



**Deliverable 3.2.1.
Part C: Climate Study**

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SECTION 1

1. 1 Climate overview for Apulia

The Italian region of Apulia, is a long, narrow peninsula in the southeast of the country, which separates the Adriatic from the Ionian Sea. Apulia has Mediterranean climate, similar to the climate of western coast of Greece, with hot sunny summers and mild winters. Summer lasts from June until September, and is hot and sunny with rainfall increasing after July, to a peak in September and October. The average summer temperature is not too hot and ranges between 22°C and 24°C, and remains warm through September with an average of 21°C. Because of Apulia's southern position on the Italian peninsula, it has long summer days with as many as 14 hours of sunshine per day at the height of summer. Generally the summer weather in Apulia is similar to the coast of western Greece, except that the temperatures are slightly lower.

Autumn in Apulia lasts from October until November with average temperatures remaining relatively high until the end of November, when the rainfall generally begins to increase as well. Apulia has very moderate weather in autumn.

Winter in Apulia lasts from December until March, with the average temperature staying low around 10°C. The winter months in Apulia are the wettest with an average of 50mm to 60mm per month.

During spring in Apulia the average temperatures rise up to 18°C and the rainfall decreases.



Figure 1.1 European Territorial Cooperation Programme Greece – Italy 2007-2013 area.

1.2 Climate overview for Western Greece

Western Greece is a topographically diverse region so there are many different climates. For the most regions, the weather follows a typical Mediterranean climate pattern with hot, dry summers and mild rainy winters. There are, however, varying weather patterns across the region dictated by the topography and the distance from the coast. The high mountains, for example, have a very different climate from the climate of Ionian islands.

The Ionian Islands climate prevails with long, hot, dry summers and mild, wet winters. Summer weather at the islands begins in May. By July the daytime temperature is often around 30°C. July and August are the peak summer months when the minimum temperature rarely drops below 20°C.

The mountains obviously experience very different weather to the lower regions. Higher altitude means lower temperatures, more clouds and higher rainfall. Many of the higher mountains remain snow covered for several months of the year.

Mainland has a slightly different climate which is less influenced by the sea than the islands and has many microclimates due to the affect of the mountains on the prevailing winds. There are more extreme temperatures on the mainland compared to the island and coastal regions. Conversely, cold winter temperatures can be noticed and snow can even fall in the low-lying regions, a phenomenon that is not common.

SECTION 2

2. 1 Climatological data from ground station measurements

In this section climatological data from surface measurements are presented. The data consists of daily and monthly mean values from the 15 meteorological stations (figure 1.2) over the regions of western Greece and Apulia in Italy. The values are computed under the climatological practices of World Meteorological Organization WMO (Guide to Climatological Practices, WMO-No. 100, 2011, www.wmo.int).

The World Meteorological Organization (WMO) is a specialized agency of the United Nations. It is the UN system's authoritative voice on the state and behaviour of the Earth's atmosphere, its interaction with the oceans, the climate it produces and the resulting distribution of water resources. WMO has a membership of 191 Member States and Territories (on 1 January 2013) and is the specialized agency of the United Nations for meteorology (weather and climate), operational hydrology and related geophysical sciences. WMO facilitates the free and unrestricted exchange of data and information, products and services in real- or near-real time on matters relating to safety and security of society, economic welfare and the protection of the environment. It contributes to policy formulation in these areas at national and international levels. Finally, WMO defines climatological data as "averages of climatological data computed for the following consecutive periods of 30 years: January 1, 1901 to December 31, 1930, January 1, 1931 to December 31, 1960, etc." (WMO, 1984). The latest global standard period is 1961-1990.

From the total number of WMO stations, in this study, we included only 15, which have complete records less than 30 years and cover the whole study region. The locations of the 15 stations are shown in figure 1.2, whereas their coordinates and altitudes are provided in Table 1.

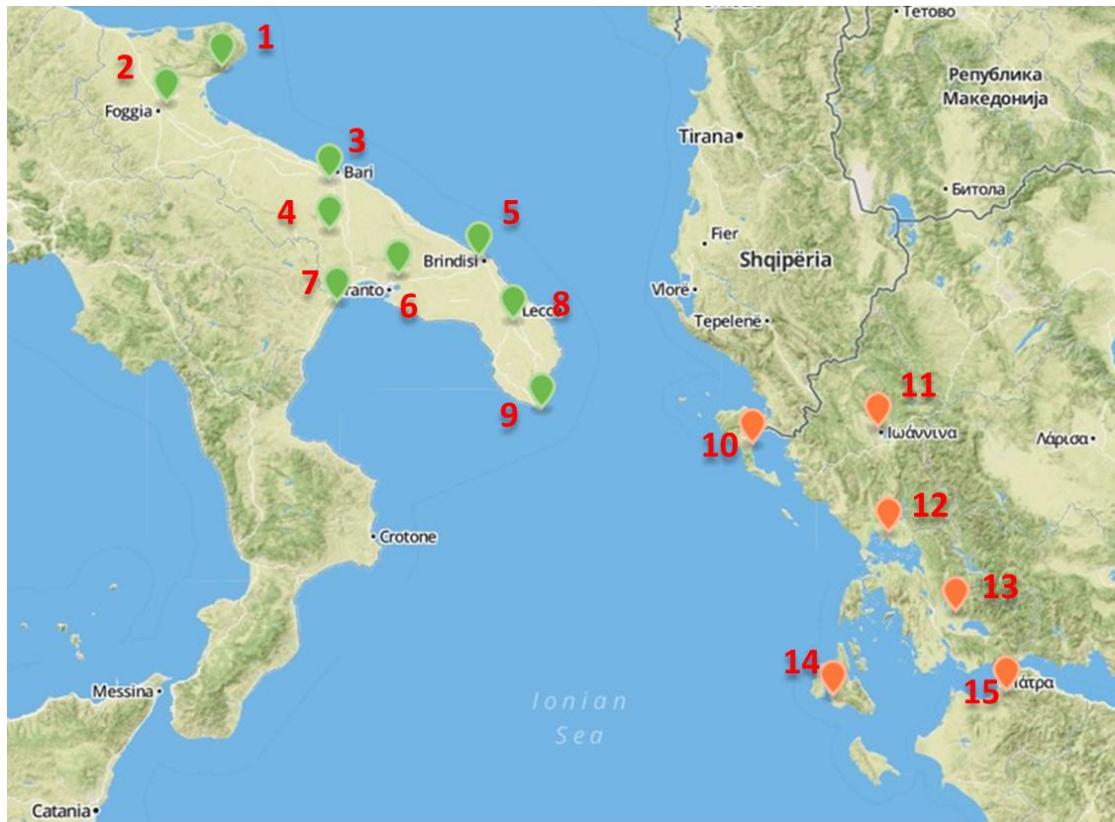


Figure 1.2. The study region and the locations of the 15 WMO selected stations

Table 1. Selected 15 WMO stations and their geographical coordinates

	Station	Latitude ($^{\circ}$,')	Longitude ($^{\circ}$,')	Altitude (m)
1	Monte S. Angelo - Italy	41° 42'N	15° 57'E	844
2	Amendola - Italy	41° 32'N	15° 43'E	60
3	Bari - Italy	41° 08'N	16° 47'E	49
4	Gioia Del Colle - Italy	40° 46'N	16° 56'E	350
5	Brindisi – Italy	40° 39'N	17° 57'E	10
6	Grottaglie – Italy	40° 31'N	17° 24'E	69
7	Marina Di Ginosa - Italy	40° 26'N	16° 53'E	12
8	Lecce - Italy	40° 14'N	18° 09'E	61
9	S. Maria Di Leuca	39° 49'N	18° 21'E	112
10	Corfu – Greece	39° 47'N	19° 55'E	2
11	Ioannina - Greece	39° 42'N	20° 49'E	480
12	Arta - Greece	39° 10'N	21° 00'E	10
13	Agrinio - Greece	38° 36'N	21° 21'E	24
14	Argostoli - Greece	38° 11'N	20° 29'E	28
15	Patra - Greece	38° 15'N	21° 44'E	3

To describe the average climatological conditions at a station, long term averages (or norm values) are computed. Station tables (Table 2 to 16) show the 30-year averages (standard period 1961-1990), referring to the following parameters:

- Mean Dry Bulb Temperature (deg C)
- Maximum Dry Bulb Temperature (deg C)
- Minimum Dry Bulb Temperature (deg C)
- Mean Maximum Dry Bulb Temperature (deg C)
- Mean Minimum Dry Bulb Temperature (deg C)
- Mean Dew Point Temperature (deg C)
- Mean monthly Precipitation (mm)
- Minimum monthly Precipitation (mm)
- Maximum monthly Precipitation (mm)
- Mean Relative Humidity (%)
- Mean Sea Level Pressure (hPa)
- Mean Vapor Pressure (hPa)
- Mean Wind Speed (m/sec)
- Mean Cloud Cover (okta)
- Number Days with Thunder (mean monthly)
- Number Days with Hail (mean monthly)
- Number Days with Force Winds (men monthly)
- Number Days with Precipitation GE Threshold (men monthly)
- Number Days with Occurrence of Rain (mean monthly)

Table 2. Climatological conditions (Standard normals 1961-1990) for the city of Corfu (Greece)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Dry Bulb Temperature (deg C)	9.6	10.3	12.1	15.1	19.6	23.8	26.4	26.1	22.7	18.4	14.2	11.1	17.5
Maximum Dry Bulb Temperature (deg C)	20.5	22.4	26.0	28.0	33.8	35.6	42.4	40.0	37.4	31.0	25.0	22.0	---
Minimum Dry Bulb Temperature (deg C)	-4.5	-4.2	-4.4	0.0	4.6	8.7	10.0	11.3	7.2	2.8	-2.2	-2.0	---
Mean Maximum Dry Bulb Temperature (deg C)	13.9	14.2	16.2	19.2	23.8	27.9	30.9	31.1	27.8	23.2	18.8	15.4	21.9
Mean Minimum Dry Bulb Temperature (deg C)	5.1	5.7	6.8	9.3	12.9	16.4	18.3	18.6	16.5	13.4	9.8	6.7	11.6
Mean Dew Point Temperature (deg C)	4.9	5.3	6.8	9.7	13.3	15.8	17.0	17.4	16.3	13.2	10.0	6.9	11.4
Mean monthly Precipitation (mm)	131.7	136.1	98.4	61.8	36.3	14.3	7.4	17.8	74.9	148.1	180.5	180.0	1087.2
Minimum monthly Precipitation (mm)	1.0	20.9	1.0	3.6	0.0	0.0	0.0	0.0	1.8	6.7	6.8	59.9	---
Maximum monthly Precipitation (mm)	284.2	292.5	228.9	157.5	105.3	71.1	56.0	87.9	236.0	391.9	397.1	503.7	---
Mean Relative Humidity (%)	74.7	73.8	72.7	72.1	68.6	63.3	59.3	62.0	69.7	74.2	77.4	76.7	70.4
Mean Sea Level Pressure (hPa)	1016.1	1014.6	1014.3	1012.7	1013.7	1013.4	1012.6	1012.7	1015.4	1016.8	1016.6	1015.6	1014.6
Mean Vapor Pressure (hPa)	9.1	9.3	10.1	12.3	15.5	18.3	19.7	20.3	18.9	15.6	12.7	10.3	10.8
Sunshine (mean number of hours)	117.7	116.8	116.0	206.5	276.8	324.2	364.5	332.8	257.1	188.9	133.5	110.9	212.1
Mean Wind Speed (m/sec)	2.7	3.0	2.7	2.3	1.9	2.0	1.9	1.8	1.8	2.1	2.7	2.8	2.3
Mean Cloud Cover (okta)	4.5	4.7	4.4	4.1	3.4	2.3	1.1	1.3	2.2	3.4	4.2	4.6	3.4
Number Days with Thunder (mean monthly)	5.0	5.6	4.9	4.3	2.9	2.3	1.5	2.5	4.6	7.3	8.3	6.4	55.6
Number Days with Hail (mean monthly)	0.6	0.9	0.4	0.4	0.2	0.0	0.0	0.0	0.1	0.3	0.4	0.7	4.0
Number Days with Force Winds (men monthly)	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4

Number Days with Precipitation GE Threshold (men monthly)	11.3	11.1	9.3	7.2	4.2	2.1	1.1	1.6	4.2	8.1	11.2	13.1	84.5
Number Days with Occurrence of Rain (mean monthly)	16.1	14.8	14.0	11.9	7.3	4.8	1.8	2.7	5.9	11.1	14.7	17.2	122.3

Table 3. Climatological conditions (Standard normals 1961-1990) for the city of Patras (Greece)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Dry Bulb Temperature (deg C)	9.9	10.5	12.6	15.8	20.3	24.1	26.4	26.6	23.7	18.9	14.5	11.4	17.9
Maximum Dry Bulb Temperature (deg C)	24.0	24.6	28.0	31.2	35.0	37.2	41.3	39.3	38.2	32.6	30.6	24.6	---
Minimum Dry Bulb Temperature (deg C)	-4.5	-2.8	-2.1	2.3	6.0	8.3	13.2	11.8	9.5	3.5	0.4	-1.4	---
Mean Maximum Dry Bulb Temperature (deg C)	14.0	14.9	17.0	19.9	24.4	27.9	29.5	30.1	27.8	23.5	19.1	15.6	21.9
Mean Minimum Dry Bulb Temperature (deg C)	6.1	6.5	7.9	10.5	14.1	17.5	19.5	19.6	17.5	13.9	10.4	7.7	12.6
Mean Dew Point Temperature (deg C)	4.2	4.4	6.1	9.3	13.1	16.2	17.8	17.7	15.9	12.4	9.1	6.2	11.0
Mean monthly Precipitation (mm)	92.8	91.0	62.1	46.3	28.4	8.7	5.7	4.8	23.0	75.3	118.3	121.8	682.2
Mean Relative Humidity (%)	69.0	67.6	67.1	66.4	64.4	62.4	60.2	59.8	63.1	67.0	70.9	71.3	65.8
Mean Sea Level Pressure (hPa)	1016.6	1015.2	1014.8	1013.2	1013.7	1013.5	1012.4	1012.6	1015.3	1017.0	1017.2	1016.3	1014.8
Mean Vapor Pressure (hPa)	8.7	8.7	9.7	11.9	15.3	18.7	20.7	20.5	18.5	14.8	11.9	9.7	10.6
Mean Wind Speed (m/sec)	2.9	2.9	3.0	3.1	2.6	2.7	2.6	2.6	2.6	2.5	2.6	2.8	2.7
Mean Cloud Cover (okta)	4.3	4.4	4.1	3.8	3.0	1.9	0.9	1.1	1.8	3.1	4.0	4.4	3.1
Number Days with Thunder (mean monthly)	2.7	2.5	2.0	1.3	1.3	0.6	0.4	0.3	1.6	2.5	3.4	3.0	21.6
Number Days with Hail (mean monthly)	0.5	0.3	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.2	1.5

Number Days with Force Winds (men monthly)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.4
Number Days with Precipitation GE Threshold (men monthly)	10.5	9.7	8.1	6.7	3.9	1.7	0.8	0.7	2.9	7.0	9.3	11.9	73.2
Number Days with Occurrence of Rain (mean monthly)	12.2	11.3	9.7	8.0	5.0	2.3	1.1	0.9	3.3	7.8	10.4	13.2	85.2

Table 4. Climatological conditions (Standard normals 1961-1990) for the city of Ioannina (Greece)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Dry Bulb Temperature (deg C)	4.6	6.1	8.9	12.6	17.4	21.7	24.8	24.2	20.3	14.9	9.7	5.8	14.3
Maximum Dry Bulb Temperature (deg C)	20.0	23.6	25.2	28.2	34.2	38.8	42.4	39.8	36.8	32.2	24.4	18.8	---
Minimum Dry Bulb Temperature (deg C)	-13.0	-10.2	-8.2	-2.6	0.6	5.4	7.4	7.0	3.0	-3.0	-8.4	-9.6	---
Mean Maximum Dry Bulb Temperature (deg C)	8.2	9.6	12.6	17.0	22.2	26.5	29.9	29.7	25.0	19.3	13.7	9.3	18.6
Mean Minimum Dry Bulb Temperature (deg C)	0.2	1.2	3.3	6.0	9.5	12.7	14.8	14.9	12.3	8.5	4.7	1.6	7.5
Mean Dew Point Temperature (deg C)	0.5	1.2	2.9	6.2	10.4	12.9	13.4	13.4	12.1	9.1	6.0	2.6	7.5
Mean monthly Precipitation (mm)	130.3	115.5	98.2	76.0	66.9	46.8	28.5	28.4	54.9	95.5	164.5	172.3	1077.9
Minimum monthly Precipitation (mm)	0.0	9.4	12.9	11.0	9.4	0.2	0.0	0.2	4.2	1.3	31.0	37.0	---
Maximum monthly Precipitation (mm)	308.2	306.6	223.8	178.9	134.0	161.3	129.6	129.3	151.1	314.8	383.0	390.3	---
Mean Relative Humidity (%)	77.6	74.3	70.2	68.2	66.3	60.3	53.0	55.3	63.7	71.5	79.9	81.8	68.5
Mean Sea Level Pressure (hPa)	1018.8	1016.9	1016.2	1014.2	1014.9	1014.3	1013.4	1013.7	1016.7	1018.8	1019.1	1018.5	1016.3
Mean Vapor Pressure (hPa)	6.8	6.9	7.9	9.7	12.9	15.1	15.6	15.7	14.4	11.9	9.7	7.7	8.4
Mean Wind Speed (m/sec)	1.1	1.5	1.7	1.4	1.2	1.2	1.1	1.2	1.1	1.4	0.8	1.0	1.2

Mean Cloud Cover (okta)	4.6	4.8	4.6	4.7	4.0	3.0	1.8	1.9	2.5	3.4	4.5	4.8	3.7
Number Days with Thunder (mean monthly)	2.3	2.4	2.4	2.3	4.9	5.4	4.4	4.3	3.6	3.1	3.6	2.7	41.4
Number Days with Hail (mean monthly)	0.0	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.2	1.4
Number Days with Force Winds (men monthly)	0.3	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	1.6
Number Days with Precipitation GE Threshold (men monthly)	10.2	9.9	9.6	8.9	8.8	5.7	3.4	3.4	4.6	7.4	11.2	12.5	95.6
Number Days with Occurrence of Rain (mean monthly)	12.5	12.1	12.3	12.0	10.5	7.3	4.5	4.6	6.0	9.3	13.4	14.2	118.7

Table 5. Climatological conditions (Standard normals 1961-1990) for the city of Argostoli (Greece)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Monthly Min Temperature	8.5	8.5	9.5	11.4	14.7	18.1	20.2	20.9	19.0	16.0	12.6	9.9	14.1
Monthly Average Temperature	11.5	11.5	12.9	15.2	19.4	23.3	25.5	25.9	23.4	19.7	15.7	12.8	18.1
Monthly Max Temperature	14.3	14.3	15.9	18.2	22.5	26.4	28.6	29.3	26.8	23.0	18.7	15.6	21.1
Monthly Average Humidity	71.3	70.0	69.2	69.6	68.5	65.9	64.1	65.4	67.8	69.2	73.4	73.1	69.0
Monthly Average Rainfall	105.6	106.8	73.5	54.9	18.5	9.7	4.6	9.4	37.2	91.4	155.4	132.8	66.7
Total days of Rain	13.2	12.6	10.4	9.5	4.6	1.5	0.9	1.8	4.3	9.7	12.9	14.1	8.0

Monthly Average Wind Direction	N	SE	SE	NW	NW	NW	NW	NW	NW	SE	SE	SE	---
Monthly Average Wind Speed	6.9	7.3	7.1	6.5	6.2	6.2	6.3	5.8	5.7	6.1	6.3	6.7	6.4

