

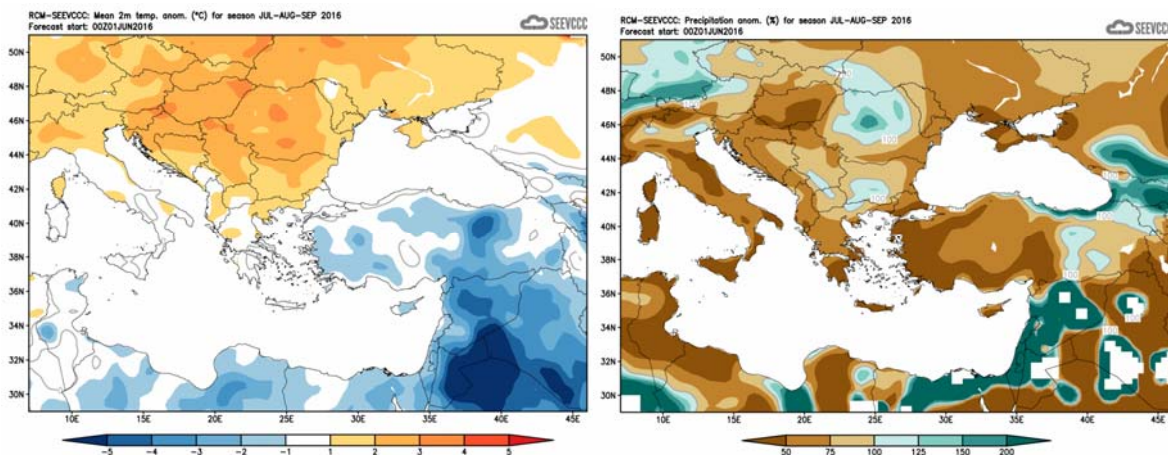
## Seasonal weather forecast for the months of

### July, August and September 2016

#### General over view of the weather expected to prevail for July, August and September.

The weather for the following three months, namely **July, August and September 2016**, will be presented, with respect to the anomalies of temperature, and accumulated precipitation. Normal temperatures (both maximum and minimum), are on the rise suggesting **August** as the hottest month of the year. The accumulated precipitation is at its lowest values. The period of the following three months (mainly July and August) is likely to be characterized by outbreaks of thunderstorms, initiated from thermal causes over the main plain area or over the mountainous range from orographic uplift.

Specifically, regarding the seasonal forecast for the period of **July, August and September 2016**, the temperature will be generally normal to lower than normal. Normal to lower than normal temperature characterizes also the greater part of Asia Minor, while the Balkans will be warmer than normal and near East will be again lower than normal. The amount of the accumulated precipitation over Cyprus is expected to range generally from 50% to 75% of normal while over the northern part will be normal.

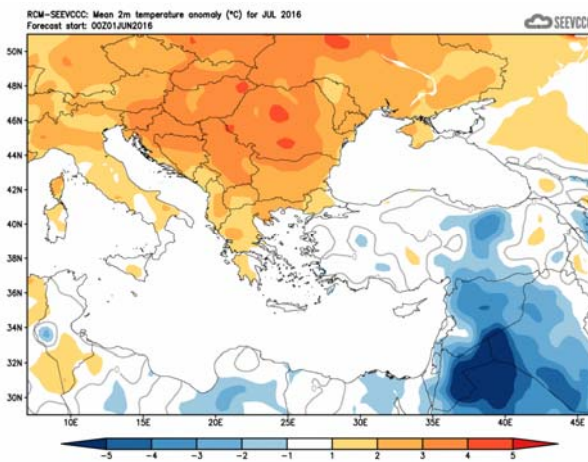


Divergence of temperature from normal from the mean seasonal temperature (°C) for July, August and September

