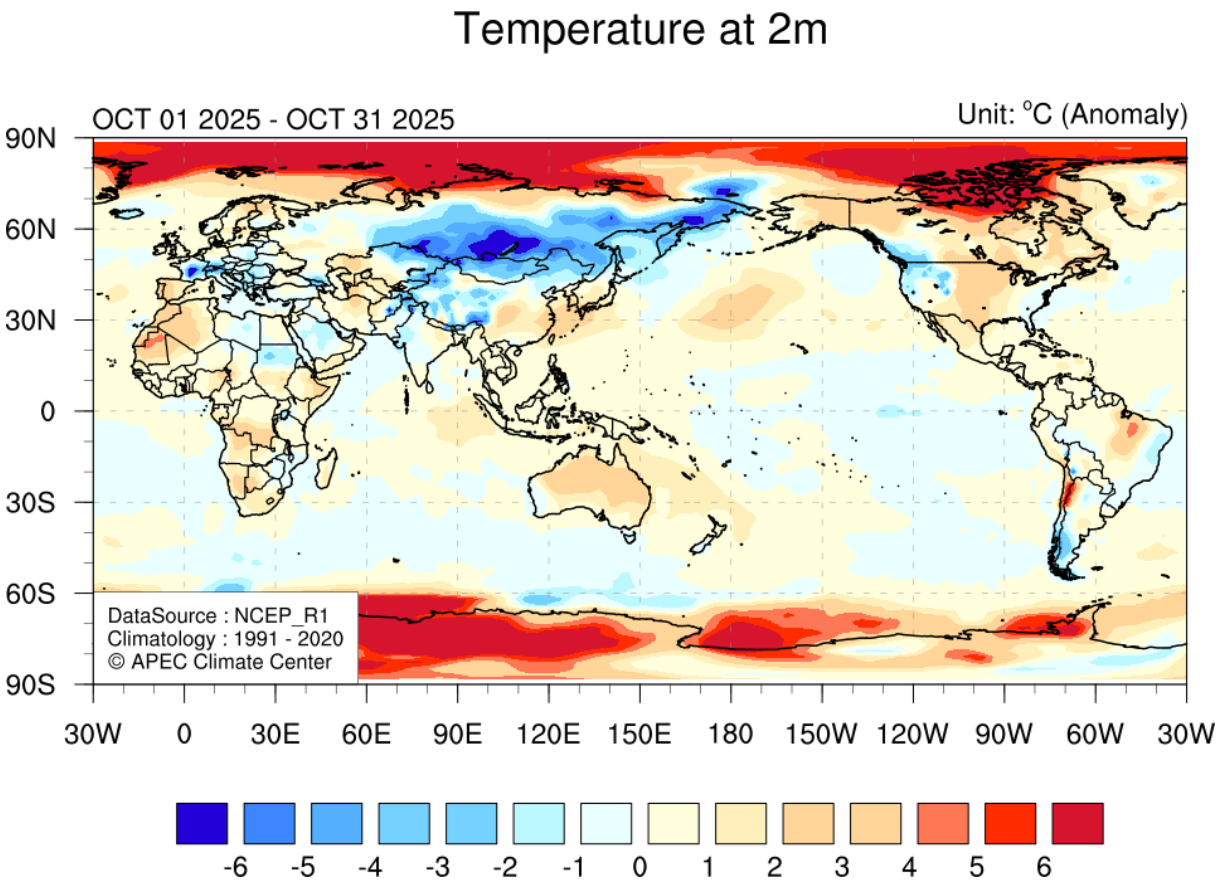


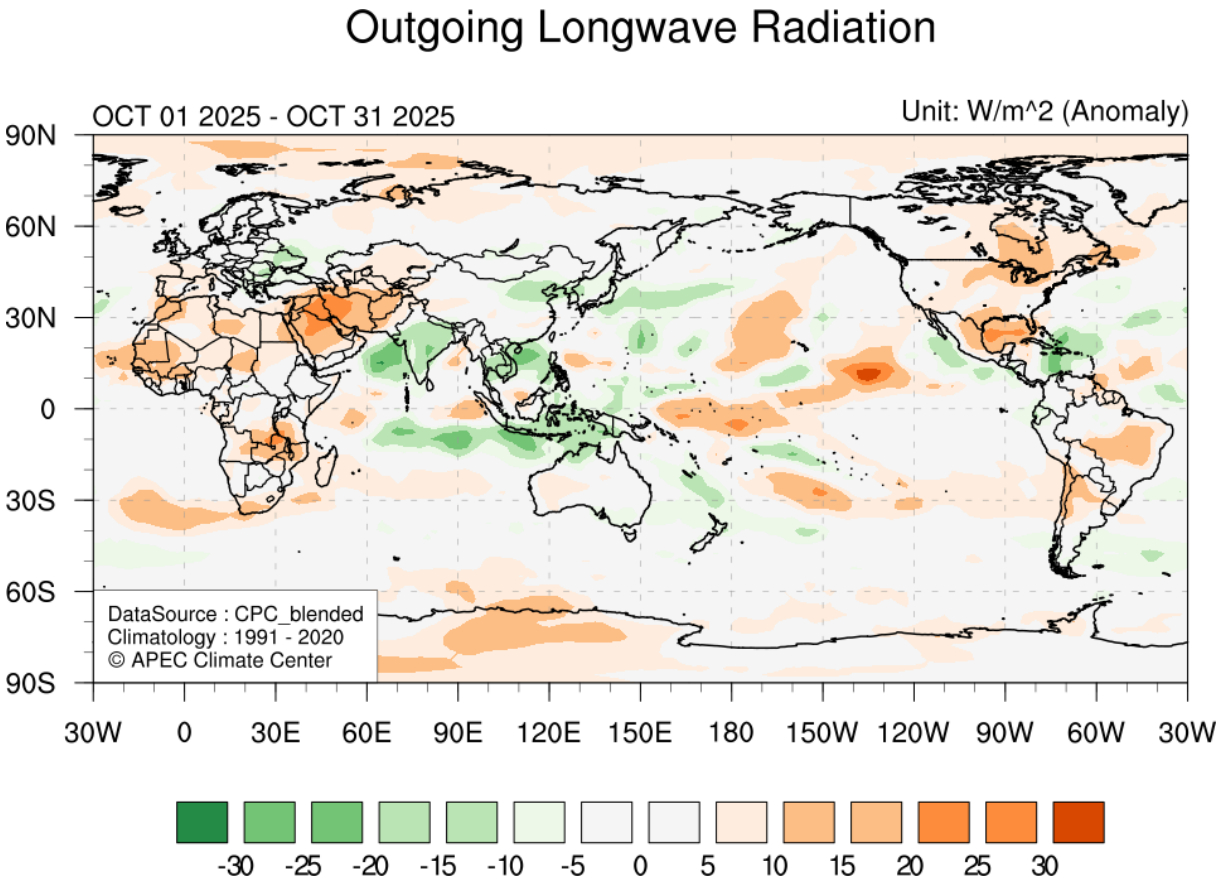
The observed sea surface temperatures (SSTs; top) and anomalies (bottom) for October 2025



