

Seasonal weather forecast for the months of

March, April and May 2018

General over view of the weather expected to prevail during March, April and May

The weather for the following period consists of the traditional Spring months (**March, April and May**). During the period the frequency of baroclinic depressions is declining towards May. Precipitation is initially a result of mainly baroclinic depressions and gradually is a result of mainly thermal instability. March and April may be considered as months with increased thunderstorms activity mainly over the mountains and inland due to thermal instability.

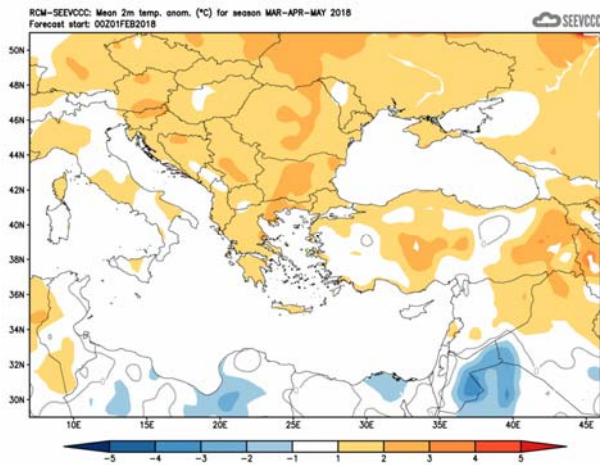
From the climatological data kept by the Department of Meteorology **March** results in a mean of 8 days of fresh snow while during 1987 **March** resulted in 21 snow days. And during **April** 2 days of fresh snow are climatologically expected while during 1984 **April** resulted in 6 snow days.

It is significant to be mentioned that dust events are frequent during the period of forecast, as a result of strong Saharan depressions.

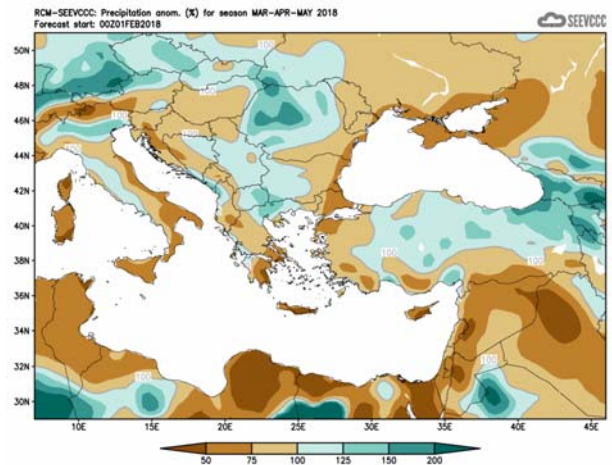
Seasonal forecast for the next three months

Regarding the seasonal forecast for the period of **March, April and May** the temperature is expected to be generally normal. The amount of the accumulated precipitation is disappointing. The accumulated precipitation will range over the greater part of the island between 50% and 75% and over south and east Cyprus below 50% of normal.

Bearing in mind the model's suggestion which are represented in graphical form below, and which are representing the mean value over the area and also the long climatology of the area of Cyprus during the period, days or short period of days with extreme high or low temperatures or with extreme rain events can't be excluded.

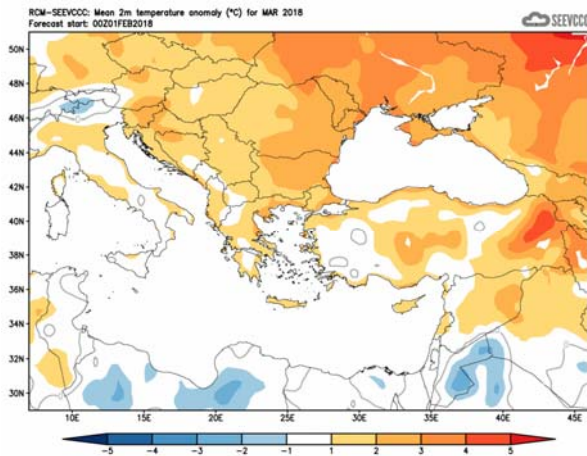


Divergence of temperature from normal from the mean seasonal temperature ($^{\circ}\text{C}$) for March, April and May

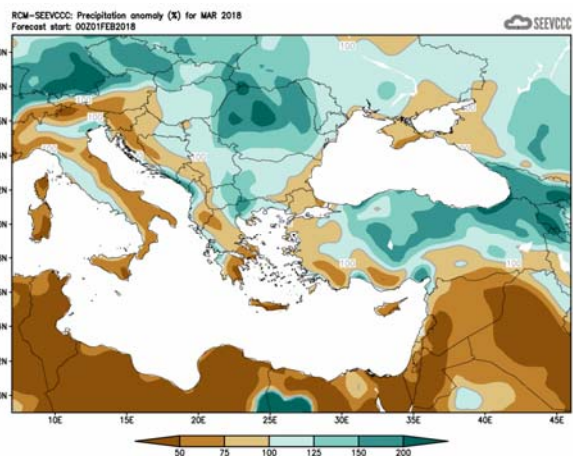


Percentage (%) of the mean seasonal accumulated precipitation compared to the mean normal for March, April and May

