

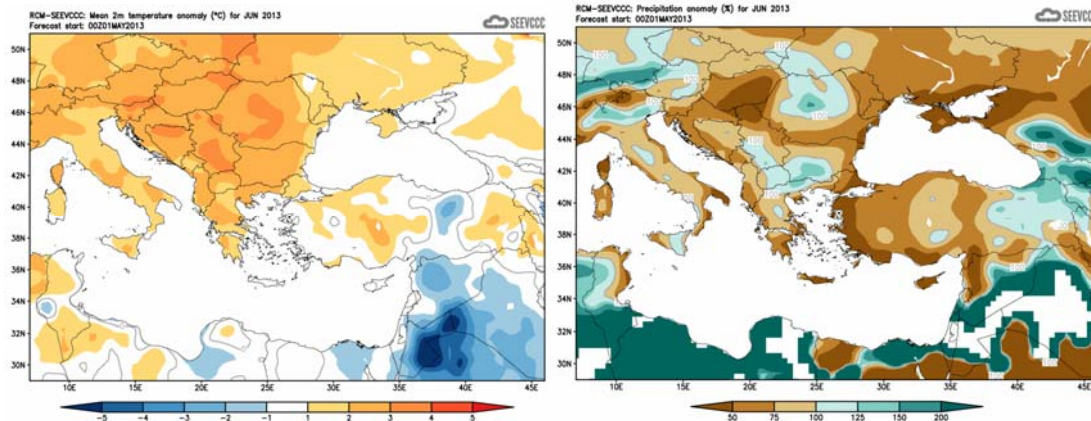
Summer JJA 2013 Climate Validation according to SEECOF-9

Normal values (Mean Maximum and Minimum) of temperature and accumulated precipitation, for June, July and August, according to 1961-90 Climatology, for various areas in Cyprus..

Temperature and Precipitation aumulation Normal Values									
	Mean Maximum (°C)			Mean Minimum (°C)			Precipitation (mm)		
	June	July	August	June	July	August	June	July	August
Inland	34	37	37	19	22	22	7	1	7
South coast	31	33	33	20	23	23	2	0	1
East coast	30	33	33	21	23	24	3	1	0
West coast	28	31	31	19	21	21	1	0	0
North coast	31	34	33	19	22	23	2	1	1
Mountainous areas	25	27	28	15	18	18	20	14	13

Validation of June seasonal forecast

According to SEECOF output **June**, was expected to be relatively cooler than normal, since the temperature was expected to be 1°C less than the month's normal, but again mainly dry, since the accumulated precipitation in almost all areas was expected to range to 50% or less of the normal.



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

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

From the data recorded by the Cyprus Meteorological Service the temperature over the area of Cyprus, both mean maximum and mean minimum for **June**, was slightly higher than normal by around 1°C. Athalassa (Inland) is an exception since the mean maximum daily temperature was just below normal. **June** was also a dry month. From the above is concluded that the seasonal forecast for **June** was near the recorded real weather.

Preliminary data for Temperature and accumulated precipitation height for June 2013

Polis: characterizes northern coasts

Pafos A/P: characterizes western coastal areas

Prodromos: characterizes Mountainous areas

Athalassa: characterizes inland

Larnaka A/P: characterizes southern coastal areas and

Frenaros Reservoir: characterizes the eastern coastal areas.