Time-longitude cross section of the observed sea surface temperature (SST), outgoing longwave radiation (OLR), and zonal wind at 850hPa (U850) anomalies along the equator (5°S-5°N) in the Indian and Pacific Oceans (40°E-80°W) for November 2023 – October 2025.

Current Climate Conditions

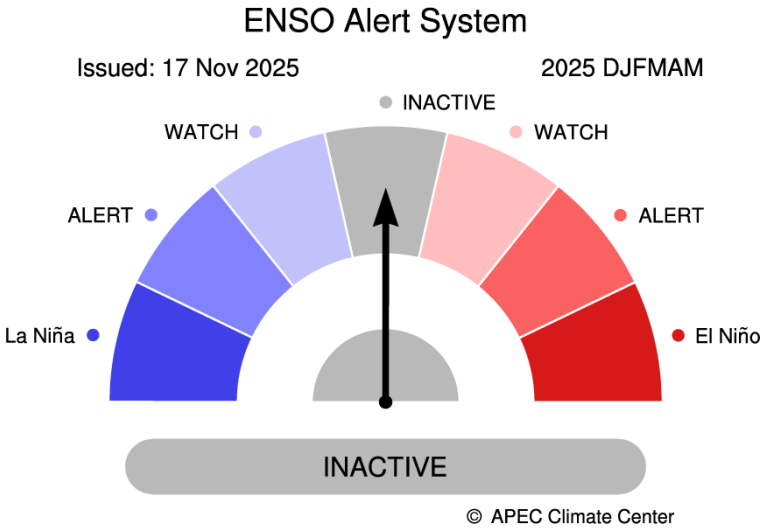




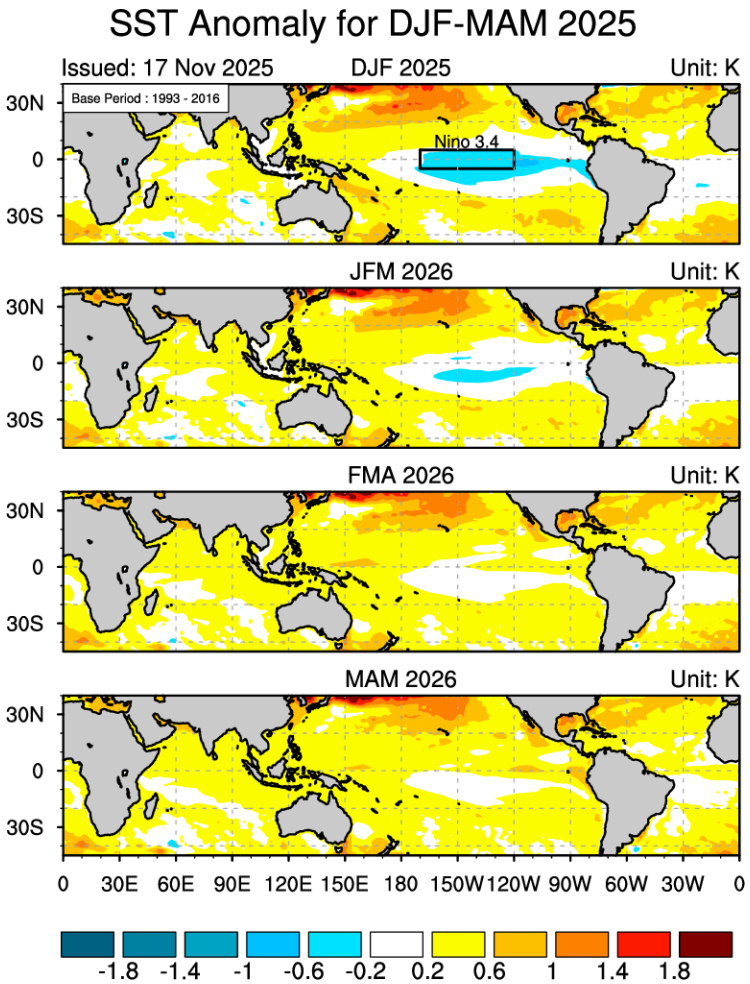
The observed 2m temperatures (top) and OLR anomalies (bottom) for October 2025.