Table 6. Climatological conditions (Standard normals 1961-1990) for the city of Arta (Greece)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Monthly Min Temperature	4.7	5.2	7.0	9.9	13.9	17.3	19.5	19.9	17.1	13.4	9.4	6.0	11.9
Monthly Average Temperature	8.7	9.4	11.9	15.2	19.9	24.0	26.5	26.5	23.1	18.3	13.5	9.9	17.2
Monthly Max Temperature	13.3	14.0	16.7	20.1	25.0	29.1	31.8	32.0	29.0	24.1	19.0	14.9	22.4
Monthly Average Humidity	71.7	70.6	68.9	68.8	66.0	61.4	59.2	59.4	63.6	67.7	74.1	73.2	67.1
Monthly Average Rainfall	99.9	99.9	93.8	81.5	58.5	21.8	12.6	17.2	43.5	99.9	99.9	99.9	69.0
Total days of Rain	12.1	11.1	10.6	9.6	7.4	4.2	2.5	2.5	4.9	8.1	11.9	13.0	8.2
Monthly Average Wind Direction	NE	---											
Monthly Average Wind Speed	6.5	6.5	6.1	5.7	5.3	4.7	4.6	4.7	4.6	5.1	5.0	6.1	5.4

Table 7. Climatological conditions (Standard normals 1961-1990) for the city of Agrinio (Greece)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Monthly Min Temperature	4.7	5.2	7.0	9.9	13.9	17.3	19.5	19.9	17.1	13.4	9.4	6.0	11.9
Monthly Average Temperature	8.7	9.4	11.9	15.2	19.9	24.0	26.5	26.5	23.1	18.3	13.5	9.9	17.2

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Monthly Max Temperature	13.3	14.0	16.7	20.1	25.0	29.1	31.8	32.0	29.0	24.1	19.0	14.9	22.4
Monthly Average Humidity	71.7	70.6	68.9	68.8	66.0	61.4	59.2	59.4	63.6	67.7	74.1	73.2	67.1
Monthly Average Rainfall	99.9	99.9	93.8	81.5	58.5	21.8	12.6	17.2	43.5	99.9	99.9	99.9	69.0
Total days of Rain	12.1	11.1	10.6	9.6	7.4	4.2	2.5	2.5	4.9	8.1	11.9	13.0	8.2
Monthly Average Wind Direction	NE	---											
Monthly Average Wind Speed	6.5	6.5	6.1	5.7	5.3	4.7	4.6	4.7	4.6	5.1	5.0	6.1	5.4

Table 8. Climatological conditions (Standard normals 1961-1990) for the city of Monte S. Angelo (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	5.6	6.0	8.1	11.9	17.1	21.1	24.0	24.0	20.6	15.3	10.4	6.9	14.3
Mean Minimum Dry Bulb Temperature (deg C)	1.3	1.4	2.9	5.8	10.4	13.9	16.5	16.8	14.0	10.0	5.7	2.7	8.5
Mean monthly Precipitation (mm)	58.1	44.7	48.3	48.2	37.6	46.0	43.9	38.5	67.1	52.2	62.0	66.7	51.1
Minimum monthly Precipitation (mm)	1.2	2.4	7.6	4.3	1.4	1.4	0.0	0.5	1.4	0.6	5.9	6.2	
Maximum monthly Precipitation (mm)	332.6	173.4	127.6	204.4	170.2	151.4	187.2	94.6	214.8	175.8	154.9	214.2	
Mean Relative Humidity (%)	79.0	79.0	75.0	72.0	68.0	64.0	58.0	63.0	66.0	74.0	82.0	80.0	71.7
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.0	0.0	0.8	5.5	13.7	14.1	4.7	0.2	0.0	0.0	3.3
Number Days Minimum Temperature LE Threshold (mean monthly)	9.9	9.4	6.3	1.2	0.1	0.0	0.0	0.0	0.1	0.1	2.0	6.7	3.0
Number Days with Precipitation GE Threshold (mean monthly)	7.6	7.3	7.7	7.1	5.1	5.4	4.4	4.6	5.6	6.4	7.8	8.7	6.5

Table 9. Climatological conditions (Standard normals 1961-1990) for the city of Amendola (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	11.6	12.6	15.1	18.7	24.1	28.4	31.6	31.4	27.6	22.1	16.7	12.7	21.1
Mean Minimum Dry Bulb Temperature (deg C)	2.9	3.1	4.6	7.0	11.1	15.0	17.9	18.0	15.2	11.4	7.0	4.2	9.8
Mean monthly Precipitation (mm)	41.7	40.5	42.9	36.4	37.1	35.6	26.0	27.2	45.6	52.6	52.6	56.5	41.2
Minimum monthly Precipitation (mm)	5.0	3.9	5.4	1.8	0.5	1.1	0.0	0.2	3.1	1.5	1.4	5.3	
Maximum monthly Precipitation (mm)	142.9	117.5	96.8	106.1	158.1	137.6	125.6	73.4	152.7	203.7	125.8	128.9	
Mean Relative Humidity (%)	80.0	77.0	74.0	71.0	69.0	65.0	61.0	64.0	68.0	74.0	79.0	81.0	71.9
Sunshine (mean number of hours)	120.9	131.6	167.4	204.0	260.4	282.0	325.5	297.6	234.0	189.1	135.0	114.7	205.2
Mean Daily Solar Radiation (MJ/m ²)	6.5	9.5	13.9	19.0	23.3	25.2	25.9	22.6	17.6	12.0	7.6	5.6	15.7
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.1	1.2	12.7	24.9	30.2	29.9	23.1	7.2	0.3	0.0	10.8
Number Days Minimum Temperature LE Threshold (mean monthly)	6.7	5.8	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.6	1.7
Number Days with Precipitation GE Threshold (mean monthly)	6.4	6.8	6.7	6.1	4.9	4.6	2.9	3.9	5.0	6.0	6.8	7.6	5.6

Table 10. Climatological conditions (Standard normals 1961-1990) for the city of Bari (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	12.1	12.7	14.7	17.9	22.2	25.8	28.4	28.3	25.4	21.0	17.1	13.5	19.9
Mean Minimum Dry Bulb Temperature (deg C)	5.0	5.3	6.7	9.0	12.9	16.6	19.1	19.1	16.5	12.8	9.1	6.4	11.5
Mean monthly Precipitation (mm)	50.8	57.2	52.1	47.4	36.7	32.0	27.0	39.2	62.0	64.6	54.1	63.0	48.8

Minimum monthly Precipitation (mm)	2.6	7.5	8.3	9.2	2.2	0.4	0.0	0.0	2.0	0.6	8.0	4.7
Maximum monthly Precipitation (mm)	117.0	136.2	124.5	216.2	112.6	117.2	97.5	175.8	206.6	167.9	154.7	132.5
Mean Relative Humidity (%)	77.0	74.0	72.0	68.0	68.0	65.0	64.0	65.0	68.0	72.0	76.0	78.0
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.1	1.1	6.3	17.1	27.3	27.1	17.9	4.2	0.2	0.0
Number Days Minimum Temperature LE Threshold (mean monthly)	1.8	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
Number Days with Precipitation GE Threshold (mean monthly)	7.3	7.9	7.3	6.5	5.1	4.5	2.6	3.7	5.1	6.4	6.7	8.2

Table 11. Climatological conditions (Standard normals 1961-1990) for the city of Gioia Del Colle (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	9.8	10.5	13.0	16.7	21.8	26.3	29.5	29.1	25.3	19.6	14.5	11.0	18.9
Mean Minimum Dry Bulb Temperature (deg C)	1.9	2.1	3.6	5.8	9.6	13.3	16.0	15.8	13.3	9.8	5.8	3.2	8.4
Mean monthly Precipitation (mm)	53.0	67.5	66.9	41.7	46.3	39.2	28.3	41.6	49.0	68.7	66.5	67.9	53.1
Minimum monthly Precipitation (mm)	4.3	2.1	9.4	6.0	5.2	0.6	0.0	0.0	0.0	1.3	12.8	5.6	
Maximum monthly Precipitation (mm)	144.1	218.6	173.3	106.7	152.2	189.3	112.8	143.7	149.2	176.1	160.4	199.9	
Mean Relative Humidity (%)	78.0	76.0	72.0	69.0	67.0	62.0	59.0	62.0	66.0	73.0	79.0	79.0	70.2
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.0	0.3	7.0	19.6	27.6	27.0	16.8	2.3	0.0	0.0	8.4
Number Days Minimum Temperature LE Threshold (mean monthly)	10.2	8.6	5.2	0.7	0.1	0.0	0.0	0.0	0.0	0.2	2.4	6.3	2.8

Number Days with Precipitation GE Threshold (mean monthly)	7.8	7.8	7.8	6.2	5.8	4.4	3.1	3.5	4.9	6.8	7.1	8.3	6.1
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Table 12. Climatological conditions (Standard normals 1961-1990) for the city of Brindisi (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	12.7	13.2	15.0	18.0	22.0	25.8	28.5	28.6	25.9	21.6	17.4	14.1	20.2
Mean Minimum Dry Bulb Temperature (deg C)	6.3	6.6	7.9	10.1	13.7	17.6	20.4	20.6	18.2	14.7	10.5	7.6	12.9
Mean monthly Precipitation (mm)	60.2	63.1	73.4	35.0	28.7	19.4	10.3	25.3	45.6	71.0	74.2	68.1	47.9
Minimum monthly Precipitation (mm)	10.6	2.9	4.2	0.3	0.6	0.1	0.0	0.0	1.3	3.8	7.3	3.6	
Maximum monthly Precipitation (mm)	140.9	140.9	190.3	71.9	79.6	70.7	39.7	104.5	138.2	176.7	273.5	183.1	
Mean Relative Humidity (%)	78.0	75.0	74.0	72.0	70.0	71.0	70.0	72.0	74.0	76.0	77.0	77.0	73.8
Sunshine (mean number of hours)	120.9	123.2	164.3	201.0	266.6	297.0	334.8	303.8	240.0	192.2	132.0	111.6	207.3
Mean Daily Solar Radiation (MJ/m ²)	6.8	9.8	14.5	19.5	24.3	27.2	27.6	24.4	18.5	12.6	8.1	6.1	16.6
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.0	0.6	5.6	17.4	29.1	29.6	20.2	3.7	0.1	0.0	8.9
Number Days Minimum Temperature LE Threshold (mean monthly)	0.9	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Number Days with Precipitation GE Threshold (mean monthly)	8.9	8.1	7.9	5.6	3.9	2.5	1.7	2.5	4.1	6.3	7.1	8.7	5.6

Table 13. Climatological conditions (Standard normals 1961-1990) for the city of Grottale (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	12.6	13.1	15.2	18.8	24.0	28.4	31.2	31.2	27.6	22.3	17.3	13.8	21.3
Mean Minimum Dry Bulb Temperature (deg C)	4.4	4.8	6.2	8.5	12.3	15.7	18.3	18.6	15.8	12.4	8.2	5.5	10.9
Mean monthly Precipitation (mm)	46.2	52.8	62.6	35.9	34.3	27.1	27.1	24.9	36.2	60.4	70.9	73.0	46.0
Minimum monthly Precipitation (mm)	3.1	4.3	11.9	5.4	1.2	2.8	0.0	0.0	0.8	0.1	0.9	6.1	
Maximum monthly Precipitation (mm)	109.6	141.0	147.3	120.6	138.0	80.4	147.6	100.0	98.6	193.6	288.0	198.9	
Mean Relative Humidity (%)	78.0	75.0	73.0	71.0	68.0	63.0	61.0	63.0	66.0	73.0	77.0	80.0	70.7
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.0	1.1	12.1	24.9	30.0	29.6	23.8	6.7	0.0	0.0	10.7
Number Days Minimum Temperature LE Threshold (mean monthly)	3.8	3.1	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.2	1.0
Number Days with Precipitation GE Threshold (mean monthly)	6.7	7.2	7.4	5.3	4.5	3.4	2.6	3.2	4.1	5.9	6.6	7.9	5.4

Table 14. Climatological conditions (Standard normals 1961-1990) for the city of Marina Di Ginosa (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	12.7	13.3	15.1	17.8	22.2	26.5	30.1	29.8	26.7	21.9	17.1	13.8	20.6
Mean Minimum Dry Bulb Temperature (deg C)	4.9	5.4	6.9	9.0	13.2	16.7	19.4	19.6	17.0	13.2	8.7	5.9	11.7
Mean monthly Precipitation (mm)	44.1	50.9	43.3	28.4	26.8	21.1	15.9	21.4	35.4	58.8	51.9	58.1	38.0

Minimum monthly Precipitation (mm)	3.9	1.9	7.0	1.5	6.4	0.0	0.0	0.0	0.7	2.0	4.3	2.6
Maximum monthly Precipitation (mm)	211.6	123.6	130.0	168.6	78.3	77.7	73.6	63.4	99.4	165.9	165.0	163.7
Mean Relative Humidity (%)	73.0	72.0	71.0	71.0	71.0	68.0	66.0	67.0	68.0	72.0	75.0	77.0
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.3	0.4	6.0	21.2	30.1	30.2	23.1	5.1	0.1	0.0
Number Days Minimum Temperature LE Threshold (mean monthly)	1.8	1.0	1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.0	0.4
Number Days with Precipitation GE Threshold (mean monthly)	5.0	6.2	6.0	4.4	4.5	2.7	1.9	3.1	4.2	5.5	5.5	6.3

Table 15. Climatological conditions (Standard normals 1961-1990) for the city of Lecce (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	12.6	13.3	15.5	19.0	24.0	28.3	31.2	30.9	27.4	22.1	17.3	13.8	21.3
Mean Minimum Dry Bulb Temperature (deg C)	4.6	4.9	6.4	8.6	12.4	16.2	18.6	19.0	16.5	12.9	9.0	6.0	11.3
Mean monthly Precipitation (mm)	63.0	53.6	67.6	38.4	27.5	20.3	18.2	32.3	53.5	80.6	91.0	81.4	52.3
Minimum monthly Precipitation (mm)	6.1	4.6	8.6	3.3	0.7	0.2	0.0	0.0	2.6	6.4	3.0	4.9	
Maximum monthly Precipitation (mm)	238.8	133.9	168.2	132.9	87.5	96.0	114.8	95.5	195.5	182.7	278.8	229.1	
Mean Relative Humidity (%)	82.0	77.0	75.0	74.0	70.0	66.0	63.0	67.0	71.0	77.0	81.0	83.0	73.8
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.1	1.1	12.9	25.4	29.7	29.9	24.0	6.5	0.0	0.0	10.8
Number Days Minimum Temperature LE Threshold (mean monthly)	3.5	2.9	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	0.8

Number Days with Precipitation GE Threshold (mean monthly)	8.3	7.8	7.6	5.6	3.9	2.6	1.8	2.9	4.7	6.5	7.4	8.7	5.7
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Table 16. Climatological conditions (Standard normals 1961-1990) for the city of S. Maria Di Leuca (Italy)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Maximum Dry Bulb Temperature (deg C)	12.3	12.5	14.1	16.8	21.1	25.1	28.4	28.5	25.4	21.2	17.0	13.8	19.7
Mean Minimum Dry Bulb Temperature (deg C)	7.5	7.6	8.9	11.3	14.9	18.6	21.3	21.5	19.2	15.6	12.1	9.0	14.0
Mean monthly Precipitation (mm)	72.6	60.2	63.7	29.2	19.3	18.4	17.0	21.8	40.4	96.5	90.1	86.2	51.3
Minimum monthly Precipitation (mm)	1.4	0.4	1.1	2.8	0.0	0.0	0.0	0.0	0.0	11.6	11.3	13.7	
Maximum monthly Precipitation (mm)	289.0	178.8	161.0	80.1	58.1	78.2	113.4	84.8	127.6	385.8	323.2	240.4	
Mean Relative Humidity (%)	78.0	77.0	78.0	78.0	76.0	74.0	69.0	72.0	75.0	79.0	79.0	79.0	76.2
Number Days Maximum Temperature GE Threshold (mean monthly)	0.0	0.0	0.0	0.1	3.2	14.6	28.5	29.4	18.4	1.9	0.0	0.0	8.0
Number Days Minimum Temperature LE Threshold (mean monthly)	0.4	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Number Days with Precipitation GE Threshold (mean monthly)	8.1	7.9	7.2	4.9	3.1	2.0	1.6	2.2	3.6	6.2	7.7	9.2	5.3

In this report are also used detailed (year by year) climatological values from the European Climate Assessment & Dataset project (ECA&D). The objective of ECA&D is to combine collation of daily series of observations at meteorological stations, quality control, analysis of extremes and dissemination of both the daily data and the analysis results. For a detailed data description the reader is referred to Klein Tank, AMG et al. , 2002. Daily dataset of 20th-century surface air temperature and precipitation series for the European Climate Assessment. Int. J. of Climatol., 22, 1441-1453.

A detailed climatological dataset are given in tables 17 to 39, for the stations of Brindesi (Italy) and Corfu (Greece) for all seasons and months and for each available year for the following parameters:

- Precipitation Sum (mm)
- Number of wet days (Rain >0.1mm)
- Number of Very heavy precipitation days (precipitation >= 20 mm).
- Number of Mostly sunny days (cloud cover <= 2 oktas).
- Number of Mostly cloudy days (cloud cover >= 6 oktas).
- Sunshine duration (h).
- Mean of daily mean temperature ($^{\circ}$ C).
- Number of frost days ($T_{min}<0^{\circ}$ C).
- Maximum number of consecutive frost days ($T_{min}<0^{\circ}$ C).
- Number of summer days ($T_{max}>25^{\circ}$ C).
- Maximum number of consecutive summer days ($T_{max}>25^{\circ}$ C).
- Mean of daily average relative humidity (%).

