

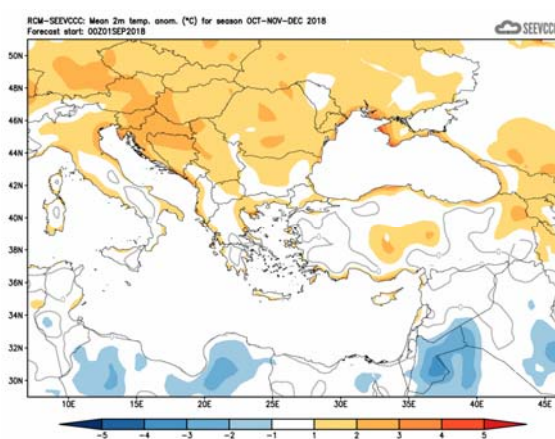
Seasonal weather forecast for the months of October, November and December 2018

General over view of the weather expected to prevail during October, November and December.

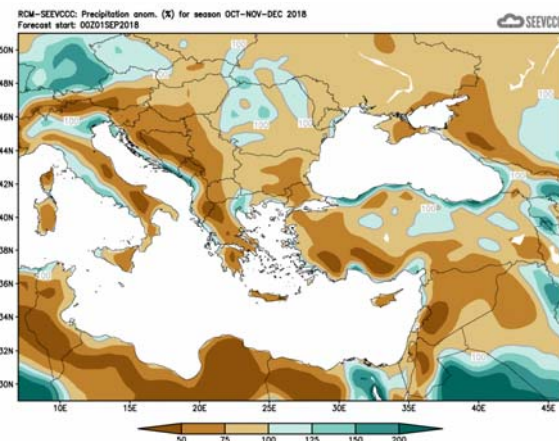
The weather for the following three months, namely **October, November** and **December 2018**, will be presented, with respect to the anomalies of temperature, and accumulated precipitation.

During the period in focus normal temperatures (both maximum and minimum) are significantly declining. The accumulated precipitation is increasing at accumulations almost double the accumulations of the previous month, since during the period the frequency of baroclinic depressions affecting the area is increasing significantly, resulting in higher accumulated precipitation amounts. From historical data **November** may initiate over the highest peaks of Troodos the snow fall period of the year, as a result of cold invasions associated with depressions affecting the area of the East Mediterranean.

Specifically, regarding the seasonal forecast for the period of **October, November** and **December 2018**, the temperature is expected to be normal and slightly higher than normal. Normal temperature characterizes also the greater part of Asia Minor, the Balkans and Near and Middle East. The amount of the accumulated precipitation is expected to range generally from 50% to 75% of normal, while over the west and north areas is expected to range generally from 75% of normal to normal. As it is generally viewed from the charts the coastal zone of the wider area will experience some higher than normal rainfall accumulations.



Divergence of temperature from normal from the mean seasonal temperature (°C) for October, November and December

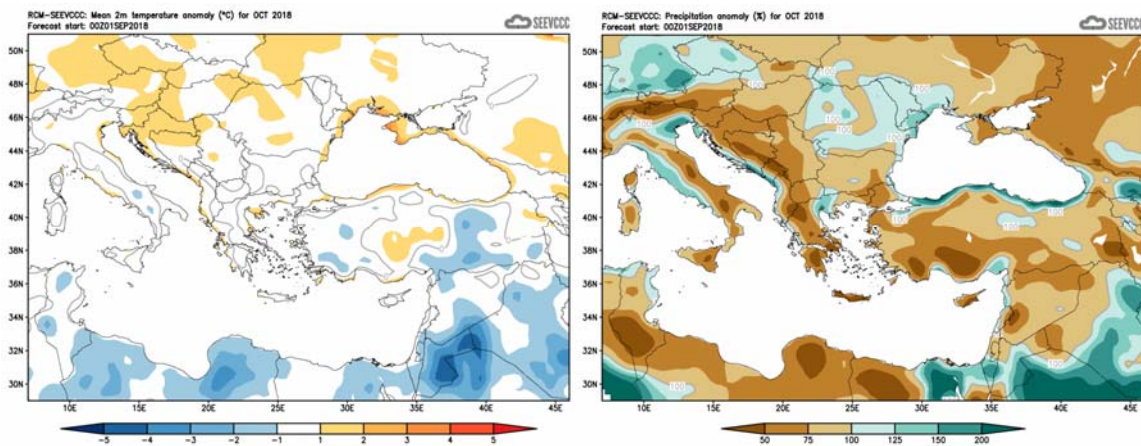


Percentage (%) of the mean seasonal accumulated precipitation compared to the mean normal for October, November and December

