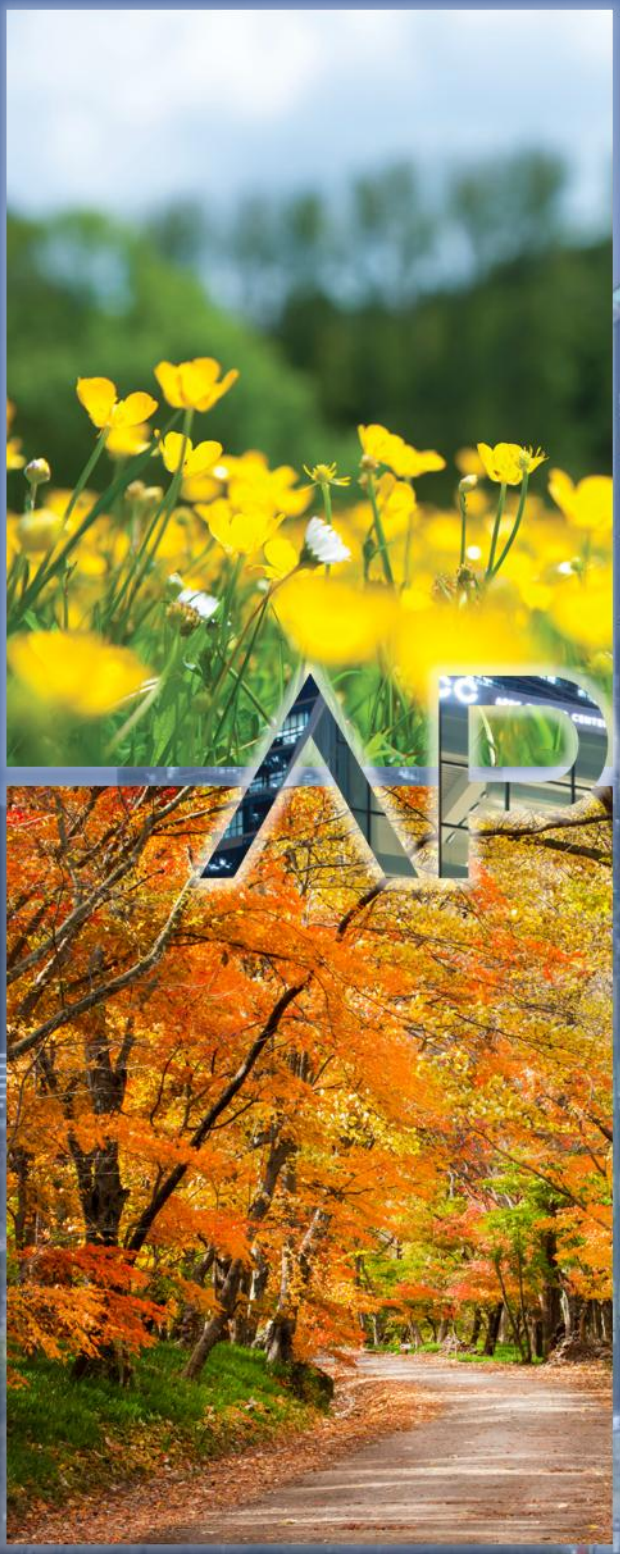
APCC
APEC CLIMATE CENTER

Climate Outlook

Issued: 15 December 2025



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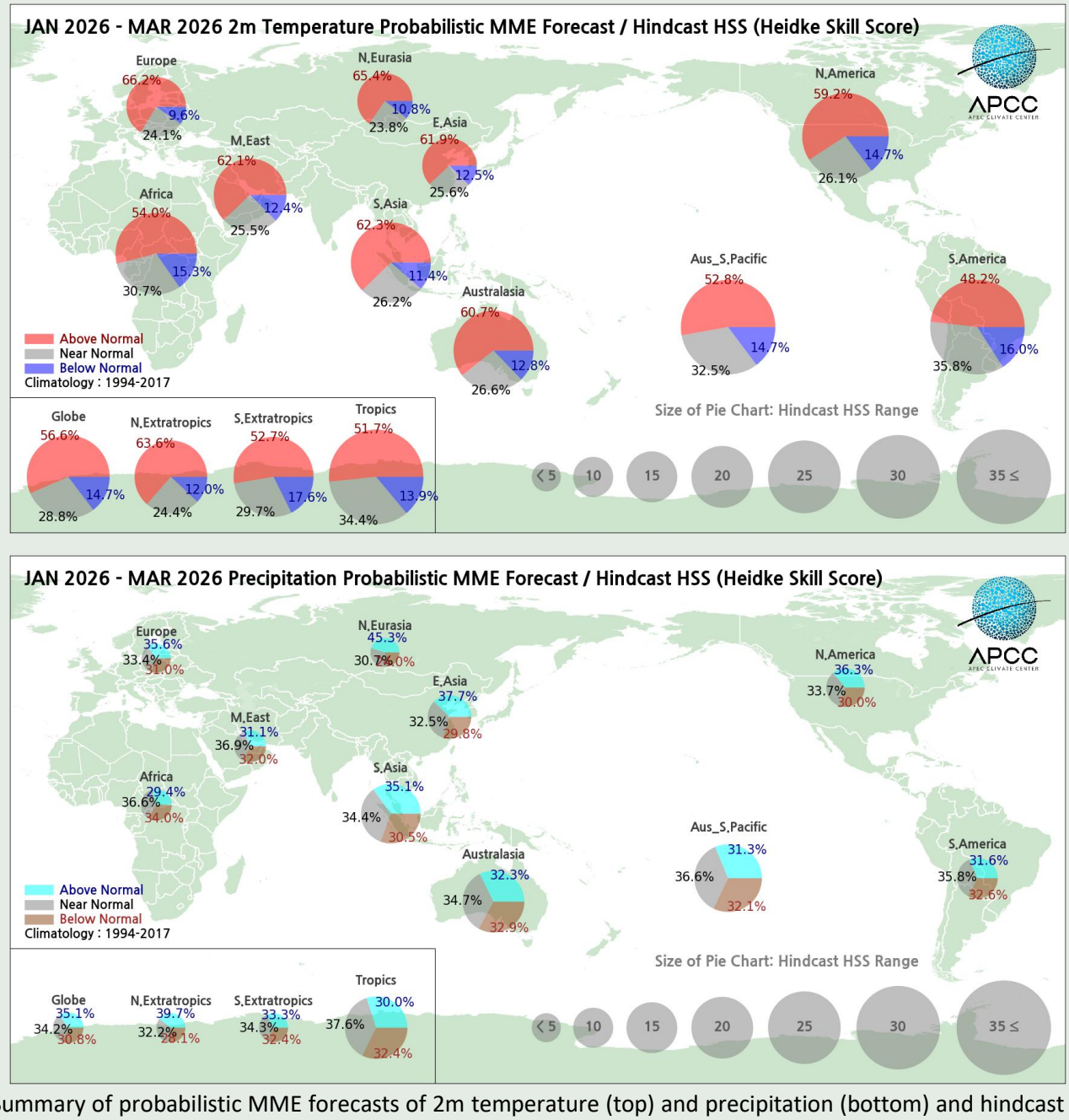
January - March 2026

