

## Seasonal weather forecast for the months of February, March and April 2022

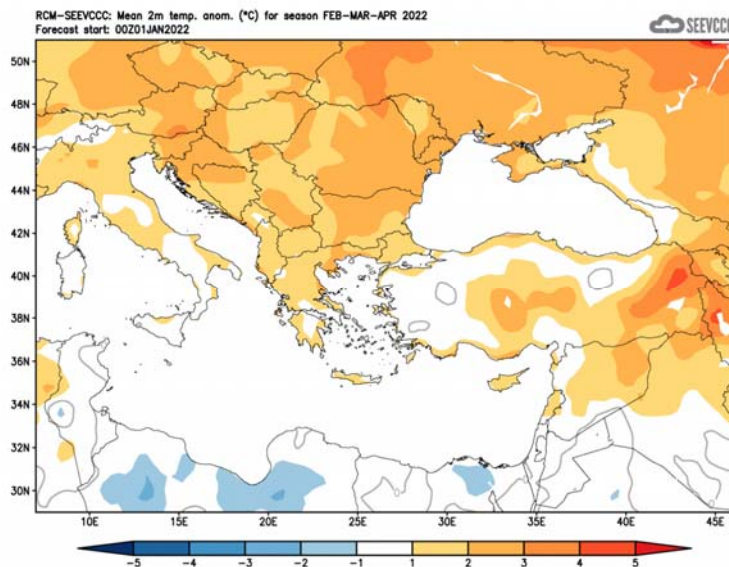
### General over view of the weather expected to prevail during February, March and April.

The weather for the following period consists of a part (**February**) of the traditional winter, where the most of the annual accumulated precipitation is climatologically expected, while in the period in focus normal temperatures (both maximum and minimum) are significantly lower than the other months of the year (except **January**) and the first two months (**March** and **April**) of the traditional Spring, which is also a part of the period of forecast. During the period, the frequency of baroclinic depressions affecting the area is at its most resulting in higher accumulated precipitation amounts.

### Seasonal forecast for the next three months

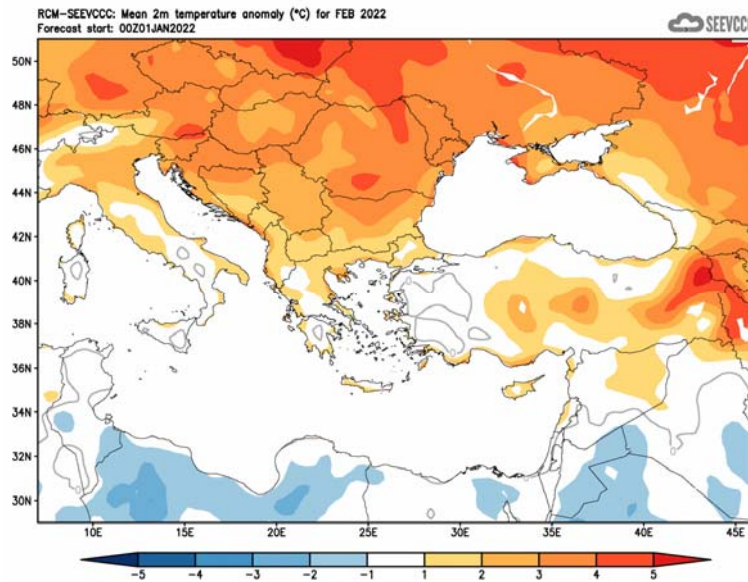
Regarding the seasonal forecast for the period of the last winter season month (**February**) and the first two spring season months (**March** and **April**) the temperature is expected to be generally above normal by 1 to 2°C. The surrounding area has similar temperature characteristic.

The report of the seasonal forecast for the accumulated precipitation is disappointing. It will not be commented on, because from the observations so far for February, the forecast differs substantially and does not seem to be correct. Similar failures in the forecast of seasonal accumulated precipitation seem to be common and their further commentary is not appropriate.