The seasonal monthly forecast in detail

Seasonal forecast in detail

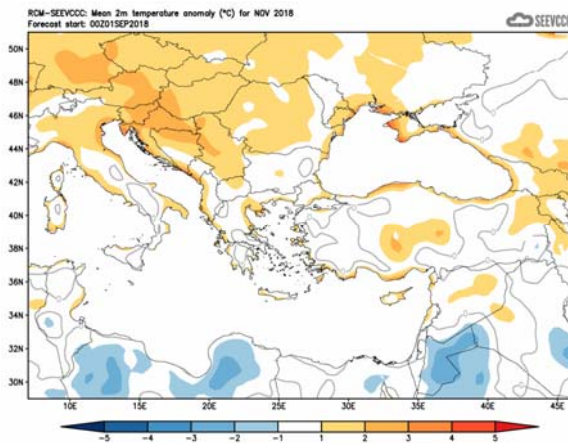
The seasonal forecast suggests that **October's** temperature will be generally normal just like the greater area. Regarding the accumulated precipitation, the southern and eastern areas will be below 50% of normal, while the rest of the areas will range between 50% and 75% of normal. The coastal surrounding zone of the eastern Mediterranean is expected to have similar conditions except Egypt and Israel.



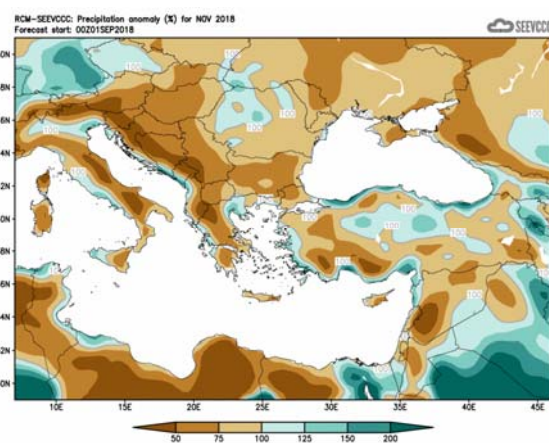
Divergence of the mean monthly temperature ($^{\circ}\text{C}$)
from normal during October

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

The seasonal forecast for **November** suggests that temperature will be generally normal, except the temperature over the coastal areas that it will be slightly higher than normal. The accumulated precipitation for Cyprus will range over south and east part between 50% and 75% of normal, while over the rest of the areas precipitation will range between 75% and 100%. Over northwest areas the precipitation is expected to reach 125% of normal. The coastal zone of the surrounding area will receive again relatively high precipitation accumulation.

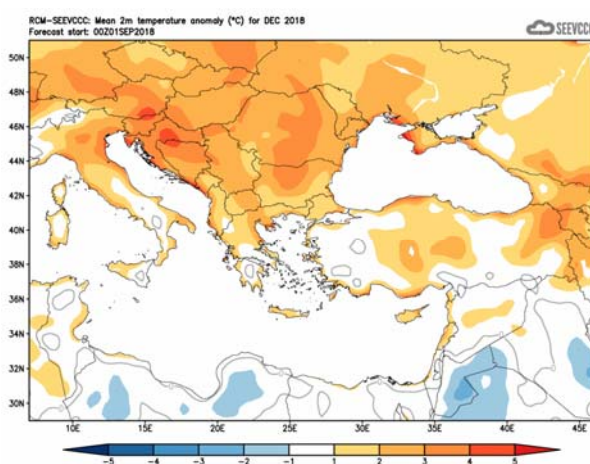


Divergence of the mean monthly temperature (°C) from normal during November

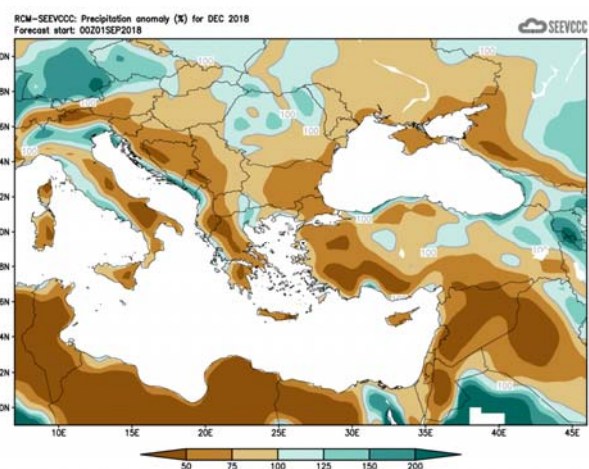


Percentage of the mean monthly precipitation (%) compared with the normal of November

The seasonal forecast for **December** suggests that temperature will be slightly above normal (by 1°C to 2°C). The amount of the accumulated precipitation is expected to range generally between 50% to 75% of normal all over the island, while over the south and east areas is expected to range below 50% of normal. As it is generally viewed from the charts the coastal zone of the wider area will experience some higher than normal rainfall accumulations only over some coastal areas.