December 2025 - May 2026

- The APCC ENSO outlook suggests “Inactive”.
- Negative SST anomalies along the equator appeared in December 2025 – February 2026 diminished rapidly.
- Niño3.4 index is expected to be -0.76℃ for December 2025 and then increase up to 0.47℃ in May 2026.
- Neutral conditions are more probable with 53.5% of chance in the early forecast period and increased to more than 60% in the later part of forecast period.

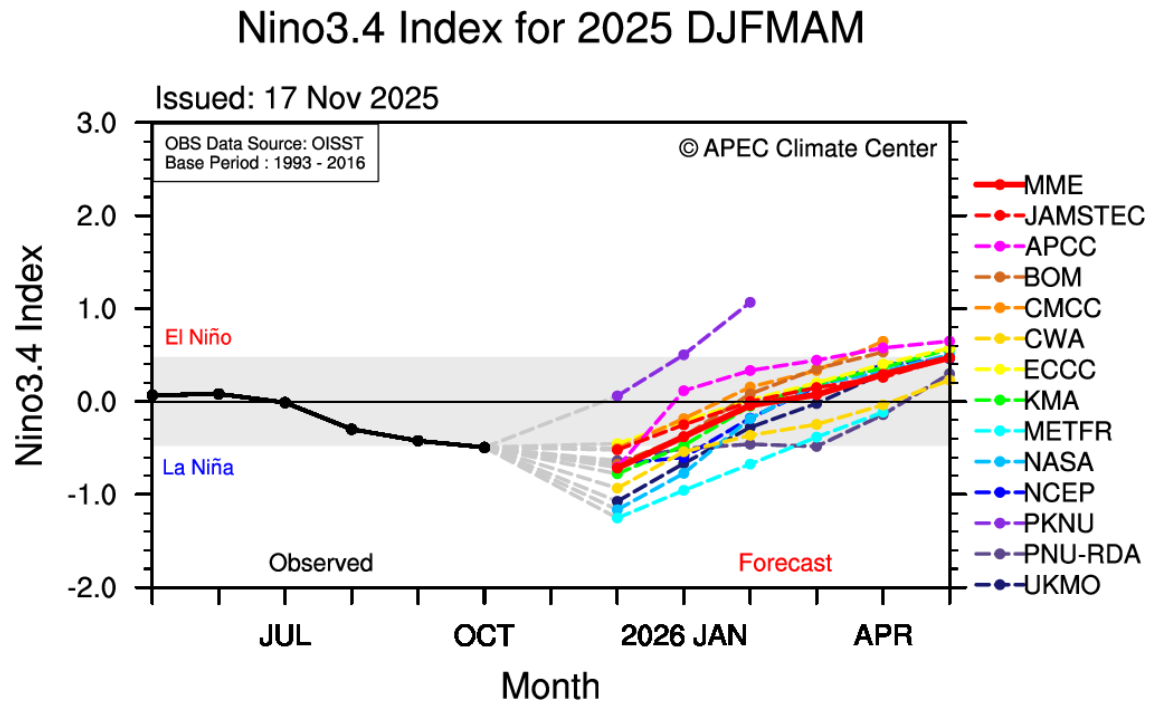


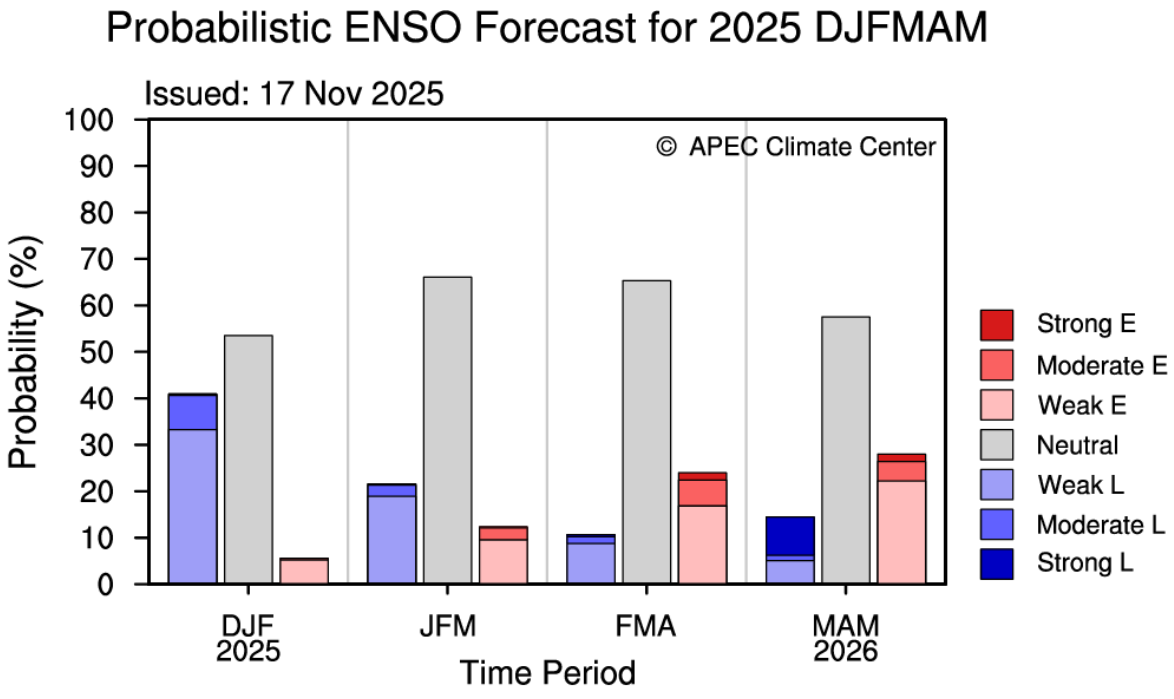
The APCC ENSO Alert status for December 2025 - May 2026. Anomalies are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction. Observed data used for the recent three months is the Optimum Interpolation Sea Surface Temperature (OISST).
Effective from April 2022, ENSO alert information will be updated twice (around the 15th and 30th) each month to reflect the latest observation.