Table 17. Precipitation sum (mm). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1951	775.4	---	191.8	---	127.9	54.4	330	138.9	62.8	50.7	32.2	45	29.8	6.4	18.2	60.2	183.4	86.4	61.4
1952	681.3	570.5	204.8	228.8	134.6	110.3	161.3	94.6	72.8	71.9	43	19.7	0.1	106.8	3.4	31.8	40.5	89	107.7
1953	749.7	591.6	140.1	457.9	37.6	85.4	130.9	342.4	7.8	4.2	15.1	18.3	7.6	0.2	77.6	21.3	42.2	67.4	---
1954	840.6	---	138.5	---	200.4	6.1	276.1	138.1	157.6	88.4	25	87	6	0.1	0	20.4	155.4	100.3	62.3
1955	702	551.5	282.6	229.1	112.6	166.1	244.2	118.4	48.4	66.7	42.9	3	4.1	56.7	105.3	70.6	96.9	76.7	12.3
1956	885.8	675.1	155.3	438.2	161.1	37.9	177.4	57.2	368.7	63.3	64.4	33.4	34.2	3.6	0.1	19.6	28.9	128.9	83.5
1957	579.1	396.3	145.7	202.4	83.7	49.1	263.9	110.2	8.7	36.1	10.9	36.7	0.5	15	33.6	49	138.8	76.1	63.5
1958	467.6	392	126.8	118.6	111.5	37.1	237	46.3	8.8	58.5	28.5	24.5	32	0.3	4.8	36.7	43.8	156.5	26.9
1959	438.1	284.2	268.1	62.2	161.7	98.4	122.7	34.9	0.4	21.7	81.4	58.6	44.7	17	36.7	29.7	21.8	71.2	20
1960	661.6	368.5	196.8	209.3	205	25.7	147.9	79.3	110	66.2	86.2	52.6	6.1	19.5	0.1	32.3	25	90.6	93.7
1961	292.9	281	52.4	141.8	64.6	10.1	108.1	40.4	7.7	23.6	3.5	37.5	4	5.1	1	1.3	69.1	37.7	62
1962	453	313.1	96.4	111.1	178.1	5	128.4	12.2	36.9	95.2	27.5	55.4	4	1	0	8.5	83.1	36.8	92.4
1963	589.4	450.2	178.2	263.5	128.9	93.4	155.4	83.4	87.7	66.8	21.3	40.8	56.7	9.1	27.6	22.7	104.3	28.4	40.6
1964	500.8	280.8	153.1	83.3	141.1	44.6	232.9	17.1	25.6	64.8	55	21.3	24.4	18.4	1.8	32.2	85	115.7	39.5
1965	332.5	354.2	95.2	104	105.9	8.8	56.6	27.6	36.9	49.5	47.9	8.5	1	0	7.8	30	14.4	12.2	96.7
1966	517.3	345.7	156.4	248.2	126.3	37	153.5	140.9	10.6	70.9	17.8	37.6	13.2	10	13.8	64	41.8	47.7	49

1967	473.7	216.7	243.5	107.1	80.9	105.5	148.2	36	22.1	20.1	60.2	0.6	70.7	30.1	4.7	77.2	40.9	30.1	81
1968	724.9	271.8	249.9	164.3	121.2	160	200.1	44.8	38.5	36.5	10.2	74.5	56.6	1.2	102.2	5.2	3.8	191.1	160.3
1969	714.3	610.8	272.1	280	213.3	124.4	117.3	54.5	65.2	135.9	18.1	59.3	52.3	5.5	66.6	70.3	17.8	29.2	139.6
1970	600.6	384.7	197.1	256.5	142.1	19.5	273.4	91.1	25.8	81.2	7.8	53.1	1.9	14.9	2.7	116.7	140.2	16.5	48.7
1971	536.3	505.7	194.3	234.6	156.3	14.2	155	67.6	118.3	114.4	32.1	9.8	2	12	0.2	138.2	4.9	11.9	24.9
1972	803.4	279.8	292.7	235.7	76.7	136.6	241	113.5	97.3	27.3	43.7	5.7	17.9	14.2	104.5	106.7	127	7.3	138.3
1973	523.9	564.9	116.8	295.4	183.4	43.1	83.5	77	80.1	135.2	38.6	9.6	15.2	17.5	10.4	25.5	32.2	25.8	56.8
1974	751.5	350.2	242.6	193.7	195.8	81.1	289.4	73.7	63.2	98.5	71.9	25.4	22.1	13.9	45.1	64.2	169.6	55.6	48.3
1975	578.8	438.2	121.9	137.6	102.5	92	244.1	13.1	76.2	75.4	7.5	19.6	36.3	17.6	38.1	2.8	176.7	64.6	50.9
1976	659.9	531.9	140.4	229.7	142.2	57.5	245.9	65.4	113.4	60.9	50.1	31.2	19.5	25	13	1.6	51.1	193.2	35.5
1977	428.2	421.8	182.1	165.5	74.9	26.8	158.2	54.4	75.6	12	58.5	4.4	14.5	0	12.3	92.4	20	45.8	38.3
1978	621	389.6	206.8	261.7	154.4	50.4	170.8	97.4	126	62.1	57	35.3	6.2	0.1	44.1	64.1	79.1	27.6	22
1979	748.3	299.1	160.9	159.5	93.7	72.1	393.1	66.2	71.3	32.9	56.6	4.2	17.5	7.1	47.5	28	91.6	273.5	51.9
1980	707	748	135.5	201.6	262.9	51	179.8	117	32.7	181.3	24.5	57.1	6.2	5.6	39.2	2.9	83.4	93.5	63.6
1981	497.9	431.2	139.5	234.7	54.1	66.6	121.4	57	114.1	19.6	16.1	18.4	7	5.5	54.1	38.4	34.8	48.2	84.7
1982	743.5	424.1	221.2	228.1	173.7	78.6	250.6	14.1	129.3	113	44.5	16.2	0.1	12.6	65.9	81.9	77	91.7	97.2
1983	559.2	331	156.3	130.4	98.6	42.3	202	10.6	22.6	31.9	35.4	31.3	34.7	2	5.6	47.3	109.3	45.4	183.1
1984	559.5	612.4	133.4	357.6	170.2	39.1	134.1	57.1	117.4	100.1	56.9	13.2	0.8	0	38.3	24.2	47.5	62.4	41.6

1985	431	282	60.9	139.6	79.5	8.7	241.2	81	17	32.5	25.1	21.9	1.5	0	7.2	5.2	129.9	106.1	3.6
1986	651	558.4	127.4	191.3	153.9	41.1	252.2	46.8	140.9	131.1	18.7	4.1	17.3	23.8	0	63.5	54.7	134	16.1
1987	702.3	502.1	77.9	123.1	237	22.2	298.7	67.8	39.2	190.3	0.3	46.4	15.5	6.7	0	9	83.7	206	37.4
1988	438.5	529.5	132.5	186.6	99.8	25.6	110.3	64	85.2	53.2	37.2	9.4	24.8	0	0.8	60.3	27.2	22.8	53.6
1989	467	201.5	254.6	128.4	98.5	82.8	165	71.9	2.9	23.1	64.6	10.8	38.8	39.7	4.3	96.4	49.5	19.1	45.9
1990	514.2	173.5	101.1	100.7	72.6	17.3	243.1	41.1	13.7	4.2	41	27.4	6	10.1	1.2	15.4	80.5	147.2	126.4
1991	644.3	503.8	340.9	226.6	213	81.3	186	13.8	86.4	49.5	119	44.5	29.5	48.2	3.6	96.1	32.6	57.3	63.8
1992	524.5	228.4	210.3	102.3	181.2	47.9	106.2	18.4	20.1	36.2	123	22	34.8	12.9	0.2	17.4	82.3	6.5	150.7
1993	697.7	482	156.5	253.3	232.8	4.7	311.6	35.1	67.5	139.9	47.2	45.7	4.4	0	0.3	58.9	101.4	151.3	46
1994	482.3	555.3	93.7	298.8	71.5	8.7	92.3	138.7	114.1	3.8	54.8	12.9	5.7	0	3	17.3	34.6	40.4	57
1995	720.8	343.2	245	200.5	158.2	93.2	191.8	117.8	25.7	67.7	59.2	31.3	7.2	12	74	61.3	2.5	128	134.1
1996	922.9	659.6	207.8	447.4	177	49.9	279.5	113.2	200.1	81.7	51.3	44	7.1	0	42.8	62.6	168.2	48.7	103.2
1997	561.8	455.9	140.4	221	61.4	49.1	297	95.1	22.7	18	40.2	3.2	6	4	39.1	47.9	160.8	88.3	36.5
1998	637.9	479.7	165.8	202.1	91.1	73.8	256.3	126.3	39.3	28.5	20.5	42.1	0.2	50.4	23.2	29.4	53.6	173.3	51.1
1999	725.7	452.2	328	186.9	90.9	131	278.2	92.4	43.4	38.4	46.2	6.3	21	36.5	73.5	144.5	79.4	54.3	89.8
2000	480.7	354.6	68.9	196.4	65	16	243.1	16.6	90	24.5	35.3	5.2	16	0	0	12.4	129.7	101	50
2001	444.2	409.3	143.8	136.6	145.8	5.4	140.6	76	10.6	42	58	45.8	3.2	2	0.2	34.6	54.2	51.8	65.8
2002	789.3	269	399.1	108.1	153.7	52.4	324.5	27.2	15.1	54.9	48.2	50.6	6.6	24.6	21.2	247.9	38.9	37.7	216.4

2003	610.9	440.1	191.2	345	97.2	38.9	259.9	68.4	60.2	18.5	46.7	32	4.9	5.4	28.6	73.6	68.1	118.2	86.3
2004	---	---	---	---	---	---	---	79.1	---	---	---	---	---	---	---	---	---	---	---
2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4.3	29.4	46.9
2007	532.6	255.8	169.9	120.8	202	10.2	179.1	12.7	61.2	101.3	76.4	24.3	9.6	0	0.6	59	41.5	78.6	67.4
2008	666.6	328.7	130.9	148.3	99	23.8	229.9	57.2	23.7	60.3	21.4	17.3	20.9	2.9	0	68.4	65.2	96.3	233
2009	666.2	743.7	202.8	445.2	238.8	74.5	127.5	182.9	29.3	137	96.1	5.7	71.9	0	2.6	26.5	48.1	52.9	13.2
2010	---	---	286.6	---	221.1	47.9	400.8	---	---	89	49.8	82.3	8	16	23.9	106.6	197.9	96.3	27.6
2011	485.9	550.7	184.2	143.5	190.6	22.2	140.4	53.5	62.4	113	33.4	44.2	3.4	18.8	0	84.4	11.2	44.8	16.8
2012	---	---	292.4	---	139	69.2	263.6	---	200.8	18	102	19	0.8	66.4	2	102.2	33	128.4	141.8

Table 18. Number of wet days (Rain >0.1mm). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1951	82	---	26	---	18	9	28	13	9	6	6	6	3	3	3	5	15	8	5
1952	73	55	20	26	15	5	22	10	11	6	2	7	0	3	2	6	3	13	10
1953	62	46	18	28	13	5	16	16	2	2	6	5	3	0	2	2	9	5	---
1954	84	---	15	---	20	3	26	13	16	10	5	5	3	0	0	2	9	15	6
1955	92	63	33	31	15	16	33	14	11	8	6	1	2	6	8	10	12	11	3

1956	86	67	20	33	23	5	18	12	18	11	9	3	4	1	0	3	3	12	10
1957	74	45	24	25	16	8	23	13	2	5	3	8	0	3	5	5	9	9	12
1958	69	55	19	24	25	4	21	11	1	13	9	3	3	0	1	3	2	16	7
1959	62	36	30	13	20	13	18	6	0	5	7	8	5	4	4	2	5	11	5
1960	78	50	25	23	27	4	19	11	7	11	12	4	1	3	0	5	5	9	10
1961	49	41	10	23	10	3	13	10	3	4	1	5	1	2	0	1	6	6	10
1962	71	45	12	21	20	2	20	4	7	12	5	3	2	0	0	2	9	9	18
1963	82	74	22	47	21	8	14	15	14	9	6	6	5	1	2	2	8	4	10
1964	67	44	22	22	19	7	21	6	6	10	6	3	3	3	1	6	9	6	8
1965	56	46	19	25	16	2	13	8	9	6	8	2	0	0	2	7	1	5	8
1966	68	35	21	22	17	6	21	12	2	7	4	6	3	1	2	5	7	9	10
1967	56	42	24	21	15	9	11	6	5	5	10	0	2	5	2	5	3	3	10
1968	78	38	26	24	18	14	18	9	5	8	4	6	6	1	7	2	2	14	14
1969	90	64	30	32	25	14	16	7	11	16	6	3	7	2	5	7	2	7	17
1970	69	56	18	37	18	5	18	13	7	10	3	5	1	3	1	5	9	4	8
1971	66	58	17	31	19	4	15	12	11	14	4	1	1	3	0	8	2	5	5
1972	81	49	26	37	11	11	21	19	13	5	4	2	1	4	6	9	10	2	6
1973	74	52	22	29	22	8	13	11	12	11	9	2	4	2	2	3	6	4	8
1974	72	42	28	26	18	9	24	9	9	6	8	4	2	2	5	7	10	7	3

1975	63	37	20	12	16	11	21	2	7	8	2	6	4	2	5	1	11	9	6
1976	77	46	26	20	23	8	24	6	8	6	12	5	2	4	2	1	8	15	8
1977	52	51	19	26	9	4	16	11	7	2	6	1	2	0	2	8	3	5	5
1978	75	41	29	27	24	5	15	11	11	6	10	8	2	0	3	6	6	3	9
1979	76	44	21	31	12	11	24	12	10	4	6	2	3	3	5	2	8	14	7
1980	82	59	21	26	24	7	21	10	9	11	5	8	1	1	5	1	9	11	11
1981	72	56	18	31	10	7	21	9	11	5	2	3	2	1	4	6	6	9	14
1982	72	55	19	30	21	5	21	4	12	10	9	2	0	2	3	3	11	7	9
1983	59	43	19	20	14	7	17	4	7	5	6	3	4	1	2	3	6	8	10
1984	72	57	22	33	23	5	16	10	13	10	7	6	0	0	5	4	6	6	5
1985	56	39	14	19	18	3	20	12	2	8	5	5	1	0	2	1	10	9	1
1986	64	57	14	25	17	6	12	9	15	13	3	1	3	3	0	4	4	4	5
1987	63	42	15	22	20	6	14	11	6	12	0	8	4	2	0	1	3	10	6
1988	57	45	18	22	19	4	13	9	7	10	6	3	4	0	0	5	4	4	5
1989	46	19	26	9	11	11	14	3	1	2	6	3	6	3	2	6	3	5	6
1990	55	23	14	13	11	2	20	3	4	2	5	4	1	1	0	3	8	9	15
1991	70	49	31	26	24	9	21	3	8	6	10	8	3	5	1	4	8	9	5
1992	55	34	25	13	17	8	10	3	5	4	10	3	6	2	0	4	4	2	12
1993	64	38	16	23	18	1	25	3	8	9	5	4	1	0	0	6	5	14	9

1994	55	51	14	31	10	2	14	12	10	1	7	2	1	0	1	3	4	7	7
1995	99	50	39	25	23	21	24	13	5	14	5	4	2	3	16	9	1	14	13
1996	80	58	26	35	21	3	23	12	10	8	7	6	1	0	2	10	8	5	11
1997	53	33	16	17	12	5	21	4	2	3	8	1	1	1	3	2	10	9	9
1998	64	48	18	22	16	4	20	8	5	7	4	5	0	2	2	5	7	8	11
1999	76	51	29	29	19	10	19	8	10	7	10	2	4	3	3	7	4	8	10
2000	55	38	15	22	10	2	25	3	9	4	5	1	2	0	0	7	9	9	6
2001	67	42	21	21	17	4	16	12	3	3	10	4	2	2	0	3	3	10	15
2002	84	46	40	26	23	10	23	6	5	7	8	8	3	3	4	14	5	4	17
2003	67	47	23	36	12	6	21	11	8	2	7	3	1	2	3	7	8	6	9
2004	---	---	---	---	---	---	---	10	---	---	---	---	---	---	---	---	---	---	---
2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	3	7
2007	76	33	22	20	20	4	24	4	9	9	5	6	4	0	0	7	8	9	15
2008	71	55	16	29	16	4	20	10	4	9	5	2	2	2	0	5	4	11	17
2009	68	68	22	40	24	8	11	18	5	13	9	2	7	0	1	3	5	3	2
2010	---	---	27	---	20	5	25	---	---	6	9	5	2	1	2	8	10	7	6
2011	52	46	18	20	21	4	10	8	6	9	4	8	1	3	0	2	2	6	3
2012	---	---	21	---	18	3	11	---	16	3	10	5	0	2	1	3	4	4	8

Table 19. Number of very heavy precipitation days (precipitation >= 20 mm). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN												
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1951	13	---	3	---	1	1	7	2	1	1	0	0	1	0	0	2	4	1	1
1952	9	10	2	4	2	1	1	2	1	1	1	0	0	1	0	0	0	1	2
1953	11	8	1	7	0	1	2	5	0	0	0	0	0	0	1	0	0	2	---
1954	11	---	1	---	2	0	3	2	3	1	0	1	0	0	0	0	3	0	1
1955	7	7	2	3	1	2	2	1	1	1	0	0	0	0	2	0	1	1	0
1956	6	6	0	4	0	0	1	0	4	0	0	0	0	0	0	0	0	1	1
1957	6	5	1	3	1	0	3	2	0	1	0	0	0	0	0	1	2	0	0
1958	3	2	1	0	0	1	2	0	0	0	0	0	1	0	0	0	1	1	0
1959	4	3	3	1	1	2	0	1	0	0	1	0	1	0	1	0	0	0	0
1960	9	5	2	4	2	0	2	1	3	1	0	1	0	0	0	1	0	1	1
1961	2	2	0	1	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0
1962	3	3	1	0	2	0	1	0	0	1	0	1	0	0	0	0	1	0	0
1963	7	3	3	1	2	2	2	0	1	1	0	1	1	0	1	0	2	0	0
1964	6	3	1	0	2	0	4	0	0	1	1	0	0	0	0	0	2	2	0
1965	4	5	1	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	2
1966	4	5	1	4	1	0	1	2	0	1	0	0	0	0	0	1	0	0	0

1967	4	0	2	0	0	1	3	0	0	0	0	0	1	0	0	1	1	1	0
1968	10	2	4	0	1	3	3	0	0	0	0	1	1	0	2	0	0	3	3
1969	7	9	3	4	3	1	1	1	0	2	0	1	1	0	0	1	0	0	1
1970	7	4	2	3	1	0	4	2	0	1	0	0	0	0	0	2	2	0	0
1971	7	6	3	3	2	0	2	0	3	1	1	0	0	0	0	2	0	0	0
1972	8	0	4	0	1	1	4	0	0	0	1	0	0	0	1	2	2	0	2
1973	6	9	0	4	3	0	0	1	1	3	0	0	0	0	0	0	0	0	1
1974	12	4	4	3	2	2	5	2	0	1	1	0	1	0	1	1	3	1	1
1975	7	8	0	3	1	0	3	0	2	1	0	0	0	0	0	0	3	0	1
1976	9	10	0	6	1	0	3	2	3	1	0	0	0	0	0	0	0	3	0
1977	6	5	3	2	1	0	3	0	2	0	1	0	0	0	0	2	0	1	0
1978	8	6	1	4	1	0	3	2	2	1	0	0	0	0	0	1	2	0	0
1979	10	2	3	0	1	1	7	0	0	0	1	0	0	0	1	1	2	4	1
1980	10	14	0	3	5	0	2	2	0	5	0	0	0	0	0	0	1	1	1
1981	1	4	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1982	13	4	4	2	2	3	4	0	2	2	0	0	0	0	3	1	1	2	2
1983	8	5	2	2	1	0	3	0	0	0	0	1	0	0	0	1	2	0	4
1984	6	10	1	6	3	0	1	1	1	2	1	0	0	0	0	0	1	0	0

1985	6	2	0	1	0	0	5	1	0	0	0	0	0	0	0	0	0	3	2	0	
1986	6	7	2	1	1	0	4	0	1	1	0	0	0	0	0	0	0	2	1	1	0
1987	11	5	1	0	4	0	7	0	0	3	0	1	0	0	0	0	0	2	5	0	
1988	3	9	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
1989	7	2	5	2	1	2	3	1	0	0	1	0	1	1	0	2	1	0	0	0	
1990	7	2	0	1	0	0	3	1	0	0	0	0	0	0	0	0	0	1	2	3	
1991	9	7	6	4	3	1	3	0	1	0	2	1	0	1	0	2	0	1	1	1	
1992	7	3	3	1	4	0	1	0	0	1	3	0	0	0	0	0	0	1	0	2	
1993	11	6	2	3	3	0	7	0	1	2	1	0	0	0	0	1	2	4	0	0	
1994	5	9	1	3	1	0	0	2	1	0	1	0	0	0	0	0	0	0	0	1	
1995	8	4	1	3	2	0	2	2	0	1	1	0	0	0	0	0	0	0	2	2	
1996	13	10	1	6	2	1	5	1	3	2	0	0	0	0	1	0	4	1	1	1	
1997	6	7	2	2	0	1	4	1	0	0	0	0	0	0	1	1	2	1	0	0	
1998	9	5	3	2	1	2	4	2	0	0	0	1	0	1	1	0	1	3	0	0	
1999	8	5	5	1	0	2	4	1	0	0	0	0	1	1	3	1	0	1	0	1	
2000	6	3	0	2	0	0	4	0	1	0	0	0	0	0	0	0	3	1	1	1	
2001	5	6	3	1	3	0	2	0	0	1	0	2	0	0	0	1	1	0	0	0	
2002	10	2	3	0	1	0	5	0	0	1	0	0	0	0	0	3	1	1	1	4	

2003	7	7	3	5	1	0	4	0	1	0	0	1	0	0	0	2	1	1	1
2004	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---
2005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0	0	0
2007	6	2	1	0	3	0	2	0	0	2	1	0	0	0	0	0	2	1	
2008	9	4	2	1	1	0	5	0	0	1	0	0	0	0	0	2	1	2	3
2009	9	10	3	5	4	1	2	2	0	2	2	0	1	0	0	0	1	1	0
2010	---	---	3	---	3	0	9	---	---	2	0	1	0	0	0	2	4	3	0
2011	5	10	2	1	3	0	1	1	0	2	1	0	0	0	0	1	0	0	0
2012	---	---	5	---	1	1	5	---	2	0	1	0	0	1	0	3	0	2	1

