

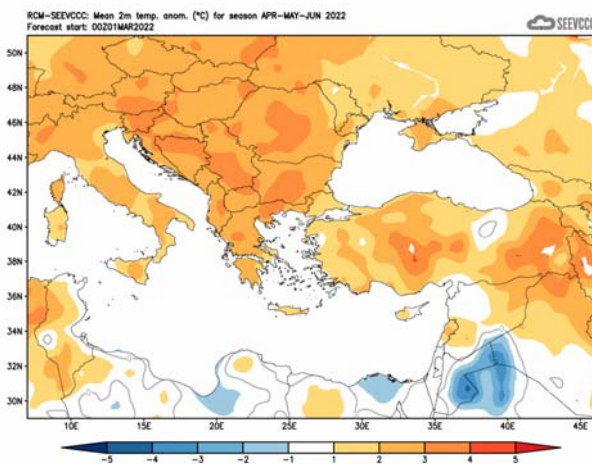
Seasonal weather forecast for the months of

April, May and June 2022

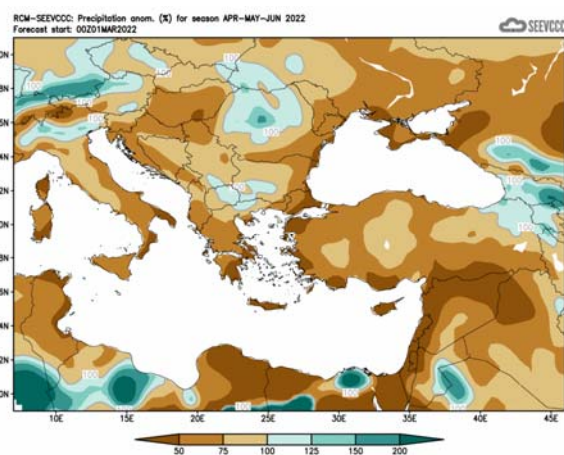
General overview of the weather expected to prevail for April, May and June.

The weather for the following three months period, namely **April, May and June 2022**, will be presented, with respect to the anomalies of temperature, and accumulated precipitation. In general, the normal temperatures (both maximum and minimum), are on the rise. The accumulated precipitation starts declining, since barometric systems over the area resulting in from dynamic causes, are not frequent and are getting progressively rare during the period in focus. The period of the following three months is likely to be characterized from thermal instability, with outbreaks of thunderstorms, initiated from dynamic (rarely) and/or thermal (mainly) causes, mainly during afternoon hours. Dust episodes are also likely during the first two month of the period. From historical data, **April** contributes only with a couple of snow days to the total snow day's number of the hydrological year.

Specifically, regarding the seasonal forecast for the period **April, May and June 2022**, the temperature will be normal at the east part of the island, whereas at the west part of the island will be above normal (normal to above normal temperature characterizes the surrounding area). The amount of the accumulated precipitation over Cyprus is expected to range generally below 50% of normal (*).



Divergence of temperature from normal from the mean seasonal temperature ($^{\circ}\text{C}$) for April, May and June

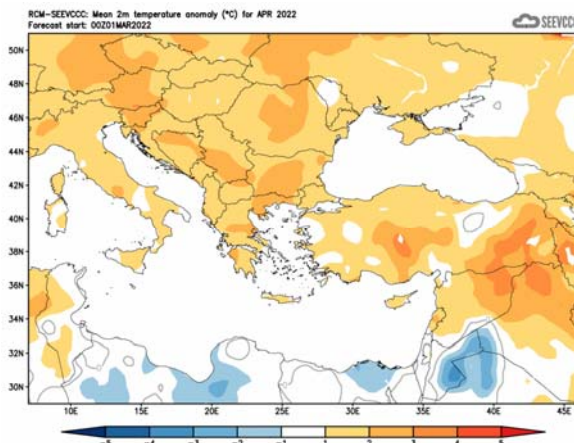


Percentage (%) of the mean seasonal accumulated precipitation compared to the mean normal for April, May and June