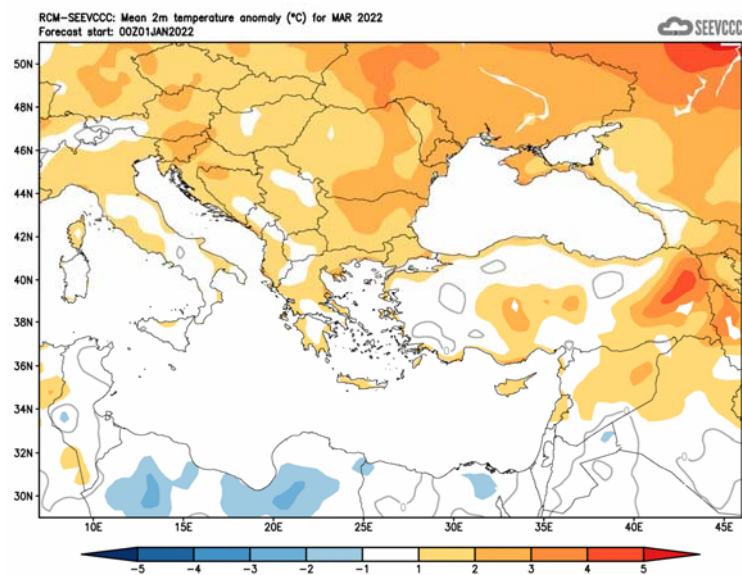
Divergence of temperature from normal from the mean seasonal temperature (°C) for February, March and April

The seasonal forecast for **February** suggests a warmer month. **February** will be warmer than normal by 1°C to 2°C mainly in coastal areas.



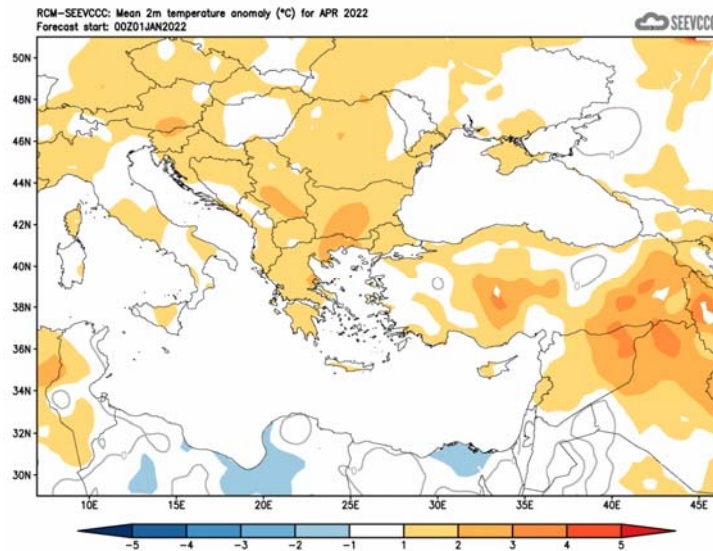
Divergence of the mean monthly temperature (°C) from normal during February

The seasonal forecast for **March** suggests that it will be warmer than normal by 1°C to 2°C.



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

The seasonal forecast for **April** suggests that west part of the island will be warmer than normal by 1°C to 2°C.



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

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

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 **February** are the lowest climatological temperatures of the period while **Februarys** 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. During **March**, a transitional month from winter to summer, an increase of mean maximum and mean minimum temperature is noted with a simultaneous drop of the accumulated precipitation over all sample stations. A further temperature increase and accumulated precipitation significant decline is observed during **April**.