Table 20. Number of mostly sunny days (cloud cover <= 2 oktas). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1999	97	---	72	---	20	51	12	9	4	7	5	8	10	20	21	8	4	0	1
2000	145	32	101	16	26	73	25	6	9	12	8	6	20	24	29	14	6	5	6
2001	130	28	97	13	20	70	30	0	7	4	4	12	22	23	25	11	13	6	3
2002	101	37	73	12	28	49	13	4	5	6	10	12	19	16	14	2	9	2	2
2003	134	32	102	7	33	70	21	2	3	14	6	13	21	26	23	13	5	3	5

2004	114	19	92	8	19	60	28	0	3	3	5	11	14	22	24	16	7	5	4
2005	95	32	69	11	29	47	9	3	4	9	7	13	15	22	10	2	5	2	3
2006	123	22	89	13	21	58	31	5	5	2	5	14	19	25	14	12	10	9	3
2007	161	48	119	19	38	74	27	12	4	10	15	13	19	29	26	17	8	2	6
2008	147	37	100	20	28	71	27	7	7	7	6	15	14	27	30	8	13	6	7
2009	139	39	110	12	33	69	31	1	4	8	5	20	15	27	27	16	11	4	1
2010	147	34	109	8	36	70	29	3	4	11	13	12	16	24	30	14	9	6	5
2011	179	40	117	17	36	71	48	3	9	8	14	14	19	22	30	18	17	13	12
2012	182	71	128	24	41	87	34	8	4	17	7	17	29	28	30	17	11	6	8

Table 21. Number of mostly cloudy days (cloud cover >= 6 oktas). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1999	96	---	35	---	33	8	20	10	12	10	11	12	3	2	3	4	5	11	13
2000	62	50	21	28	20	2	19	4	11	6	10	4	1	1	0	5	9	5	6
2001	75	53	18	27	30	0	15	16	5	12	9	9	0	0	0	0	3	12	9
2002	103	51	37	24	28	11	28	7	8	12	8	8	4	4	3	10	5	13	21
2003	81	64	20	45	13	3	29	13	11	1	9	3	0	0	3	5	14	10	12
2004	113	73	33	36	34	8	31	15	9	13	13	8	6	1	1	4	12	15	16
2005	92	78	21	40	21	4	30	11	13	11	6	4	2	0	2	7	14	9	13
2006	91	82	24	42	31	6	18	11	18	17	11	3	2	2	2	4	10	4	7
2007	88	53	18	25	27	3	27	7	11	14	5	8	3	0	0	2	15	10	13
2008	64	61	21	27	25	0	13	11	3	9	12	4	0	0	0	5	0	8	12
2009	95	56	25	38	27	4	21	14	12	10	14	3	4	0	0	4	7	10	17
2010	76	64	26	38	27	3	20	11	10	9	9	9	3	0	0	5	7	8	5
2011	46	42	12	20	18	0	11	10	5	7	4	7	0	0	0	1	5	5	2
2012	56	37	14	23	15	1	12	6	15	4	10	1	0	1	0	2	2	8	7

Table 22. Sunshine duration (h). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												

1999	2528.1	---	1614	---	637.5	917.1	598	124	145.3	182.2	205.2	250.1	281.5	330	305.6	241.6	227.1	129.3	106.2
2000	2682	953.5	1713.7	379.8	710.8	996.7	562.9	152	121.6	217.3	204.5	289	310.5	347.8	338.4	223.5	178	161.4	138
2001	2583.4	961.3	1621.1	442.2	621.4	928.9	619.3	125.8	178.4	179.7	191.2	250.5	326.7	308	294.2	250.5	212.8	156	109.6
2002	2363.6	924.1	1537.3	402.5	622.3	891	494.4	151.4	141.5	152.8	203.8	265.7	297.6	297.3	296.1	176.8	197.7	119.9	63
2003	2742.1	919.9	1784	341.3	781.8	1001.8	548.5	124.6	153.7	261	214.3	306.5	334.7	357.7	309.4	261.4	156.2	130.9	131.7
2004	2555.8	862.2	1686	395.7	638.5	971.9	583.2	121	143	179.4	186.3	272.8	285.7	355.5	330.7	255	211.3	116.9	98.2
2005	2536.7	898.8	1644.9	373	725.5	940.8	481.9	136.1	138.7	197.6	236.9	291	293.9	349.2	297.7	176.2	160.7	145	113.7
2006	2733.9	859.4	1738.8	395.2	675.6	963.7	658.5	161.6	119.9	158.5	199.7	317.4	314.4	347.1	302.2	258	211	189.5	154.6
2007	2732.7	1067	1818.7	479.4	734.1	1013.4	541	178.2	146.6	187.1	276.1	270.9	302.4	373.7	337.3	258.3	137.2	145.5	119.4
2008	2802.5	949.1	1751.1	462.5	708.1	1030.1	594.6	157.3	185.8	203.9	203.8	300.4	309.5	364.7	355.9	216.8	232.8	145	126.6
2009	2531.5	884.4	1734.8	321.2	676.7	1007.8	553.4	74.7	119.9	185.4	166.3	325	298.5	375.6	333.7	235.7	196.3	121.4	99
2010	---	---	---	---	---	---	501.1	85.5	---	---	---	220.1	285.9	327.6	274.9	222.2	169.5	109.4	120.4
2011	2803.4	851.5	1825.7	386	713.4	1036.3	626.3	126.2	139.4	186.6	256.6	270.2	329	349.3	358	262.6	207.5	156.2	161.8
2012	2671.1	972.5	1771	388.9	699.3	1022.4	594.7	131.1	96	219.9	195.1	284.3	348.1	333.5	340.8	269.2	215.1	110.4	127.6

Table 23. Mean of daily mean temperature (°C). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1951.0	17.0	---	20.9	---	14.9	23.6	18.3	10.4	11.7	12.9	13.9	17.8	22.0	23.9	24.7	23.1	16.9	15.0	11.7
1952.0	16.9	12.1	21.8	10.0	14.7	24.7	18.1	9.5	8.7	10.7	15.6	18.0	23.0	25.2	25.8	23.2	18.0	13.1	12.1

1953.0	16.3	11.7	20.9	9.8	14.1	23.6	17.9	8.1	9.0	9.6	14.8	17.8	21.7	24.9	24.2	21.8	18.7	13.2	10.7
1954.0	16.2	11.9	20.6	8.9	14.3	23.5	17.7	7.7	8.2	12.7	13.7	16.6	22.7	24.0	23.9	22.5	17.2	13.3	11.4
1955.0	17.1	13.0	20.5	11.9	14.4	23.4	17.9	12.0	12.4	11.8	12.5	19.0	21.9	25.1	23.3	21.2	18.4	14.3	12.7
1956.0	16.2	12.2	20.9	10.2	14.3	23.4	17.8	10.6	7.2	10.0	14.4	18.4	20.3	24.1	25.6	22.4	17.2	13.9	9.9
1957.0	17.1	12.3	21.3	10.3	14.2	25.0	18.6	9.4	11.8	11.5	14.5	16.5	24.1	25.0	25.7	21.5	19.3	14.9	10.4
1958.0	16.7	12.7	20.8	10.5	13.8	24.0	17.8	9.9	11.4	10.1	13.0	18.4	22.0	24.3	25.8	21.2	17.6	14.6	12.5
1959.0	16.3	12.6	20.3	10.1	15.0	23.1	16.9	8.3	9.4	13.1	14.1	17.7	20.7	24.5	24.0	20.9	16.2	13.6	12.2
1960.0	17.0	12.6	20.6	11.2	14.7	23.4	18.7	10.1	11.3	12.4	14.0	17.7	22.2	23.2	24.7	21.7	19.3	15.2	12.2
1961.0	16.8	13.0	21.1	10.5	15.3	23.5	18.5	9.5	9.7	12.0	16.3	17.7	21.9	24.4	24.1	21.8	18.5	15.1	10.6
1962.0	16.7	12.5	21.0	10.1	14.3	23.7	18.8	10.7	8.8	10.8	14.0	18.0	20.8	24.4	25.7	23.0	19.3	14.3	9.8
1963.0	16.9	11.9	21.2	9.0	14.1	24.4	19.1	7.9	9.4	10.5	14.3	17.5	22.0	25.7	25.3	22.7	18.0	16.6	12.8
1964.0	16.6	13.1	20.8	10.5	14.9	23.7	17.8	8.6	10.0	12.5	14.4	17.9	22.6	24.0	24.3	21.3	17.9	14.3	11.5
1965.0	16.5	12.2	20.6	9.6	14.2	23.6	18.3	10.1	7.1	11.7	13.4	17.5	21.5	25.5	23.7	22.0	17.9	14.9	11.9
1966.0	16.9	12.8	21.2	10.8	14.7	24.0	18.3	8.5	12.3	11.3	15.2	17.8	22.9	23.9	25.1	21.8	20.0	13.0	10.3
1967.0	16.4	12.1	20.3	9.1	14.1	23.1	19.0	7.9	9.2	11.7	12.8	17.8	19.6	24.3	25.3	22.1	19.5	15.5	11.2
1968.0	16.9	12.8	21.3	10.2	15.7	23.3	18.4	8.0	11.4	11.3	15.8	19.9	21.6	24.8	23.5	22.1	18.0	15.0	11.4
1969.0	16.8	12.7	20.8	10.5	15.1	22.9	19.0	10.2	9.9	11.6	14.0	19.7	20.7	23.4	24.4	22.6	18.7	15.8	9.8
1970.0	16.6	12.8	20.7	10.2	14.0	23.8	17.7	10.7	10.1	11.4	14.2	16.5	22.2	23.8	25.4	22.2	16.7	14.3	11.5

1971.0	16.6	12.1	21.0	10.8	14.4	24.1	17.1	11.2	9.6	9.5	14.9	18.7	22.3	23.8	26.1	20.3	16.9	13.9	11.0
1972.0	16.6	12.9	20.7	11.2	15.4	23.5	16.2	11.0	11.5	13.0	15.4	17.8	22.4	24.2	23.8	20.2	14.7	13.7	10.3
1973.0	16.5	11.5	20.8	10.2	13.4	23.6	18.6	10.6	9.6	9.9	12.1	18.1	21.6	25.0	24.2	23.6	19.4	12.9	10.4
1974.0	16.1	12.5	20.4	10.4	13.8	23.4	16.9	10.0	10.8	11.5	13.2	16.5	21.3	23.8	24.9	22.6	15.8	12.3	10.2
1975.0	16.1	11.3	20.4	9.2	14.5	22.6	17.6	8.8	8.5	12.0	13.7	17.7	20.5	23.3	24.1	22.9	17.8	12.1	10.8
1976.0	15.8	11.6	19.6	9.9	13.4	22.2	17.6	8.6	10.2	10.0	12.8	17.2	21.0	23.6	22.0	20.7	18.6	13.5	10.7
1977.0	16.5	12.8	20.5	10.7	14.8	23.4	17.2	9.8	11.8	12.5	13.4	18.5	21.0	25.1	24.0	20.7	17.0	13.9	9.8
1978.0	15.7	12.1	19.4	10.0	13.6	22.1	16.6	9.9	10.5	11.3	13.2	16.2	21.0	22.3	23.1	20.3	17.9	11.6	11.0
1979.0	16.8	12.2	20.6	10.2	14.9	23.8	18.0	8.5	11.3	13.1	13.5	18.0	23.0	24.3	24.1	20.7	19.2	14.1	12.3
1980.0	15.9	12.6	19.9	10.4	13.1	23.2	17.9	9.1	9.9	11.2	12.1	16.0	20.8	24.0	24.7	21.4	18.1	14.2	9.5
1981.0	16.1	11.7	20.6	8.6	14.5	23.4	17.2	7.6	8.7	12.0	14.1	17.3	22.7	23.4	24.1	21.9	18.6	11.2	10.6
1982.0	16.9	11.7	21.5	9.8	14.0	24.7	18.8	10.2	8.6	10.7	13.3	18.0	23.9	24.9	25.3	23.7	18.6	14.1	11.2
1983.0	16.5	12.2	21.1	9.7	15.0	23.6	17.8	9.8	8.1	11.4	14.9	18.6	20.5	25.6	24.5	22.4	17.6	13.4	10.7
1984.0	16.4	12.0	20.1	10.1	13.9	22.7	18.5	10.2	9.5	10.8	13.6	17.3	20.6	23.8	23.7	21.6	18.8	15.0	11.5
1985.0	16.9	12.3	21.4	9.6	14.8	24.3	18.5	8.1	9.0	11.4	14.2	18.8	22.5	25.3	25.0	22.6	18.1	15.0	12.1
1986.0	17.1	12.8	21.7	10.6	15.5	24.4	18.4	10.1	9.5	11.8	14.5	20.1	22.7	24.2	26.2	22.5	18.6	14.1	9.6
1987.0	17.1	11.9	21.6	10.1	13.1	24.6	19.8	10.0	10.8	8.1	14.6	16.7	21.7	26.4	25.7	24.7	19.9	14.5	11.8
1988.0	17.1	13.2	21.7	11.1	14.7	25.1	17.6	11.4	10.2	11.0	14.0	19.1	22.1	26.8	26.2	22.0	18.7	12.1	10.7

1989.0	16.8	12.6	21.0	10.3	15.3	23.9	17.4	9.3	11.0	13.2	15.3	17.3	20.9	25.4	25.2	21.9	16.8	13.6	11.4
1990.0	17.3	12.5	21.6	10.6	15.6	24.2	19.2	9.7	10.6	12.9	15.0	18.8	22.4	25.3	24.9	22.5	19.7	15.2	9.8
1991.0	16.5	12.9	20.6	9.5	14.2	23.9	18.7	9.5	9.1	13.5	13.1	15.8	22.0	24.8	24.8	22.9	18.6	14.7	8.2
1992.0	17.5	12.0	22.0	8.8	15.3	24.9	19.7	9.5	8.8	11.8	15.1	19.1	22.2	24.8	27.6	23.0	20.2	15.7	11.4
1993.0	16.9	12.5	21.4	9.6	14.5	24.3	18.7	9.4	8.0	10.1	14.4	19.2	22.9	24.1	25.9	21.9	19.8	14.4	12.3
1994.0	18.1	13.4	22.9	11.1	15.8	26.2	19.5	10.6	10.2	12.8	14.6	19.9	23.2	27.5	27.9	24.0	19.6	15.1	11.0
1995.0	16.7	12.9	20.9	10.7	14.2	24.2	17.1	9.3	11.9	10.8	13.3	18.5	22.2	25.8	24.6	20.7	17.9	12.6	12.6
1996.0	16.5	12.1	20.9	10.5	14.3	24.2	17.6	10.4	8.5	10.3	14.1	18.4	22.8	24.6	25.2	20.2	17.5	14.9	11.1
1997.0	16.9	12.7	21.1	10.6	14.1	24.6	18.3	10.6	10.1	12.0	11.5	18.6	24.1	25.1	24.5	22.5	17.4	15.2	11.2
1998.0	17.2	12.6	22.1	10.9	14.4	25.6	18.3	10.4	11.1	10.3	14.7	18.4	23.6	26.4	26.7	22.5	19.0	13.4	9.6
1999.0	17.5	12.3	22.0	9.7	15.7	24.8	18.8	10.2	9.2	12.0	15.1	19.8	23.4	24.7	26.3	22.6	19.4	14.2	12.0
2000.0	18.0	12.5	22.9	10.1	16.1	25.5	19.9	8.7	9.5	11.1	16.0	21.3	24.1	25.9	26.4	23.5	19.7	16.5	13.0
2001.0	18.0	14.8	22.1	12.2	16.7	25.1	19.4	12.2	11.4	15.8	14.2	19.9	22.8	25.7	26.8	22.8	20.5	15.0	9.1
2002.0	17.7	13.5	22.0	10.3	16.4	25.3	18.0	9.1	12.8	14.6	15.0	19.6	23.7	26.2	25.8	21.5	17.7	14.8	11.0
2003.0	17.9	12.2	23.2	9.7	15.4	27.3	18.9	10.6	7.3	11.6	14.1	20.5	26.3	27.5	28.1	22.6	18.4	15.6	11.1
2004.0	17.0	12.8	20.9	10.4	14.3	23.9	18.7	9.5	10.5	11.5	14.4	17.1	21.9	24.8	25.1	21.8	20.4	13.9	12.4
2005.0	16.4	12.4	21.1	9.8	14.5	23.8	17.9	9.1	7.8	10.6	14.1	18.7	22.1	25.4	24.0	22.3	17.8	13.5	10.3
2006.0	16.8	11.8	21.2	9.5	14.7	23.9	18.3	8.5	9.6	11.1	14.3	18.8	21.7	25.5	24.6	22.2	19.4	13.3	12.0

2007.0	17.3	13.4	22.0	11.6	15.7	25.5	16.9	11.0	11.8	12.9	14.8	19.5	24.1	26.0	26.2	21.1	16.8	12.9	9.8
2008.0	17.4	12.1	22.0	9.8	15.7	25.5	18.1	10.3	9.5	13.0	14.9	19.1	23.5	26.5	26.5	21.5	18.0	14.8	11.1
2009.0	17.0	12.3	22.0	9.9	15.2	24.5	18.2	10.0	8.6	11.0	14.9	19.7	22.1	25.2	26.1	23.7	17.1	14.0	11.5
2010.0	---	---	21.7	---	---	24.8	18.2	9.9	---	11.6	15.0	18.5	22.9	25.5	25.9	21.7	17.3	15.7	11.3
2011.0	17.4	12.7	22.0	10.4	15.3	24.8	19.2	9.7	10.1	12.4	14.8	18.4	23.5	25.1	26.0	24.7	18.7	14.3	11.5
2012.0	---	---	22.7	---	15.3	26.2	20.0	---	8.7	12.8	15.3	17.9	24.1	27.6	26.9	23.9	19.7	16.3	10.5

Table 24. Number of frost days ($T_{min} < 0^{\circ}C$). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL (HALF YEAR)	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN (SON)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(DJF)	(MAM)	(JJA)															
1951	0	---	0	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1954	3	3	0	3	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	6	6	0	3	3	0	0	0	3	3	0	0	0	0	0	0	0	0	0
1957	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1958	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1960	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1961	3	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2
1962	1	3	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1963	6	6	0	4	2	0	0	4	0	2	0	0	0	0	0	0	0	0
1964	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1965	4	4	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0
1966	2	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
1967	2	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
1968	2	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
1969	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	4	3	0	3	0	0	0	2	1	0	0	0	0	0	0	0	0	1
1977	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1978	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1979	3	3	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1983	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	5	5	0	5	0	0	0	4	1	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	4	4	0	0	4	0	0	0	0	4	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993	3	3	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0
1994	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1995	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1996	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2008	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	2	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1
2010	0	1	0	1	0	0	0	0	---	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 25. Maximum number of consecutive frost days($T_{min} < 0^\circ$). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1951	0	---	0	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1954	2	2	0	2	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	3	3	0	2	3	0	0	0	2	3	0	0	0	0	0	0	0	0	0
1957	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1958	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1961	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
1962	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1963	2	2	0	2	2	0	0	2	0	2	0	0	0	0	0	0	0	0	0
1964	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
1965	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
1966	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0

1967	2	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
1968	2	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
1969	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	2	2	0	2	0	0	0	2	1	0	0	0	0	0	0	0	0	1
1977	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1979	3	3	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1983	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1985	4	4	0	4	0	0	0	4	1	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	3	3	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1994	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1995	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2008	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
2010	0	1	0	1	0	0	0	0	0	---	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 26. Number of summer days ($T_{max} > 25^{\circ}C$). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL (HALF YEAR)	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(DJF)	(MAM)	(JJA)	(SON)														
1951	116	---	116	---	10	82	24	0	0	0	0	10	22	31	29	24	0	0	0
1952	121	2	115	0	12	82	27	0	0	2	1	9	20	31	31	23	4	0	0
1953	98	4	95	0	2	73	23	0	0	0	0	2	16	31	26	20	3	0	0
1954	110	3	110	0	1	84	25	0	0	0	0	1	23	31	30	25	0	0	0
1955	114	0	110	0	13	81	20	0	0	0	0	13	22	29	30	16	3	1	0

