

Seasonal weather forecast for the months of June, July and August 2024

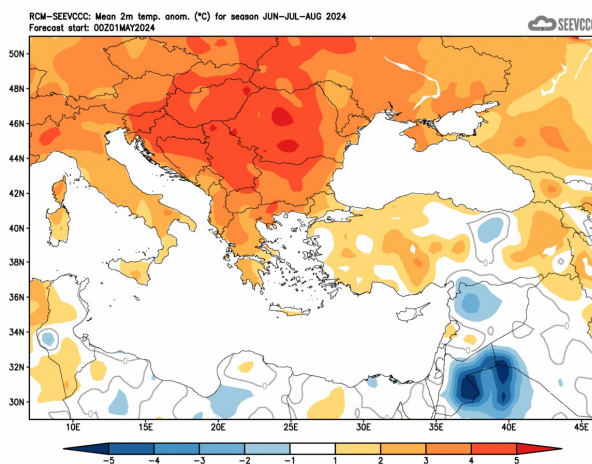
General over view of the weather expected to prevail for June, July and August

The weather for the following three months, namely **June, July and August 2024** will be presented, with respect to the anomalies of temperature and accumulated precipitation.

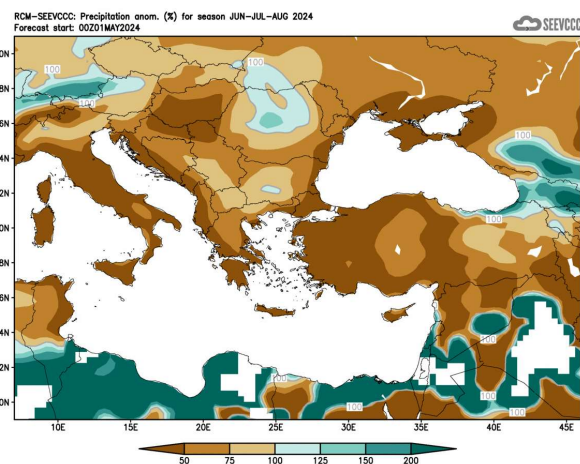
Normal temperatures (both the maximum and the minimum), are on the rise suggesting the second half of the period as the hottest period of the year. The accumulated precipitation is at its lowest values. The period of the following three months is likely to be characterized by outbreaks of thunderstorms, initiated from thermal causes over the main plain area or over the mountainous range from orographic uplift.

Specifically, regarding the seasonal forecast for the period of **June, July and August 2024**, normal temperatures but also drought is the general feature for these three months. That means that the mean temperature will be around normal and does not exclude days with temperatures well above normal. Similar temperature characteristics are expected for the entire region of Asia Minor, while the Balkans and Greece will be warmer than normal. The Near and Middle East is expected to be normal or even in some places a bit colder than normal.

Regarding the seasonal forecast, based on the climatology of the island, the accumulated precipitation is expected to be below normal (as shown in the tables below). Any precipitation in Cyprus will be a result of thermal instability, in the form of a thunderstorm, with very local and temporal characteristics. For the above reason, but also due to the inability of the seasonal model to estimate precipitation for the region of Cyprus due to thermal instability, no extended comment will be made (*).



Divergence of temperature from normal from the mean seasonal temperature (°C) for June, July and August

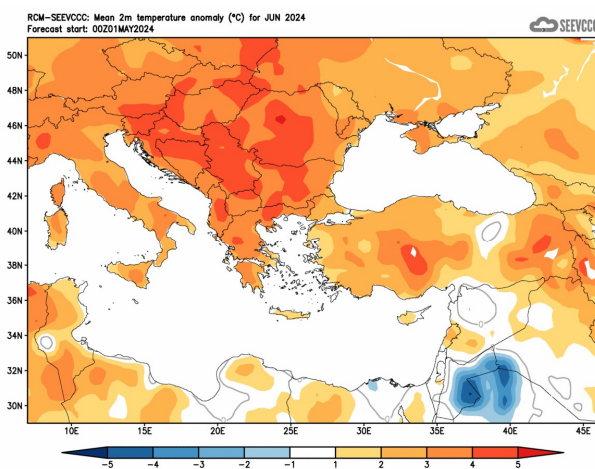


Percentage (%) of the mean seasonal accumulated precipitation compared to the mean normal for June, July and August