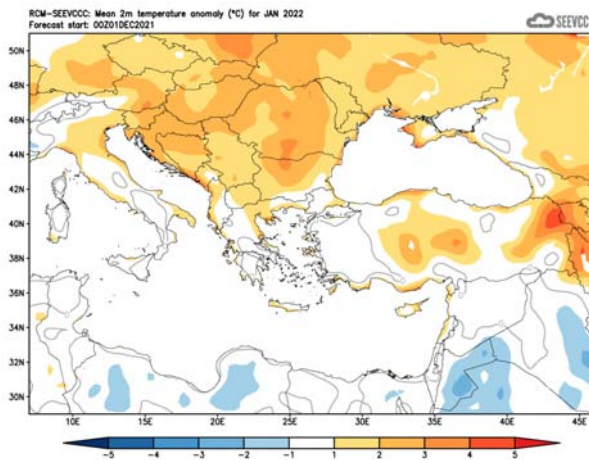
TEMPERATURE AND PRECIPITATION NORMAL VALUES FOR THE PERIOD 1981-2010									
Area Name	MEAN DAILY MAXIMUM TEMPERATURE (°C)			MEAN DAILY MINIMUM TEMPERATURE (°C)			MEAN MONTHLY TOTAL PRECIPITATION (mm)		
	Feb	Mar	Apr	Feb	Mar	Apr	Feb	Mar	Apr
NORTH COAST	16.3	18.3	21.6	7.3	8.3	10.8	68.5	45.7	21.8
WEST COAST*	17.1	18.6	21.5	8.1	8.9	11.5	59.8	34.4	15.2
MOUNTAINOUS AREAS	6.7	10.4	15.5	0.5	2.8	6.6	128.7	92.1	47.2
INLAND*	16.0	19.2	24.4	5.3	6.9	10.4	44.5	31.9	19.1
SOUTH COAST	17.0	19.3	22.7	7.1	8.6	11.8	50.3	35.8	14.2
EAST COAST**	16.5	19.1	23.2	6.3	7.8	10.9	50.7	35.2	19.7

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

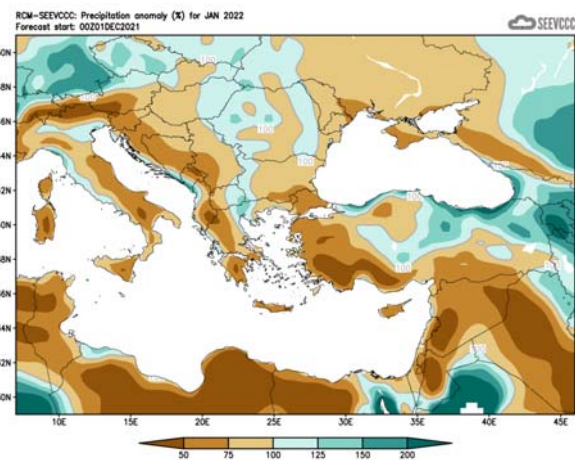
\*\* East Coast Temperature Values cover the period 1981-2007

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

The seasonal forecast for **January 2022** suggested that temperature would be above normal (by 1°C to 2°C), mainly over coastal areas. The accumulated precipitation of **January** was again disappointing since the forecast suggested a mainly dry month with accumulation ranging between 50% to 75% of normal. Low accumulations were characterizing all the surrounding area.



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



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

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 JANUARY 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	17,8	16,3	1,5	23,2	11,8	8,5	7,6	0,9	2,4	14,0	179,7	85,3	94,4
82*	PAFOS (AIRPORT)	16,3	17,1	-0,8	20,7	10,9	9,0	8,3	0,7	1,5	16,4	128,2	78,8	49,4
225	PRODROMOS (C.F.C.)	-	6,3		11,4	0,7	-	0,7		-8,6	2,9	270,3	150,0	120,3
666*	ATHALASSA (RADIOSONDE)	15,4	15,5	-0,1	21,4	9,1	4,5	5,4	-0,9	-1,3	11,7	70,4	48,8	21,6
731	LARNAKA (AIRPORT)	16,4	16,8	-0,4	20,9	10,0	7,8	7,5	0,3	1,3	16,5	104,6	73,7	30,9
800**	ACHNA (DASAKI)	15,2	16,3	-1,1	20,4	9,7	5,7	6,6	-0,9	-0,4	12,0	85,0	67,3	17,7

\* 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 relatively well on the evaluation of the temperature, but it performed bad on the evaluation of the accumulated precipitation, which was well above normal. From the recorded data is shown that most of the mean daily maximum and the mean daily minimum temperatures were above normal. Extreme high temperatures were recorded, as an example note the station of Athalassa that recorded a highest daily maximum of 21.4°C (with the normal being 15.5°C) and Polis Chrysochous that recorded a highest daily maximum of 23.2°C (with the normal being 16.3°C). Extreme low temperatures were also recorded, as an example note the lowest daily minimum temperature of Achna that was -0.4°C (with a normal of 6.6°C) and the lowest daily minimum temperature of Prodromos that was -8.6°C (with a normal of 0.7°C).