1956	117	4	111	0	13	74	30	0	0	0	2	11	14	29	31	24	6	0	0
1957	112	6	110	0	2	86	24	0	0	0	1	1	24	31	31	22	2	0	0
1958	107	2	101	0	9	81	17	0	0	0	0	9	19	31	31	11	6	0	0
1959	91	6	91	0	4	75	12	0	0	0	0	4	15	29	31	12	0	0	0
1960	112	0	105	0	5	83	24	0	0	0	0	5	23	29	31	17	7	0	0
1961	114	7	110	0	6	79	29	0	0	0	1	5	17	31	31	25	4	0	0
1962	109	4	107	0	11	74	24	0	0	0	0	11	17	27	30	22	2	0	0
1963	105	2	103	0	0	78	27	0	0	0	0	0	18	31	29	25	2	0	0
1964	104	2	100	0	2	80	22	0	0	0	0	2	22	27	31	18	4	0	0
1965	107	4	105	0	10	76	21	0	0	0	0	10	17	31	28	19	1	1	0
1966	114	2	106	0	6	83	25	0	0	0	1	5	23	30	30	17	8	0	0
1967	93	8	89	0	6	67	20	0	0	0	0	6	7	29	31	16	4	0	0
1968	95	4	95	0	9	68	18	0	0	0	2	7	14	29	25	18	0	0	0
1969	84	0	83	0	11	55	18	0	0	0	0	11	6	21	28	17	1	0	0
1970	94	1	94	0	3	74	17	0	0	0	0	3	19	25	30	17	0	0	0
1971	95	0	95	0	7	78	10	0	0	0	1	6	20	27	31	10	0	0	0
1972	93	0	92	0	4	79	10	0	0	0	0	4	25	29	25	9	1	0	0
1973	116	1	111	0	6	79	31	0	0	0	0	6	18	30	31	26	5	0	0

1974	89	5	88	0	0	68	21	0	0	0	0	0	14	25	29	20	1	0	0
1975	104	1	100	0	6	67	31	0	0	0	0	6	11	26	30	27	4	0	0
1976	78	4	74	0	0	60	18	0	0	0	0	0	15	29	16	14	4	0	0
1977	104	4	102	0	12	74	18	0	0	0	1	11	15	31	28	16	2	0	0
1978	80	2	79	0	0	69	11	0	0	0	0	0	14	25	30	10	1	0	0
1979	104	1	100	0	7	82	15	0	0	0	0	7	24	30	28	11	4	0	0
1980	87	4	84	0	1	70	16	0	0	0	0	1	13	27	30	13	3	0	0
1981	108	3	98	0	4	76	28	0	0	0	0	4	19	29	28	18	10	0	0
1982	118	10	114	0	3	82	33	0	0	0	0	3	21	31	30	29	4	0	0
1983	91	4	89	0	6	64	21	0	0	0	2	4	5	29	30	19	2	0	0
1984	87	2	84	0	3	63	21	0	0	0	0	3	11	24	28	18	3	0	0
1985	109	3	106	0	6	77	26	0	0	0	1	5	18	31	28	23	3	0	0
1986	114	3	111	0	11	80	23	0	0	0	0	11	19	30	31	20	3	0	0
1987	108	3	105	0	1	75	32	0	0	0	0	1	13	31	31	29	3	0	0
1988	101	3	96	0	4	80	17	0	0	0	0	4	19	31	30	12	5	0	0
1989	85	5	85	0	4	67	14	0	0	0	1	3	8	31	28	14	0	0	0
1990	118	0	108	0	5	84	29	0	0	0	0	5	22	31	31	19	9	1	0
1991	110	10	103	0	0	76	34	0	0	0	0	0	18	27	31	27	7	0	0

1992	122	7	111	0	6	78	38	0	0	0	2	4	17	30	31	27	9	2	0
1993	119	11	110	0	6	84	29	0	0	0	0	6	24	29	31	20	9	0	0
1994	133	9	125	0	16	81	36	0	0	0	0	16	20	31	30	28	8	0	0
1995	103	8	103	0	8	81	14	0	0	0	1	7	22	31	28	14	0	0	0
1996	96	0	96	0	5	80	11	0	0	0	0	5	20	29	31	11	0	0	0
1997	117	0	109	0	5	84	28	0	0	0	0	5	25	31	28	20	8	0	0
1998	109	8	103	0	1	84	24	0	0	0	0	1	24	30	30	18	6	0	0
1999	131	6	124	0	10	86	35	0	0	0	0	10	26	29	31	28	7	0	0
2000	139	7	131	0	18	90	31	0	0	0	0	18	29	30	31	23	8	0	0
2001	134	11	121	0	15	84	35	0	0	3	1	11	22	31	31	25	10	0	0
2002	114	10	113	0	8	88	18	0	0	0	0	8	26	31	31	17	1	0	0
2003	116	1	112	0	9	90	17	0	0	0	0	9	29	31	30	13	4	0	0
2004	97	4	89	0	2	73	22	0	0	0	0	2	17	26	30	14	8	0	0
2005	97	8	97	0	3	77	17	0	0	0	0	3	16	31	30	17	0	0	0
2006	114	0	107	0	10	76	28	0	0	0	0	10	16	31	29	21	7	0	0
2007	101	7	100	0	9	80	12	0	0	0	0	9	20	29	31	11	1	0	0
2008	107	1	103	0	8	82	17	0	0	0	0	8	21	30	31	13	2	2	0
2009	119	4	115	0	11	81	27	0	0	0	0	11	19	31	31	23	4	0	0

2010	98	---	98	0	7	81	10	0	---	0	0	7	19	31	31	10	0	0	0
2011	123	0	117	0	4	85	34	0	0	0	0	4	24	31	30	28	6	0	0
2012	122	---	115	---	2	89	31	---	0	0	0	2	27	31	31	24	7	0	0

Table 27. Maximum number of consecutive summer days ($T_{max} > 25^{\circ}\text{C}$) Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1951	68	---	68	---	7	68	13	0	0	0	0	7	15	31	22	13	0	0	0
1952	78	2	78	0	5	63	15	0	0	2	1	5	13	31	31	15	1	0	0
1953	65	1	65	0	2	65	9	0	0	0	0	2	11	31	23	9	2	0	0
1954	71	1	71	0	1	71	22	0	0	0	0	1	13	31	27	22	0	0	0
1955	38	0	38	0	4	30	16	0	0	0	0	4	14	22	22	16	2	1	0
1956	70	1	70	0	6	57	13	0	0	0	1	6	4	26	31	13	6	0	0
1957	88	2	88	0	1	85	10	0	0	0	1	1	23	31	31	10	1	0	0
1958	75	1	75	0	5	75	4	0	0	0	0	5	13	31	31	4	2	0	0
1959	61	1	61	0	2	60	4	0	0	0	0	2	14	29	31	4	0	0	0
1960	45	0	45	0	3	37	8	0	0	0	0	3	8	19	31	8	2	0	0
1961	85	2	85	0	2	76	13	0	0	0	1	2	14	31	31	13	3	0	0
1962	51	1	51	0	6	30	21	0	0	0	0	6	15	27	30	21	1	0	0

1963	72	1	72	0	0	72	25	0	0	0	0	0	12	31	29	25	2	0	0
1964	50	1	50	0	1	50	18	0	0	0	0	1	11	19	31	18	2	0	0
1965	62	1	62	0	5	62	8	0	0	0	0	5	11	31	20	8	1	1	0
1966	37	1	37	0	4	37	16	0	0	0	1	4	22	21	28	16	3	0	0
1967	64	1	64	0	2	52	12	0	0	0	0	2	5	21	31	12	3	0	0
1968	28	1	28	0	3	28	9	0	0	0	2	3	10	20	19	9	0	0	0
1969	41	0	41	0	5	41	9	0	0	0	0	5	3	14	27	9	1	0	0
1970	43	1	43	0	2	43	16	0	0	0	0	2	8	13	30	16	0	0	0
1971	62	0	62	0	4	56	6	0	0	0	1	4	9	25	31	6	0	0	0
1972	35	0	35	0	2	35	8	0	0	0	0	2	12	16	19	8	1	0	0
1973	35	1	35	0	5	35	26	0	0	0	0	5	5	26	31	26	4	0	0
1974	36	1	36	0	0	36	12	0	0	0	0	0	8	10	27	12	1	0	0
1975	52	1	52	0	3	52	20	0	0	0	0	3	4	24	28	20	2	0	0
1976	34	2	34	0	0	34	7	0	0	0	0	0	11	23	10	7	3	0	0
1977	58	1	58	0	5	58	6	0	0	0	1	5	5	31	23	6	1	0	0
1978	31	1	31	0	0	31	5	0	0	0	0	0	7	12	23	5	1	0	0
1979	42	1	42	0	6	42	5	0	0	0	0	6	15	22	20	5	4	0	0
1980	48	1	48	0	1	48	6	0	0	0	0	1	7	24	24	6	2	0	0

1981	28	1	28	0	2	28	11	0	0	0	0	2	10	14	24	11	2	0	0
1982	59	2	59	0	2	59	21	0	0	0	0	2	9	31	24	20	2	0	0
1983	38	1	38	0	2	38	17	0	0	0	2	2	2	29	21	17	1	0	0
1984	35	1	35	0	2	35	10	0	0	0	0	2	5	21	14	10	3	0	0
1985	59	1	59	0	2	59	16	0	0	0	1	2	7	31	27	15	2	0	0
1986	68	1	68	0	4	61	9	0	0	0	0	4	10	30	31	9	2	0	0
1987	93	1	93	0	1	64	29	0	0	0	0	1	5	31	31	29	2	0	0
1988	43	1	43	0	1	43	7	0	0	0	0	1	6	31	21	7	2	0	0
1989	36	1	36	0	2	36	3	0	0	0	1	2	4	31	27	3	0	0	0
1990	86	0	86	0	4	75	11	0	0	0	0	4	13	31	31	11	2	1	0
1991	74	1	74	0	0	58	16	0	0	0	0	0	8	27	31	16	3	0	0
1992	63	2	63	0	2	59	18	0	0	0	2	2	8	28	31	18	5	2	0
1993	52	1	52	0	6	48	9	0	0	0	0	6	11	17	31	9	4	0	0
1994	55	1	55	0	12	55	18	0	0	0	0	12	14	31	20	18	5	0	0
1995	75	1	75	0	2	75	7	0	0	0	1	2	16	31	28	7	0	0	0
1996	55	0	55	0	3	51	4	0	0	0	0	3	7	20	31	4	0	0	0
1997	72	0	72	0	3	72	14	0	0	0	0	3	22	31	19	14	6	0	0
1998	51	2	51	0	1	51	14	0	0	0	0	1	10	22	29	14	3	0	0

1999	40	2	40	0	4	38	27	0	0	0	0	4	16	12	31	26	4	0	0
2000	52	1	52	0	7	47	13	0	0	0	0	7	17	16	31	13	6	0	0
2001	82	2	82	0	5	72	14	0	0	2	1	5	10	31	31	14	6	0	0
2002	83	1	83	0	3	82	9	0	0	0	0	3	20	31	31	9	1	0	0
2003	60	1	60	0	4	60	4	0	0	0	0	4	29	31	30	4	4	0	0
2004	32	1	32	0	1	32	5	0	0	0	0	1	12	12	30	5	4	0	0
2005	53	1	53	0	1	53	12	0	0	0	0	1	7	31	15	12	0	0	0
2006	56	0	56	0	6	56	10	0	0	0	0	6	16	31	20	10	4	0	0
2007	42	1	42	0	5	38	4	0	0	0	0	5	20	22	31	4	1	0	0
2008	52	1	52	0	4	39	13	0	0	0	0	4	15	22	31	13	1	1	0
2009	83	1	83	0	6	62	21	0	0	0	0	6	12	31	31	21	3	0	0
2010	65	---	65	0	3	65	4	0	---	0	0	3	15	31	31	4	0	0	0
2011	48	0	48	0	2	48	19	0	0	0	0	2	16	31	29	19	3	0	0
2012	92	---	92	---	1	77	15	---	0	0	0	1	15	31	31	15	2	0	0

Table 28. Mean of daily average relative humidity (%). Climatological data for the station of Brindisi (Italy)

YEAR	ANNUAL (HALF YEAR)	WINTER	SUMMER	WINTER (DJF)	SPRING (MAM)	SUMMER (JJA)	AUTUMN (SON)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1999.0	77.7	---	78.8	---	83.7	76.4	74.8	80.1	76.6	82.6	84.5	83.9	80.6	78.6	69.8	75.0	73.1	76.4	70.5

2000.0	---	---	65.1	---	69.6	69.5	66.2	---	71.0	66.6	70.0	72.1	---	66.6	74.6	40.3	81.2	76.6	81.3
2001.0	73.1	77.0	73.5	76.7	72.9	74.0	74.9	77.6	70.6	74.1	68.2	76.2	68.3	74.4	78.9	74.9	81.4	68.2	63.2
2002.0	72.0	71.8	69.8	70.3	73.9	66.8	71.3	72.2	76.0	69.9	78.9	72.9	68.9	66.3	65.4	66.5	71.5	76.0	80.4
2003.0	76.6	75.2	76.7	75.5	80.9	73.1	78.2	72.1	73.9	77.2	82.1	83.4	75.0	67.2	77.1	75.4	76.3	82.9	76.9
2004.0	73.2	73.7	71.2	73.2	71.0	68.2	78.5	68.8	73.7	63.6	76.1	73.4	73.8	64.6	66.3	73.5	83.0	78.9	83.1
2005.0	75.0	78.9	74.4	77.9	75.8	74.1	74.4	75.8	74.5	77.7	73.0	76.6	76.3	72.2	73.8	74.7	74.5	74.1	76.5
2006.0	74.1	76.1	71.2	77.1	74.0	69.4	75.1	76.0	78.9	76.6	75.0	70.4	68.0	72.2	67.9	73.7	75.5	76.2	78.9
2007.0	70.9	74.9	67.2	74.4	72.0	65.2	71.8	72.9	71.1	74.4	76.0	65.6	68.7	62.5	64.7	65.9	74.4	75.0	80.8
2008.0	76.5	78.0	74.0	80.2	75.4	73.4	78.9	79.2	80.7	77.6	76.8	71.8	73.9	71.4	74.7	75.1	82.5	78.9	76.0
2009.0	77.3	78.0	75.5	77.6	76.9	73.4	79.0	82.2	74.2	73.9	81.3	75.5	73.0	70.7	76.5	75.9	77.4	83.8	82.8
2010.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2011.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2012.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2013.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 29. Precipitation sum (mm). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1955	1089.2	---	283.3	---	153.3	69.1	499	213.1	105.8	96.4	56.6	0.3	7.8	0.3	61	157.3	218.8	122.9	48.9

1956	1537.2	1153.8	155.1	565.6	308.6	23.6	473.1	158.1	358.6	246.5	46.8	15.3	19.2	0.2	4.2	69.4	99.4	304.3	215.2
1957	1066.4	958	171.4	491.1	173.1	16.3	431.6	238.2	37.7	63.2	19.5	90.4	1.4	5.6	9.3	45.2	182.2	204.2	169.5
1958	1492.6	950.7	203.7	459.9	195.1	31.6	690.5	227.2	63.2	104.4	64.7	26	12.9	18.7	0	81.4	193.7	415.4	285
1959	1356.7	1141.1	469.7	427.3	288.6	57.6	643.4	138.2	4.1	104.7	125.1	58.8	36.7	13.7	7.2	228.2	169.2	246	224.8
1960	1451.9	1172	357.5	669.9	250.9	3	412.7	293.7	151.4	86.9	97.4	66.6	1.8	1.2	0	190.5	52.1	170.1	340.2
1961	1245.5	950.6	197.3	678.8	216.3	11.1	500.2	284.2	54.4	49.6	157.5	9.2	8.3	1.4	1.4	19.5	197.3	283.4	179.3
1962	1472.5	1048.4	219.8	397.1	268.8	20.7	709.2	98.6	119.2	170.6	50.7	47.5	16.4	3.8	0.5	100.9	211.2	397.1	256
1963	1294.7	1484.8	278.4	722.1	269.9	37.3	394	173.6	292.5	154.4	66.4	49.1	26	0	11.3	125.6	158.8	109.6	127.4
1964	1163.7	712.2	170.3	272.5	275.6	33.6	468.1	14.9	130.2	171.3	29.3	75	14.2	14	5.4	32.4	201.5	234.2	241.3
1965	950.6	1078.1	206.4	619.2	203.2	12.3	169	143.8	234.1	23.2	151.2	28.8	4.9	0	7.4	14.1	6.7	148.2	188.2
1966	1244.8	748.7	124.8	480.5	187.5	20.8	489.3	229.1	63.2	113.3	26.5	47.7	5.2	8.8	6.8	29.8	213.9	245.6	254.9
1967	918.3	869	318.7	395.8	82.2	14.2	372.9	112	28.9	13.7	59	9.5	8.6	5.6	0	236	20.8	116.1	308.1
1968	1094.8	769.8	133.1	579.2	114.6	37.4	441.6	163.9	107.2	53.7	8.3	52.6	18.2	0.5	18.7	34.8	183.3	223.5	230.1
1969	1354.5	1171.1	212.6	593.7	248.2	32.4	206.6	156.9	206.7	170.6	40.4	37.2	11.6	5.1	15.7	102.6	16	88	503.7
1970	869.3	989.3	211	830.6	165.8	95.9	189.2	206.6	120.3	54.7	82.7	28.4	1	7	87.9	4	128.7	56.5	91.5
1971	1307.4	857.9	273.6	500.6	209.3	21.3	556.8	268.6	140.5	172.1	20.7	16.5	1.3	20	0	215.1	218.3	123.4	110.9
1972	1267.5	955.4	263.6	491	250.6	80.9	453.5	173.4	206.7	122.7	84.6	43.3	0	36.6	44.3	54.8	391.9	6.8	102.4
1973	1386.5	1079.9	250.1	521.5	222.5	30.3	360.2	196.4	222.7	159.7	55.1	7.7	5.8	0.1	24.4	157	83.6	119.6	354.4

1974	1293.4	1000.5	351.1	639.5	312.6	70.4	544	122.8	162.3	157.8	130.8	24	1.4	0.3	68.7	125.9	247.7	170.4	81.3
1975	836.8	784.4	157.7	233.2	245.9	17.4	327.1	44.3	107.6	133.1	16	96.8	1.1	14.4	1.9	27.5	113	186.6	94.5
1976	1191.1	666.4	259	266.4	223.2	84.9	600.1	55.7	116.2	100.4	64.5	58.3	26.9	56	2	51.3	262.9	285.9	111
1977	664.3	892.7	158.3	326.9	48	29.3	311.2	119.4	96.5	17	18.8	12.2	4	0.5	24.8	98	57.5	155.7	59.9
1978	1022.7	714	217.8	414.5	272.2	1.4	164.7	225.9	128.7	86.3	153.7	32.2	1.2	0	0.2	30.5	39.9	94.3	229.8
1979	1415.3	834.9	240.3	643.4	216.5	79.3	486.5	138.5	275.1	57.3	131.2	28	9.6	12.1	57.6	1.8	119.5	365.2	219.4
1980	1036	992.2	241	376.9	307.6	32.8	409.6	116.9	40.6	130.6	71.7	105.3	18.5	3.9	10.4	31.2	205.4	173	128.5
1981	1019.4	832.1	145.3	413.5	114.3	5.2	370.6	104.1	180.9	40.2	27.8	46.3	0.6	0	4.6	66	231.5	73.1	244.3
1982	1237.2	805.5	233.3	381.4	245.7	26.8	590.3	18.4	118.7	119.5	100.7	25.5	0.8	2.4	23.6	80.3	341.3	168.7	237.3
1983	1042.8	968.6	187.2	415.7	99.9	126.7	403.6	30.5	147.9	42.9	24.2	32.8	71.1	0.5	55.1	3.5	105.9	294.2	234.2
1984	882.2	1120	181	620.3	177.3	7.2	242.2	140.7	245.4	99.6	73.3	4.4	0	0	7.2	96.1	19	127.1	69.4
1985	1074.9	653.6	79.8	278.6	271.6	13.2	512.3	182.1	27.1	228.9	35.2	7.5	1.8	1.3	10.1	23.9	109.4	379	68.6
1986	963.9	967.5	179.8	408.5	142	39.8	299.4	126.1	213.8	70.6	27.6	43.8	29.3	10.5	0	68.6	103.6	127.2	142.8
1987	1098.2	875.1	119.8	455.1	269.1	25.1	410.2	187.5	124.8	189.2	3.6	76.3	22.7	2.4	0	14.8	154.4	241	81.5
1988	769.6	732.4	208.4	304.5	77.5	8.8	396.3	99.3	123.7	32.5	45	0	5.1	0	3.7	154.6	121.1	120.6	64
1989	624.6	349.6	262.7	91.1	75.3	81.7	345.9	1	26.1	16.8	39.4	19.1	48.1	13.9	19.7	122.5	69.6	153.8	94.6
1990	774.7	356	190	131.6	81.6	85.3	281.1	16.1	20.9	1	57.4	23.2	64	0	21.3	24.1	110.3	146.7	289.7
1991	875.6	804.2	242.1	463.5	206.4	63.6	323.9	36.2	137.6	83.7	93.1	29.6	3.2	58.6	1.8	55.8	47.7	220.4	107.9