The seasonal forecast for **March** is suggesting that **March** will be warmer than normal by 1°C to 2°C . The accumulated precipitation of **March** is disappointing since the forecast suggests that over the southern and eastern part of the island will range below 50% of normal, inland will range from 50 to 75% while over the western and northern parts will be around normal.

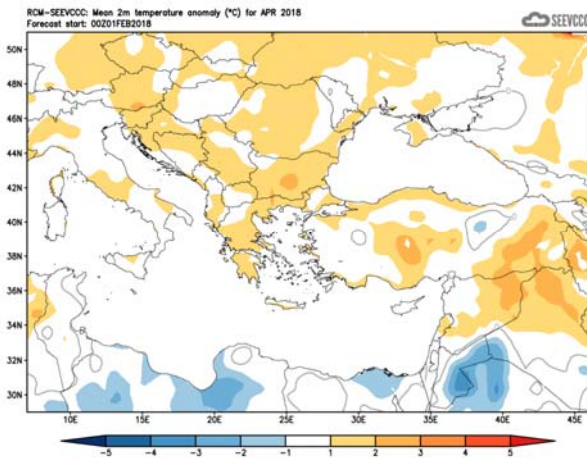


Divergence of the mean monthly temperature ($^{\circ}\text{C}$) from normal during March

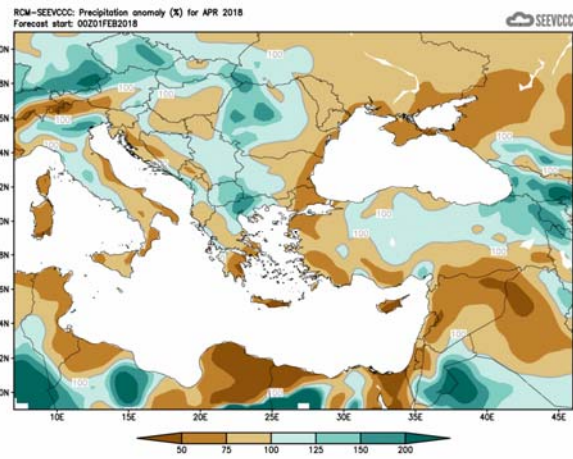


Percentage of the mean monthly precipitation (%) compared with the normal of March

The seasonal forecast for **April** as it concerns temperature, suggests a normal month while the accumulated precipitation is suggested to be again lower than the month's normal. The accumulated precipitation of **April** over the greater part of the island will range below 50% of normal and over north and west Cyprus will range between 50% and 75% of normal.

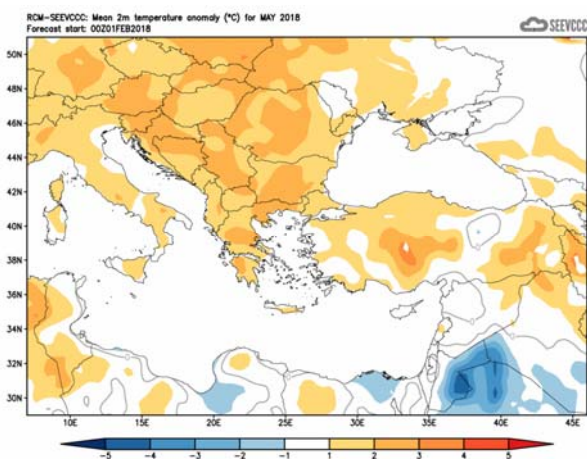


Divergence of the mean monthly temperature (°C) from normal during April

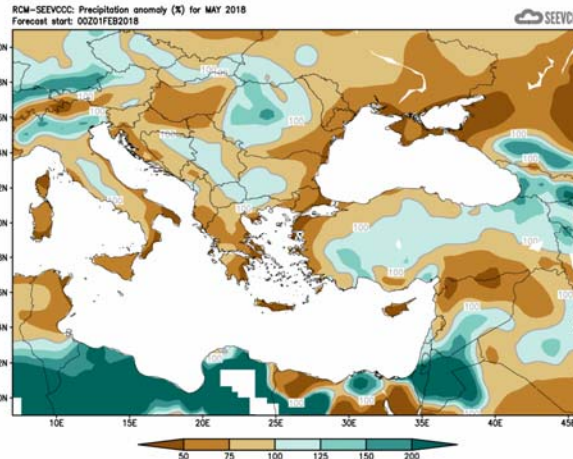


Percentage of the mean monthly precipitation (%) compared with the normal of April

The seasonal forecast for **May** as it concerns temperature, suggests a normal month while the accumulated precipitation is suggested to be again lower than the month's normal. The accumulated precipitation of **April** over the greater part of the island will range below 50% of normal and over north and west Cyprus will range between 50% and 75% of normal.