Multi-model ensemble (MME) forecasts of SST anomalies for December 2025 - May 2026. Anomalies are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

December 2025 - May 2026





* ENSO Intensity based on 3M Mean Nino3.4 SST Anomaly (Category Boundaries: +/-1.5, 1.0, 0.5°C)

Predicted Niño3.4 index from individual models and the MME for December 2025 - May 2026 (top). Probabilistic MME forecasts of the status and intensity based on Niño3.4 index for four overlapping 3-month mean periods (bottom). Anomalies are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

December 2025 - February 2026

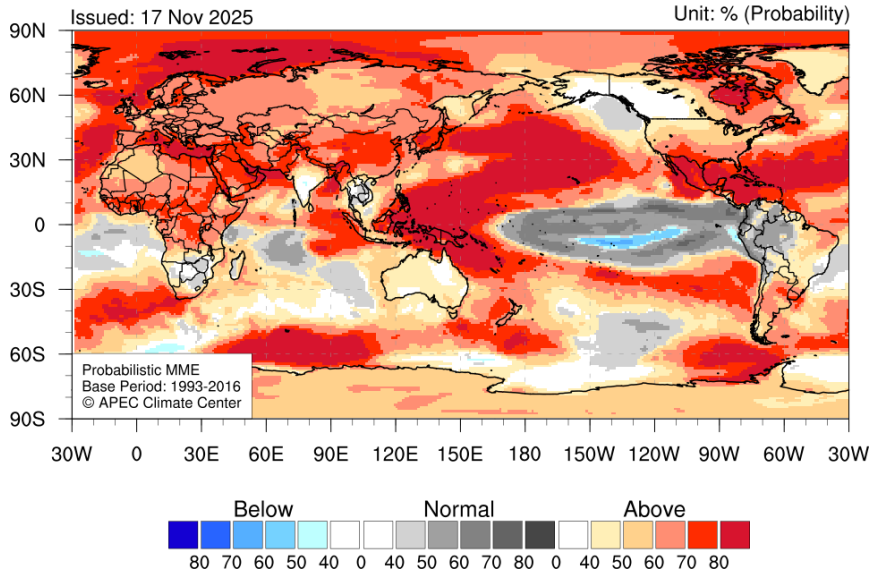
Temperature

- Strongly enhanced probability for above normal temperatures is predicted for the **Arctic sea, northeastern Atlantic, Mediterranean, central Africa, Middle East, Eastern Indian Ocean, South Asia except for India, East Asia and north Pacific, western tropical Pacific, southern USA, Caribbean, western subtropical North Atlantics.** Enhanced probability for above normal temperatures is expected for **Europe, Russia, Central Asia, North Africa, eastern Canada, northern USA, southern and eastern south America.**
- Enhanced probability for near normal temperatures is predicted for **the central to eastern subtropical Pacific and central tropical Indian ocean, northwestern South America.**
- Enhanced probability for below normal temperatures is predicted for **eastern equatorial Pacific.**

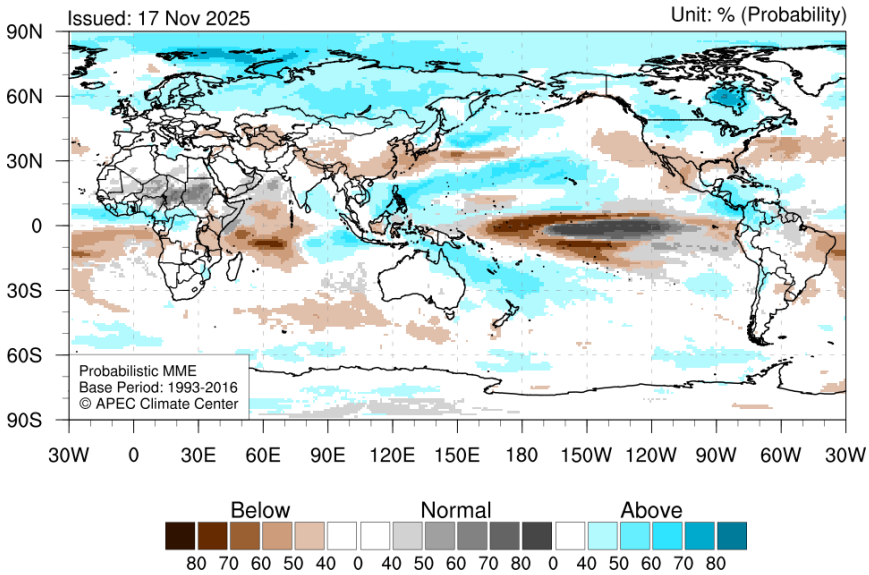
Precipitation

- Strongly enhanced probability for above normal precipitation is expected over **Arctic sea**. Enhanced probability for above normal precipitation is predicted for **Central Russia, subtropical north Pacific, southwestern Pacific, Caribbean, western Canada.** A tendency for above normal precipitation is expected for India, **northern Europe, most of Russia, west Africa, Canada, northwestern South America.**
- Enhanced probability for near normal precipitation is predicted for **the central to eastern Africa, eastern equatorial Pacific.**
- Strongly enhanced probability for below normal precipitation is predicted for **the central and western equatorial Pacific and off-equatorial Pacific, equatorial western Indian Ocean.** Enhanced probability for below normal precipitation is expected for **eastern part of East Asia, equatorial Atlantic and eastern Brazil.** A tendency for below normal precipitation is predicted for **Central Asia, southern USA and Mexico.**