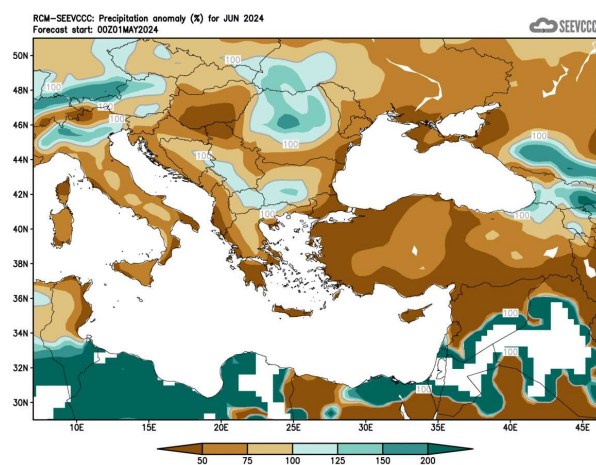
The seasonal monthly forecast in detail

June

The seasonal forecast suggests that **June** will be warmer than normal by 1 to 2 °C in most of the island, except for the eastern and southeastern parts where it is expected to be normal. Asia Minor is expected to be warmer than normal, while the Balkans and Greece will be well above normal (3-5°C). Regarding the accumulated precipitation Cyprus is expected to be dry without the occurrence of dynamic barometric weather systems (*).



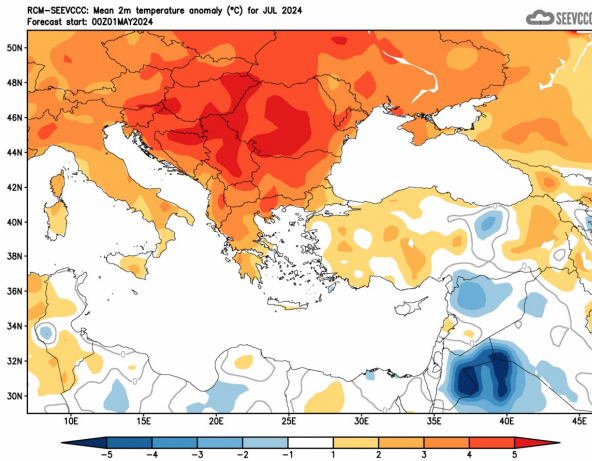
Divergence of the mean monthly temperature (°C) from normal during June



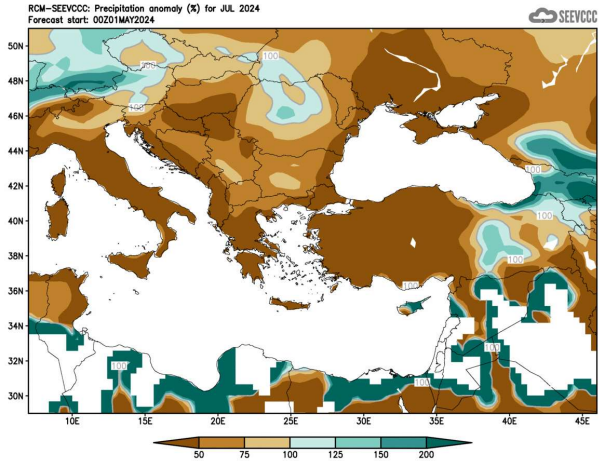
Percentage of the mean monthly precipitation (%) compared with the normal of June

July

The seasonal forecast suggests that **July's** temperature will be normal. The accumulated precipitation over the southern and southwestern parts of the island will be well below normal, while in the inland and the rest of the areas this will be well above normal. Bearing always in mind that the normal accumulation for July is very low especially for the main plain and coastal areas (*). Also, well above normal are expected to be the Balkans and Greece, while dry conditions are expected in general for the neighboring area.