- ***The APCC ENSO Alert suggests "Inactive". ENSO neutral condition will be dominant throughout whole forecast period .***
- ***Above normal temperatures is mostly probable for the globe during whole forecast period except for the western North America in January — March 2026.***
- ***Above normal precipitation is predicted for the Arctic and adjacent region of northern continents, Subtropical North and western South Pacific, central to northern South America. Below normal precipitation is predicted for the equatorial central Pacific, extratropical North Pacific and tropical Atlantic for January — March 2026. During April — June 2026, above normal precipitation is expected for the Arctic, central Africa, and off-equatorial north Pacific. Below normal precipitation is expected for central off-equatorial South Pacific.***

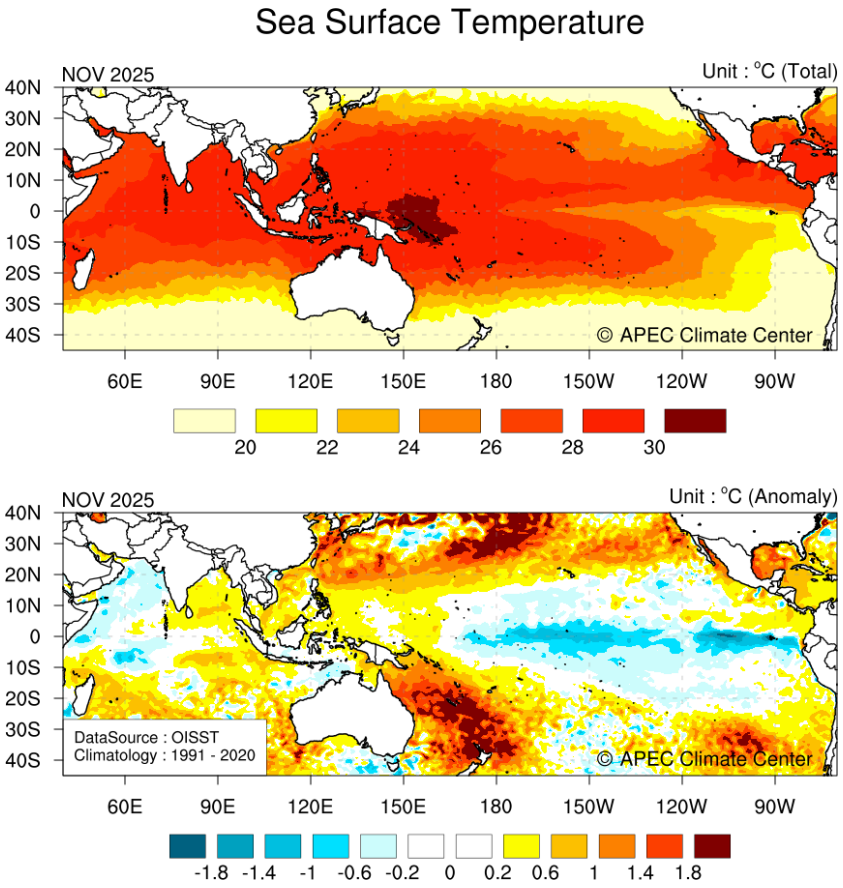


Summary of probabilistic MME forecasts of 2m temperature (top) and precipitation (bottom) and hindcast skill scores for January - March 2026.

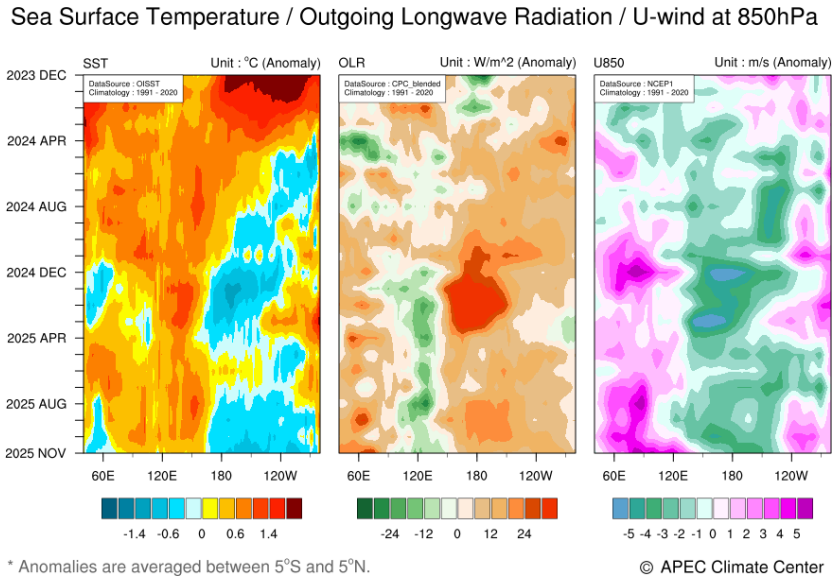
The information for April - June 2026 is available at http://www.apcc21.org/prediction/global/outlook?lang=en.

Current Climate Conditions

- In November 2025, negative sea surface temperature (SST) anomalies prevailed at the central to eastern equatorial Pacific, whereas positive SST anomalies at the southwestern Pacific remains strong. Warm SST at the eastern Indian Ocean and cold SST at the western Indian Ocean indicated negative phase of Indian Ocean Dipole mode.
- At the equator, cold SST anomalies at the central and eastern Pacific is developed and 850hPa westerly wind and positive OLR at the western Pacific is intensified.
- Positive monthly mean temperature anomalies were observed over the Arctic sea, Greenland, eastern Europe and central Asia. Northwest Africa, most of North America, some regions in South America also experienced warm condition. Negative temperature anomalies appeared in Northeastern Russia, south Asia and western China, southeastern South Africa, southern Australia, northeastern USA, southern South America.
- Above normal precipitation was observed over western Russia, a part of central Africa, south Africa, southeast Asia, a part of northwestern south America. Below normal precipitation was observed over the central to east Africa, central Asia, southwestern USA, Brazil and northern South America.