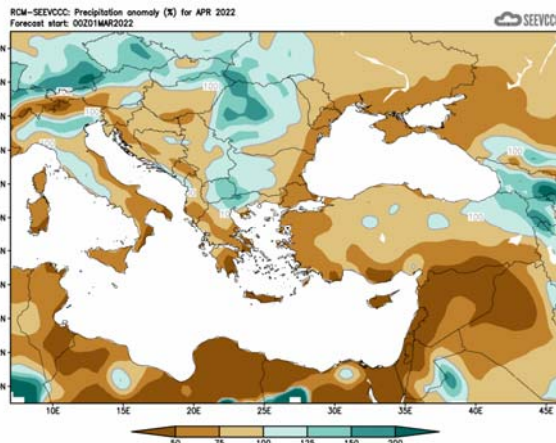
The seasonal monthly forecast in detail

April

The seasonal forecast suggests that **April's** temperature will be above normal. Regarding the accumulated precipitation Cyprus is expected to be again in a dry zone extending from the Southern Balkans towards Near and Middle East. Thus, the accumulated precipitation is expected to range below 50% of normal all over the island (*).



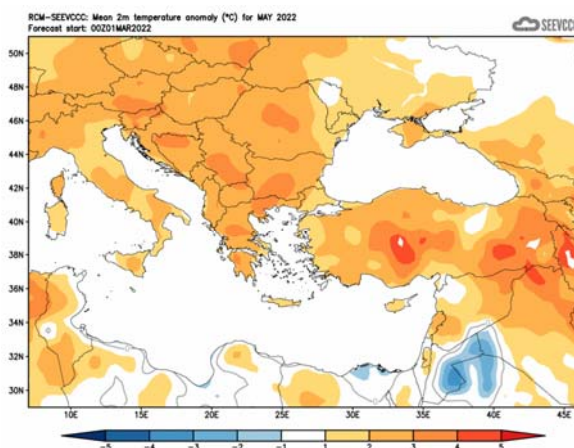
Divergence of the mean monthly temperature (°C) from normal during April



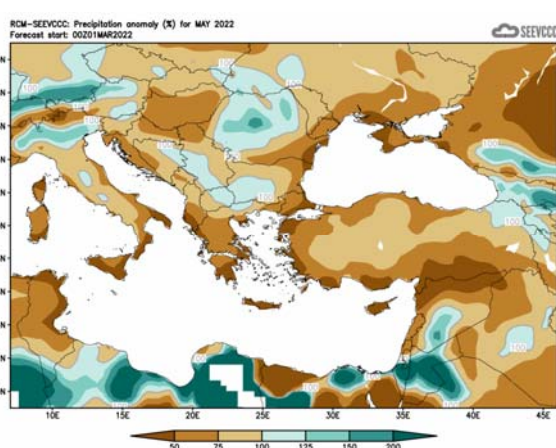
Percentage of the mean monthly precipitation (%) compared with the normal of April

May

The seasonal forecast suggests that **May's** temperature will be above normal. Regarding the accumulated precipitation Cyprus is expected to be again in a dry zone extending from the Southern Balkans towards Near and Middle East. So, the accumulated precipitation is expected to range again below 50% almost all over the island, said that the normal accumulated precipitation of May is not contributing significantly to the total precipitation amount of the island (*).



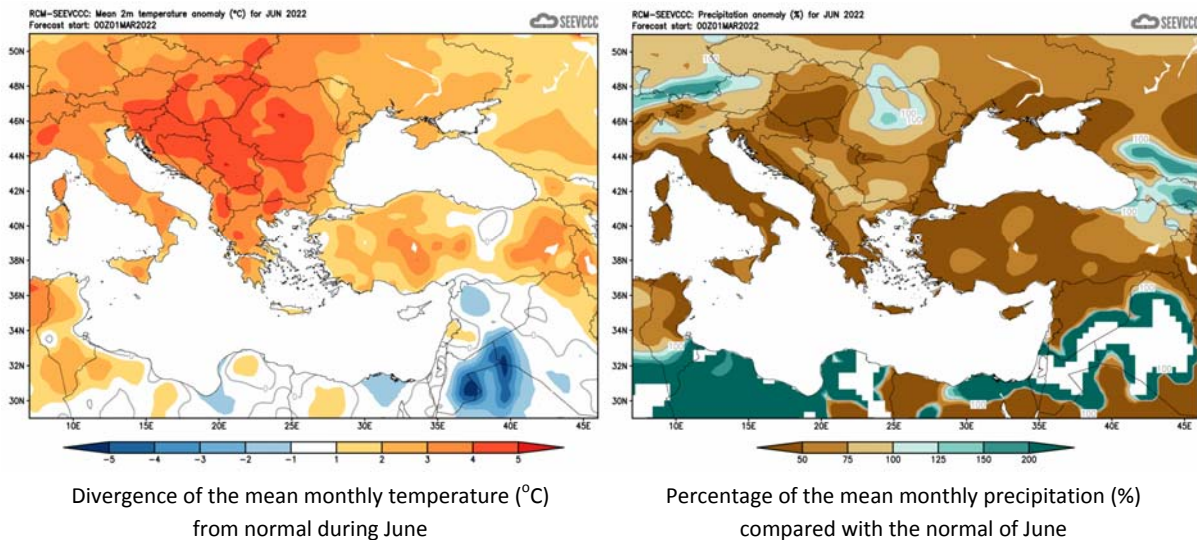
Divergence of the mean monthly temperature (°C) from normal during May