Temperature at 2m for December 2025-February 2026



Precipitation for December 2025-February 2026



Probabilistic MME forecasts of 2m temperature (top) and precipitation (bottom) for December 2025 - February 2026. Normal conditions are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

Temperature		Precipitation
70% < probability	Strongly enhanced probability for above normal temperatures/precipitation	70% < probability
50% < probability < 70%	Enhanced probability for above normal temperatures/precipitation	50% < probability < 70%
40% < probability < 50%	A tendency for above normal temperatures/precipitation	40% < probability < 50%
70% < probability	Strongly enhanced probability for near normal temperatures/precipitation	70% < probability
50% < probability < 70%	Enhanced probability for near normal temperatures/precipitation	50% < probability < 70%
40% < probability < 50%	A tendency for near normal temperatures/precipitation	40% < probability < 50%
70% < probability	Strongly enhanced probability for below normal temperatures/precipitation	70% < probability
50% < probability < 70%	Enhanced probability for below normal temperatures/precipitation	50% < probability < 70%
40% < probability < 50%	A tendency for below normal temperatures/precipitation	40% < probability < 50%

Probabilistic MME forecasts of APCC is described as above

March - May 2026

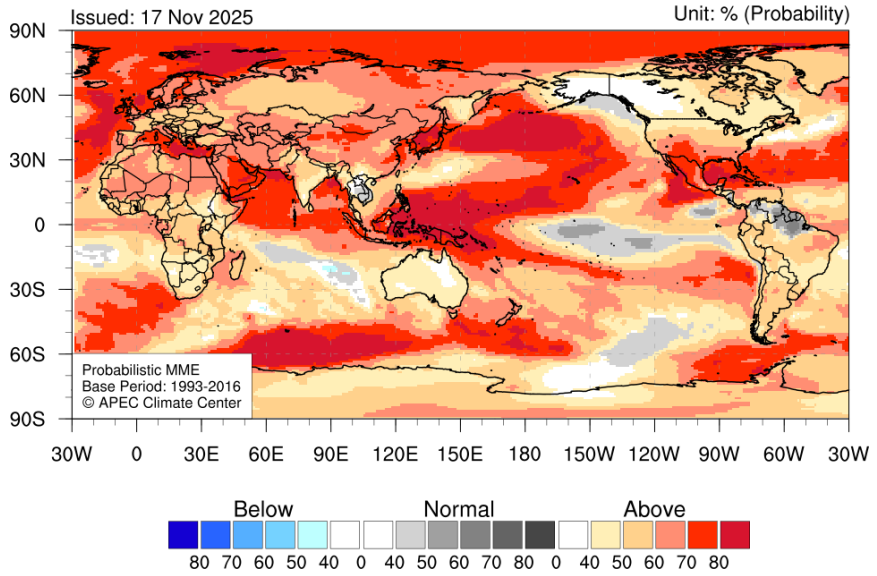
Temperature

- Strongly enhanced probability for above normal temperatures is predicted for **the Arctic sea, northeastern Atlantic, Mediterranean, Arabian sea, western tropical Pacific, North Pacific, subtropical North Atlantic, Caribbean, Mexico, southwestern Pacific, southern Seas.** Enhanced probability for above normal temperatures is expected for **Europe, Central Asia, Russia, Africa and Middle East, East Asia, USA, most of South America (except for northern part).** A tendency for above normal temperatures is expected for **Australia, eastern Canada.**
- Enhanced probability for near normal temperatures is predicted for **the central to eastern tropical Pacific, and northern south America.**

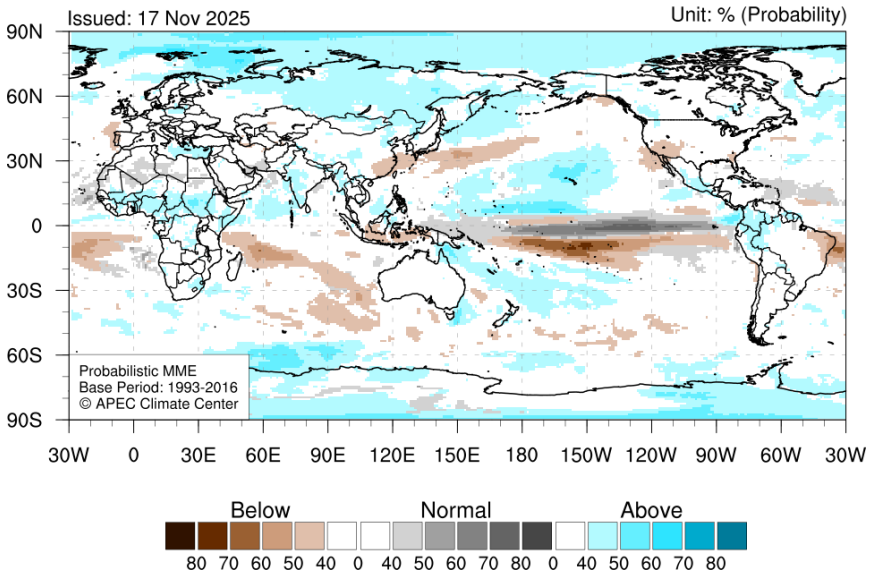
Precipitation

- Enhanced probability for above normal precipitation is predicted for **the Arctic sea, central off-equatorial North Pacific.** A tendency for above normal precipitation is predicted for **central Russia, central Africa, north Pacific, southwest Pacific, and northwestern South America, Antartica.**
- Enhanced probability for near normal precipitation is predicted for **the central and eastern equatorial Pacific.**
- Strongly enhanced probability for below normal precipitation is predicted for **the central and off-equatorial South Pacific.** Enhanced probability for below normal precipitation is predicted for **the western tropical Indian Ocean, eastern Brazil and tropical south Atlantic.** A tendency for below normal precipitation is predicted for **some parts of Southeast and East Asia.**