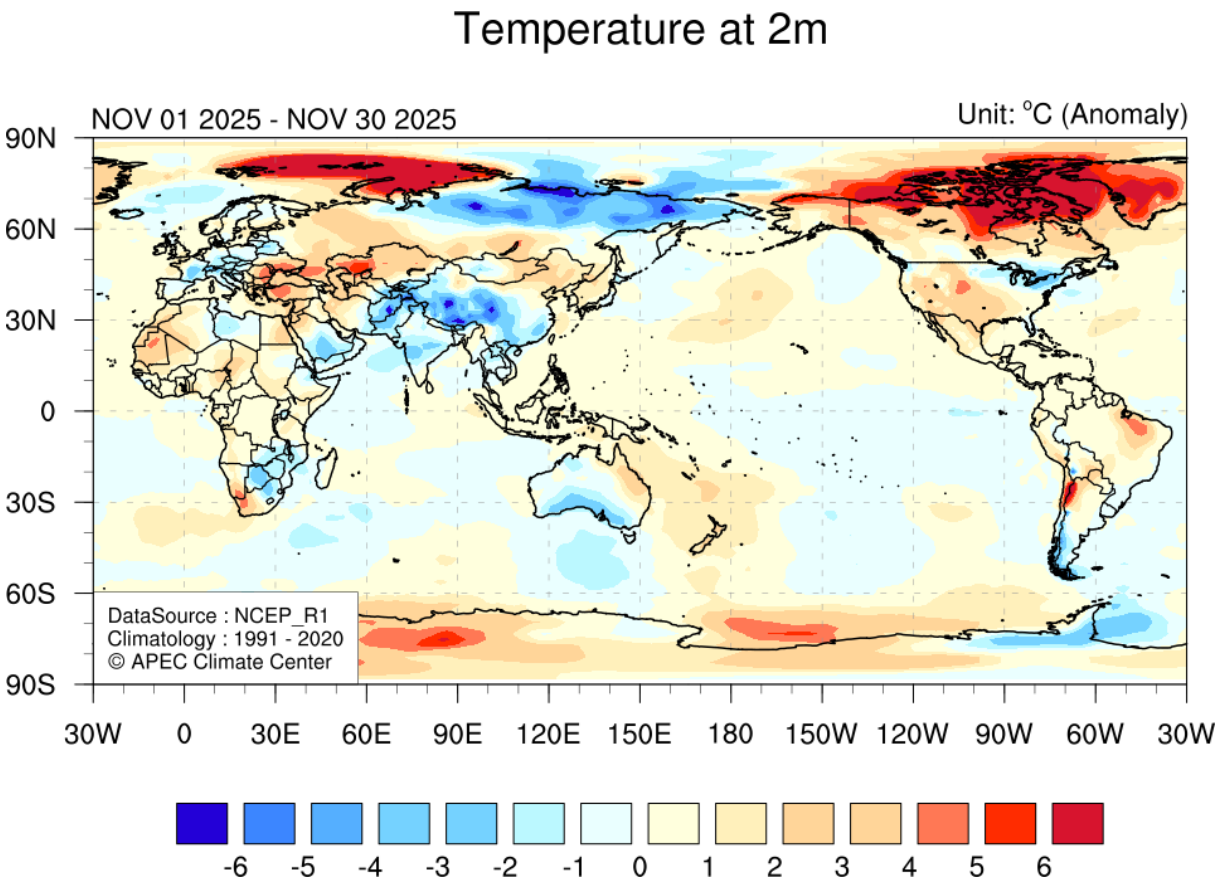


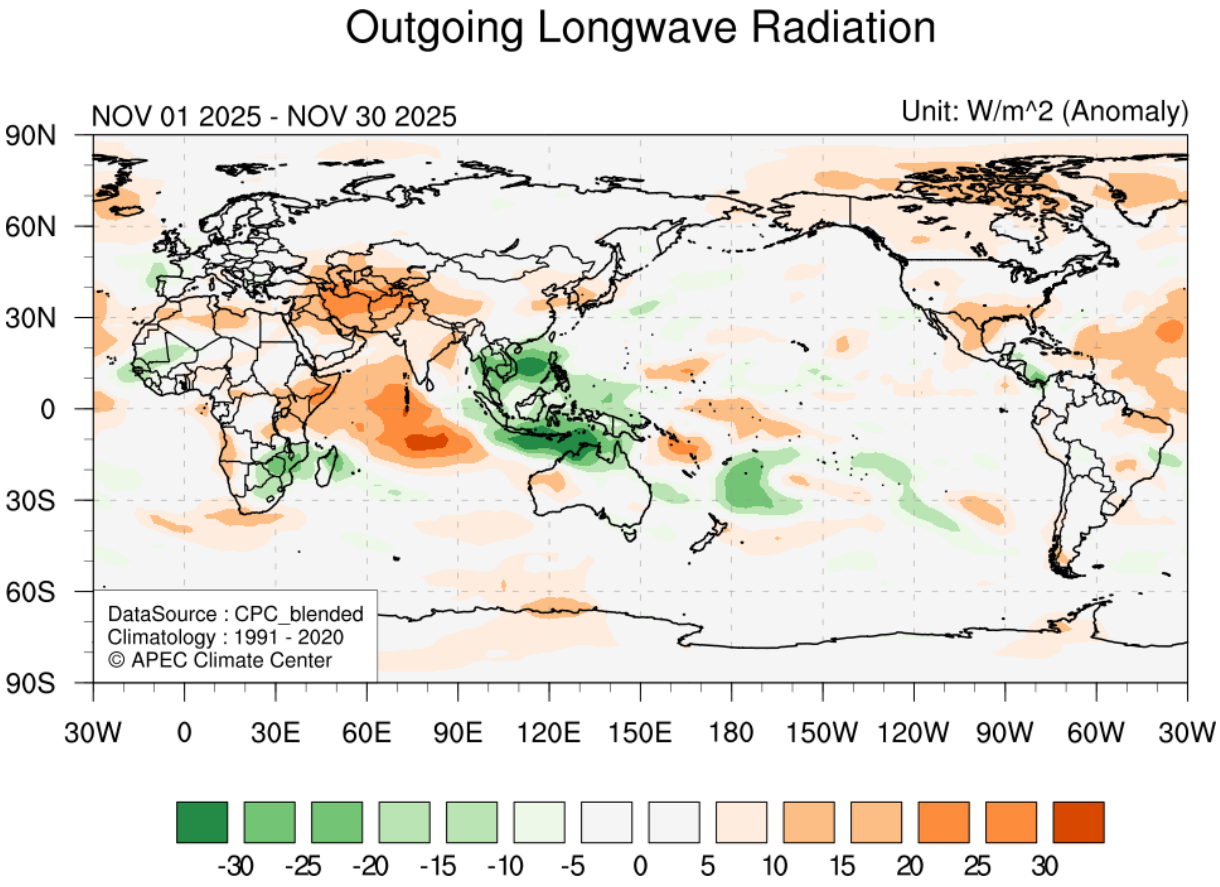
The observed sea surface temperatures (SSTs; top) and anomalies (bottom) for November 2025



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 December 2023 – November 2025.