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

June

The seasonal forecast suggests that **June's** temperature will be generally normal. Regarding the accumulated precipitation Cyprus is expected to be again dry with the accumulated precipitation below 50% (*).



Normal values of temperature and accumulated precipitation for April, May and June

The normal values of mean maximum, mean minimum temperature and accumulated precipitation are presented below concerning the three months of 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 period in which the atmosphere switches from its winter pattern to the summer one. The temperature, both maximum and minimum, is on the rise with **June's** temperature significantly higher than **April's** temperature.

On the other hand, the accumulated precipitation is declining, as presented by the climatological data shown on the table below. During **April** the accumulated precipitation notes a significant decline (if compared to **March** - not shown) which suggests that the frequency of the approaching barometric lows declines significantly if not vanish. A further decline of the accumulated precipitation is observed on **May** and **June**.

April, May and **June** are climatologically suggested to be unstable months with thundery activity initiated mainly by thermal causes. From the table below, note also the effect of the mountainous area of Troodos range over the accumulated precipitation, mainly as a result of thundery activity which is affecting primarily the mountainous ranges of the island. The accumulated precipitation over Prodromos station although declining towards May 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)		
	April	May	June	April	May	June	April	May	June
NORTH COAST	21.6	25.8	30.3	10.8	14.3	18.5	21.8	7.6	1.8
WEST COAST*	21.5	24.5	27.6	11.5	14.7	18.0	15.2	6.1	1.3
MOUNTAINOUS AREAS	15.5	20.4	25.0	6.6	10.8	15.0	47.2	32.0	27.2
INLAND*	24.4	29.6	34.0	10.4	14.8	19.1	19.1	24.6	11.6
SOUTH COAST	22.7	26.4	30.2	11.8	15.7	19.4	14.2	9.8	2.0
EAST COAST**	23.2	27.4	31.0	10.9	14.9	18.9	19.7	10.7	1.8

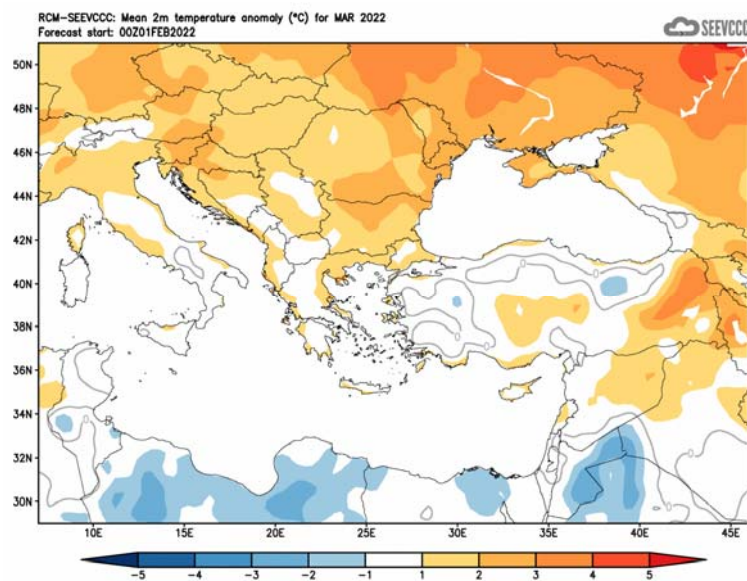
* West Coast and Inland Values cover the period 1983-2010

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

Evaluation of March seasonal forecast for the area of Cyprus

The seasonal forecast suggested that **March's** temperature would be normal, except in the coastal areas that it seemed that it would be slightly above normal.