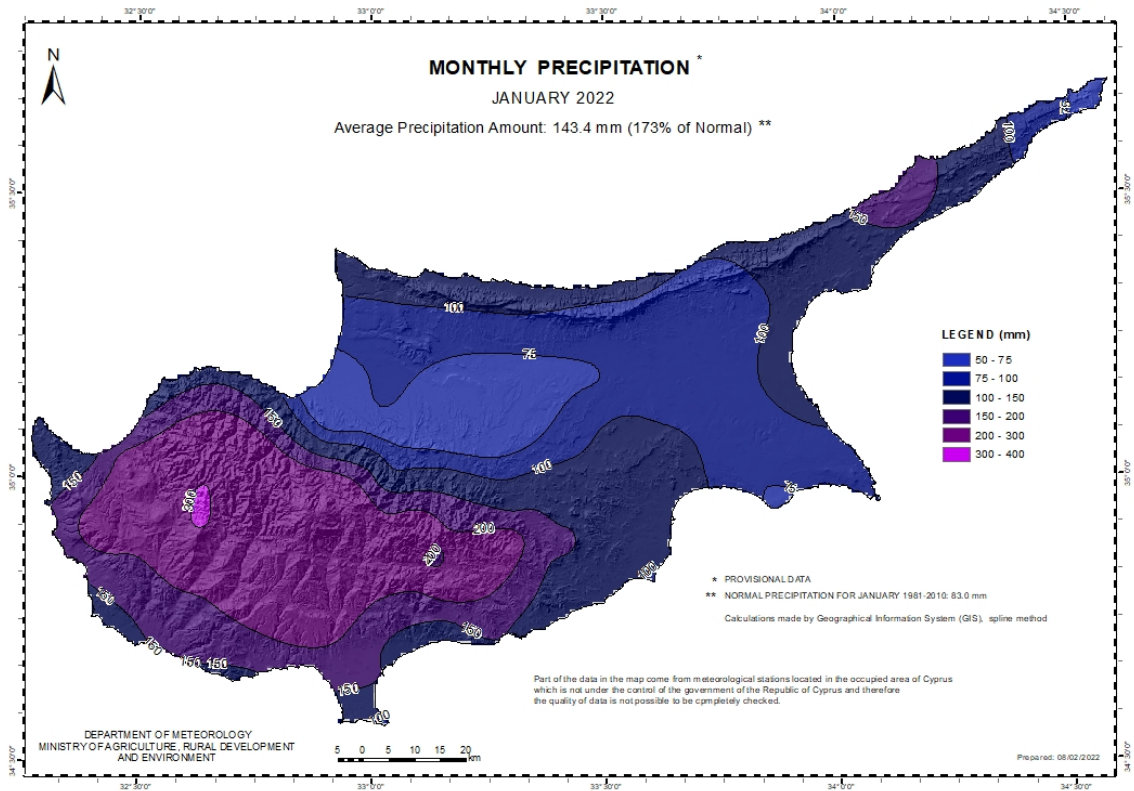
From the provisional data recorded by the Department of Meteorology the model did not perform well over the amount of the accumulated precipitation, as the actual accumulated precipitation was more than the expected. **January** is generally considered to be a rainy month, as the cumulative precipitation reached 143.4mm or 173% of normal.

During the periods 1-2, 4-6, 9-15, 17-19 and 21-31 of **January** local showers and thunderstorms resulted in accumulated precipitation of 99.3mm or 120% of normal. It is worth mentioning that on the 9<sup>th</sup>, 10<sup>th</sup>, 12<sup>th</sup> and 22<sup>nd</sup> of **January** hail was reported. Also, for the 9-10, 12-13, 18-20, 22-23, 25 and 27-28 of **January**, EMMA yellow level warnings for rainfall, wind, thunderstorms and low temperatures were issued. For 10-11 of **January**, EMMA orange level warning was issued concerning rain and thunderstorms.

It is worth mentioning that based on the provisional data there was snowfall during 9-11, 17-19, 21-26 and 28-31 of **January**.



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