Current Climate Conditions

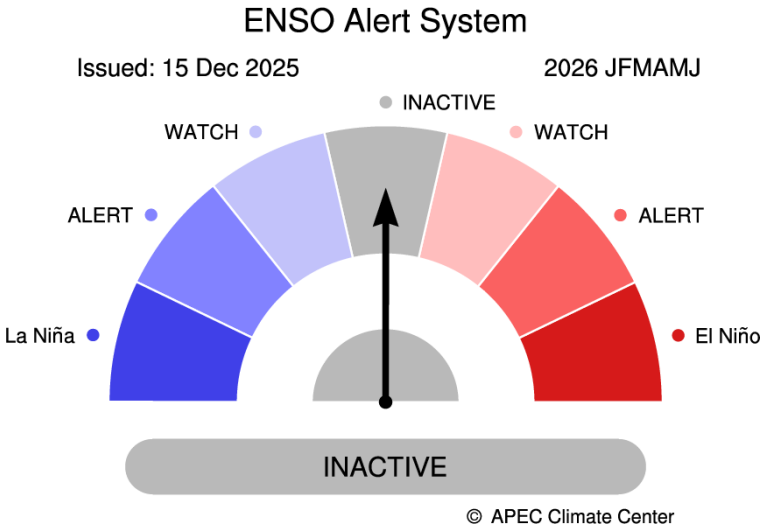




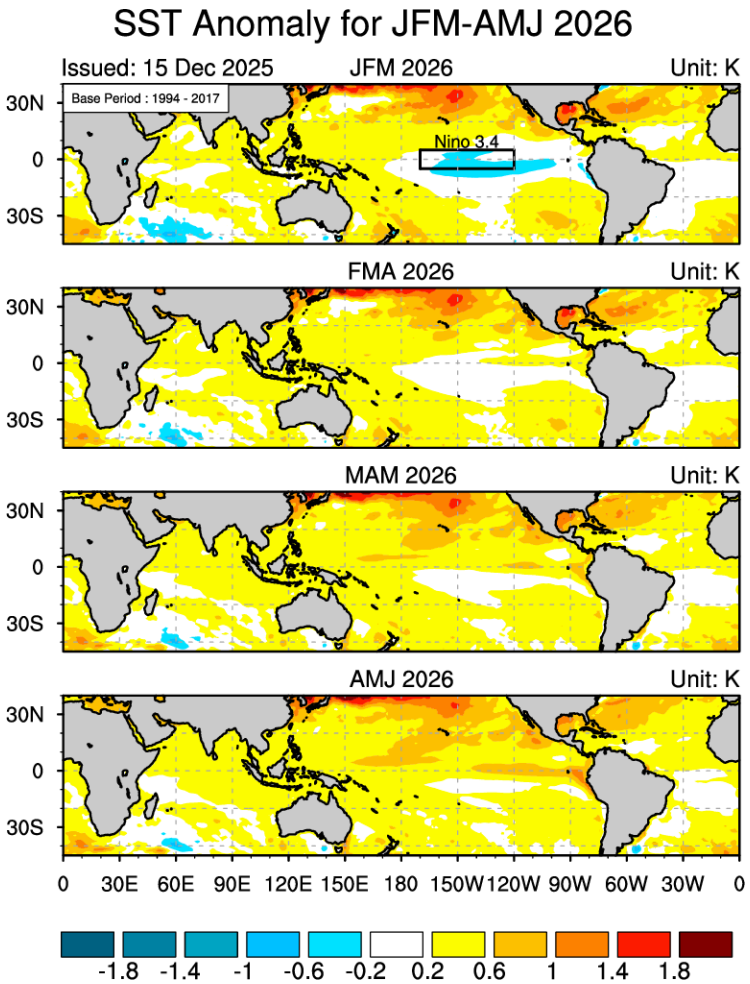
The observed 2m temperatures (top) and OLR anomalies (bottom) for November 2025.

January - June 2026

- The APCC ENSO outlook suggests “Inactive”.
- Negative SST anomalies in central to eastern Pacific disappears rapidly. Warming of equatorial Pacific SST may follow afterwards.
- Niño3.4 index is expected to be -0.46 ℃ for January 2026 and then increase up to 0.62 ℃ by June 2026.
- Neutral condition is more probable with 74.5% of chance in the early forecast period and remains dominant by April to June with chance of 51.2%.