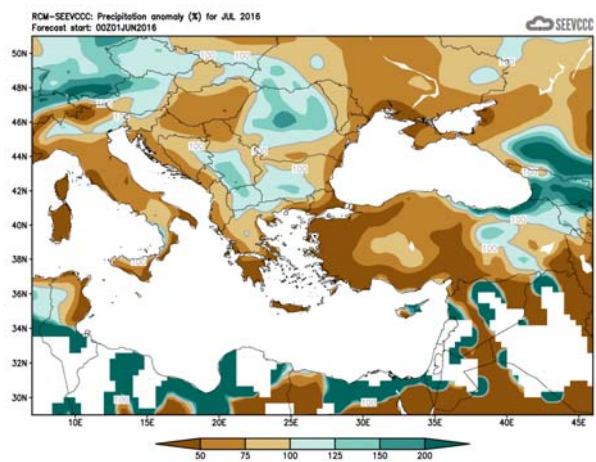
Percentage (%) of the mean seasonal accumulated precipitation compared to the mean normal for July, August and September

### The seasonal monthly forecast in detail

The seasonal forecast suggests that **July's** temperature will be normal alike Asia Minor. Regarding the accumulated precipitation Cyprus west part is expected to be again with the accumulated precipitation ranging from 50% to 75% but over the east part accumulated precipitation is expected to range up to 150%.

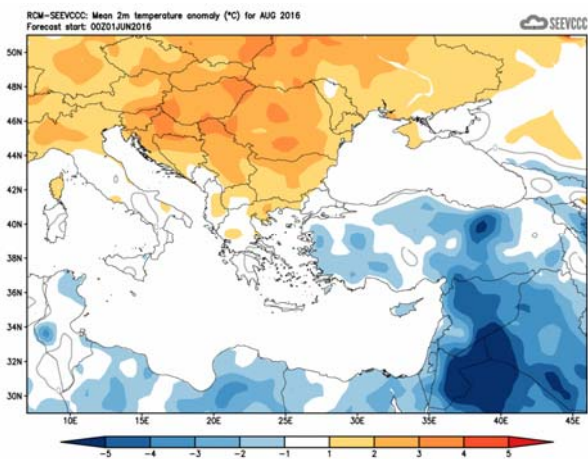


Divergence of the mean monthly temperature (°C) from normal during July

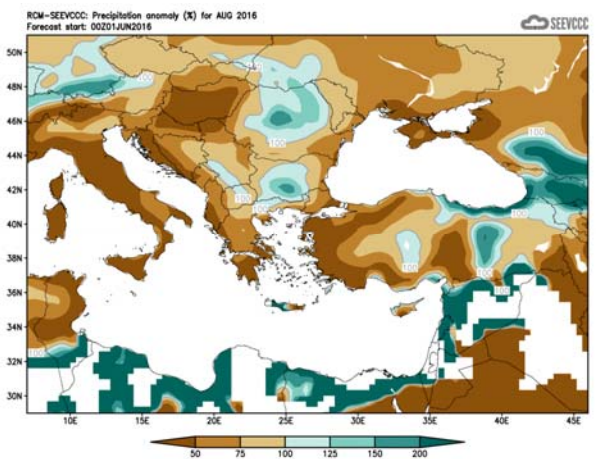


Percentage of the mean monthly precipitation (%) compared with the normal of July

**August's** seasonal forecast suggests that temperature will be generally below normal, by 1 to 2°C, except the extreme west part where it will be normal. Regarding the accumulated precipitation Cyprus will be again with the accumulated precipitation ranging below 50% to 75% except the west part where a range up to normal is likely.