1992	640.1	483.1	275.3	147.7	240.3	23.9	166.3	31.1	8.7	67.3	131.1	41.9	17.8	6.1	0	78.4	60.1	27.8	169.8
1993	904.2	487.3	191.7	279.8	267.9	9.7	361.5	61.4	48.6	119.6	58.1	90.2	9.5	0	0.2	33.7	48.4	279.4	155.1
1994	1011	800	225.5	454.9	126.3	89.8	283.9	190.8	109	17.3	52.3	56.7	32.3	11	46.5	26.7	79.1	178.1	211.2
1995	1083	812.6	317.1	415.1	224	142.6	256.3	161	42.9	140.3	68.2	15.5	0.1	46.8	95.7	90.8	30.1	135.4	256.2
1996	1227.1	810.6	333.5	534	192.8	61.5	466.8	89.1	188.7	111.1	69.1	12.6	8.1	2.2	51.2	190.3	89.4	187.1	228.2
1997	831.4	628.3	177.4	329.3	153.2	43.6	362.9	83.3	17.8	22.5	130.5	0.2	26.3	10.2	7.1	3.1	205.1	154.7	170.6
1998	998.9	750	240.5	373.3	73.4	15.3	521.6	111.2	91.5	16.9	30.4	26.1	8.2	0.8	6.3	168.7	171	181.9	185.9
1999	1149.6	1020.7	189	462.8	314	37.5	252.2	118.9	158	205	56.2	52.8	0	6.8	30.7	42.5	72	137.7	269
2000	1087.7	650.1	93.8	421.6	73.2	23.2	703.6	32.1	120.5	18.8	35.7	18.7	18.3	4.9	0	16.2	241.3	446.1	135.1
2001	908.2	1132.7	311.6	377.8	255.8	4.7	295.5	193.1	49.6	67.5	150.9	37.4	4.7	0	0	118.6	34.4	142.5	109.5

Table 30. Number of wet days (Rain >0.1mm). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1955	93	---	24	---	19	4	37	15	13	9	10	0	2	0	2	10	15	12	5
1956	101	82	16	43	21	6	26	14	24	12	7	2	5	0	1	1	9	16	10
1957	79	56	21	25	19	4	29	10	5	6	4	9	0	2	2	4	10	15	12
1958	102	76	23	35	31	3	28	14	9	16	10	5	2	1	0	5	6	17	17
1959	94	62	32	32	23	8	30	13	2	7	10	6	4	2	2	8	9	13	18

1960	97	76	25	41	29	1	23	12	11	13	12	4	1	0	0	8	5	10	21
1961	68	60	15	42	10	5	22	18	3	3	4	3	3	1	1	3	6	13	10
1962	111	68	22	32	27	5	35	10	12	17	8	2	3	2	0	7	10	18	22
1963	97	95	24	57	24	7	19	17	18	10	6	8	6	0	1	3	13	3	12
1964	88	52	22	26	23	5	28	3	11	10	5	8	3	1	1	4	14	10	18
1965	81	70	22	41	21	3	20	10	13	5	12	4	1	0	2	3	1	16	14
1966	99	63	18	37	18	4	33	16	7	9	5	4	2	1	1	5	13	15	21
1967	69	68	19	36	12	5	17	12	3	4	7	1	3	2	0	6	3	8	20
1968	85	63	18	42	17	8	20	13	9	10	2	5	5	0	3	3	5	12	18
1969	102	81	22	47	28	4	16	10	19	17	7	4	1	1	2	7	1	8	25
1970	83	73	20	54	25	3	18	15	14	10	10	5	0	2	1	2	9	7	8
1971	90	67	17	36	22	3	30	15	13	15	5	2	1	2	0	7	6	17	7
1972	91	69	31	42	16	11	23	18	17	4	8	4	0	4	7	8	13	2	6
1973	102	66	21	34	29	4	21	13	15	17	11	1	3	0	1	5	9	7	20
1974	88	67	25	39	26	4	33	9	10	12	11	3	1	0	3	7	14	12	6
1975	66	57	15	19	21	4	21	5	8	12	4	5	1	2	1	2	8	11	7
1976	102	56	27	28	23	9	33	8	13	9	9	5	4	5	0	4	11	18	16
1977	59	70	11	38	8	2	21	13	9	3	4	1	1	0	1	4	4	13	6

1978	93	64	26	37	31	1	15	15	16	10	14	7	1	0	0	4	6	5	15
1979	97	62	24	42	24	8	27	14	13	9	11	4	2	1	5	1	10	16	11
1980	100	67	32	30	33	5	29	11	8	11	11	11	2	1	2	5	13	11	14
1981	77	61	22	31	18	1	24	8	9	6	5	7	0	0	1	9	7	8	17
1982	85	58	19	33	23	4	28	6	10	10	9	4	0	1	3	2	13	13	14
1983	73	65	18	34	13	9	17	6	14	5	5	3	6	0	3	1	5	11	14
1984	80	72	18	44	23	2	17	14	16	12	10	1	0	0	2	5	3	9	8
1985	84	60	13	31	26	3	24	19	4	17	6	3	1	1	1	1	7	16	8
1986	85	72	19	40	18	7	17	15	17	9	5	4	4	3	0	3	9	5	11
1987	85	62	14	35	23	3	26	13	11	13	2	8	2	1	0	1	9	16	9
1988	66	63	12	32	11	2	21	11	12	6	5	0	1	0	1	5	5	11	9
1989	53	32	24	13	11	11	19	0	4	3	5	3	5	3	3	5	7	7	8
1990	73	28	22	13	17	2	29	1	4	1	11	5	1	0	1	4	8	17	20
1991	74	68	25	35	23	7	24	4	11	8	11	4	1	5	1	3	7	14	5
1992	53	36	21	10	16	6	17	2	3	5	7	4	5	1	0	4	8	5	9
1993	66	42	16	21	19	2	20	6	6	8	7	4	2	0	0	3	2	15	13
1994	63	56	15	36	9	6	17	11	12	3	4	2	3	1	2	3	7	7	8
1995	80	50	23	24	22	8	19	12	4	12	5	5	0	2	6	5	3	11	15

1996	108	66	35	37	32	4	34	8	14	15	13	4	1	1	2	14	11	9	16
1997	60	49	15	23	15	5	21	5	2	6	9	0	2	2	1	1	10	10	12
1998	72	52	21	27	15	3	30	10	5	5	4	6	1	0	2	8	8	14	9
1999	91	63	23	31	24	4	23	7	15	10	11	3	0	1	3	5	6	12	18
2000	62	55	11	34	10	3	27	5	11	3	4	3	2	1	0	1	14	12	6
2001	77	54	24	21	22	1	22	11	4	7	11	4	1	0	0	8	3	11	17

Table 31. Number of very heavy precipitation days (precipitation >= 20 mm). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1955	20	---	4	---	1	2	9	5	2	1	0	0	0	0	2	2	5	2	1
1956	22	19	1	8	4	0	6	2	5	4	0	0	0	0	0	0	1	2	3
1957	14	15	1	9	2	0	5	3	1	1	0	1	0	0	0	0	2	3	3
1958	20	11	3	6	0	0	12	3	0	0	0	0	0	0	0	0	3	3	5
1959	17	20	3	8	5	0	5	3	0	3	2	0	0	0	0	0	1	2	4
1960	24	17	7	13	2	0	8	7	2	0	1	1	0	0	0	5	0	3	5
1961	21	17	3	13	4	0	6	7	1	1	3	0	0	0	0	0	2	4	3
1962	24	15	3	6	4	0	12	1	2	3	0	1	0	0	0	2	3	7	5

1963	26	28	5	14	7	0	7	2	7	4	2	1	0	0	0	2	3	2	3
1964	18	12	2	4	5	0	8	0	1	3	0	2	0	0	0	0	2	6	4
1965	15	20	3	12	3	0	2	3	5	0	3	0	0	0	0	0	0	2	2
1966	19	13	1	8	4	0	6	5	1	3	0	1	0	0	0	0	2	4	3
1967	13	11	5	5	1	0	5	2	0	0	1	0	0	0	0	4	0	1	5
1968	16	10	1	9	1	0	7	2	2	0	0	1	0	0	0	0	3	4	4
1969	25	21	3	11	4	0	3	3	4	3	0	1	0	0	0	2	0	1	11
1970	11	17	2	16	1	1	2	3	2	0	1	0	0	0	1	0	2	0	2
1971	18	13	4	8	3	0	8	4	2	3	0	0	0	0	0	4	3	1	1
1972	19	12	2	7	2	1	8	2	4	1	0	1	0	1	0	0	8	0	2
1973	22	21	3	11	2	1	5	3	6	2	0	0	0	0	1	2	1	2	5
1974	22	16	5	10	5	1	9	2	3	3	2	0	0	0	1	2	3	4	2
1975	13	14	2	5	3	0	6	1	2	2	0	1	0	0	0	1	2	3	1
1976	17	10	3	4	3	1	9	1	2	1	1	1	0	1	0	0	5	4	1
1977	10	13	2	4	0	1	5	2	1	0	0	0	0	0	1	1	1	3	1
1978	14	10	3	4	5	0	2	2	1	2	3	0	0	0	0	0	0	2	4
1979	23	12	4	10	3	1	9	2	4	0	3	0	0	0	1	0	3	6	4
1980	14	17	2	5	5	0	7	1	0	3	1	1	0	0	0	4	3	1	

1981	18	15	1	8	0	0	6	3	4	0	0	0	0	0	0	1	5	0	5
1982	20	14	3	8	3	0	9	0	3	1	2	0	0	0	0	1	5	3	5
1983	16	15	3	6	2	2	6	0	1	1	0	1	1	0	1	0	2	4	5
1984	13	18	3	11	1	0	5	2	4	1	0	0	0	0	0	3	0	2	1
1985	13	8	1	3	3	0	7	2	0	3	0	0	0	0	0	1	1	5	1
1986	12	10	2	4	1	0	6	1	2	0	0	1	0	0	0	1	3	2	2
1987	22	17	2	7	7	0	8	3	2	5	0	2	0	0	0	0	4	4	2
1988	12	14	3	6	1	0	6	2	2	0	1	0	0	0	0	2	2	2	1
1989	8	5	4	1	1	1	5	0	0	0	1	0	1	0	0	2	1	2	1
1990	13	4	2	1	0	2	5	0	0	0	0	0	1	0	1	0	3	2	6
1991	13	15	2	9	1	1	5	0	3	1	0	0	0	1	0	1	1	3	3
1992	10	9	4	3	5	0	2	0	0	2	2	1	0	0	0	1	1	0	3
1993	15	8	3	5	4	0	8	2	0	2	1	1	0	0	0	1	1	6	1
1994	16	12	3	5	1	2	5	3	1	0	0	1	1	0	1	0	1	4	4
1995	20	16	6	8	4	2	6	3	1	3	1	0	0	1	1	3	1	2	4
1996	22	15	5	10	2	1	9	2	4	2	0	0	0	0	1	4	1	4	4
1997	15	11	3	6	3	0	8	2	0	0	3	0	0	0	0	0	4	4	2
1998	18	14	4	6	0	0	11	2	2	0	0	0	0	0	0	4	4	3	3

1999	21	18	3	8	4	1	5	2	3	3	0	1	0	0	1	1	1	3	6
2000	12	11	0	7	0	0	9	0	1	0	0	0	0	0	0	0	4	5	2
2001	15	16	4	6	4	0	5	3	1	1	2	1	0	0	0	1	0	4	2

Table 32. Number of mostly sunny days (cloud cover <= 2 oktas). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1955	147	---	108	---	36	68	26	3	2	4	14	18	20	27	21	8	8	10	12
1956	167	42	122	19	31	73	43	7	0	5	14	12	17	27	29	23	18	2	13
1957	157	68	98	31	30	70	34	12	6	17	8	5	17	28	25	15	10	9	5
1958	165	46	117	24	26	76	38	12	7	3	6	17	18	27	31	18	17	3	6
1959	161	62	100	34	32	60	34	9	19	8	8	16	16	23	21	16	16	2	7
1960	133	35	103	15	20	71	32	4	4	2	8	10	18	25	28	14	10	8	2
1961	189	60	122	22	44	73	44	7	13	20	11	13	19	27	27	25	13	6	8
1962	153	49	113	28	22	72	35	11	9	2	9	11	17	27	28	21	10	4	4
1963	153	32	111	9	32	68	41	4	1	9	11	12	15	28	25	20	11	10	7
1964	173	54	115	29	23	74	43	13	9	4	10	9	18	29	27	22	10	11	11
1965	157	56	106	26	34	65	38	8	7	9	10	15	18	27	20	16	18	4	5
1966	158	50	116	20	32	70	35	9	6	8	7	17	18	28	24	22	8	5	6

1967	177	58	102	27	36	67	47	11	10	18	5	13	16	23	28	17	18	12	6
1968	146	61	93	19	33	57	38	8	5	12	13	8	11	30	16	15	17	6	5
1969	145	41	103	15	33	60	41	9	1	3	11	19	13	26	21	13	18	10	1
1970	165	40	115	5	27	71	54	2	2	7	8	12	20	25	26	24	15	15	9
1971	161	55	107	22	27	70	35	4	9	3	10	14	19	23	28	13	16	6	16
1972	142	55	90	19	37	58	32	1	2	14	6	17	21	20	17	9	7	16	12
1973	166	59	112	30	28	68	48	11	7	6	7	15	17	23	28	22	13	13	4
1974	149	52	97	20	21	67	29	13	3	6	3	12	18	28	21	15	7	7	16
1975	180	62	109	45	23	65	49	16	13	3	9	11	17	27	21	24	18	7	14
1976	144	64	96	29	25	62	37	7	8	10	7	8	19	22	21	19	11	7	5
1977	177	49	112	16	37	73	44	5	6	15	8	14	21	24	28	17	21	6	12
1978	157	58	100	21	25	72	44	6	3	10	3	12	19	26	27	13	13	18	7
1979	149	55	102	17	30	62	35	6	4	7	7	16	15	28	19	17	9	9	12
1980	164	53	111	28	20	75	41	4	12	7	8	5	21	28	26	23	10	8	12
1981	181	60	117	32	31	75	53	11	9	10	13	8	20	30	25	21	17	15	2
1982	184	65	122	25	30	79	42	11	12	8	7	15	25	29	25	21	8	13	10
1983	184	64	118	32	42	63	51	16	6	11	12	19	10	28	25	24	17	10	6
1984	173	49	118	16	31	75	49	8	2	6	7	18	24	30	21	18	19	12	8

1985	183	55	131	18	32	77	52	3	7	6	10	16	21	28	28	28	16	8	12
1986	183	52	122	23	35	70	58	7	4	5	12	18	18	23	29	22	14	22	9
1987	163	60	125	17	30	79	35	4	4	7	12	11	23	27	29	23	7	5	11
1988	178	43	119	25	30	76	44	3	11	6	9	15	15	31	30	19	16	9	14
1989	196	86	112	47	37	72	45	20	13	14	9	14	20	26	26	17	18	10	9
1990	186	88	115	44	34	79	33	17	18	16	7	11	22	29	28	18	11	4	5
1991	165	45	104	27	22	69	35	17	5	3	7	12	23	18	28	16	12	7	17
1992	166	68	104	42	21	69	42	11	14	7	5	9	15	25	29	21	5	16	9
1993	204	79	127	44	45	74	44	19	16	14	12	19	21	24	29	22	17	5	6
1994	186	61	111	23	35	70	50	9	8	16	4	15	21	21	28	22	11	17	14
1995	135	60	85	27	28	51	41	3	10	5	12	11	16	24	11	11	22	8	2
1996	108	43	81	9	15	65	16	3	4	4	6	5	15	28	22	5	6	5	5
1997	144	46	101	24	38	55	30	8	11	11	7	20	17	22	16	19	8	3	2
1998	144	43	99	20	25	76	20	5	13	12	5	8	22	28	26	10	6	4	5
1999	114	39	72	21	15	56	26	10	6	8	3	4	11	23	22	9	12	5	1
2000	148	44	100	20	21	76	26	12	7	7	7	23	27	26	10	8	8	6	
2001	149	41	103	19	26	70	36	3	10	6	7	13	21	25	24	13	18	5	4

Table 33. Number of mostly cloudy days (cloud cover >= 6 oktas). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN												
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1955	97	---	29	---	29	4	30	15	13	14	12	3	0	1	3	10	10	10	6
1956	105	73	21	38	30	5	28	14	18	15	9	6	3	1	1	1	8	19	10
1957	108	67	31	30	30	7	35	13	7	10	11	9	6	0	1	4	15	16	16
1958	106	88	27	39	35	3	27	12	11	18	10	7	2	1	0	7	4	16	18
1959	91	67	27	33	32	6	27	13	2	14	10	8	3	1	2	3	6	18	11
1960	116	82	29	41	37	3	25	17	13	17	11	9	1	1	1	6	6	13	21
1961	79	66	18	39	21	3	21	12	6	8	9	4	2	0	1	2	5	14	16
1962	120	84	21	44	31	5	37	14	14	21	5	5	3	1	1	6	12	19	19
1963	116	100	32	58	34	5	22	19	20	11	14	9	4	0	1	4	10	8	16
1964	78	66	15	33	27	0	24	5	12	15	7	5	0	0	0	3	10	11	10
1965	88	61	26	31	21	8	23	8	13	9	9	3	4	1	3	6	4	13	15
1966	104	68	29	36	34	6	27	13	8	15	12	7	4	1	1	4	12	11	16
1967	92	68	30	37	26	9	17	12	9	8	11	7	6	1	2	3	6	8	19
1968	115	74	30	49	26	13	24	14	16	11	7	8	8	0	5	2	7	15	22
1969	116	91	27	50	29	6	28	13	15	19	5	5	5	0	1	11	5	12	25
1970	100	86	30	57	33	6	14	18	14	12	14	7	3	1	2	3	6	5	15

1971	104	79	25	46	38	2	27	19	12	22	10	6	0	2	0	7	8	12	6
1972	98	76	26	50	22	4	20	24	20	6	12	4	1	1	2	6	8	6	8
1973	117	73	30	42	38	6	21	18	16	17	14	7	5	1	0	3	9	9	18
1974	100	75	34	45	34	5	28	10	17	12	14	8	3	0	2	7	13	8	6
1975	95	65	26	24	35	9	23	8	10	20	8	7	4	2	3	2	5	16	10
1976	110	71	27	35	33	7	29	11	14	15	12	6	3	3	1	2	12	15	16
1977	91	83	22	48	24	2	22	18	14	8	8	8	0	1	1	4	5	13	11
1978	116	77	37	45	43	3	20	13	21	14	21	8	2	0	1	5	9	6	16
1979	108	73	27	49	28	3	32	14	19	9	12	7	2	0	1	5	11	16	12
1980	109	78	26	39	32	6	29	18	9	12	8	12	4	0	2	0	14	15	15
1981	83	83	17	41	27	2	10	14	12	13	8	6	1	0	1	1	4	5	18
1982	89	60	16	39	26	0	25	8	13	12	10	4	0	0	0	2	11	12	17
1983	70	66	11	34	16	4	15	7	10	9	4	3	4	0	0	0	5	10	18
1984	92	77	24	52	31	0	18	14	20	10	15	6	0	0	0	3	5	10	9
1985	88	72	12	41	28	0	21	20	12	16	8	4	0	0	0	0	8	13	7
1986	87	73	15	37	25	2	17	14	16	15	5	5	2	0	0	3	8	6	13
1987	88	71	12	45	21	2	22	17	15	12	5	4	2	0	0	1	9	12	11
1988	90	70	26	40	28	4	18	18	11	9	12	7	4	0	0	3	4	11	11