The report of the seasonal forecast for the accumulated precipitation had't been commented on, as there were frequent failures in the forecast.



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

Concerning the model's evaluation for **March**, a general judgment is that the model performed bad concerning temperature.

The seasonal forecast for **March** suggested that temperature would be normal except in the coastal areas that it seemed that it would be slightly above normal. From the recorded data is shown that most of the mean daily maximum and mean daily minimum temperatures were well below normal.

Extremes (deviating by 4°C or more from normal) were recorded at most of the selected meteorological stations. As an example, note the recorded maximum of Athalassa that was 25.4°C (with a normal of 19.2°C) and the maximum of Prodromos that was 17.5°C (with a normal of 10.4°C). Concerning the mean daily minimum temperatures note the recorded minimum of Prodromos that was -7.6°C (with a normal of 2.8°C) and the minimum of Athalassa that was -1.4°C (with a normal of 6.9°C).

From the distribution (provisional accumulated precipitation chart) of the accumulated precipitation of **March** is evident that the surface distribution was below normal reaching 38.4mm (78% of normal).

For the periods 1-5, 7-14, 17-18 and 21-25 of **March** local showers, accompanied with thunderstorms most of the times, were recorded. It is worth mentioning that between 2-3, 10th και 19th of **March** hail was reported.

Based on the provisional data, snowfall was recorded during 2-3, 8-14, 17-18 and 20-24 of **March**.

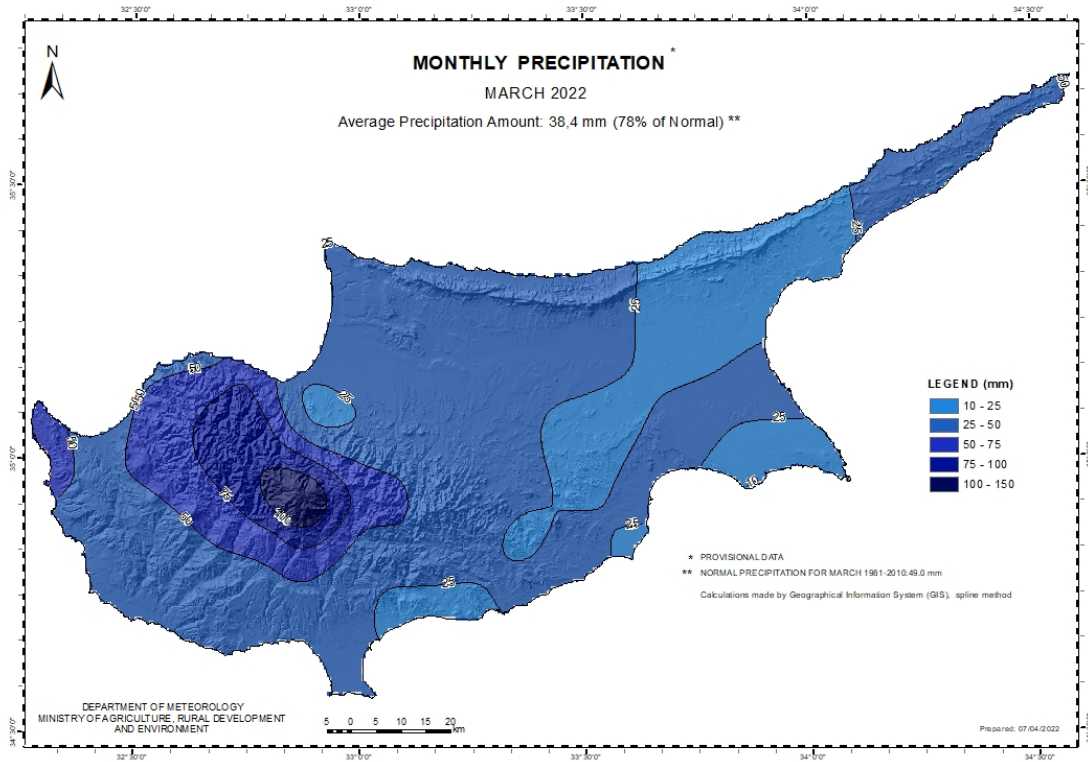
During the periods 2-3 and 10-12 of **March** EMMA yellow warnings were issued concerning wind and low temperatures.