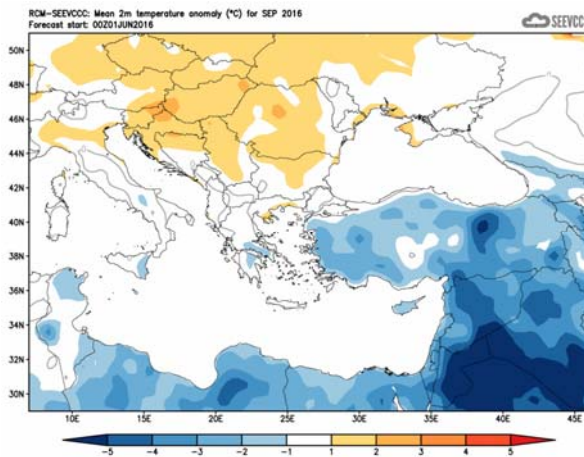


Divergence of the mean monthly temperature (°C) from normal during August

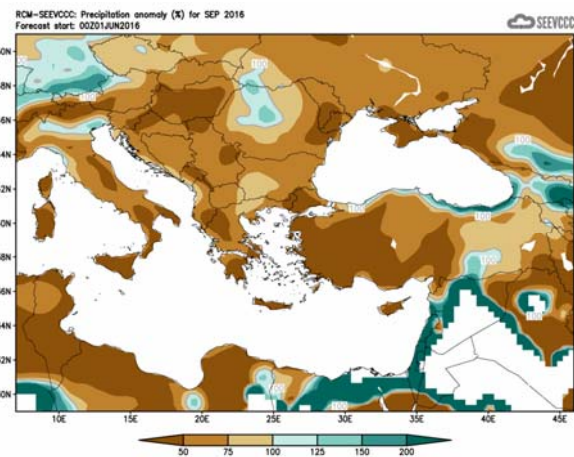


Percentage of the mean monthly precipitation (%) compared with the normal of August

The seasonal forecast suggests that **September's** temperature will be generally below normal, by 1 to 2°C. The below normal temperature is also a characteristic of the area of Asia Minor and Near and Middle East. Regarding the accumulated precipitation Cyprus will be again with the accumulated precipitation ranging below 50% to 75% except the western part where it is expected to be up to normal. A dry characteristic has also the entire area of Asia Minor and Southern Balkans, while Near East is expected to be significantly above normal.



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



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

### Normal values of temperature and accumulated precipitation for July, August and September 2016

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 rise with **July's** and **August's** temperature significantly higher than **September's**. On the other hand the accumulated precipitation is declining during **July** and **August**, as presented by the climatological data shown on the table below. Thundery activity is likely during afternoon hours mainly inland and over the mountains, which is noted also from the table below. Note the cause 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 **September** is always significantly higher, if compared to the accumulated precipitation of the other selected stations. It is worth noting that during September accumulated precipitation starts a rise in all 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)		
	July	August	September	July	August	September	July	August	September
NORTH COAST	33.4	33.3	30.1	21.1	21.5	19.2	0.1	0.0	4.0
WEST COAST*	29.9	30.5	29.0	20.6	21.1	19.1	0.2	0.0	3.6
MOUNTAINOUS AREAS	27.9	28.0	24.6	18.2	18.1	14.9	16.4	12.0	10.7
INLAND*	37.1	36.9	33.6	22.1	21.9	18.8	4.2	1.8	12.2
SOUTH COAST	32.5	32.9	30.9	22.0	22.3	19.8	0.5	0.3	4.3
EAST COAST**	33.2	33.5	31.9	21.8	22.0	19.6	0.1	0.1	2.9

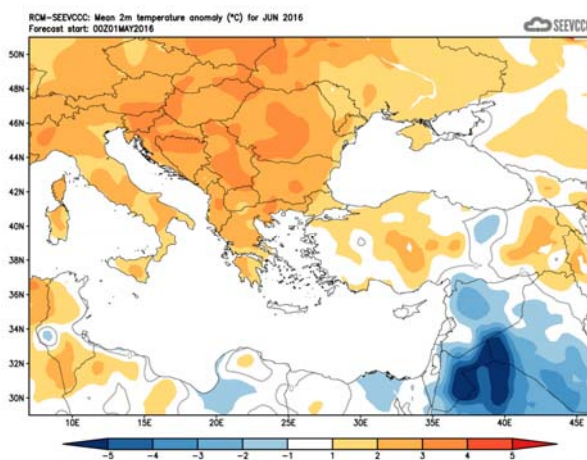
\* West Coast and Inland Values cover the period 1983-2010