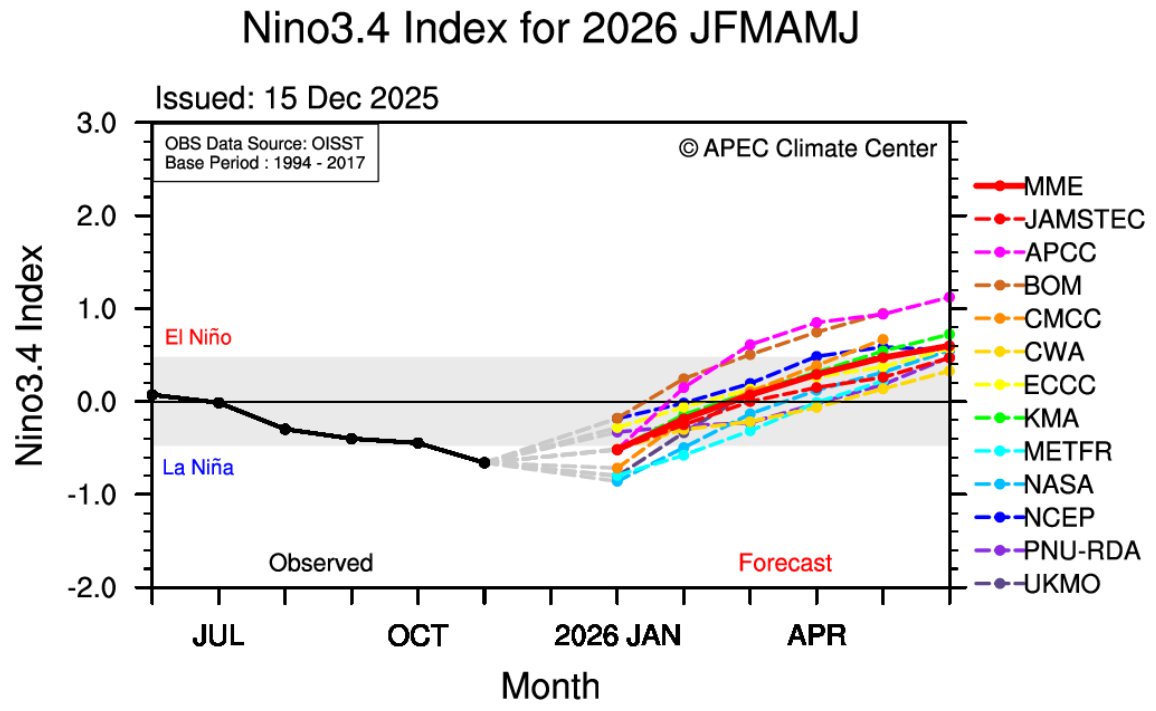


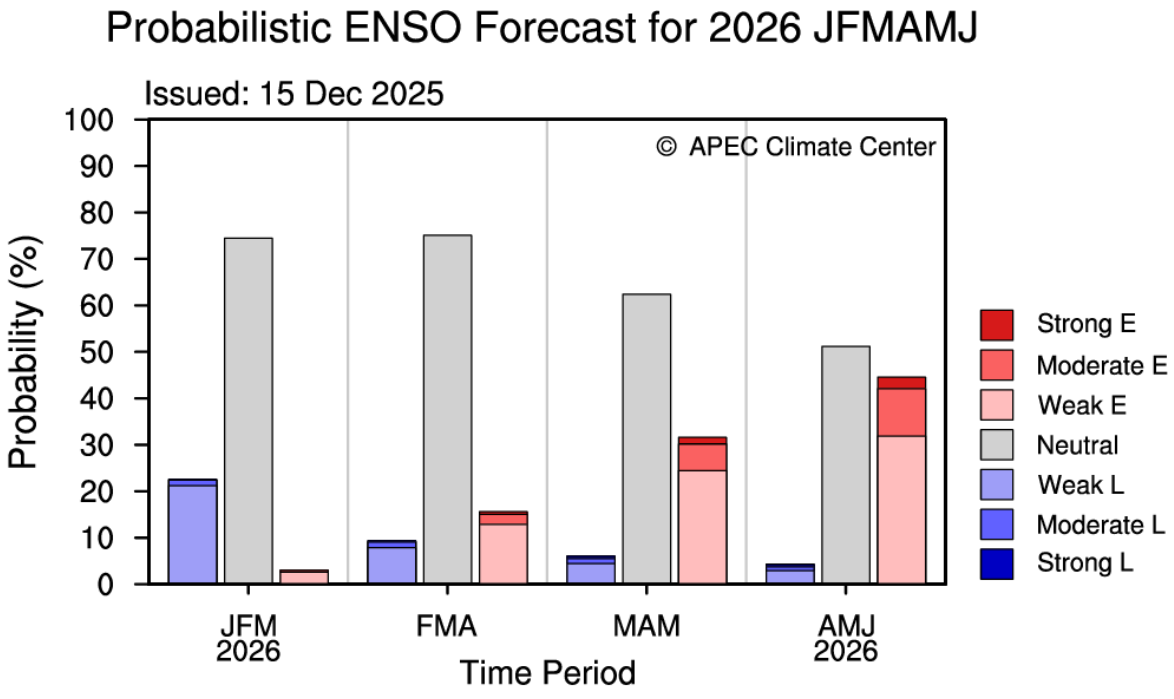
The APCC ENSO Alert status for January - June 2026. Anomalies are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction. Observed data used for the recent three months is the Optimum Interpolation Sea Surface Temperature (OISST). Effective from 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 January - June 2026. Anomalies are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

January - June 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 January - June 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.

January - March 2026

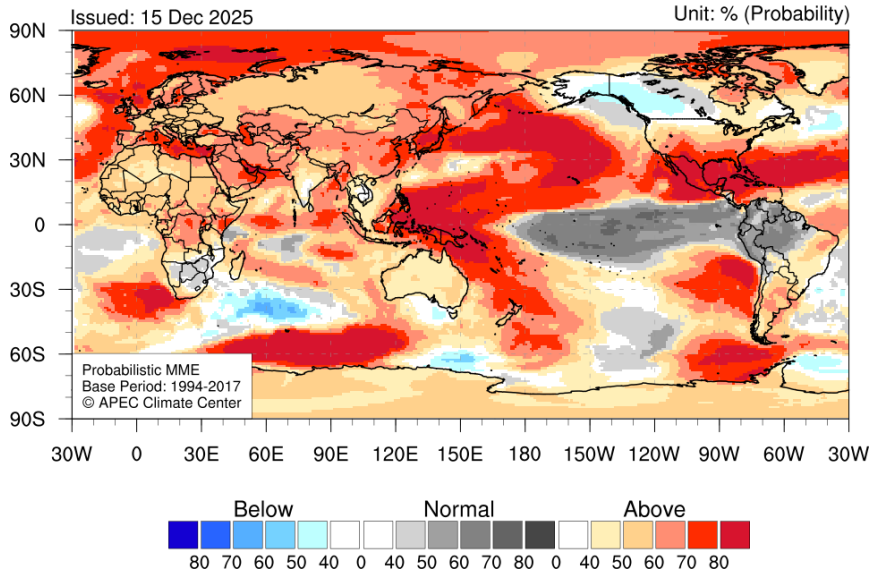
Temperature

- Strongly enhanced probability for above normal temperatures is predicted for the **Arctic sea, northeastern Atlantic, Mediterranean, Equatorial Indian Ocean, eastern East Asia and north Pacific, western tropical Pacific, southern USA, Caribbean, Mexico, subtropical North Atlantic, southeastern South Pacific.** Enhanced probability for above normal temperatures is expected for **Europe, Russia, Central Asia, North Africa, Australia, central North America, southern South America.**
- Enhanced probability for near normal temperatures is predicted for **the central to eastern tropical Pacific and northern South America.**
- Enhanced probability for below normal temperatures is predicted for south **southwestern Indian Ocean**. A tendency for below normal temperatures is predicted for **western Canada, northwestern North Atlantic**.