1989	57	38	20	19	18	5	17	3	5	4	8	6	1	3	1	1	5	11	9
1990	86	40	26	19	25	5	26	5	5	5	13	7	3	1	1	1	10	15	20
1991	97	81	27	41	36	5	27	7	14	15	14	7	2	2	1	1	11	15	8
1992	85	56	26	18	31	6	23	5	5	12	9	10	5	1	0	1	16	6	15
1993	73	57	18	28	18	5	25	5	8	7	5	6	1	4	0	2	5	18	12
1994	78	61	26	37	22	3	18	11	14	1	15	6	2	1	0	2	10	6	10
1995	100	65	24	40	19	5	24	21	9	9	5	5	1	0	4	9	1	14	22
1996	133	86	37	53	43	4	36	14	17	18	13	12	1	0	3	8	11	17	19
1997	95	75	23	40	21	6	29	11	10	7	11	3	2	1	3	3	10	16	18
1998	95	72	32	36	31	2	34	14	4	10	10	11	1	1	0	9	9	16	10
1999	99	72	26	36	28	4	22	12	14	11	8	9	1	0	3	5	4	13	19
2000	80	64	23	37	24	4	26	8	10	10	10	4	3	1	0	5	12	9	8
2001	82	63	21	32	29	1	11	17	7	10	13	6	0	1	0	1	2	8	17

Table 34. Mean of daily mean temperature (°C). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1955	17.9	---	22.1	---	15.6	25.3	18.4	12.6	12.8	12.3	13.7	20.7	24.3	26.6	24.9	22.0	18.9	14.1	11.6
1956	17.3	12.4	22.7	10.4	14.6	26.0	18.9	10.5	9.0	10.0	14.6	19.2	22.8	26.7	28.2	24.2	17.7	14.7	9.7

1957	17.8	12.3	22.7	9.9	15.3	26.5	19.0	9.0	11.1	11.7	15.7	18.6	25.6	26.8	27.1	22.6	19.6	14.8	10.8
1958	17.8	12.8	22.5	10.3	15.4	26.1	18.3	9.4	11.0	11.4	14.0	20.6	23.8	26.8	27.8	21.7	18.1	14.9	13.1
1959	17.0	12.9	21.8	10.2	16.0	24.9	17.0	9.0	8.3	13.4	15.1	19.3	22.8	26.2	25.7	21.3	15.9	13.8	12.3
1960	17.9	12.7	22.1	11.3	15.8	25.3	18.9	10.4	11.3	12.5	15.2	19.6	23.9	25.5	26.4	21.7	19.3	15.5	12.7
1961	18.0	13.3	22.8	10.6	16.4	25.8	19.3	9.7	9.1	12.9	16.6	19.6	24.3	26.7	26.5	22.9	18.9	16.1	11.6
1962	17.9	13.2	22.9	10.6	15.6	26.1	19.7	10.7	9.2	12.1	15.2	19.6	23.6	26.3	28.4	23.9	19.2	15.9	10.4
1963	18.2	12.8	23.2	10.2	15.2	26.6	19.6	9.8	10.6	10.7	15.5	19.4	24.3	28.1	27.4	24.1	18.7	16.0	12.9
1964	17.4	13.0	22.4	10.1	15.8	25.8	18.6	7.5	9.9	13.1	15.0	19.2	25.3	26.4	25.8	22.4	18.4	14.9	11.2
1965	17.2	12.3	22.0	9.5	15.0	25.4	18.5	9.7	7.4	11.8	14.3	18.9	24.6	26.6	25.0	22.7	17.7	15.0	12.2
1966	17.7	12.9	22.4	11.0	15.3	25.8	19.2	9.2	11.6	11.5	15.7	18.7	23.8	26.3	27.1	22.8	20.6	14.1	10.6
1967	17.5	12.5	22.6	9.3	15.6	26.0	18.9	8.3	8.9	12.3	14.5	19.9	22.6	27.2	28.1	22.8	19.1	14.7	11.3
1968	17.4	12.6	22.6	10.1	16.7	24.9	17.9	7.7	11.4	11.1	16.9	22.0	23.9	26.8	24.0	21.9	17.1	14.8	11.3
1969	17.5	12.6	22.3	10.5	16.0	24.8	18.7	9.3	10.9	12.0	14.5	21.4	23.3	25.2	26.0	23.2	17.6	15.4	11.5
1970	17.4	13.1	22.0	11.1	15.0	25.4	18.1	11.3	10.5	12.3	15.0	17.9	24.0	25.8	26.4	22.9	17.3	14.0	11.2
1971	17.3	12.5	22.5	10.9	15.9	25.7	17.0	11.8	9.6	10.9	15.6	21.1	24.0	25.5	27.5	20.9	16.6	13.7	10.2
1972	17.1	12.6	22.0	11.0	16.0	25.0	16.5	11.7	11.1	12.6	15.9	19.5	24.8	25.4	24.8	21.3	15.1	13.2	9.5
1973	17.3	11.3	22.3	9.8	14.7	25.4	18.6	9.7	10.1	10.1	13.7	20.3	23.7	26.2	26.1	23.7	18.8	13.2	12.1
1974	17.0	12.9	21.9	10.9	14.9	25.4	17.6	9.3	11.4	12.3	14.1	18.2	23.2	26.2	26.7	22.7	17.5	12.5	9.2

1975	17.1	11.6	22.1	8.8	15.9	24.7	18.4	8.3	9.0	12.8	15.2	19.7	23.1	25.9	25.2	23.7	18.3	13.3	10.7
1976	16.8	12.3	21.2	10.1	15.4	24.0	17.5	9.5	10.2	11.6	14.7	19.8	23.5	25.5	23.1	20.5	18.6	13.3	11.0
1977	17.6	13.1	22.1	11.1	16.3	25.2	17.9	10.1	12.4	13.3	15.0	20.5	23.6	26.1	25.7	21.7	16.7	15.3	10.2
1978	16.9	12.6	21.2	10.3	15.0	24.6	16.5	9.6	11.1	12.3	14.2	18.4	23.7	25.4	24.8	20.6	17.5	11.5	12.9
1979	17.8	12.7	22.2	11.3	15.6	25.4	18.9	9.1	11.8	13.2	13.9	19.8	25.3	25.9	25.1	22.8	19.4	14.5	12.1
1980	17.0	12.8	21.3	10.2	14.5	24.6	19.2	9.2	9.4	12.2	13.5	17.8	22.5	25.1	26.2	22.8	19.2	15.6	9.8
1981	17.5	12.6	22.5	9.1	16.1	25.6	18.0	8.0	9.5	13.2	15.9	19.2	25.2	25.5	26.1	22.7	19.7	11.6	12.1
1982	17.8	12.5	22.9	10.6	15.3	26.1	19.1	10.2	9.3	11.6	14.6	19.7	24.8	26.8	26.6	24.6	18.8	13.8	11.7
1983	17.4	12.5	22.3	10.0	16.3	24.9	18.2	9.2	9.1	12.3	16.0	20.7	22.3	27.0	25.3	22.5	18.0	13.9	11.6
1984	17.4	12.7	21.6	11.0	15.0	24.5	19.2	10.8	10.7	11.4	14.2	19.4	23.0	25.6	24.7	22.5	20.1	15.0	11.6
1985	17.9	13.1	22.8	10.4	16.2	25.7	18.9	10.1	9.3	12.1	15.6	21.0	23.9	26.6	26.6	23.0	18.2	15.6	12.0
1986	17.8	13.3	22.9	11.0	16.5	25.7	18.8	10.4	10.7	12.9	15.6	21.1	24.0	25.6	27.4	23.6	19.2	13.5	9.1
1987	17.8	12.1	22.8	10.3	13.9	26.0	20.1	10.6	11.2	8.9	15.0	17.8	23.5	28.2	26.2	25.7	19.3	15.4	12.1
1988	17.9	13.5	23.3	11.5	15.8	27.1	17.8	12.1	10.3	11.6	15.3	20.3	24.0	29.1	28.0	22.7	18.6	11.9	10.1
1989	17.4	12.4	22.3	9.8	16.5	25.1	17.8	8.6	10.9	14.0	17.0	18.6	22.2	26.6	26.3	22.8	17.1	13.5	11.0
1990	17.9	12.4	22.5	10.2	16.3	25.8	19.3	8.5	11.2	13.3	15.4	20.1	23.7	27.3	26.2	22.2	20.0	15.6	10.3
1991	16.8	13.0	21.6	9.5	14.8	25.2	18.8	8.5	9.8	13.5	14.1	16.9	24.0	25.6	25.9	22.9	19.0	14.4	6.8
1992	17.4	11.4	22.6	7.9	15.2	26.0	19.3	8.4	8.6	11.0	15.0	19.7	23.2	26.3	28.5	22.9	20.5	14.6	9.8

1993	17.4	12.0	22.5	8.7	15.3	25.8	18.7	8.5	7.7	10.7	15.0	20.1	24.3	25.8	27.3	22.4	19.6	14.1	12.1
1994	18.4	13.6	23.6	11.5	16.3	26.9	19.4	11.3	11.0	13.0	15.5	20.5	23.9	28.1	28.6	24.9	19.6	13.7	10.2
1995	17.4	12.8	22.2	10.6	14.9	26.0	17.1	9.9	11.8	11.3	14.2	19.2	24.6	27.8	25.5	21.8	17.4	12.1	12.6
1996	17.3	12.1	22.3	10.9	15.1	26.0	17.5	10.1	10.1	10.3	14.4	20.5	25.3	26.0	26.6	20.6	17.2	14.8	12.0
1997	17.7	13.1	22.2	11.4	15.2	25.5	18.8	11.1	11.1	12.1	12.2	21.1	24.9	26.3	25.3	23.2	18.0	15.3	11.2
1998	18.1	12.9	23.6	11.1	15.6	27.5	18.6	10.5	11.7	10.6	16.1	20.1	25.5	27.9	29.0	22.7	19.2	14.0	9.7
1999	18.5	12.3	23.6	9.5	16.5	26.9	19.7	9.8	8.9	12.2	15.6	21.6	25.5	27.5	27.8	23.7	20.0	15.5	13.0
2000	18.4	12.9	23.8	10.1	16.9	26.9	19.6	7.2	10.1	11.8	17.1	21.9	25.9	27.2	27.5	23.3	18.8	16.7	12.8
2001	18.6	14.6	23.3	12.2	17.4	26.8	19.1	12.3	11.5	15.5	15.2	21.4	24.1	27.7	28.6	22.8	20.0	14.4	9.1

Table 35. Number of frost days ($T_{min} < 0^{\circ}C$). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1955	2	---	0	---	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1
1956	7	6	1	3	4	0	0	1	1	3	1	0	0	0	0	0	0	0	1
1957	16	11	0	9	2	0	0	7	1	2	0	0	0	0	0	0	0	0	6
1958	7	13	0	13	0	0	0	6	1	0	0	0	0	0	0	0	0	0	0
1959	17	16	0	16	0	0	0	7	9	0	0	0	0	0	0	0	0	0	1
1960	3	4	0	4	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0

1961	8	5	0	5	0	0	0	3	2	0	0	0	0	0	0	0	0	3
1962	4	7	0	7	0	0	0	0	4	0	0	0	0	0	0	0	0	0
1963	8	8	0	4	4	0	0	4	0	4	0	0	0	0	0	0	0	0
1964	21	20	0	20	0	0	0	14	6	0	0	0	0	0	0	0	0	1
1965	8	8	0	7	1	0	0	2	4	1	0	0	0	0	0	0	0	1
1966	5	5	0	4	1	0	0	3	0	1	0	0	0	0	0	0	0	1
1967	15	14	0	14	0	0	0	7	6	0	0	0	0	0	0	0	0	2
1968	14	16	0	13	3	0	0	10	1	3	0	0	0	0	0	0	0	0
1969	4	4	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0
1970	4	2	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	2
1971	3	5	0	3	2	0	0	0	1	2	0	0	0	0	0	0	0	0
1972	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
1973	7	11	0	7	2	0	0	4	1	2	0	0	0	0	0	0	0	0
1974	4	3	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	1
1975	8	8	0	8	0	0	0	4	3	0	0	0	0	0	0	0	0	1
1976	11	9	0	9	0	0	3	4	4	0	0	0	0	0	0	0	3	0
1977	8	7	0	3	1	0	0	3	0	1	0	0	0	0	0	0	0	4
1978	4	8	0	8	0	0	0	4	0	0	0	0	0	0	0	0	0	0

1979	10	9	0	9	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	1
1980	6	7	0	7	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0
1981	15	15	0	15	0	0	0	9	6	0	0	0	0	0	0	0	0	0	0	0
1982	7	7	0	7	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
1983	9	9	0	9	0	0	0	1	8	0	0	0	0	0	0	0	0	0	0	0
1984	2	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
1985	8	8	0	8	0	0	0	1	6	0	0	0	0	0	0	0	0	0	0	1
1986	4	4	0	4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1
1987	9	10	0	4	6	0	0	3	0	6	0	0	0	0	0	0	0	0	0	0
1988	3	2	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1
1989	1	2	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
1990	3	3	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
1991	18	11	0	11	0	0	0	9	2	0	0	0	0	0	0	0	0	0	0	7
1992	8	---	0	13	---	0	0	3	3	---	0	0	0	0	0	0	0	0	0	2
1993	7	9	---	9	0	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0
1994	3	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
1995	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	7	7	0	3	4	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0

Table 36. Maximum number of consecutive frost days ($T_{min} < 0^\circ$). Climatological data for the station of Corfu (Greece)

1965	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1966	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1967	2	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
1968	2	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
1969	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	2	2	0	2	0	0	0	2	1	0	0	0	0	0	0	0	0	1
1977	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1979	3	3	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0

1983	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	4	4	0	4	0	0	0	4	1	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	3	3	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1993	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1994	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1995	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	2	2	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

2001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Table 37. Number of summer days ($T_{max} > 25^{\circ}\text{C}$). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER		SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)													
1955	124	---	123	---	12	89	23	0	0	0	0	12	27	31	31	22	1	0	0	0
1956	127	1	120	0	10	81	36	0	0	0	0	10	19	31	31	29	7	0	0	0
1957	133	7	124	0	6	92	35	0	0	0	1	5	30	31	31	26	9	0	0	0
1958	138	9	128	0	16	87	35	0	0	0	0	16	26	30	31	25	10	0	0	0
1959	111	10	111	0	6	81	24	0	0	0	0	6	19	31	31	24	0	0	0	0
1960	128	0	117	0	11	89	28	0	0	0	0	11	28	30	31	17	11	0	0	0
1961	128	11	121	0	7	85	36	0	0	0	1	6	23	31	31	29	7	0	0	0
1962	123	7	116	0	8	84	31	0	0	0	0	8	22	31	31	24	7	0	0	0
1963	126	7	118	0	6	86	34	0	0	0	0	6	24	31	31	26	8	0	0	0
1964	121	8	115	0	4	88	29	0	0	0	0	4	28	29	31	23	6	0	0	0
1965	134	6	125	0	9	87	38	0	0	0	0	9	26	31	30	29	9	0	0	0
1966	129	9	115	0	1	86	42	0	0	0	0	1	25	31	30	28	14	0	0	0
1967	123	14	115	0	12	79	32	0	0	0	1	11	18	30	31	24	8	0	0	0
1968	121	8	119	0	16	83	22	0	0	0	0	16	22	31	30	20	2	0	0	0

1969	131	2	129	0	19	84	28	0	0	0	0	19	23	30	31	26	2	0	0
1970	115	2	111	0	4	83	28	0	0	0	0	4	24	29	30	24	4	0	0
1971	122	4	121	0	20	87	15	0	0	0	1	19	27	29	31	14	1	0	0
1972	119	1	119	0	10	88	21	0	0	0	0	10	29	31	28	21	0	0	0
1973	139	0	131	0	15	87	37	0	0	0	0	15	25	31	31	29	8	0	0
1974	113	8	112	0	7	85	21	0	0	0	1	6	25	30	30	20	1	0	0
1975	132	1	126	0	14	82	36	0	0	0	0	14	22	29	31	30	6	0	0
1976	123	6	113	0	8	85	30	0	0	0	0	8	24	31	30	20	10	0	0
1977	119	10	119	0	12	87	20	0	0	0	0	12	26	31	30	20	0	0	0
1978	112	0	106	0	2	89	21	0	0	0	0	2	27	31	31	15	6	0	0
1979	136	6	128	0	12	88	36	0	0	0	0	12	29	30	29	28	8	0	0
1980	118	8	111	0	2	80	36	0	0	0	0	2	19	30	31	29	7	0	0
1981	144	7	128	0	11	90	43	0	0	0	0	11	29	31	30	27	16	0	0
1982	141	16	136	0	14	92	35	0	0	0	0	14	30	31	31	30	5	0	0
1983	141	5	131	0	20	84	37	0	0	0	5	15	22	31	31	27	10	0	0
1984	136	10	121	0	6	89	41	0	0	0	0	6	27	31	31	26	15	0	0
1985	144	15	132	0	15	87	42	0	0	0	1	14	26	30	31	30	12	0	0
1986	149	12	136	0	18	89	42	0	0	0	2	16	28	30	31	29	13	0	0

1987	122	13	116	0	3	84	35	0	0	0	0	3	22	31	31	29	6	0	0
1988	135	6	126	0	13	87	35	0	0	0	1	12	25	31	31	26	9	0	0
1989	120	10	116	0	9	79	32	0	0	1	2	6	19	31	29	29	3	0	0
1990	126	3	116	0	10	85	31	0	0	0	0	10	23	31	31	21	10	0	0
1991	118	10	107	0	0	79	39	0	0	0	0	0	23	26	30	28	11	0	0
1992	---	---	121	0	---	86	39	0	0	---	0	9	26	30	30	26	12	1	0
1993	150	13	132	0	12	92	46	0	0	0	1	11	30	31	31	28	18	0	0
1994	135	18	124	0	16	81	38	0	0	0	1	15	19	31	31	27	11	0	0
1995	122	11	117	0	9	89	24	0	0	0	2	7	29	31	29	19	5	0	0
1996	118	5	118	0	13	92	13	0	0	0	0	13	30	31	31	13	0	0	0
1997	141	0	132	0	17	89	35	0	0	0	0	17	27	31	31	26	9	0	0
1998	129	9	123	0	14	90	25	0	0	0	1	13	28	31	31	19	6	0	0
1999	144	6	135	0	18	90	36	0	0	0	1	17	28	31	31	27	9	0	0
2000	142	9	136	0	19	92	31	0	0	0	0	19	30	31	31	25	6	0	0
2001	141	6	126	0	18	85	38	0	0	0	2	16	23	31	31	23	15	0	0

Table 38.. Maximum number of consecutive summer days ($T_{max} > 25^{\circ}\text{C}$) Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1955	93	---	93	---	6	77	16	0	0	0	0	6	15	31	31	16	1	0	0
1956	93	1	93	0	10	67	26	0	0	0	0	10	10	31	31	26	6	0	0
1957	100	3	100	0	5	92	12	0	0	0	1	5	30	31	31	12	5	0	0
1958	52	5	52	0	9	51	18	0	0	0	0	9	13	20	31	16	8	0	0
1959	82	1	82	0	2	77	9	0	0	0	0	2	15	31	31	9	0	0	0
1960	45	0	45	0	9	37	8	0	0	0	0	9	11	24	31	8	6	0	0
1961	103	5	103	0	4	80	23	0	0	0	1	4	18	31	31	23	4	0	0
1962	100	4	100	0	4	79	21	0	0	0	0	4	17	31	31	21	7	0	0
1963	105	4	105	0	3	80	25	0	0	0	0	3	18	31	31	25	4	0	0
1964	71	3	71	0	2	50	21	0	0	0	0	2	17	19	31	21	3	0	0
1965	69	3	69	0	4	69	26	0	0	0	0	4	12	31	26	17	9	0	0
1966	85	6	85	0	1	85	28	0	0	0	0	1	24	31	30	28	6	0	0
1967	62	5	62	0	6	51	12	0	0	0	1	6	9	20	31	11	4	0	0
1968	69	2	69	0	8	69	8	0	0	0	0	8	19	31	19	8	2	0	0
1969	60	1	60	0	12	50	10	0	0	0	0	12	17	19	31	10	2	0	0
1970	43	1	43	0	3	43	22	0	0	0	0	3	24	16	30	22	2	0	0