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

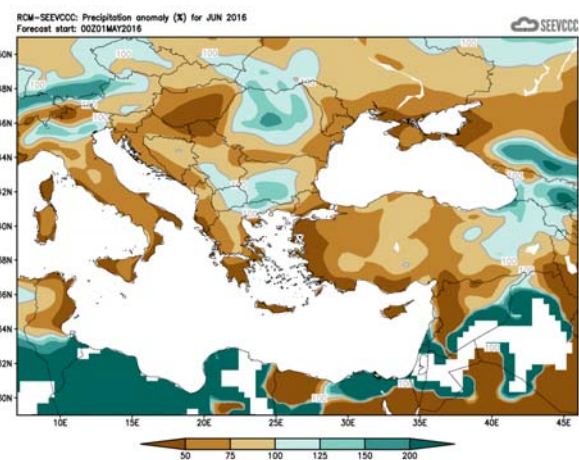
## Evaluation of Junes seasonal forecast for the area of Cyprus

### June

The seasonal forecast suggested that **June's** temperature will be generally normal while the Balkans and great parts of Asia Minor will be warmer than normal. Regarding the accumulated precipitation Cyprus is expected to be dry with the accumulated precipitation ranging below 50% for the entire area of Cyprus.



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



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

Concerning the models evaluation for **June**, a general judgment is that the model performed poorly both qualitatively and quantitatively concerning the temperature and relatively good in forecasting the seasonal accumulated precipitation. It must be mentioned that during summer month's precipitation is resulted mainly from thundery activity which has very localised characteristics and that judging is very difficult due to models limitations.

In a more detailed evaluation of the recorded temperatures both maximum and minimum (table below) were above normal, suggesting that **June** was hotter than normal. Extremes were also recorded with great positive departures of 8 to 10°C, like Polis Chrysochou station where the highest daily maximum temperature (40.2°C) was 9.9°C greater than normal (30.3°C ) and Paphos airport where the highest daily maximum temperature (37.8°C) was 10.2°C greater than normal (27.6°C ). During 18-25 of **June 8** EMMA warnings with yellow awareness level were issued, concerning extreme high temperatures, not only maximum but also minimum temperatures. On 19<sup>th</sup> of **June** a huge fire broke out at Solia region that destroyed 18,57km<sup>2</sup> of forest area. The fire was difficult to be brought under control due to the high temperatures and the low percentages of relative humidity.

Lowest daily minimum temperatures were also recorded, with negative departures of 5 to 6°C below normal, like the mountainous station of Prodromos where an extreme minimum of 9.1°C was by 5.9°C below station's normal (15.0°C).