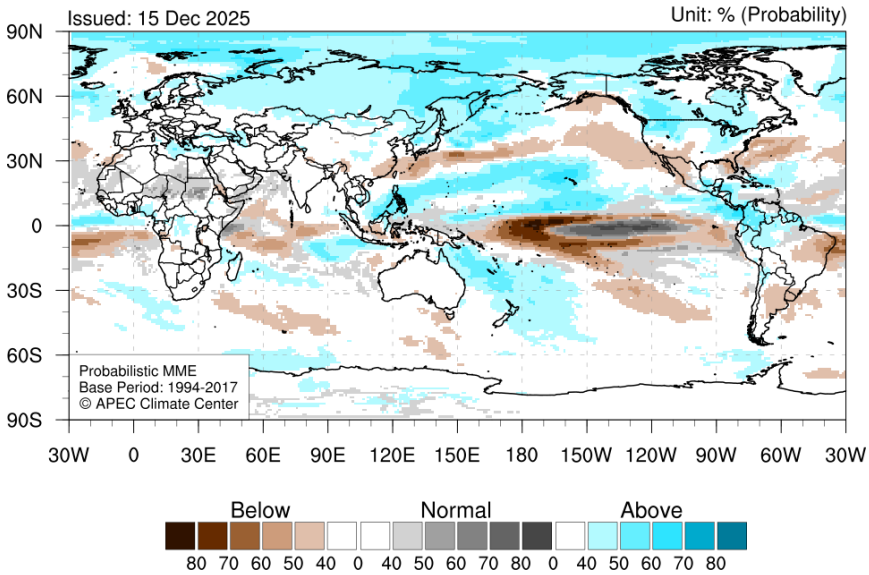
Precipitation

- Enhanced probability for above normal precipitation is predicted for **Arctic, Eastern Russia, western North America, subtropical North Pacific, southwest Pacific, northern South America and central America.** A tendency for above normal precipitation is expected for India, **western Russia, Eastern North America, eastern tropical Indian Ocean, Equatorial Atlantic.**
- Enhanced probability for near normal precipitation is predicted for **the eastern equatorial Pacific, northern Africa, and coast of western Africa.**
- Strongly enhanced probability for below normal precipitation is predicted for **the central equatorial Pacific and off-equatorial South Pacific.** Enhanced probability for below normal precipitation is expected for **western and central North Pacific, northwestern Atlantic, equatorial South Atlantic including eastern end of Brazil.** A tendency for below normal precipitation is predicted for **the western Indian Ocean, southwestern US and a part of Mexico, southern South America.**

Temperature at 2m for January-March 2026



Precipitation for January-March 2026



Probabilistic MME forecasts of 2m temperature (top) and precipitation (bottom) for January - March 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

April - June 2026

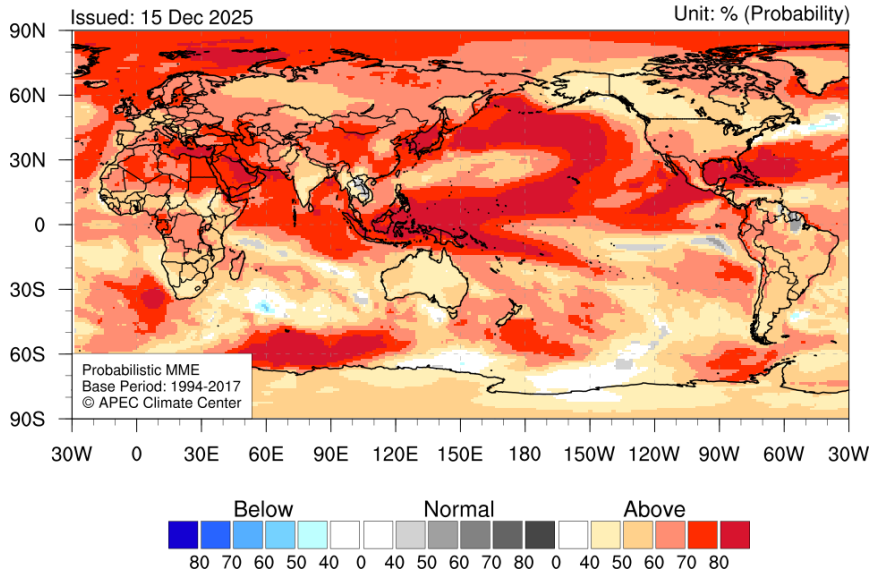
Temperature

- Strongly enhanced probability for above normal temperatures is predicted for **the Arctic sea, northeastern Atlantic, Mediterranean, Middle east, northern Africa, northern Indian Ocean, East Asia, North Pacific, subtropical North Atlantic, Caribbean, southwestern and southeastern Pacific.** Enhanced probability for above normal temperatures is expected for **Europe, Central Asia, Russia, Africa(except northern part) and India, North America, South America.** A tendency for above normal temperatures is expected for **central Australia.**
- Enhanced probability for near normal temperatures is predicted for **the some part of northern South America.**

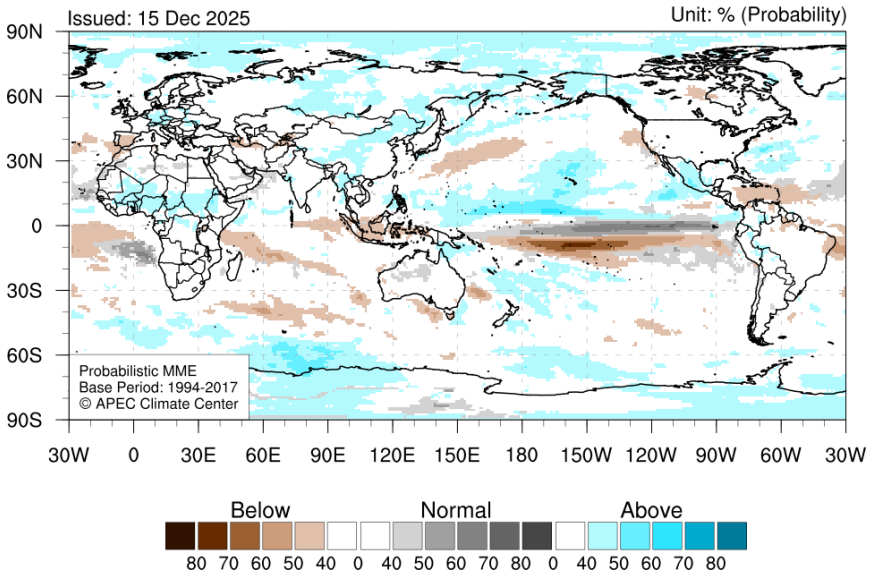
Precipitation

- Enhanced probability for above normal precipitation is predicted for **the off-equatorial North Pacific.** A tendency for above normal precipitation is predicted for **Arctic, central Africa, central Russia, some parts of China, Alaska, and Mexico.**
- Enhanced probability for near normal precipitation is predicted for **the central and eastern equatorial Pacific.**
- Enhanced probability for below normal precipitation is predicted for **Off-equatorial central to eastern South Pacific.** A tendency for below normal precipitation is predicted for **western Europe, some parts of tropical Atlantic, Equatorial western and eastern Indian Ocean.**

