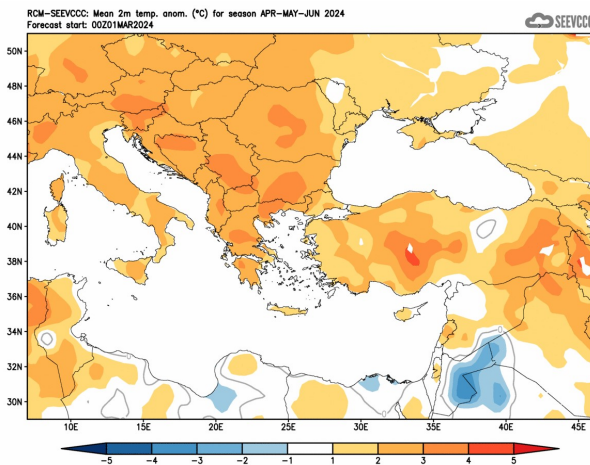


## Seasonal weather forecast for the months April, May and June 2024

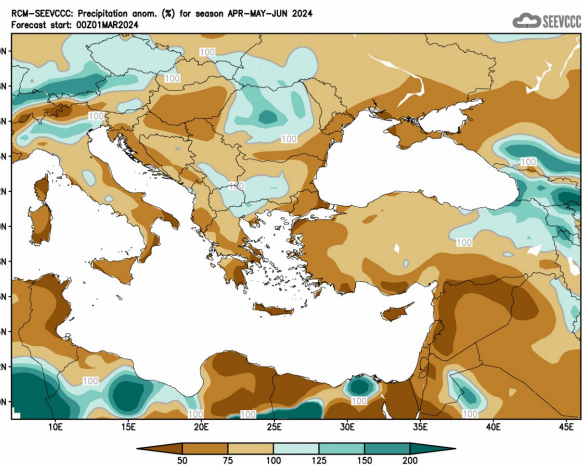
### General overview of the weather expected to prevail for April, May and June

The weather for the following three months period, namely **April, May and June 2024**, will be presented, with respect to the anomalies of temperature and accumulated precipitation. In general, the normal temperatures (both the maximum and the 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 months of the period. From historical data, **April** contributes only with a couple of snow days to the total snow days' number of the hydrological year.

Specifically, regarding the seasonal forecast for the period **April, May and June 2024**, the temperature will be above normal for most of the island by 1 to 2°C, while normal temperatures are expected for the easternmost part of the island. It is also worth mentioning that the surrounding area will be characterized by temperatures of 1 to 3°C above normal. The expected amount of the accumulated precipitation for the island is expected to be quite disappointing as it does not appear to exceed 50% of normal. The wider region of the Balkans, Greece, Asia Minor and Near and Middle East is also expected to have a low accumulated amount of precipitation, which is expected to range between 50% and 75% of normal for the season (\*). Therefore, both Cyprus and the wider Eastern Mediterranean region are expected to have, for the period of forecast i.e. April, May and June 2024, quite disappointing accumulated precipitation amounts.



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

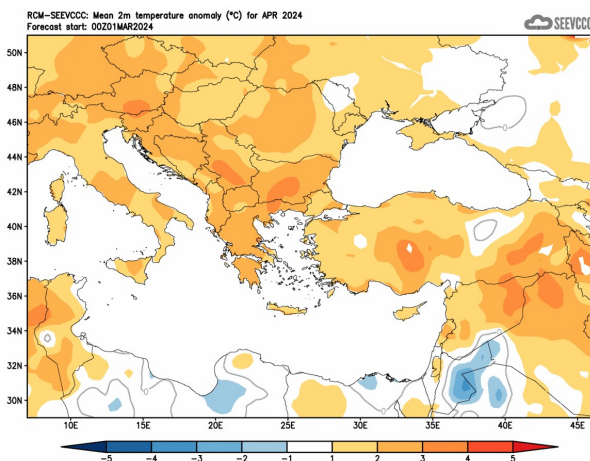


Percentage (%) of the mean seasonal accumulated precipitation compared to the mean normal for April, May, and June