Temperature at 2m for March-May 2026



Precipitation for March-May 2026



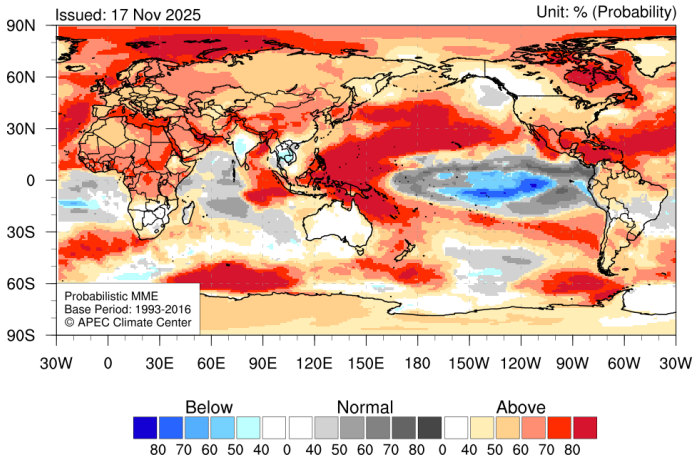
Probabilistic MME forecasts of 2m temperature (top) and precipitation (bottom) for March - May 2026. Normal conditions are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

Temperature		Precipitation
70% < probability	Strongly enhanced probability for above normal temperatures/precipitation	70% < probability
50% < probability < 70%	Enhanced probability for above normal temperatures/precipitation	50% < probability < 70%
40% < probability < 50%	A tendency for above normal temperatures/precipitation	40% < probability < 50%
70% < probability	Strongly enhanced probability for near normal temperatures/precipitation	70% < probability
50% < probability < 70%	Enhanced probability for near normal temperatures/precipitation	50% < probability < 70%
40% < probability < 50%	A tendency for near normal temperatures/precipitation	40% < probability < 50%
70% < probability	Strongly enhanced probability for below normal temperatures/precipitation	70% < probability
50% < probability < 70%	Enhanced probability for below normal temperatures/precipitation	50% < probability < 70%
40% < probability < 50%	A tendency for below normal temperatures/precipitation	40% < probability < 50%

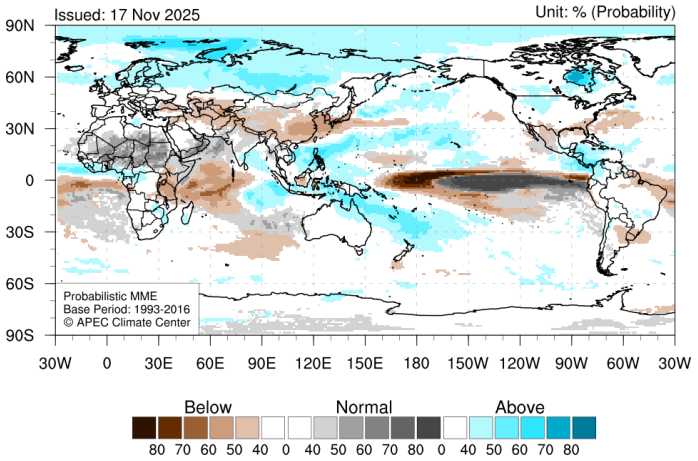
Probabilistic MME forecasts of APCC is described as above

