

## Annex

Country: Georgia

Institute: National Environmental Agency (NEA)

Name: Khatuna Kokosadze

E-mail: kokosadze.k@gmail.com

### VERIFICATION OF THE SEECOF-21 SUMMER 2019 CLIMATE OUTLOOK FOR THE TERRITORY OF GEORGIA

#### 1. SEECOF-21 Climate outlook for the 2019 summer season:

**Temperature:** probability for tercile below normal (20%), near norm (30 %) and above normal (50 %) all over Georgia.

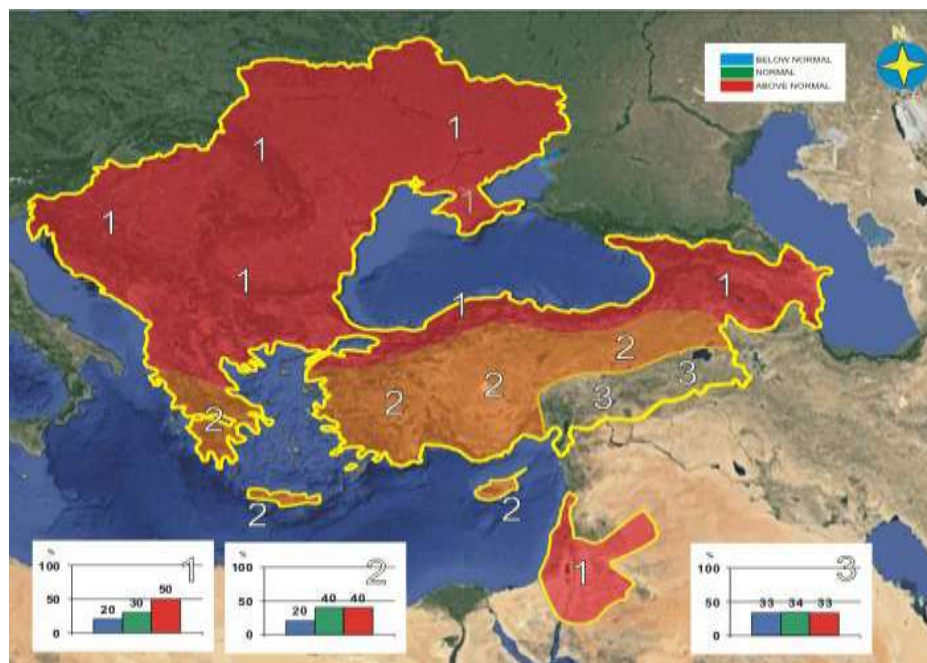


Figure 1. Graphical presentation of the 2019 summer temperature outlook

The 2019 summer temperature outlook for Georgia was expected to be above the normal, what was correct.

**Precipitation:** probability for tercile below normal (20%), near norm (30 %) and above normal (50 %) all over Georgia.

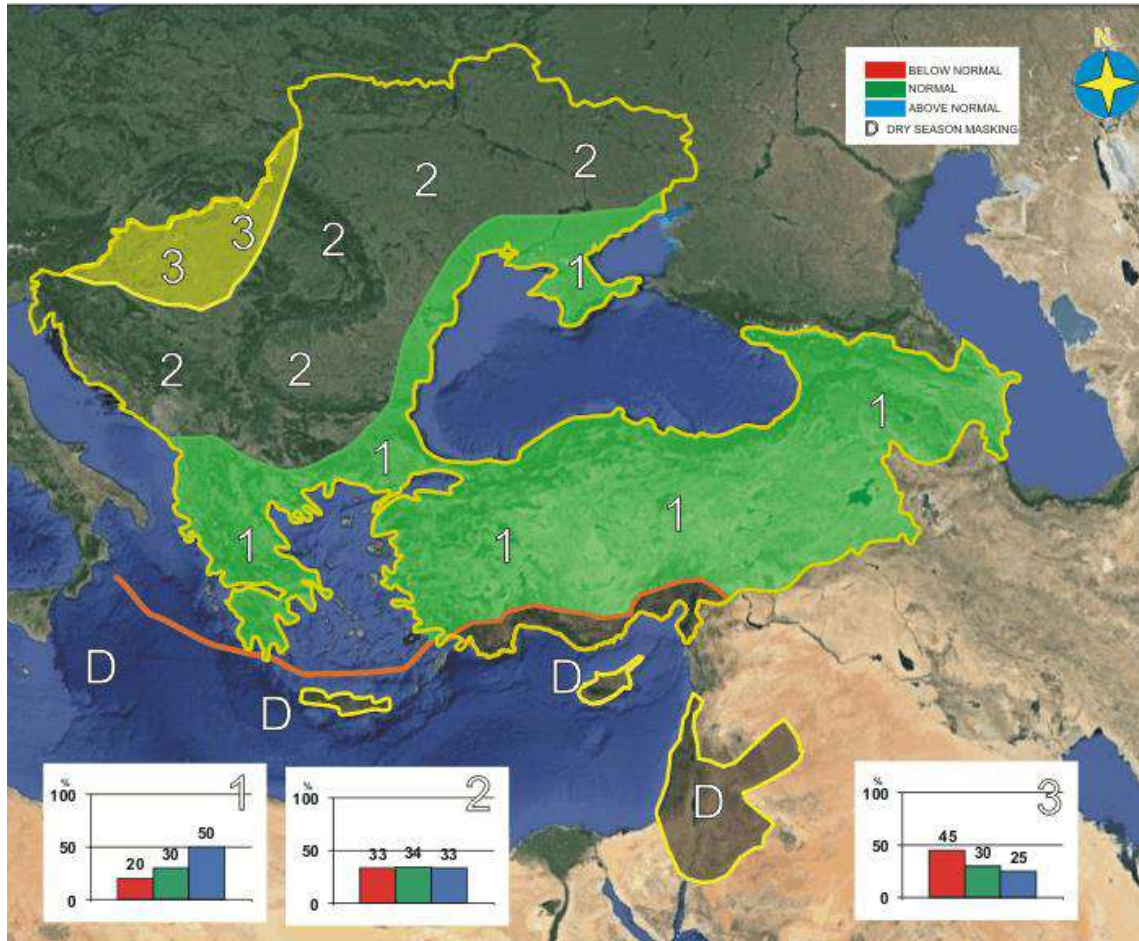


Figure 2. Graphical presentation of the 2019 summer precipitation outlook

The 2019 summer precipitation outlook for Georgia was expected to be above the normal, what was not correct.