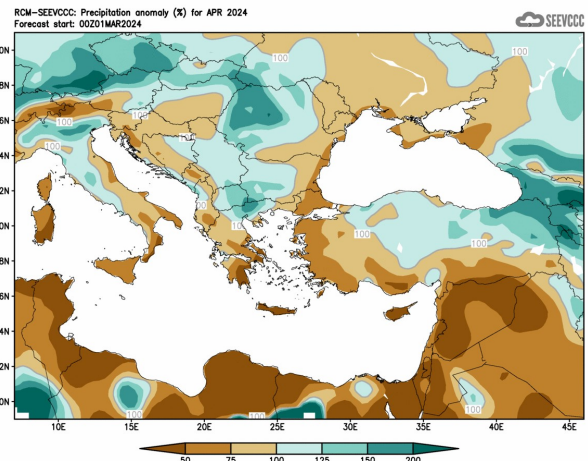
## The seasonal monthly forecast in detail

### April

The seasonal forecast suggests that **April's** temperature will be above normal, by 1 to 2 °C, as is the wider surrounding areas as well. Regarding the accumulated precipitation this is disappointing since it is expected to range below 50% of the normal amount across the island. It looks like Greece, a large part of Asia Minor and the Near and Middle East will also have low accumulated precipitation amounts (\*).



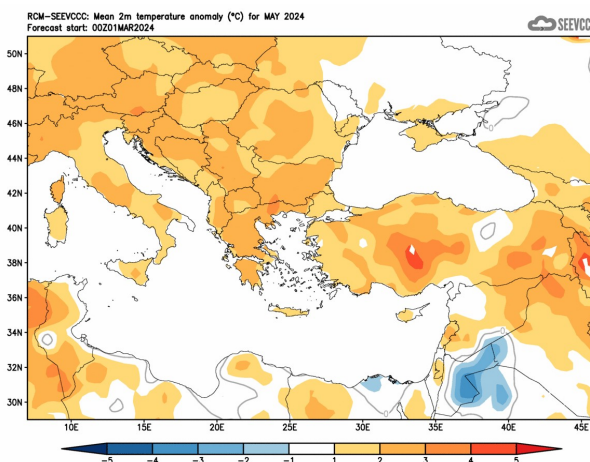
Divergence of the mean monthly temperature (°C) from normal during April



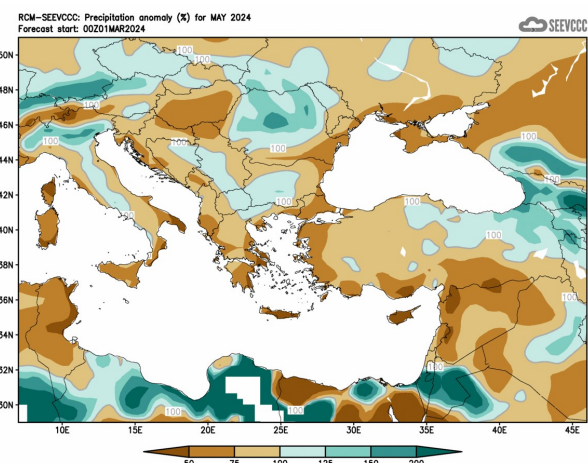
Percentage of the mean monthly precipitation (%) compared with the normal of April

### May

The seasonal forecast suggests that **May's** temperature will be generally above normal, as is the wider surrounding area. Regarding the accumulated precipitation amount, this remains disappointing since it is expected to range below 50% of the normal amount throughout the island. Areas of the Balkans, Greece, Asia Minor and the neighboring Near and Middle East are expected to have higher accumulated precipitation amounts than Cyprus, meaning that the percentage of the cumulative precipitation for these areas will be greater the 50% of normal. However, in relation to Cyprus, it is worth mentioning that May does not contribute significantly to the precipitation balance (\*).



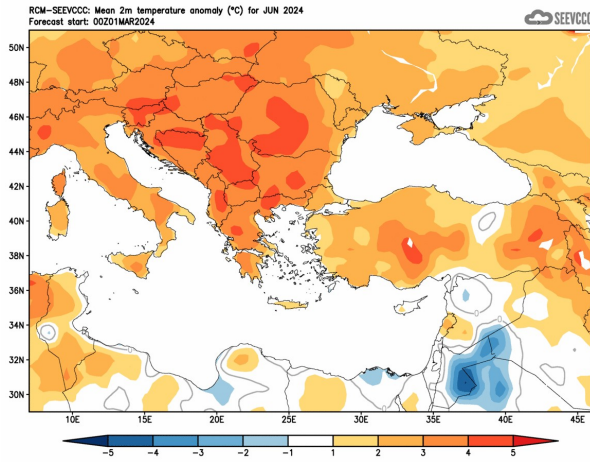
Divergence of the mean monthly temperature (°C) from normal during May