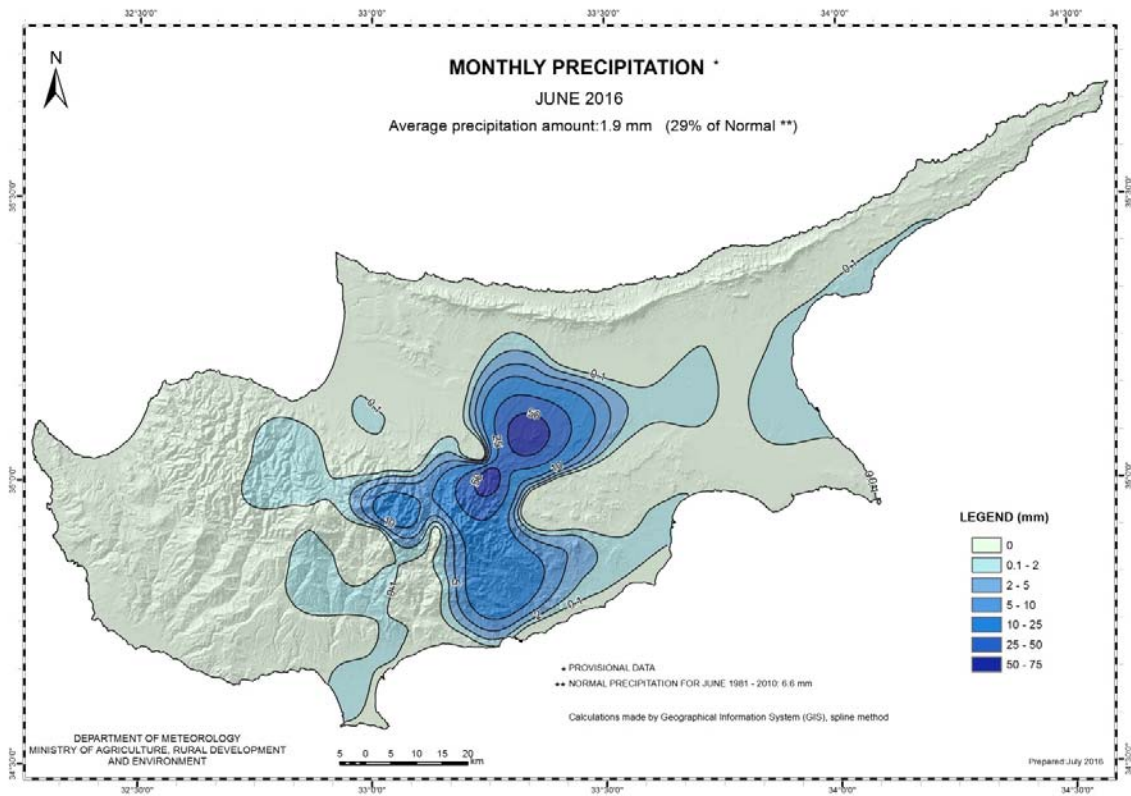
During **June** local showers and or thunderstorms caused by thermal instability were recorded on 9<sup>th</sup>, 10<sup>th</sup> and 11<sup>th</sup> of **June** resulting in accumulated precipitation of 29% of normal. In certain areas, like Kalavassos damn and Athalassa stations the accumulated precipitation was greater than normal, as it was 489% and 173% of normal respectively.

TEMPERATURE AND PRECIPITATION PROVISIONAL DATA FOR JUNE 2016												
St. No.	Station Name	Mean Daily Maximum Temperature (°C)	Normal Value (1981-2010)	Difference from Normal Value	Highest Daily Maximum Temperature (°C)	Mean Daily Minimum Temperature (°C)	Normal Value (1981-2010)	Difference from Normal Value	Lowest Daily Minimum Temperature (°C)	Monthly Total Precipitation (mm)	Normal Value (1981-2010)	Difference from Normal Value
41	POLIS CHRYSOCHOUS	32,8	30,3	2,5	40,2	20,9	18,5	2,4	15,5	0,0	1,8	-1,8
82*	PAFOS (AIRPORT)	29,6	27,6	2,0	37,8	19,6	18,0	1,6	15,1	0,2	1,3	-1,1
225	PRODROMOS (C.F.C.)	26,3	25,0	1,3	31,4	15,7	15,0	0,7	9,1	0,0	27,2	-27,2
666*	ATHALASSA (RADIOSONDE)	35,3	34,0	1,3	42,2	21,4	19,1	2,3	16,7	20,1	11,6	8,5
731	LARNAKA (AIRPORT)	32,0	30,2	1,8	38,0	21,3	19,4	1,9	17,1	0,2	2,0	-1,8
800**	ACHNA (DASAKI)	32,0	31,0	1,0	39,4	19,6	18,9	0,7	13,9	0,0	1,8	-1,8

\* 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 **June** 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 **June** is also presented.