Temperature at 2m for April-June 2026



Precipitation for April-June 2026



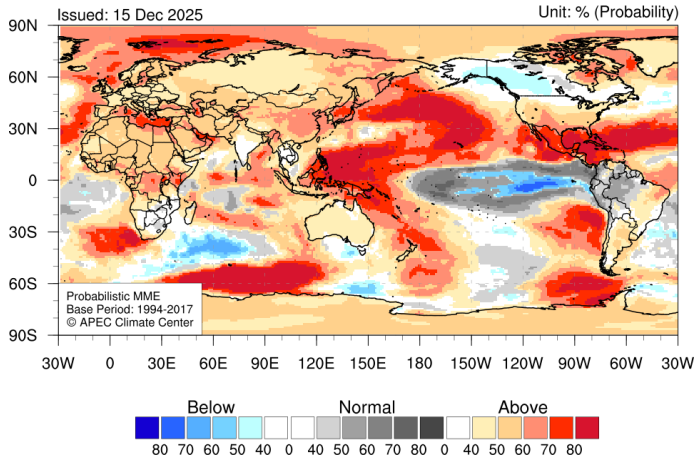
Probabilistic MME forecasts of 2m temperature (top) and precipitation (bottom) for April - June 2026. Normal conditions are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

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%

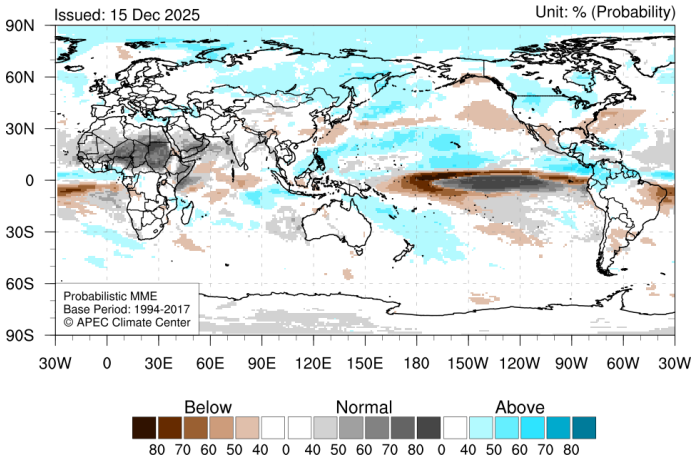
Probabilistic MME forecasts of APCC is described as above