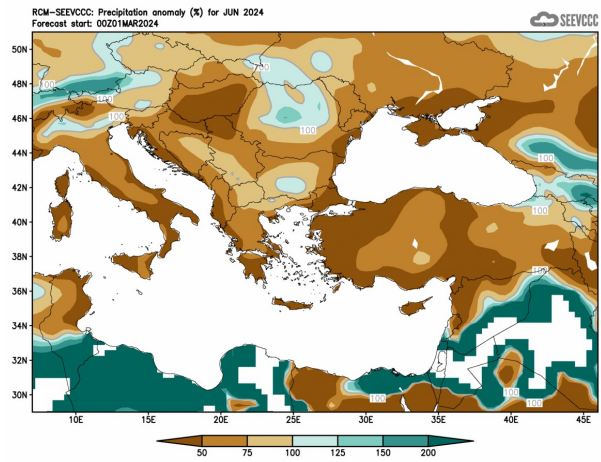
Percentage of the mean monthly precipitation (%) compared with the normal of May

## June

Although **June** is expected to be normal in terms of temperature, however, in relation to the expected accumulated precipitation is expected to be quite disappointing, since the expected amount of precipitation seems to be below 50% of normal throughout the island. The wider neighboring area is expected to be considerably warmer than normal, with positive deviations of the order of 2 to 4°C, while showing similar dry characteristics as Cyprus (\*).



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



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

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

The normal values of the mean maximum, the mean minimum temperature and the accumulated precipitation concerning the three months of the period which the forecast is covering are presented below, 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. Temperature, both the maximum and the minimum, is on the rise with **June's** temperature being 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 in **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, also note the effect 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 Prodomos 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

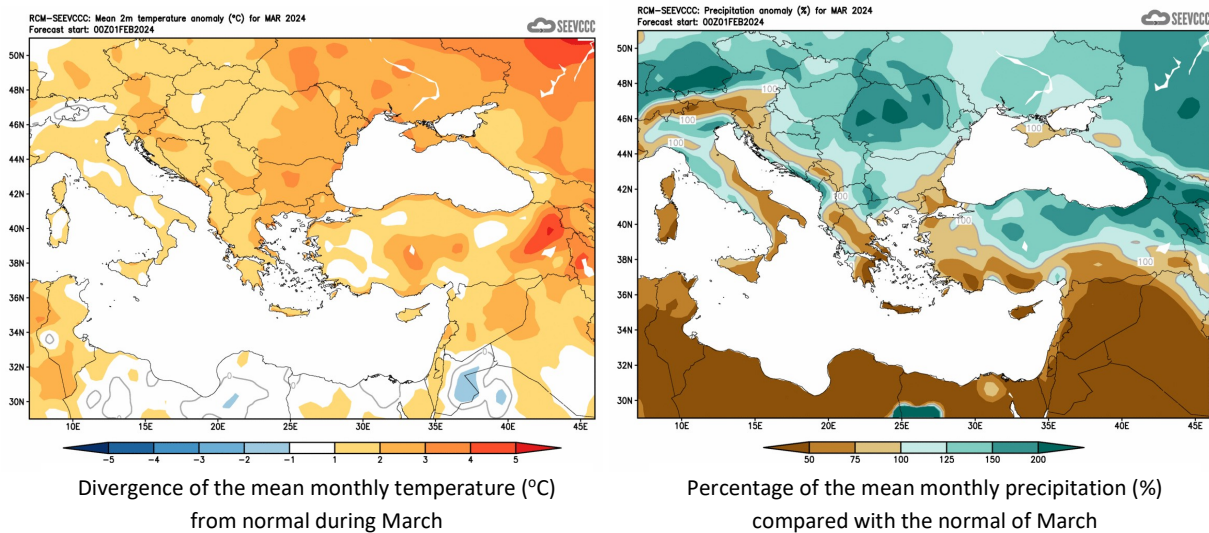
\* West Coast and Inland Values cover the period 1983-2010

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



## Evaluation of March's seasonal forecast for the area of Cyprus

The seasonal forecast suggested that **March's** temperature would be above normal by 1 to 2°C. Regarding the accumulated precipitation this was expected that it would have been disappointing since it was expected to be below 50% of normal for the entire island. Similar characteristics would apply for the surrounding area, as well.



Concerning the model's evaluation for **March**, a general judgment is that the model did not perform well enough in relation to temperature.

The seasonal forecast for **March** suggested that temperature would be above normal, by 1 to 2°C. However, from the recorded data is shown that March ended up being even warmer, by 2.3 to 3.2°C than normal.