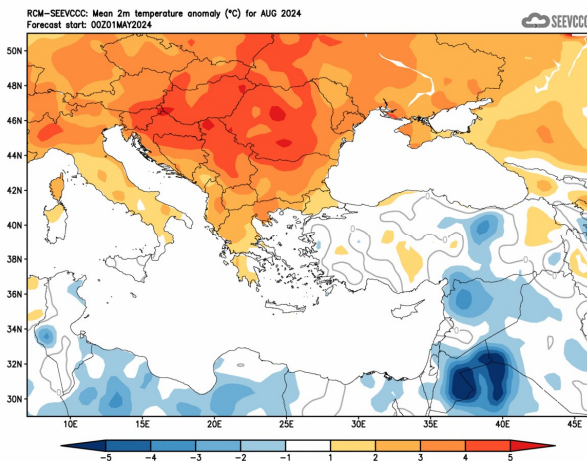
Divergence of the mean monthly temperature (°C) from normal during July



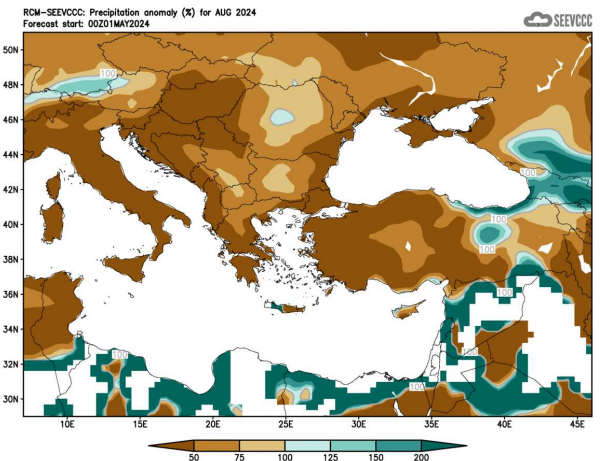
Percentage of the mean monthly precipitation (%) compared with the normal of July

August

The seasonal forecast suggests that **August's** temperature will be normal. The accumulated precipitation is generally expected to be low, with the northwestern coastal areas being the exception of this pattern since the accumulated precipitation over these areas is expected to be normal or even a bit above normal (*). Once again, bear in mind that the normal accumulation for August is very low especially for the main plain areas. The Balkans and Greece are expected to be warmer than normal, while drought is expected for the forementioned areas and Asia Minor, as well.



Divergence of the mean monthly temperature (°C) from normal during August



Percentage of the mean monthly precipitation (%) compared with the normal of August

Normal values of temperature (mean maximum and mean minimum) and accumulated precipitation for June, July and August

The normal values of the mean maximum, the mean minimum temperature and the accumulated precipitation are presented below concerning the three months the period of forecast is covering, in order to gain a better view of the normal seasonal climate. The period of forecast is the transitional summer. The temperature, both the maximum and the minimum, is on the rise with **July's** temperature being significantly higher. Climatologically extreme high temperatures are recorded during **July** and over some areas during **August**. On the other hand, the accumulated precipitation is declining, as presented by the climatological data shown on the table below. Thundery activity is likely during the afternoon hours, mainly inland and over the mountains, which is also noted from the table below. Also, note the cause of the mountainous area of Troodos range over the accumulated precipitation, mainly because of thundery activity, which is affecting primarily the mountainous ranges of the island. The accumulated precipitation over Prodromos station, although declining towards **August**, is always significantly higher if compared to the accumulated precipitation of the other selected stations.

TEMPERATURE AND PRECIPITATION NORMAL VALUES FOR THE PERIOD 1981-2010									
Area Name	MEAN DAILY MAXIMUM TEMPERATURE (°C)			MEAN DAILY MINIMUM TEMPERATURE (°C)			MEAN MONTHLY TOTAL PRECIPITATION (mm)		
	June	July	August	June	July	August	June	July	August
NORTH COAST	30.3	33.4	33.3	18.5	21.1	21.5	1.8	0.1	0.0
WEST COAST*	27.6	29.9	30.5	18.0	20.6	21.1	1.3	0.2	0.0
MOUNTAINOUS AREAS	25.0	27.9	28.0	15.0	18.2	18.1	27.2	16.4	12.0
INLAND*	34.0	37.1	36.9	19.1	22.1	21.9	11.6	4.2	1.8
SOUTH COAST	30.2	32.5	32.9	19.4	22.0	22.3	2.0	0.5	0.3
EAST COAST**	31.0	33.2	33.5	18.9	21.8	22.0	1.8	0.1	0.1