December 2025 - February 2026

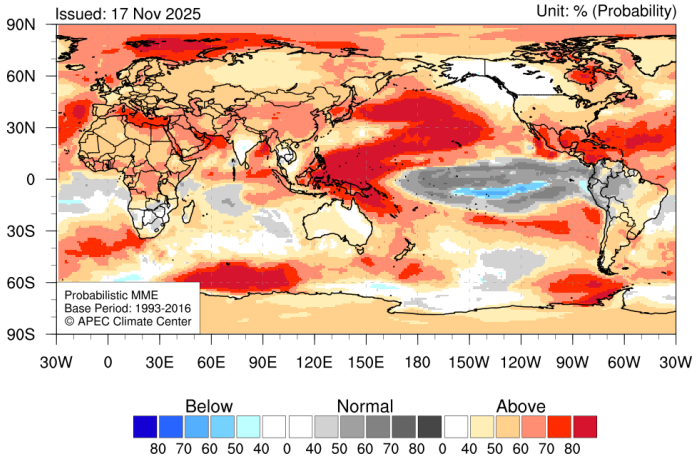
Temperature at 2m for December 2025



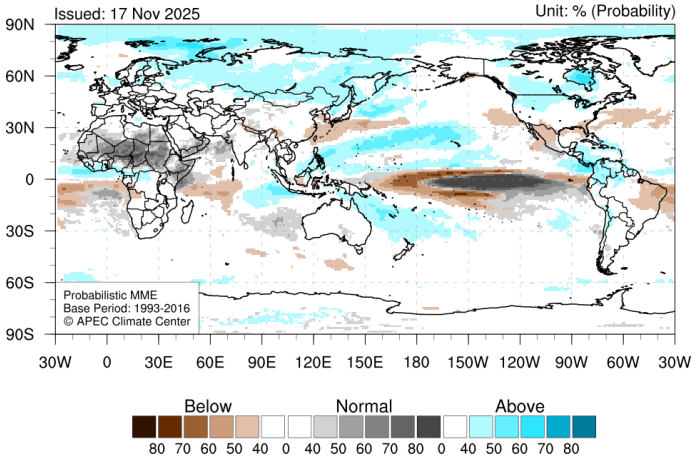
Precipitation for December 2025



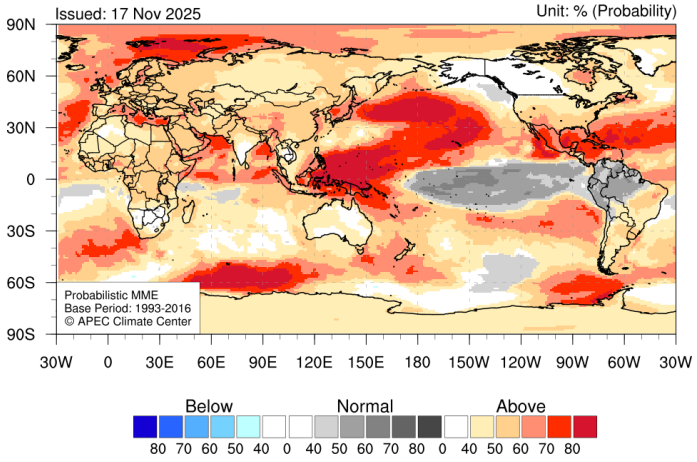
Temperature at 2m for January 2026



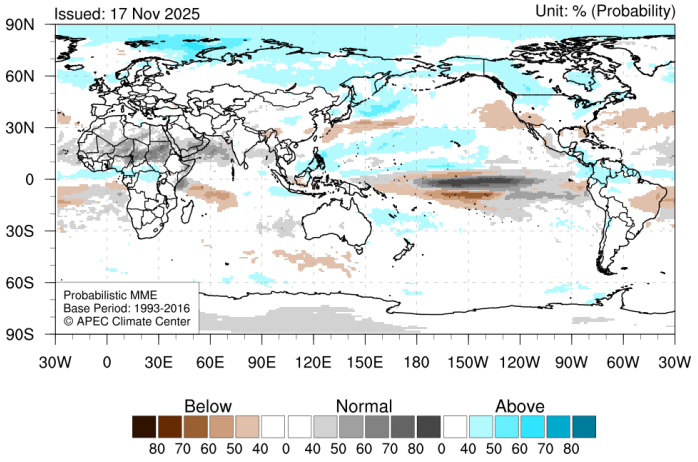
Precipitation for January 2026



Temperature at 2m for February 2026



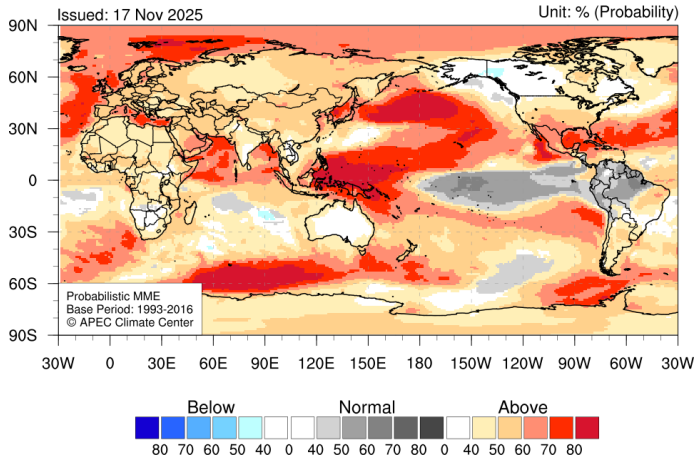
Precipitation for February 2026



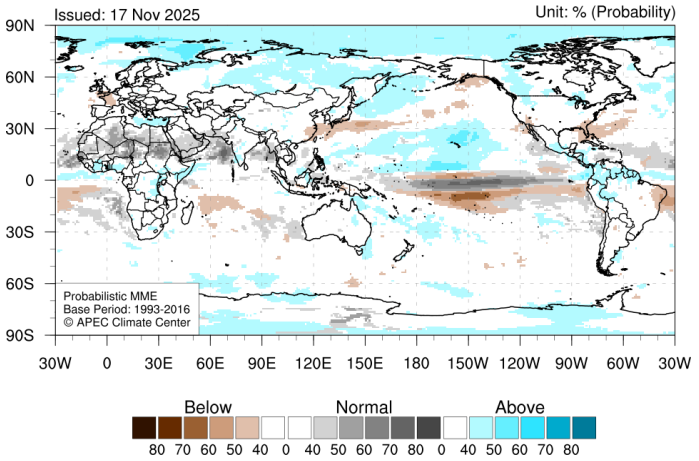
Probabilistic MME forecasts of Monthly 2m temperature (left) and precipitation (right) for December 2025 - February 2026. Normal conditions are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