TEMPERATURE AND PRECIPITATION PROVISIONAL DATA FOR MARCH 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	21.4	18.3	3.1	28.0	18.2	10.6	8.3	2.3	6.6	15.4	11.4
82*	PAFOS (AIRPORT)	20.9	18.6	2.3	26.7	19.0	12.1	8.9	3.2	8.7	16.9	8.4	34.4	-26.0
225	PRODROMOS (C.F.C.)	12.7	10.4	2.3	23.0	6.2	4.1	2.8	1.3	-0.8	12.2	43.7	92.1	-48.4
666*	ATHALASSA (RADIOSONDE)	22.0	19.3	2.7	31.3	17.8	8.2	7.0	1.2	4.1	13.6	54.5	31.9	22.6
731	LARNAKA (AIRPORT)	22.2	19.3	2.9	29.3	18.6	11.0	8.6	2.4	6.7	18.3	13.8	35.8	-22.0
800**	ACHNA (DASAKI)	22.2	19.0	3.2	31.8	19.4	10.0	7.8	2.2	5.5	17.0	30.3	35.2	-4.9

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

☁ dew

Extremes (deviating by 4°C or more from normal) were recorded at all the selected meteorological stations. As an example, note the recorded maximum of Achna that was 31.8°C (with a normal of 19.1°C)

and the maximum temperature of Prodromos that was 23°C (with a normal of 10.4°C). Concerning the mean daily minimum temperatures, note the recorded minimum of Larnaka that was 18.3°C (with a normal of 8.6°C) and the minimum temperature of Prodromos that was 12.2°C (with a normal of 2.8°C).

From the distribution (provisional accumulated precipitation chart) of the accumulated precipitation of **March** is evident that the surface distribution was well below normal, reaching 22.3mm (46% of normal). A cumulative precipitation rate that the seasonal model estimated very well.

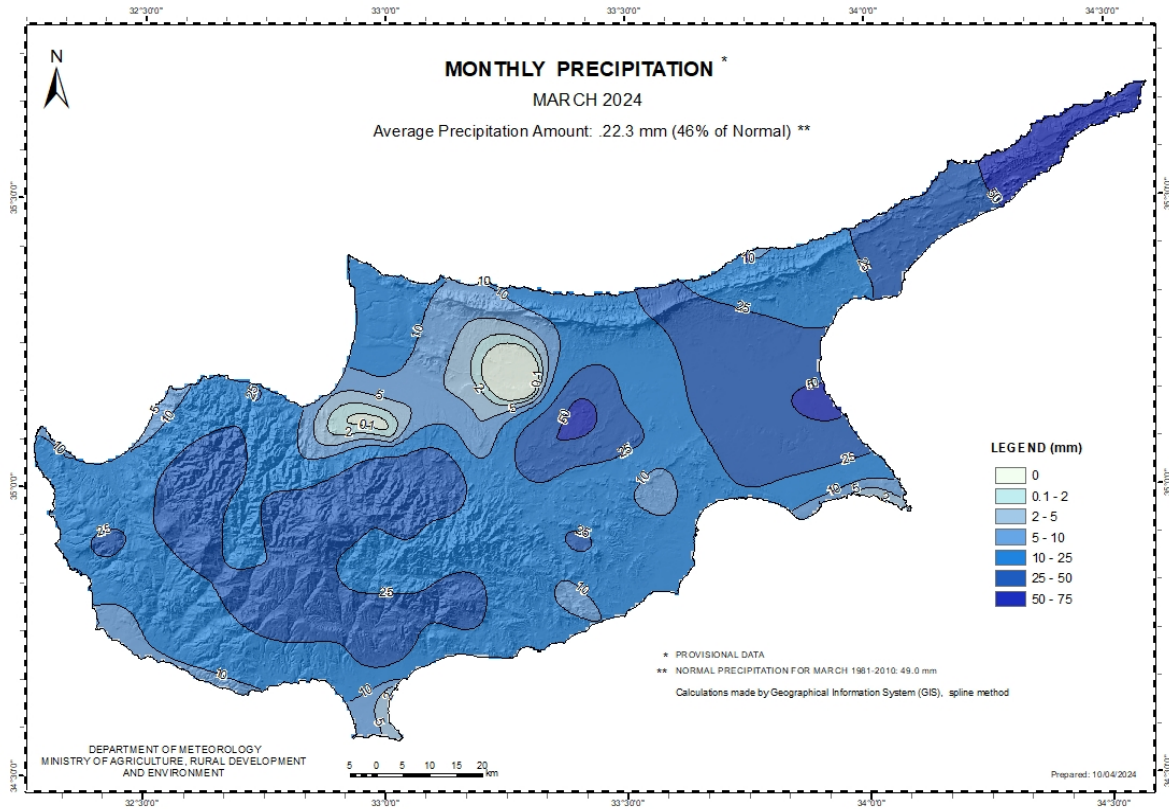
For the periods 2-11, 14-22, 25 and 27 of **March** local showers, accompanied with thunderstorms most of the time, were recorded.