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



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

Normal values of temperature (mean maximum and mean minimum) and accumulated precipitation for October, November and December 2018

The normal values of mean maximum, mean minimum temperature and 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 temperature, both maximum and minimum, is on the fall suggesting **December** as the coldest month of the period. On the other hand the accumulated precipitation is increasing significantly towards **December**, as presented by the climatological data shown on the table below. It is worth noting that the score of the accumulated precipitation is almost double every next month for each station if compared to the score of the previous month, and this as a result of the reoccurrence/redeveloping of depressions over the area of the east Mediterranean.

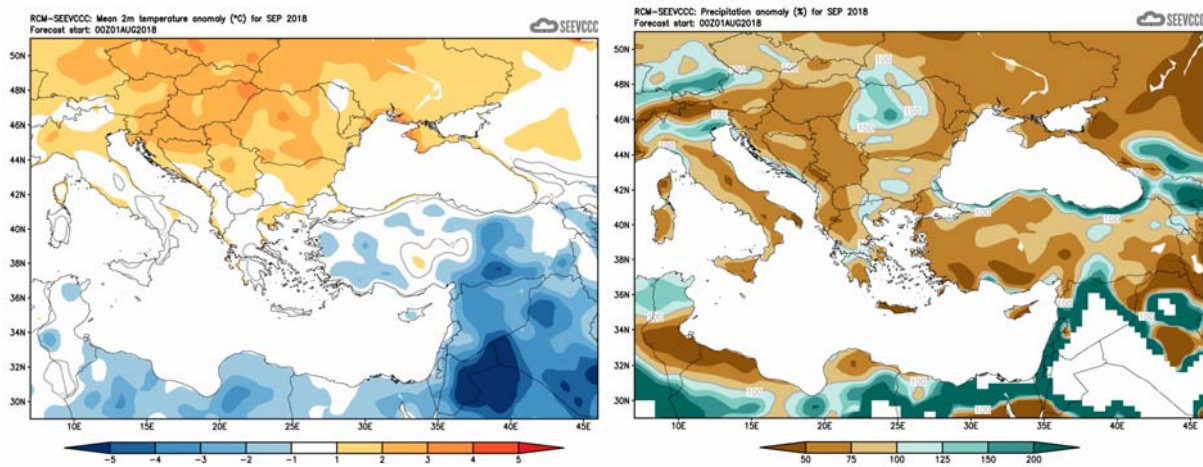
TEMPERATURE AND PRECIPITATION NORMAL VALUES FOR THE PERIOD 1981-2010									
Area Name	MEAN DAILY MAXIMUM TEMPERATURE (°C)			MEAN DAILY MINIMUM TEMPERATURE (°C)			MEAN MONTHLY TOTAL PRECIPITATION (mm)		
	October	November	December	October	November	December	October	November	December
NORTH COAST	26.4	21.7	18.0	16.1	12.2	9.3	30.3	58.6	93.6
WEST COAST*	26.4	22.4	18.9	16.4	12.9	10.0	27.4	52.6	90.1
MOUNTAINOUS AREAS	19.2	12.8	8.3	10.9	6.1	2.6	34.4	93.8	157.3
INLAND*	28.4	22.1	17.3	15.2	10.4	7.0	20.7	43.2	57.2
SOUTH COAST	27.8	22.6	18.6	16.7	12.4	9.2	16.0	46.8	79.0
EAST COAST**	28.5	22.4	18.0	16.7	11.8	8.3	19.9	44.0	76.8

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

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

Evaluation of Septembers seasonal forecast for the area of Cyprus

The seasonal forecast suggested that **September's** temperature would be generally normal, except inland where the temperature would be below normal, by 1 to 2°C. The lower than normal temperature was also a characteristic of the area of Asia Minor and Near and Middle East. The amount of the accumulated precipitation would reach 50% of normal over the east and south, it would range between 50% and 100% of normal over northern part and mountainous areas and in some northwestern areas would reach 125% of normal.



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

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

Concerning the models evaluation for **September** a general judgment is that the model did not perform well concerning both the temperature and the amount of accumulated precipitation. All the mean daily maximum and daily minimum temperatures were above normal.

Extremes were recorded with positive departures greater than 4°C, like Prodromos station where the highest daily maximum temperature (32.3°C) was 7.7°C greater than normal (24.6°C) and Athalassa station, where the highest daily maximum temperature (41.4°C) was 7.8°C greater than normal (33.6°C). The highest daily maximum temperature for Athalassa (41.4°C) was the highest daily maximum temperature for September during 1983-2018.

Daily minimum temperatures were also recorded, with negative departure greater than 4°C below normal at Prodromos station, where a minimum of 10.2°C was 4.7°C below station's normal (14.9°C).

It is worth mentioning that EMMA warnings for high temperatures were issued concerning the dates 2, 3 and 4 of September.