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



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

Normal values of temperature (mean maximum and mean minimum) and accumulated precipitation for March, April and May

The normal values of mean maximum, mean minimum temperature and accumulated precipitation are presented below for sample stations, concerning the three months the period of forecast is covering, in order to gain a better view of the normal seasonal climate. The temperatures, both maximum and minimum, of **March** are the lowest climatological temperatures of the period while **March** accumulated precipitation has the greater value of the period, as a result of the increased frequency of reoccurrence/redeveloping of depressions over the area of the east Mediterranean. From **March** onwards a an increase of mean maximum and mean minimum temperature is noted with a simultaneous drop of the accumulated precipitation over all sample stations.

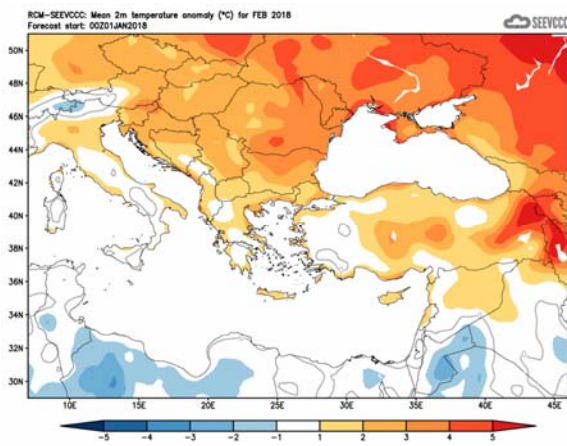
TEMPERATURE AND PRECIPITATION NORMAL VALUES FOR THE PERIOD 1981-2010									
Area Name	MEAN DAILY MAXIMUM TEMPERATURE (°C)			MEAN DAILY MINIMUM TEMPERATURE (°C)			MEAN MONTHLY TOTAL PRECIPITATION (mm)		
	Mar	Apr	May	Mar	Apr	May	Mar	Apr	May
NORTH COAST	18.3	21.6	25.8	8.3	10.8	14.3	45.7	21.8	7.6
WEST COAST*	18.6	21.5	24.5	8.9	11.5	14.7	34.4	15.2	6.1
MOUNTAINOUS AREAS	10.4	15.5	20.4	2.8	6.6	10.8	92.1	47.2	32.0
INLAND*	19.2	24.4	29.6	6.9	10.4	14.8	31.9	19.1	24.6
SOUTH COAST	19.3	22.7	26.4	8.6	11.8	15.7	35.8	14.2	9.8
EAST COAST**	19.1	23.2	27.4	7.8	10.9	14.9	35.2	19.7	10.7

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

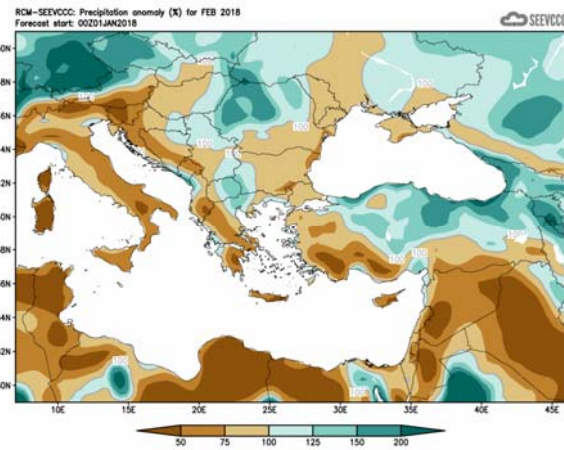
** East Coast Temperature Values cover the period 1981-2007

Evaluation of Februarys seasonal forecast for the area of Cyprus

The seasonal forecast for **February** was suggesting a warmer and drier than normal month. **February** was to be warmer than normal by 1°C to 2°C, while the accumulated precipitation was again disappointing since the forecast suggested a relatively dry month with accumulation ranging between 50% and 75% of normal over the greater part of the island and over southeast coast below 50% of normal.