## 2. Analysis of the 2019 summer season:

*summer temperatures (reference period 1961-1990)*

Mean seasonal temperature was above normal by 2<sup>0</sup>C on the flat and lowland of Georgia and 3 or 4<sup>0</sup>C in mountain and high mountain regions.

### SUMMER 2019 TEMPERATURE

STATION						
	JUNE	JULY	AUGUST	Taver.	NORM	DIVIATION
BATUMI	25	24.1	25	24.7	22.1	2.6
QOBULETI	24.3	23.2	24.2	23.9	21.6	2.3
KHULO	20.5	18.1	19.7	19.4	17.8	1.6
ZUGDIDI	25.4	22.6	23.9	24	21.7	2.3
POTI	25.3	24.3	24.8	24.8	21.9	2.9
QUTAIISI	25.5	23.6	24.8	24.6	22.3	2.4
SACHKHERE	24.6	22.5	23.6	23.6	20.9	2.7
ZESTAFONI	25.7	23.9	25	24.9	22.6	2.3
MTA-SABUETI	18.7	17	18.2	18	15.2	2.8
AMBROLAURI	25	23.5	25.2	24.6	20.6	4
SHOVI	19.2	18.9	19.8	19.3	14.5	4.8
MESTIA	18.3	18.2	20	18.8	15.3	3.5
AKHALTSIKHE	21.3	21.6	22.2	21.7	18.7	3
AKHALQALAQI	16.8	16.5	17.2	16.8	14.7	2.2
BORJOMI	21.4	21.1	22.2	21.6	18.9	2.7
BAKURIANI	20.6	15.4	16.7	17.6	13.8	3.8
AGARA	23.6	22.6	23.8	23.3	19.5	3.8
GORO	21.3	20.5	21.9	21.2	20.7	0.6
PASANAURI	20.8	20.8	21	20.9	17.4	3.5
TIANETI	22.9	22	22.2	22.4	17.5	4.9
STEPANTSMINDA	17.7	16.8	17.9	17.5	13.4	4.1
TBILISI	25.8	26	26	25.9	23	2.9
BONISI	25	25.9	25	25.3	22.6	2.7
TSALKA	17.3	17.8	17.7	17.6	15.3	2.3
SAGAREJO	23.8	24.2	23.6	23.9	21	2.9
TELAVI	25	24.9	24.9	24.9	22	2.9
DEDOPLIS TSKARO	24.7	24.8	23.7	24.4	20.9	3.5

*summer Precipitation (reference period 1961-1990)*

Amount of precipitation in 2019 summer for Georgia was near and below norm for the most territory of Georgia.

SUMMER 2019  
PRECIPITATION

	JUNE	JULY	AUGUST	PR.SUM	NORM	DIVIATION
BATUMI	217.1	165.2	164.9	547.2	581.8	94
QOBULETI	169.1	164.4	203.7	537.2	553	97
KHULO	86.8	51	96.2	234	220.6	106
ZUGDIDI	213.2	171.8	57.3	442.3	559.6	79
POTI	226	157.8	82.9	466.7	589.3	79
QUTAISI	82.02	85.5	109.6	277.12	297.9	93
SACHKHERE	101.1	146.1	100	347.2	245.1	142
ZESTAFONI	57	76.8	51.3	185.1	246	75
MTA-SABUETI	61	81.1	49	191.1	267	72
AMBROLAURI	107.1	91	30	228.1	262.5	87
SHOVI	152.2	144.8	28.1	325.1	357.8	91
MESTIA	109.9	130	11.2	251.1	300.7	84
AKHALTSIKHE	134.2	21.9	66.4	222.5	192.7	115
AKHALQALAQI	99.5	57.3	31.5	188.3	196.2	96
BORJOMI	62.8	23.1	44.9	130.8	193.6	68
BAKURIANI	113.5	49.6	55.9	219	252.1	87
GORO	103.7	48	30.6	182.3	153.5	119
PASANAURI	151.9	75	15.2	242.1	324.2	75
TIANETI	23.7	13.1	2	38.8	285.1	14
STEPANTSMINDA	62	65.6	24.5	152.1	312.2	49
TBILISI	119.6	22.5	20.1	162.2	164.2	99
BOLNISI	32.6	57	4.5	94.1	155.6	60
TSALKA	144.4	37	27.4	208.8	260.9	80
SAGAREJO	41.8	10.9	21.7	74.4	250.6	30
TELAVI	70.5	66.4	13	149.9	270.2	55
SIGNAGI	14.9	36	20.3	71.2	333.6	21

**3. Verification of the SEECOF-21 climate outlook for the 2019 summer season:**

Country	Seasonal temperature (JJA)		Seasonal precipitation (JJA)	
	Observed	<b>SEECOF-21</b> climate outlook for temperature	Observed	<b>SEECOF-21</b> climate outlook for recipitation
Georgia	Above normal	Above normal	Near and below Normal	Above normal