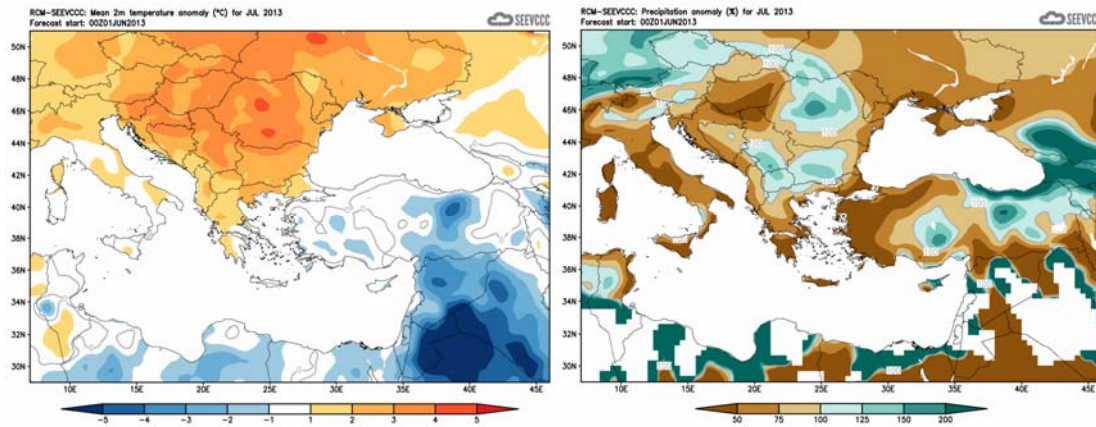
St.No	St.Name	Mean Daily Max Temp. (°C)	Normal	Differ. From Normal	Highest Max Temp. (°C)	Mean Daily Min Temp (°C)	Normal	Differ. From Normal	Lowest Min Temp. (°C)	Rain (mm) (Total)	Rain Normal (1961-90)	Differ. From Normal
41*	POLIS	30.7	29.9	0.8	35.8	19.0	17.5	1.5	16.3	0.0	1.8	-1.8
82	PAFOS A/P	28.3	27.0	1.3	36.0	18.9	17.5	1.4	16.3	0.0	0.7	-0.7
225	PRODROMOS	25.8	24.2	1.6	30.4	15.6	14.4	1.2	10.8	0.0	20.2	-20.2
666	ATHALASSA	33.7	34.1	-0.4	37.7	20.0	19.1	0.9	14.9	0.0	7.0	-7.0
731	LARNAKA (A/P)	30.9	29.6	1.3	34.9	20.5	18.4	2.1	16.6	0.0	1.7	-1.7
845**	FRENAROS (RESERVOIR)	30.9	30.5	0.4	37.0	19.1	20.7	-1.6	15.1	0.0	2.6	-2.6

* Temperature Values from Polis Automatic Weather Station

** Temperature Values from Achna Automatic Weather Station

Validation of July seasonal forecast

According to the month forecast **July**, concerning temperature, was expected to be normal to slightly cooler than normal. Over the east it would be relatively wet, since the accumulated precipitation was expected to exceed, in most areas 125%. Over the west was expected to be dryer since accumulated precipitation was expected to be less than 50% of the normal.



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

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

From the data, recorded by the Cyprus Meteorological Service, the temperature over the area of Cyprus, both mean maximum and mean minimum for **July**, was generally around normal, while the accumulated precipitation height was below normal. Concerning validation of **July** forecast, it's evident that the forecast was not far from reality.

