Seasonal Weather Forecast for the Next Three Months

This section of the official website of the Department of Meteorology will be regularly updated with maps and graphical products presenting the seasonal weather forecast for the next three months, together with relevant analyses and comparisons of the forecast values against the corresponding climatological normal values. In addition, an assessment of the seasonal forecast for the month in which the three-month forecast is issued will also be presented.

The seasonal forecasts are produced using the Multi-Model System of the Copernicus Climate Change Service (C3S). The reference climatology of the models participating in this system covers the period 1993–2016. Consequently, the forecast values presented represent anomalies relative to the mean climatological values of this reference period.

It should be noted that seasonal forecasts are primarily intended to identify general trends in atmospheric circulation and prevailing climate conditions over broad geographical areas, at continental or even global scales. Therefore, they do not provide detailed forecasts of weather conditions for specific days or locations. Their results should be interpreted with due caution, taking into account the inherent uncertainty associated with this type of forecasting.

The seasonal forecast products selected for presentation and discussion illustrate temperature and precipitation anomalies relative to their corresponding normal values. These two parameters have been selected due to their importance in short-range and seasonal weather forecasting, as well as in climate monitoring and assessment.

For the comparison of forecast results with climatological normal values, data from representative meteorological stations covering the main geographical and altitudinal regions of Cyprus are used. Specifically, the stations are: Athalassa, representing the inland area; Polis Chrysochous, the northern coastal area; Paphos Airport, the western coastal area; Larnaca Airport, the southern coastal area; Achna (Dasaki), the eastern coastal area; and Prodromos Forestry College, representing the highest mountainous areas. The climatological normal values of temperature and precipitation used for the above comparisons refer to the thirty-year climate period 1991–2020.