January - March 2026

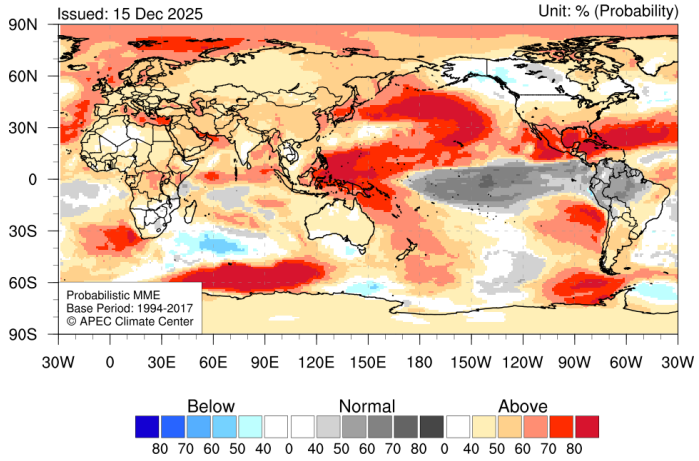
Temperature at 2m for January 2026



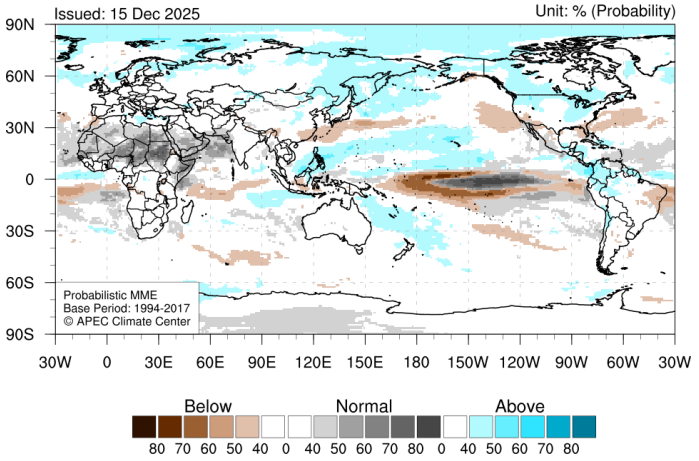
Precipitation for January 2026



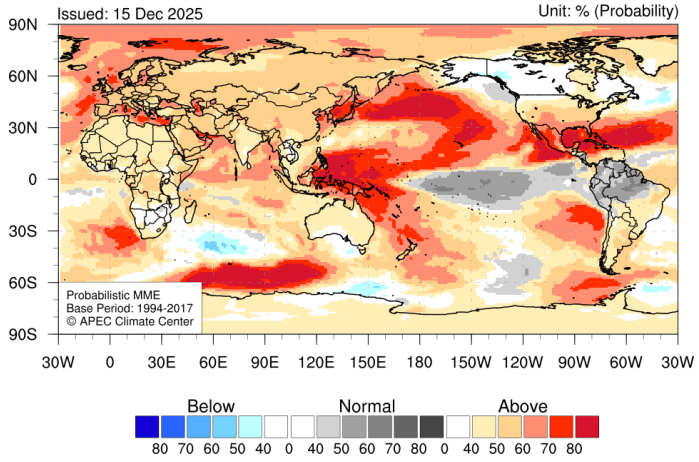
Temperature at 2m for February 2026



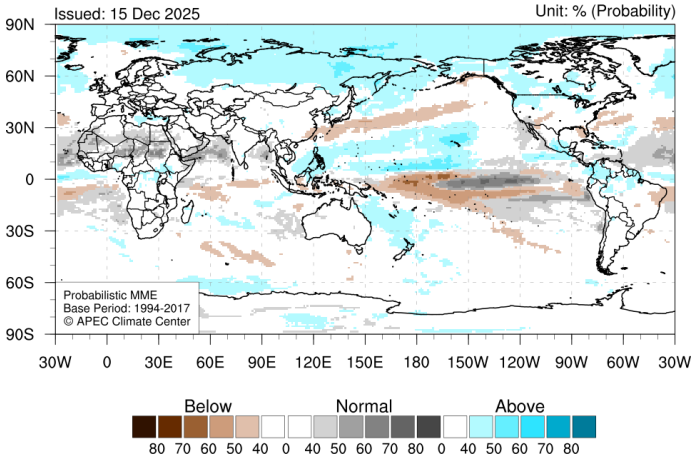
Precipitation for February 2026



Temperature at 2m for March 2026



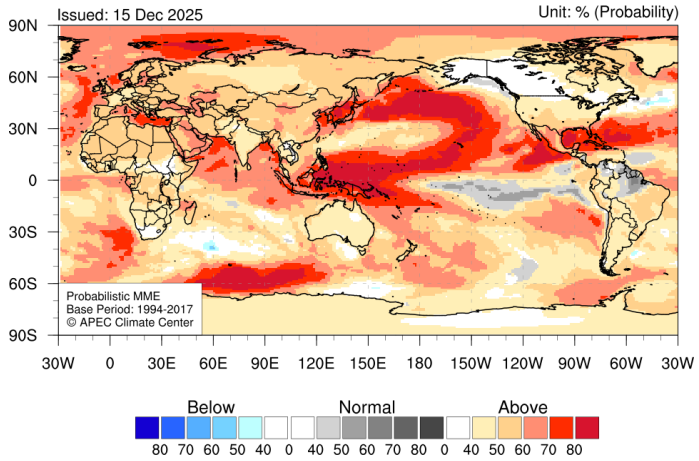
Precipitation for March 2026



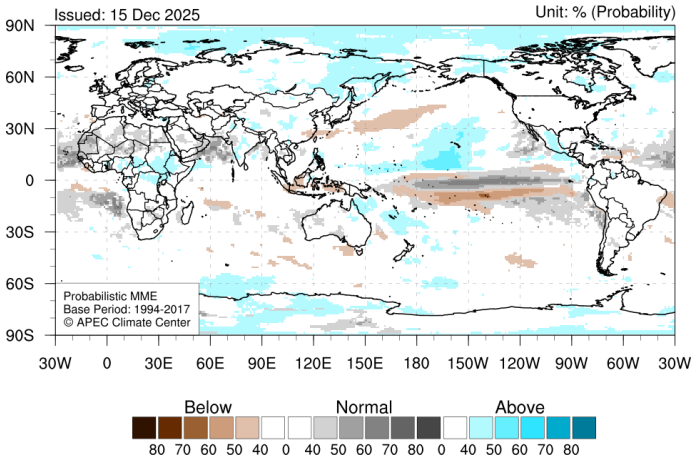
Probabilistic MME forecasts of Monthly 2m temperature (left) and precipitation (right) for January - March 2026. Normal conditions are computed with respect to the common base period (1993-2016) of participating models in the APCC MME prediction.

April - June 2026

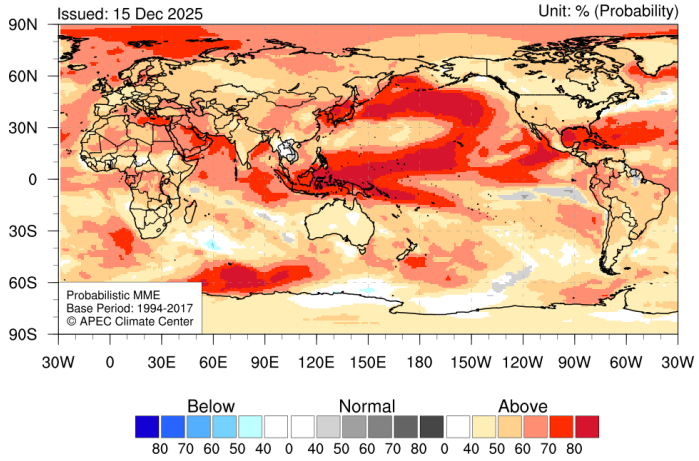
Temperature at 2m for April 2026



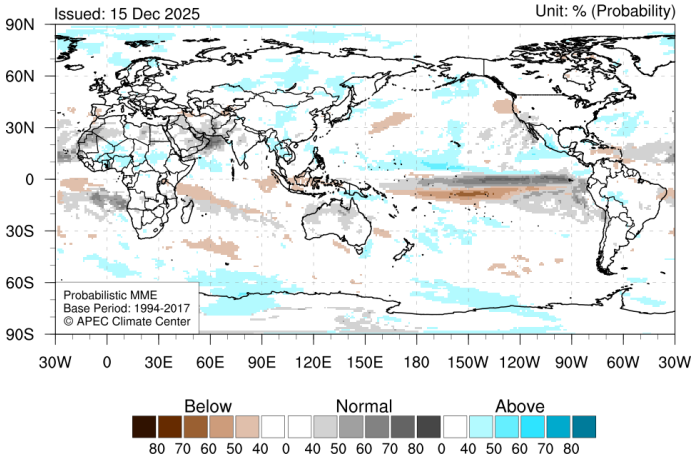
Precipitation for April 2026



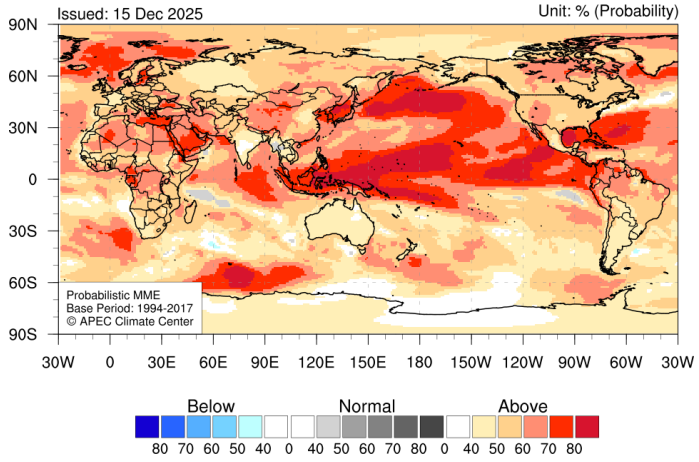
Temperature at 2m for May 2026



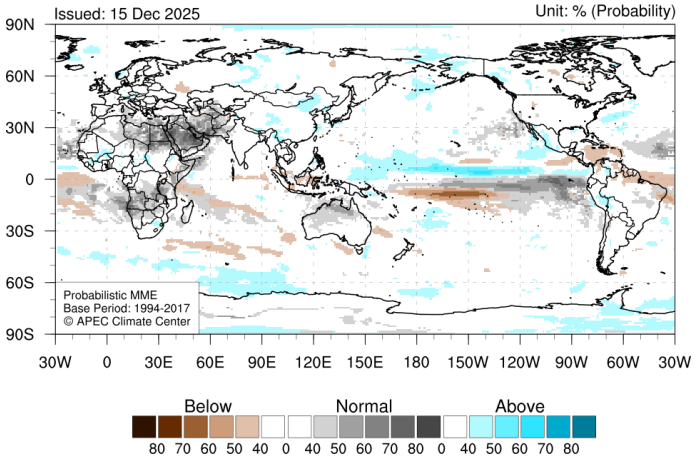
Precipitation for May 2026



Temperature at 2m for June 2026



Precipitation for June 2026



Probabilistic MME forecasts of Monthly 2m temperature (left) and precipitation (right) for April - June 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 (UK11), National Aeronautics and Space Administration USA (NASA), and the National Centers for Environmental Prediction USA (NCEP).