March - May 2026

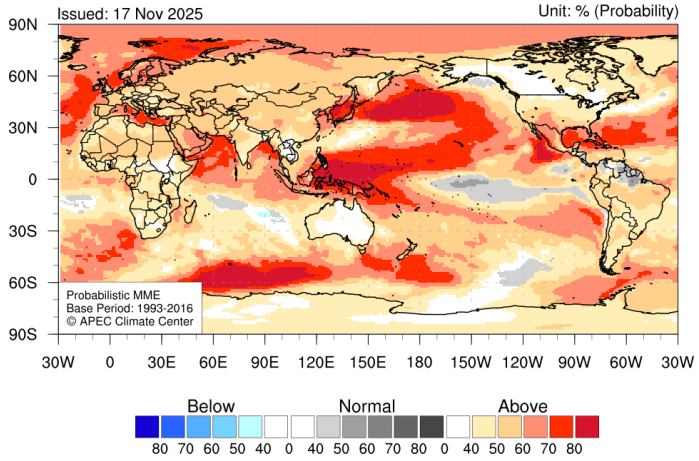
Temperature at 2m for March 2026



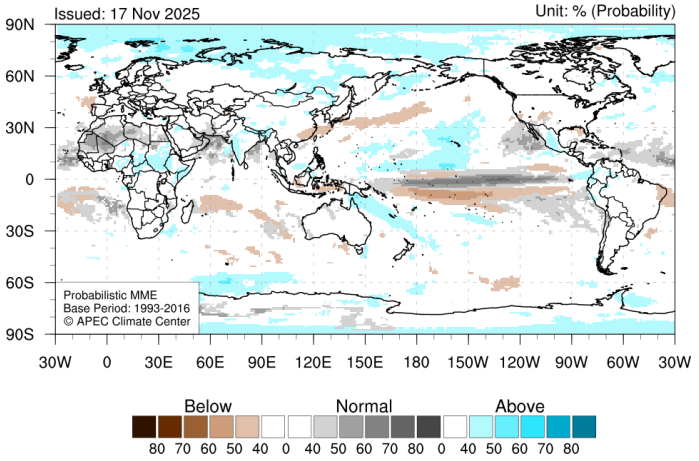
Precipitation for March 2026



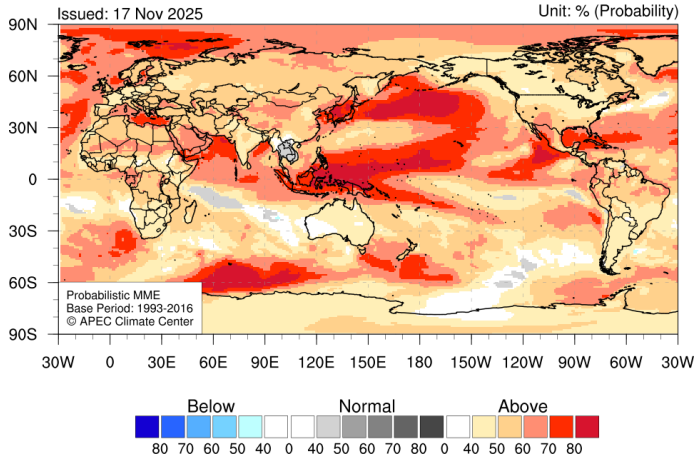
Temperature at 2m for April 2026



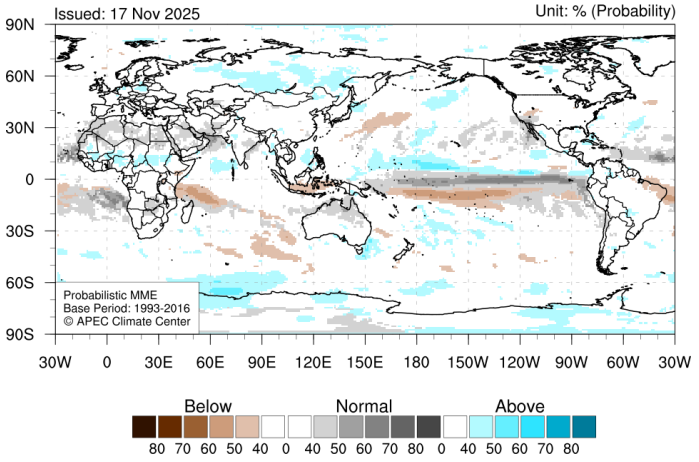
Precipitation for April 2026



Temperature at 2m for May 2026



Precipitation for May 2026



Probabilistic MME forecasts of Monthly 2m temperature (left) and precipitation (right) for March - May 2026. Normal conditions are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

- More information on current climate conditions is available at http://www.apcc21.org/monitoring/recent?lang=en.
- More information on prediction and verification results is available at http://www.apcc21.org/prediction/global/outlook?lang=en.
- This outlook is prepared by the Climate Prediction Department in the Climate Services and Research Division, APCC.
- If you would like to subscribe to our Climate Outlook or have any questions, please e-mail mme@apcc21.org.
- The APCC seasonal forecast is produced through a multi-model ensemble method, utilizing climate models from 16 climate forecasting centers and institutions in 11 countries around the world. Our forecast information should be used for reference only. Please consult the respective country's national meteorological service for the official seasonal forecast for that country

Acknowledgements

The APEC Climate Center is a major APEC science facility, which was established in November 2005 during the leaders meeting of the Asia-Pacific Economic Forum in Busan, Korea. The APCC climate forecasts are based on model simulations from 16 prominent climate forecasting centers and institutes in the APEC region. These forecasts are collected and combined using state-of-the-art schemes to produce a statistically 'consensual' forecast. APCC collects seasonal forecasts from 16 institutes in the APEC region: the Australian Bureau of Meteorology (BoM), Environment and Climate Change Canada (ECCC), Beijing Climate Center China (BCC), Central Weather Administration Chinese Taipei (CWA), Météo-France (METFR), Euro-Mediterranean Center on Climate Change Italy (CMCC), Japan Meteorological Agency (JMA), APEC Climate Center Korea (APCC), Korea Meteorological Administration (KMA), National Institute of Agricultural Sciences Korea (NAS), Pukyong National University Korea (PKNU), Hydrometeorological Research Center of Russia (HMC), Voeikov Main Geophysical Observatory of Russia (MGO), Met Office United Kingdom (UK10), National Aeronautics and Space Administration USA (NASA), and the National Centers for Environmental Prediction USA (NCEP).