TEMPERARURE AND RAIN FOR JULY 2013 - PROVISIONAL DATA

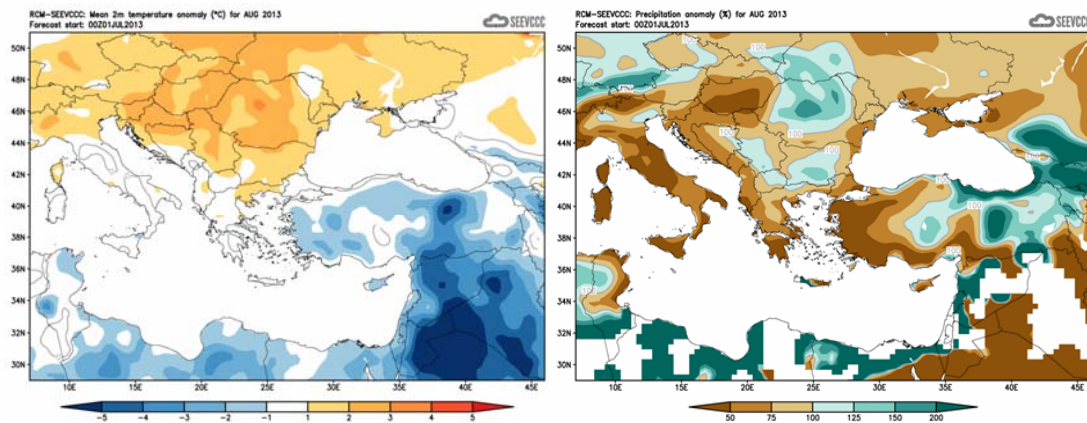
St.No	St.Name	Mean Daily Max Temp. (°C)	Normal	Differ. From Normal	Highest Max Temp. (°C)	Mean Daily Min Temp (°C)	Normal	Differ. From Normal	Lowest Min Temp. (°C)	Rain (mm) (Total)	Rain Normal (1961-90)	Differ. From Normal
41*	POLIS	32.5	33.1	-0.6	35.5	20.9	20.1	0.8	18.1	0.0	0.8	-0.8
82	PAFOS A/P	30.4	29.4	1.0	33.3	21.2	20.2	1.0	18.7	0.0	0.2	-0.2
225	PRODROMOS	27.9	27.3	0.6	30.2	17.8	17.7	0.1	15.1	0.0	14.0	-14.0
666	ATHALASSA	36.5	37.2	-0.7	38.4	22.7	22.1	0.6	18.1	2.5	1.0	1.5
731	LARNAKA (A/P)	32.9	32.1	0.8	35.9	22.4	21.2	1.2	18.8	0.4	0.0	0.4
845**	FRENAROS (RESERVOIR)	32.8	32.9	-0.1	37.3	21.5	23.5	-2.0	16.7	0.0	0.8	-0.8

* Temperature Values from Polis Automatic Weather Station

** Temperature Values from Achna Automatic Weather Station

Validation of August seasonal forecast

August, concerning temperature was expected to be cooler by 1 to 2°C and mainly dry, since the accumulated precipitation inland and over the east was expected to be less than 50% of the normal whereas over the west was expected to be 25% above normal.



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

Percentage (%) of the expected mean monthly
accumulated precipitation compared to the mean
normal of August

From the data, recorded by the Cyprus Meteorological Service, the temperature, over the area of Cyprus, both mean maximum and mean minimum for **August**, was generally above normal by 1 to 2°C. **August** was also very dry since no accumulated precipitation was recorded. As a general validation conclusion for **August** forecast, it's evident that the forecast was not that correct mainly due to the lack in temperature forecasting, but nevertheless August was milder in temperature if compared to previous year's temperature.

TEMPERATURE AND RAIN FOR AUGUST 2013 - PROVISIONAL DATA

St.No	St.Name	Mean Daily Max Temp. (°C)	Normal	Differ. From Normal	Highest Max Temp. (°C)	Mean Daily Min Temp. (°C)	Normal	Differ. From Normal	Lowest Min Temp. (°C)	Rain (mm) (Total)	Rain Normal (1961-90)	Differ. From Normal
41*	POLIS	33.6	32.8	0.8	37.0	21.8	20.2	1.6	20.2	0.0	0.6	-0.6
82	PAFOS A/P	31.4	30.1	1.3	33.3	21.7	20.4	1.3	19.8	0.0	0.2	-0.2
225	PRODRAMOS	28.4	27.1	1.3	31.0	19.4	17.3	2.1	16.3	0.0	13.0	-13.0
666	ATHALASSA	37.8	36.9	0.9	39.8	23.1	21.8	1.3	20.5	0.0	7.0	-7.0
731	LARNAKA (A/P)	34.0	32.3	1.7	37.0	22.9	21.0	1.9	20.7	0.0	0.6	-0.6
845**	FRENAROS (RESERVOIR)	33.9	33.3	0.6	38.4	22.0	23.9	-1.9	19.8	0.0	0.1	-0.1

* Temperature Values from Polis Automatic Weather Station

** Temperature Values from Achna Automatic Weather Station

Concluding Remark

A general concluding remark, concerning SEECOFs products, for the area of the east Mediterranean and especially for Cyprus summer climate is the models lack in predicting temperature correctly. In some cases the tendency was also wrong since the suggested drop of temperature while the recorded data show an increase.

Talking about summer's accumulated precipitation during we must admit that it is a very difficult task, since summers precipitation is a matter of very isolated thundery showers.