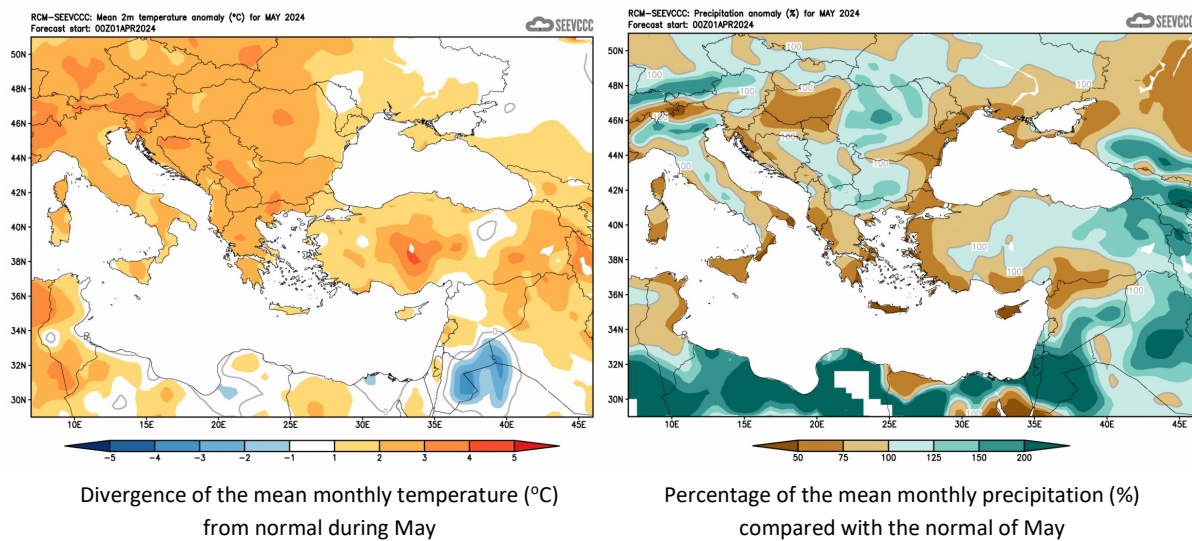
* West Coast and Inland Values cover the period 1983-2010

** East Coast Temperature Values cover the period 1981-2007

Evaluation of May's seasonal forecast for the area of Cyprus

May

May was expected to be by 1 to 2°C warmer than normal across almost the entire island, except in the east where temperatures were expected to be at normal levels. Temperatures above normal for the month were expected over the Balkans, Greece, Turkey and over some areas in the east. In relation to the expected amount of rain this would be below 50% of normal for Cyprus, while somewhat milder dry conditions were expected in the wider neighboring area.



Concerning the models' evaluation for **May**, a general judgment is that it performed relative well regarding the mean monthly temperature. However, regarding the accumulated precipitation the model did not perform well since it underestimated the expected accumulated monthly precipitation amounts.

In a more detailed evaluation of the recorded temperatures, both the mean daily maximum and minimum temperatures (table below) were in some of the stations above normal with the average daily minimum temperature being in some cases up to even 2.9°C above the corresponding normal one. There were also recorded many extreme maximum temperatures with a deviation of more than 4°C from normal. As an example, note the recorded maximum of Polis Chrysochous and of Prodromos stations that were 36°C and 28.5°C respectively, with a normal of 25.8°C and 20.4°C respectively. Concerning the mean daily minimum, note the recorded minimum Paphos' Airport and Prodromos' stations which was 22.2°C and 18.2°C respectively, with the normal temperatures being 14.7°C and 10.8°C respectively for each of the aforementioned stations.