From the provisional data recorded by the Department of Meteorology the model did not perform well over the amount of the accumulated precipitation, as the actual accumulated precipitation was much more above the expected. During the periods 7-11, 15-16, on the 20th, 29th and 30th of **September** episodes of thundery activity and showers resulted in accumulated precipitation of 262% of normal. Prodromos station reported 88.2mm, which was the highest monthly total precipitation for September during 1958-2018.

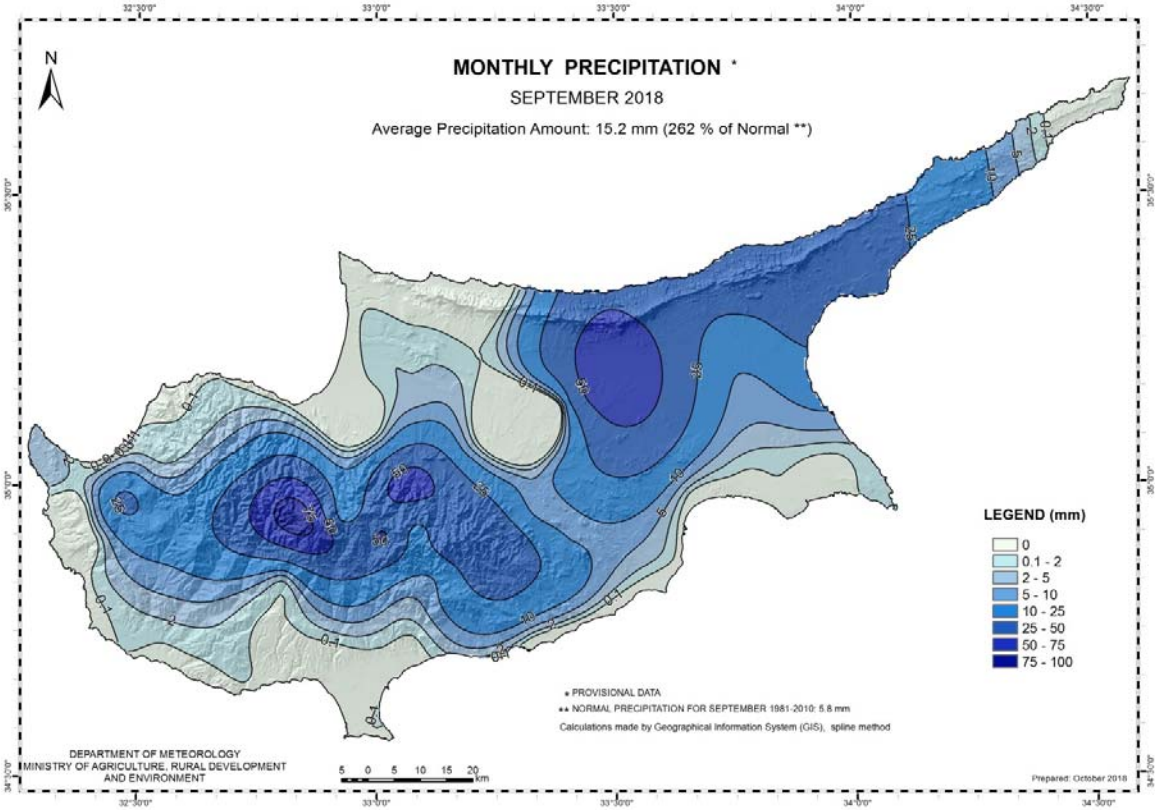
It is worth mentioning that on the 30th of **September** local hail was reported over the mountainous range of Troodos.

TEMPERATURE AND PRECIPITATION PROVISIONAL DATA FOR SEPTEMBER 2018														
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	31.2	30.1	1.1	35.9	29.0	20.7	19.2	1.5	17.9	24.2	0.4	4.0	-3.6
82*	PAFOS (AIRPORT)	30.5	29.0	1.5	32.5	29.0	20.3	19.1	1.2	16.7	23.8	0.1	3.6	-3.5
225	PRODROMOS (C.F.C.)	26.2	24.6	1.6	32.3	21.1	15.0	14.9	0.1	10.2	20.6	88.2	10.7	77.5
666*	ATHALASSA (RADIOSONDE)	36.3	33.6	2.7	41.4	32.3	20.8	18.8	2.0	17.7	26.5	12.1	12.2	-0.1
731	LARNAKA (AIRPORT)	32.5	30.9	1.6	36.1	30.2	21.4	19.8	1.6	19.5	24.2	0.2	4.3	-4.1
800**	ACHNA (DASAKI)	32.7	31.9	0.8	36.1	30.2	20.5	19.6	0.9	16.9	25.1	0.0	2.9	-2.9

* 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 **September** 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 **September** is also presented.