It is worth mentioning that on the 18<sup>th</sup> of **March** hail was reported. In fact, the amount of hail that occurred on that particular day was particularly high for the time period in which it occurred, which is classified as an extreme phenomenon for the island.

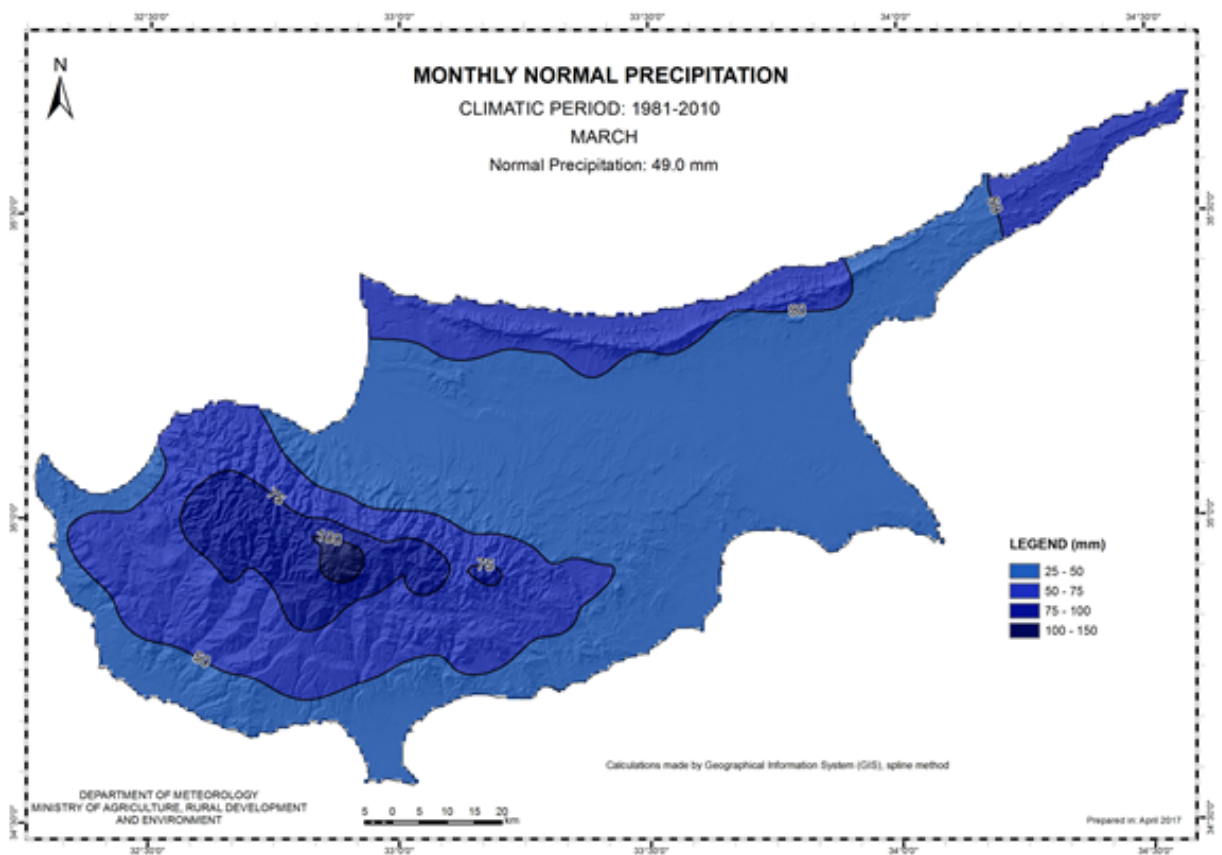
Based on the provisional data, snowfall was recorded on the 15<sup>th</sup> of **March**.

During the periods 18<sup>th</sup> and 20<sup>th</sup> of **March** EMMA yellow warnings were issued concerning thunderstorms.

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.