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



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

From the provisional data recorded by the Department of Meteorology, for the selected portion of the meteorological stations, which are presented in the table below,

TEMPERATURE AND PRECIPITATION PROVISIONAL DATA FOR FEBRUARY 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	19.6	16.3	3.3	22.0	15.9	9.6	7.3	2.3	7.2	12.0	38.1
82*	PAFOS (AIRPORT)	19.3	17.1	2.2	21.4	16.7	10.7	8.1	2.6	6.9	17.0	69.2	59.8	9.4
225	PRODROMOS (C.F.C.)	11.5	6.7	4.8	18.2	4.8	3.6	0.5	3.1	0.4	11.1	85.6	128.7	-43.1
666*	ATHALASSA (RADIOSONDE)	19.9	16.0	3.9	25.2	15.4	8.0	5.3	2.7	4.1	12.6	13.7	44.5	-30.8
731	LARNAKA (AIRPORT)	19.4	17.0	2.4	21.9	16.2	10.1	7.1	3.0	6.5	14.7	40.9	50.3	-9.4
800**	ACHNA (DASAKI)	19.0	16.5	2.5	21.6	14.9	8.6	6.3	2.3	3.9	12.2	28.4	50.7	-22.3

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

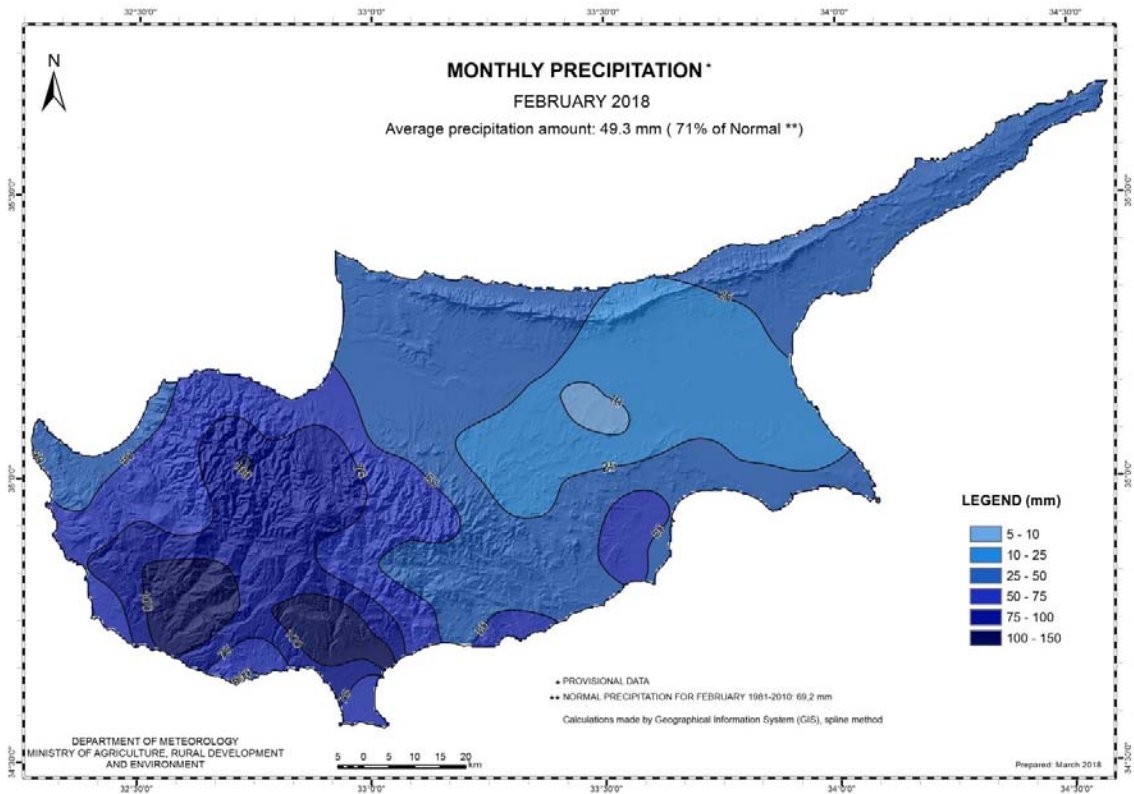
= VALUES FROM AUTOMATIC WEATHER STATION

it seems that the model performed moderately, while it picked up the tendency of the temperature anomaly and also the anomaly of precipitation over the area of Cyprus. So **February** was rather warm, (warmer than the models suggestion) and relatively dry as almost the model was suggesting.

Extreme high temperatures were recorded as over Athalassa with an extreme maximum of 25.2°C (with normal 16.0°C or over Prodromos with an extreme maximum of 18.2°C with the normal only 6.7°C. Extreme low temperatures were also recorded as Achna with a recorded low of 3.9°C while normal is 8.6°C.

February's accumulated precipitation resulted in 71% of normal as almost the model suggested. It resulted also in extreme accumulated precipitation as was the accumulation of 91.6mm which was recorded on the dawn of the 16th over the area of Limassol (southern part). During this rain event flash floods were recorded while a yellow EMMA was recorded.

For the purpose of better visualization of **February** 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 **February** is also presented.