TEMPERATURE AND PRECIPITATION PROVISIONAL DATA FOR MAY 2024

St. No.	Station Name	Mean Daily Maximum Temperature (°C)	Normal Value (1981-2010)	Difference from Normal Value	Highest Daily Maximum Temperature (°C)	Lowest Daily Maximum Temperature (°C)	Mean Daily Minimum Temperature (°C)	Normal Value (1981-2010)	Difference from Normal Value	Lowest Daily Minimum Temperature (°C)	Highest Daily Minimum Temperature (°C)	Monthly Total Precipitation (mm)	Normal Value (1981-2010)	Difference from Normal Value
41	POLIS CHRYSOCHOUS	27.6	25.8	1.8	36.0	22.8	16.8	14.3	2.5	12.3	21.2	8.4	7.6	0.8
82*	PAFOS (AIRPORT)	25.6	24.5	1.1	31.7	22.0	17.6	14.7	2.9	13.5	22.2	11.0	6.1	4.9
225	PRODROMOS (C.F.C.)	21.4	20.4	1.0	28.5	11.6	11.0	10.8	0.2	4.9	18.2	27.5	32.0	-4.5
666*	ATHALASSA (RADIOSONDE)	30.1	29.6	0.5	36.9	20.6	15.5	14.8	0.7	11.6	20.6	19.8	24.6	-4.8
731	LARNAKA (AIRPORT)	27.5	26.4	1.1	31.1	21.7	17.6	15.7	1.9	13.0	23.2	16.2	9.8	6.4
800**	ACHNA (DASAKI)	28.0	27.4	0.6	32.1	22.1	16.2	14.9	1.3	11.6	20.6	7.1	10.7	-3.6

* Pafos' and Athalassa's Station Normal Values cover the period 1983-2010

** Achna's Temperature Normal Values cover the period 1981-2007

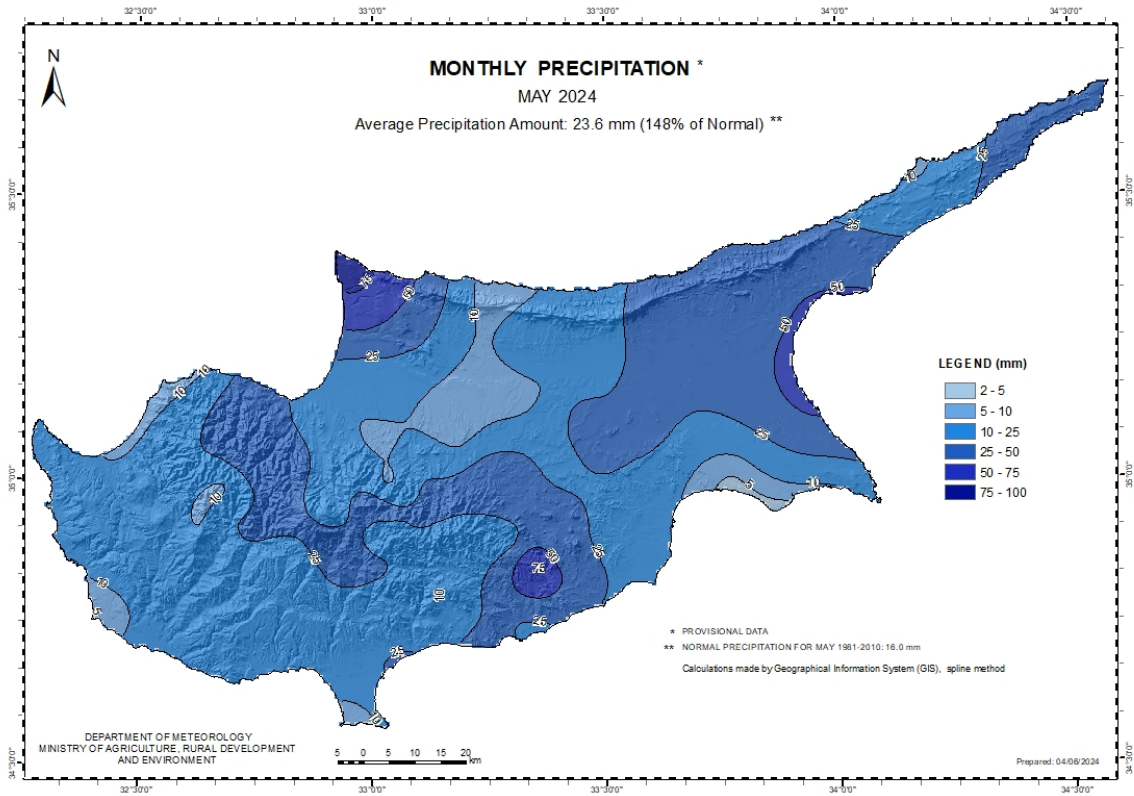
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From the distribution of the accumulated precipitation of May, as is shown in the provisional chart that follows, is evident that the surface distribution was well above normal reaching 23.6mm or 148% of normal, something that shows us the uncertainty of the seasonal forecast model which must always be taken into account with a reserve.