TEMPERATURE AND PRECIPITATION PROVISIONAL DATA FOR MARCH 2022														
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	17,3	18,3	-1,0	22,7	9,9	7,4	8,3	-0,9	2,5	13,3	42,1
82*	PAFOS (AIRPORT)	16,9	18,6	-1,7	21,5	12,2	8,1	8,9	-0,8	2,4	13,3	42,9	34,4	8,5
225	PRODROMOS (C.F.C.)	6,1	10,4	-4,3	17,5	-2,7	-1,0	2,8	-3,8	-7,6	7,5	110,6	92,1	18,5
666*	ATHALASSA (RADIOSONDE)	15,9	19,2	-3,3	25,4	6,8	3,9	6,9	-3,0	-1,4	11,2	25,4	31,9	-6,5
731	LARNAKA (AIRPORT)	17,0	19,3	-2,3	23,0	11,5	6,6	8,6	-2,0	0,9	14,5	35,1	35,8	-0,7
800**	ACHNA (DASAKI)	15,8	19,1	-3,3	24,4	9,1	4,4	7,8	-3,4	-0,5	12,1	26,8	35,2	-8,4

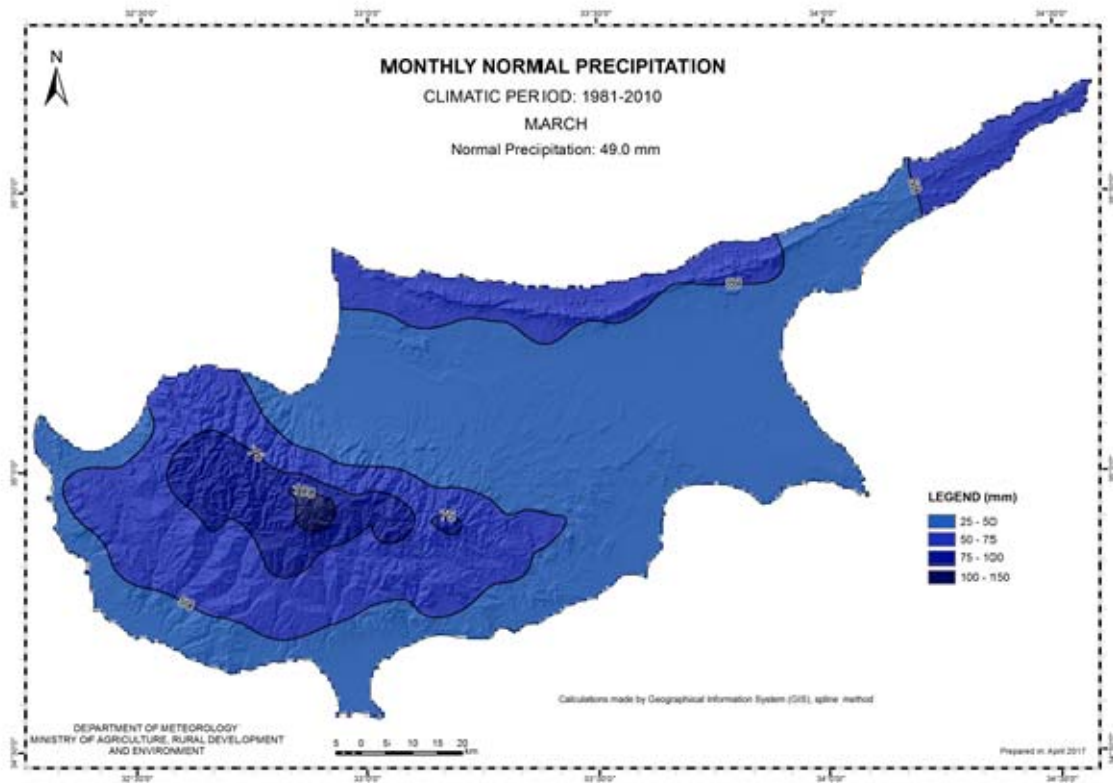
* Pafos' and Athalassa's Station Normal Values cover the period 1983-2010
** Achna's Temperature Normal Values cover the period 1981-2007

= VALUES FROM AUTOMATIC WEATHER STATION

For the purpose of better visualization of **March** 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 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.