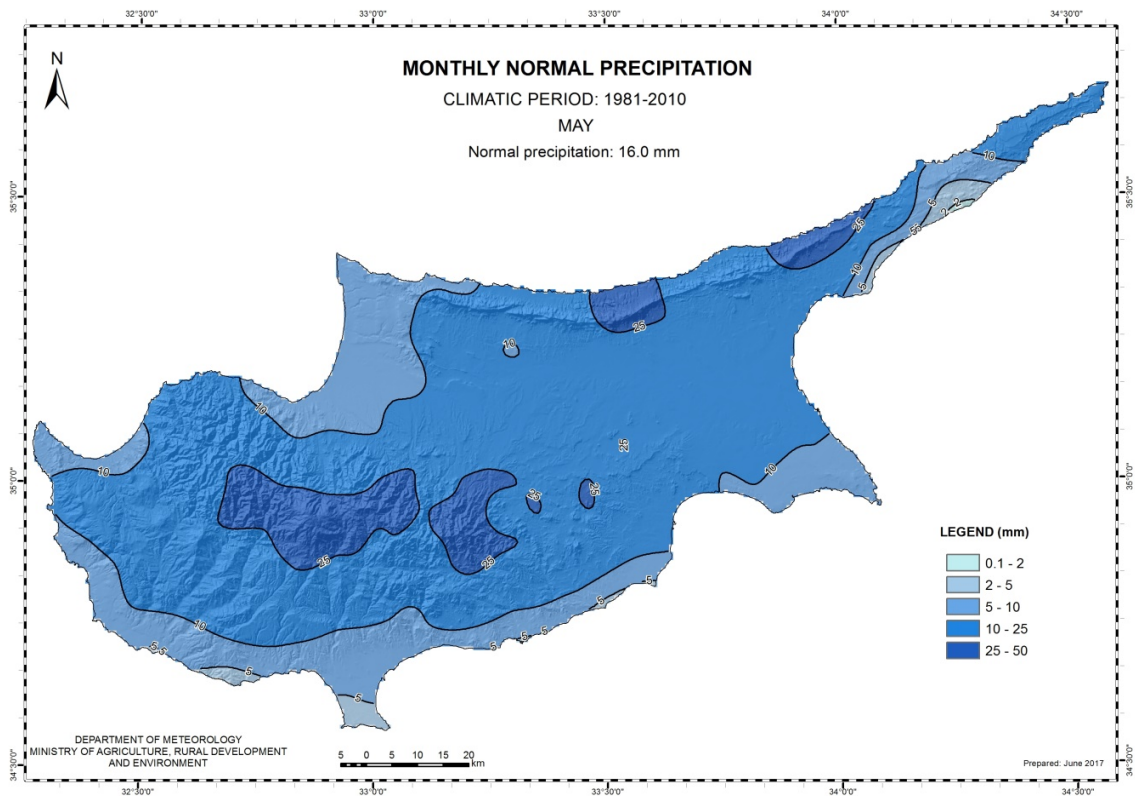
For the periods 1st, 4-6th, 12th and 15th of **May** local showers accompanied sometimes with thunderstorms, were recorded, while there was no report for hail.

Also, on the 5th of **May** EMMA yellow warning was issued concerning thunderstorms.

For the purpose of better visualization of **May** accumulated precipitation, a chart of Cyprus with the total preliminary accumulated precipitation is presented.



A Cyprus chart with the normal (period 1981 to 2010) accumulated precipitation for the month of **May** is also presented.



(*) It is stated that due to the uncertainty of the seasonal model to correctly forecast the expected precipitation (sometimes) the seasonal forecast for precipitation is given with a reserve.