1971	67	1	67	0	15	60	7	0	0	0	1	15	26	29	31	7	1	0	0
1972	78	1	78	0	6	78	11	0	0	0	0	6	27	31	20	11	0	0	0
1973	100	0	100	0	8	73	27	0	0	0	0	8	11	31	31	27	5	0	0
1974	40	1	40	0	2	40	19	0	0	0	1	2	16	20	30	19	1	0	0
1975	93	1	89	0	13	59	34	0	0	0	0	13	10	28	31	30	4	0	0
1976	75	4	75	0	3	75	10	0	0	0	0	3	22	31	22	7	5	0	0
1977	77	1	77	0	10	77	14	0	0	0	0	10	23	31	23	14	0	0	0
1978	65	0	65	0	1	64	5	0	0	0	0	1	24	31	31	5	4	0	0
1979	49	1	49	0	7	49	15	0	0	0	0	7	29	30	19	13	5	0	0
1980	83	2	83	0	1	58	25	0	0	0	0	1	11	27	31	25	2	0	0
1981	61	2	61	0	6	61	15	0	0	0	0	6	23	31	24	15	8	0	0
1982	129	2	128	0	6	92	31	0	0	0	0	6	30	31	31	30	1	0	0
1983	90	1	90	0	11	73	17	0	0	0	5	11	11	31	31	17	5	0	0
1984	96	5	96	0	3	80	16	0	0	0	0	3	18	31	31	16	15	0	0
1985	103	12	91	0	13	61	42	0	0	0	1	13	18	30	31	30	12	0	0
1986	86	12	86	0	14	61	25	0	0	0	1	14	19	30	31	25	13	0	0
1987	99	4	99	0	2	70	29	0	0	0	0	2	14	31	31	29	3	0	0
1988	100	3	100	0	3	84	16	0	0	0	1	3	22	31	31	16	3	0	0

1989	71	1	71	0	2	71	27	0	0	1	1	2	11	31	29	27	3	0	0
1990	86	1	86	0	5	76	10	0	0	0	0	5	14	31	31	10	7	0	0
1991	32	3	32	0	0	32	22	0	0	0	0	0	21	24	30	22	4	0	0
1992	---	---	58	0	---	58	23	0	0	---	0	4	11	28	30	23	10	1	0
1993	131	7	131	0	11	92	28	0	0	0	1	11	30	31	31	28	7	0	0
1994	94	5	94	0	11	76	18	0	0	0	1	11	14	31	31	18	6	0	0
1995	88	2	88	0	6	88	14	0	0	0	2	6	28	31	29	14	3	0	0
1996	98	1	98	0	5	92	4	0	0	0	0	5	30	31	31	4	0	0	0
1997	101	0	101	0	17	86	15	0	0	0	0	17	24	31	31	15	5	0	0
1998	93	5	93	0	6	78	15	0	0	0	1	6	16	31	31	15	6	0	0
1999	83	2	83	0	6	68	15	0	0	0	1	6	22	31	31	15	3	0	0
2000	106	2	106	0	9	92	16	0	0	0	0	9	30	31	31	16	4	0	0
2001	76	4	76	0	7	71	13	0	0	0	2	7	11	31	31	8	13	0	0

Table 39. Mean of daily average relative humidity (%). Climatological data for the station of Corfu (Greece)

YEAR	ANNUAL	WINTER	SUMMER	WINTER	SPRING	SUMMER	AUTUMN	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		(HALF YEAR)	(HALF YEAR)	(DJF)	(MAM)	(JJA)	(SON)												
1955	72.6	---	67.2	---	72.3	61.2	77.9	82.1	76.3	72.8	74.2	70.0	60.0	59.4	64.2	75.4	79.4	78.7	78.9
1956	69.6	76.8	63.8	76.3	71.8	60.7	69.7	77.1	72.7	73.5	71.8	70.1	64.7	60.0	57.6	58.8	74.3	75.9	78.2

1957	69.6	75.2	65.1	76.7	72.7	58.3	73.1	72.4	79.7	71.1	73.7	73.4	59.1	59.4	56.3	68.6	75.8	74.9	71.4
1958	70.4	75.1	64.5	75.3	73.3	56.9	73.9	75.3	79.5	74.3	73.9	71.8	59.6	57.2	54.1	70.7	73.0	78.0	78.3
1959	70.3	74.4	66.9	72.3	74.9	60.6	74.1	70.2	68.1	78.5	72.9	73.1	65.2	59.3	57.5	73.8	71.2	77.3	76.2
1960	70.0	74.9	64.3	75.4	72.7	57.1	74.3	74.6	75.2	74.6	74.6	68.9	59.3	54.9	57.1	71.6	74.7	76.6	78.7
1961	66.6	73.5	61.7	74.2	68.6	55.5	69.8	74.3	69.1	67.3	72.6	66.1	60.8	53.2	52.7	65.2	68.5	75.8	73.9
1962	67.2	72.5	61.4	73.1	69.0	55.7	71.6	77.9	66.9	71.7	71.2	64.2	57.2	57.4	52.6	65.9	73.0	75.9	72.5
1963	69.3	73.0	65.0	72.3	72.2	59.6	72.1	70.1	74.6	72.3	73.8	70.6	65.4	56.7	56.8	67.3	71.5	77.6	75.2
1964	68.1	72.3	63.8	69.7	72.2	60.3	69.6	65.7	68.2	75.5	71.0	70.1	63.4	54.6	63.1	60.6	73.1	74.8	76.8
1965	67.0	72.9	62.0	73.3	68.0	57.3	69.6	72.9	70.0	69.6	70.2	64.5	57.1	57.2	57.6	65.7	68.2	74.9	76.5
1966	70.0	72.9	64.9	75.2	70.4	60.0	74.0	70.1	79.4	69.1	72.5	69.7	63.5	58.5	58.1	67.5	77.9	76.4	78.1
1967	68.2	73.8	64.3	73.6	67.9	58.8	74.2	72.0	70.3	67.9	69.3	66.6	62.3	55.3	59.0	73.4	74.0	75.2	73.2
1968	68.9	72.7	64.8	72.0	68.8	62.1	72.3	67.9	75.1	71.3	71.3	63.7	65.1	54.1	67.2	67.9	73.4	75.6	74.7
1969	69.7	75.6	63.8	75.1	71.3	59.1	72.6	74.0	76.8	79.0	66.5	68.0	60.0	55.7	61.7	71.0	70.1	76.6	77.3
1970	70.0	74.7	65.3	78.0	68.2	62.1	73.0	80.8	75.7	67.9	73.6	63.2	61.4	62.1	62.6	68.8	72.3	78.0	74.3
1971	67.6	73.1	62.5	73.6	67.4	56.8	71.7	75.2	71.0	68.0	70.9	63.3	58.7	54.9	56.7	70.5	71.0	73.6	77.9
1972	71.6	74.1	67.3	75.7	72.0	63.3	76.0	71.1	78.1	73.3	76.4	66.4	61.2	65.8	62.9	71.6	76.1	80.4	76.1
1973	70.5	76.6	64.8	76.2	69.8	61.1	73.6	75.8	76.7	74.8	71.0	63.8	60.1	62.0	61.2	71.0	73.1	76.6	80.8
1974	70.9	75.5	66.1	76.1	72.9	60.1	76.0	75.3	71.8	75.3	74.5	69.1	62.8	56.4	61.2	73.1	73.2	81.8	76.4

1975	71.0	75.5	67.2	74.6	72.6	63.5	72.9	77.8	69.1	74.1	68.3	75.2	62.8	62.9	64.6	69.3	72.8	76.5	78.3
1976	73.2	74.8	70.0	75.2	74.1	66.2	77.4	75.0	72.1	74.0	75.9	72.4	66.1	66.2	66.4	73.4	78.3	80.6	77.6
1977	70.8	77.8	64.6	78.6	69.5	61.4	76.4	80.6	77.5	72.2	68.8	67.4	61.7	60.8	61.7	67.4	80.9	80.6	69.7
1978	70.6	75.6	66.6	73.4	72.7	61.1	72.4	71.6	79.6	71.6	76.2	70.6	63.8	57.1	62.6	69.5	70.9	76.9	78.3
1979	70.6	74.9	67.3	75.2	74.5	63.1	71.2	74.1	72.9	76.0	74.6	72.9	64.0	59.9	65.4	67.4	71.0	75.3	73.8
1980	74.1	73.7	72.0	73.4	74.7	69.0	78.1	72.1	74.4	75.5	72.4	76.0	68.7	68.3	70.1	76.6	78.3	79.5	77.1
1981	72.5	76.6	68.2	74.0	74.7	63.6	76.6	66.2	79.3	79.8	72.2	71.9	65.5	58.9	66.4	74.6	79.5	75.6	81.0
1982	73.1	76.3	69.3	77.4	72.0	66.3	76.8	79.2	71.4	70.6	74.8	70.8	71.6	61.5	65.9	71.5	78.6	80.2	80.5
1983	73.7	77.0	70.2	76.3	71.7	69.9	76.6	77.6	70.3	74.0	73.7	67.5	72.1	65.8	71.8	70.6	77.7	81.6	81.2
1984	73.0	79.8	68.6	81.1	75.7	62.9	75.4	79.5	82.8	76.2	79.4	71.6	64.4	55.3	69.0	72.1	78.4	75.7	72.0
1985	70.2	75.5	65.1	73.6	73.2	59.4	72.6	77.7	70.6	78.1	72.9	68.7	61.0	59.1	58.0	71.2	67.4	79.4	78.3
1986	72.0	77.6	66.2	79.4	74.7	62.8	72.2	78.2	81.9	80.7	71.7	71.4	66.2	62.8	59.6	65.9	74.5	76.1	75.9
1987	68.8	74.1	63.9	75.7	67.4	60.4	72.0	76.7	74.5	67.1	66.3	68.7	60.6	58.0	62.5	67.4	75.0	73.3	75.6
1988	69.2	73.6	64.2	75.8	68.0	59.5	73.5	81.4	70.2	66.1	70.8	67.3	63.3	54.9	60.3	68.7	75.9	75.7	76.4
1989	69.4	73.9	64.9	73.6	68.4	61.7	73.2	73.6	70.6	70.8	66.6	67.8	65.5	60.7	59.1	69.9	72.6	77.0	78.9
1990	73.1	75.4	68.0	76.9	71.7	63.1	79.6	77.4	74.2	71.9	73.4	69.8	63.8	61.8	63.7	75.7	79.5	83.6	82.6
1991	77.4	81.2	75.3	80.2	81.2	71.9	78.6	79.0	79.0	83.7	82.0	78.0	73.8	73.3	68.6	76.4	79.2	80.2	75.5
1992	75.9	77.8	74.0	76.9	77.6	71.8	77.8	81.0	73.8	77.0	80.2	75.6	72.2	70.9	72.3	73.1	80.3	79.9	74.6

1993	70.9	75.6	66.3	74.5	70.8	62.4	73.7	78.0	70.1	70.1	69.2	73.0	64.2	59.8	63.2	68.3	75.0	77.9	82.0
1994	72.8	77.5	67.8	78.1	73.7	61.0	79.3	77.4	74.4	78.3	72.1	70.7	61.0	58.2	63.7	81.8	74.9	81.2	80.7
1995	74.4	78.6	71.0	79.8	75.2	66.6	75.2	78.6	80.3	76.2	73.9	75.3	63.6	67.5	68.5	77.4	74.5	73.7	83.1
1996	73.8	77.7	68.8	79.8	75.5	64.2	76.4	77.4	78.8	78.6	76.8	71.0	64.3	63.8	64.6	72.6	76.4	80.1	80.9
1997	69.6	75.7	64.5	76.7	66.7	62.5	72.4	78.7	69.8	67.7	73.4	59.3	61.3	59.4	66.7	67.2	72.8	77.1	81.9
1998	71.0	76.4	65.4	82.0	67.9	59.7	76.3	83.7	80.4	62.8	71.5	69.6	63.0	55.7	60.6	72.4	78.1	78.5	76.9
1999	73.9	77.9	67.3	77.7	74.4	61.9	77.4	80.9	75.2	77.3	73.7	72.2	65.1	59.7	61.0	72.1	76.4	83.8	89.7
2000	69.7	78.5	63.4	80.8	68.9	57.8	75.9	79.4	72.8	69.0	70.5	67.4	60.6	56.0	56.9	69.3	78.1	80.1	76.5
2001	69.3	75.9	64.7	74.6	71.3	59.9	72.8	77.8	68.9	73.6	70.5	69.7	60.6	56.2	62.9	68.7	75.2	74.3	73.6

2. 2 Climatological data from numerical models and satellite measurements

The climatological data of section 2.1 is spatially limited, since it is based on station measurements. Complete spatial coverage is provided only by models or satellite measurements. In this report data from the Global Land Data Assimilation System (GLDAS) and the Tropical Rainfall Measuring Mission (TRMM) of NASA are used.

The goal of GLDAS is to ingest satellite- and ground-based observational data products, using advanced land surface modeling and data assimilation techniques, in order to generate optimal fields of land surface states and fluxes (Rodell et al., 2004a). A vegetation-based tiling approach is used to simulate sub-grid scale variability, with a 1-km global vegetation dataset as its basis. Soil and elevation parameters are based on high resolution global datasets. Observation-based precipitation and downward radiation products and the best available analyses from atmospheric data assimilation systems are employed to force the models.

The Tropical Rainfall Measuring Mission (TRMM) is a joint space mission between NASA and the Japan Aerospace Exploration Agency (JAXA) designed to monitor and study tropical rainfall. The term refers to both the mission itself and the satellite that the mission uses to collect data. TRMM is part of NASA's Mission to Planet Earth, a long-term, coordinated research effort to study the Earth as a global system. The satellite was launched on November 27, 1997 from the Tanegashima Space Center in Tanegashima, Japan.

A series of plots that display the mean geographical distribution of each of the following climatic parameters are given in figures 2.1 to 2.23.

Average layer soil moisture at 0-10 cm, 10-40 cm, 40-100 and 100-200 cm

Average layer soil temperature at 0-10 cm, 10-40 cm, 40-100 and 100-200 cm

Average surface temperature

Ground heat flux (w/m²)

Latent heat flux

Near surface air temperature

Near surface specific humidity

Near surface wind magnitude

Net longwave radiation

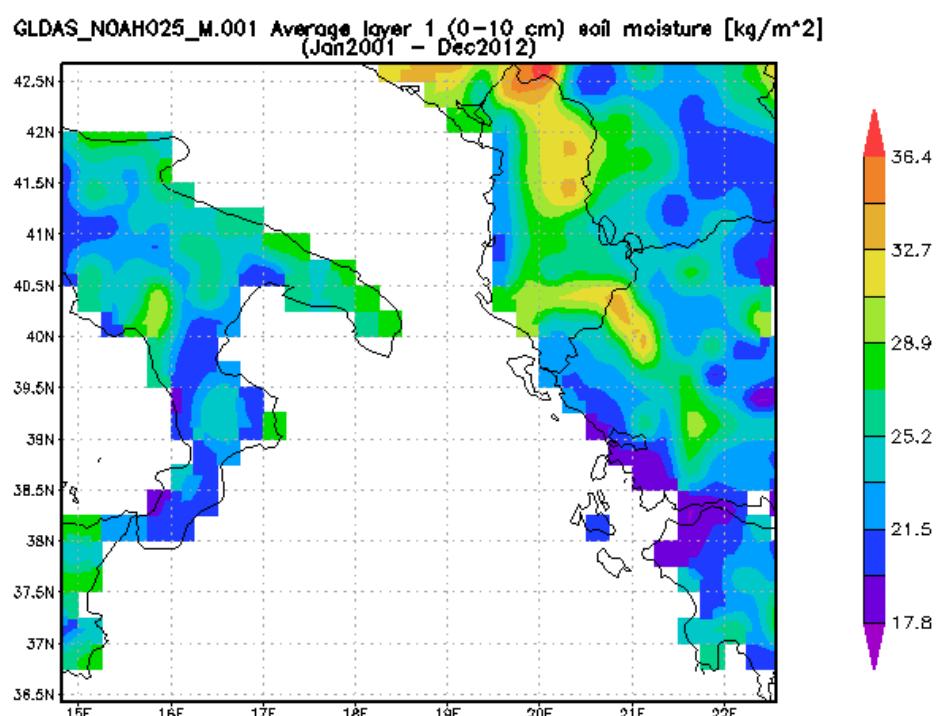
Net shortwave radiation

Rainfall rate
Accumulated Rain
Sensible heat flux
Snow water equivalent
Snowfall rate
Snowmelt
Subsurface runoff
Surface incident longwave radiation
Surface incident shortwave radiation
Surface pressure
Surface runoff
Total canopy water storage
Total evapotranspiration

The numerical data that are required to produce the geographical distribution of figures 2.1 to 2.23 are given in tables 40 to 46.

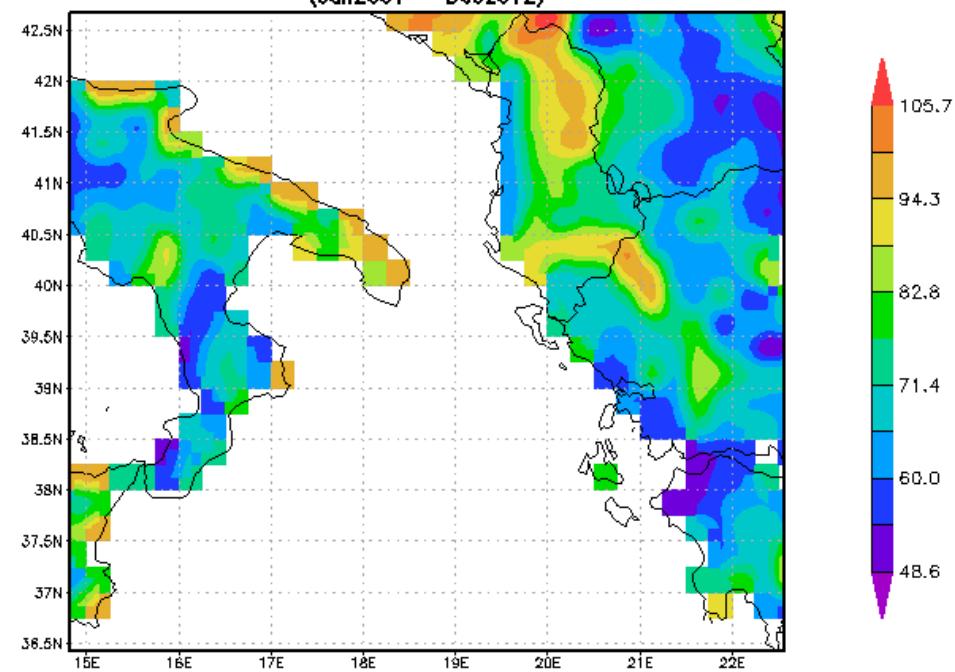
AVERAGE LAYER SOIL MOISTURE

Average layer soil moisture is the depth-averaged amount of water present in a specific soil layer beneath the surface. Soil moisture content can be measured by Gravimetric Soil Moisture (GSM). It is the mass of water compared to the mass of solid materials per unit volume of soil. Soil moisture can also be expressed in Volumetric Soil Moisture (VSM) which is the volume of water per unit volume of soil. As water is of a known density, the mass of water per unit volume of soil (g/cm^3) can be easily determined.



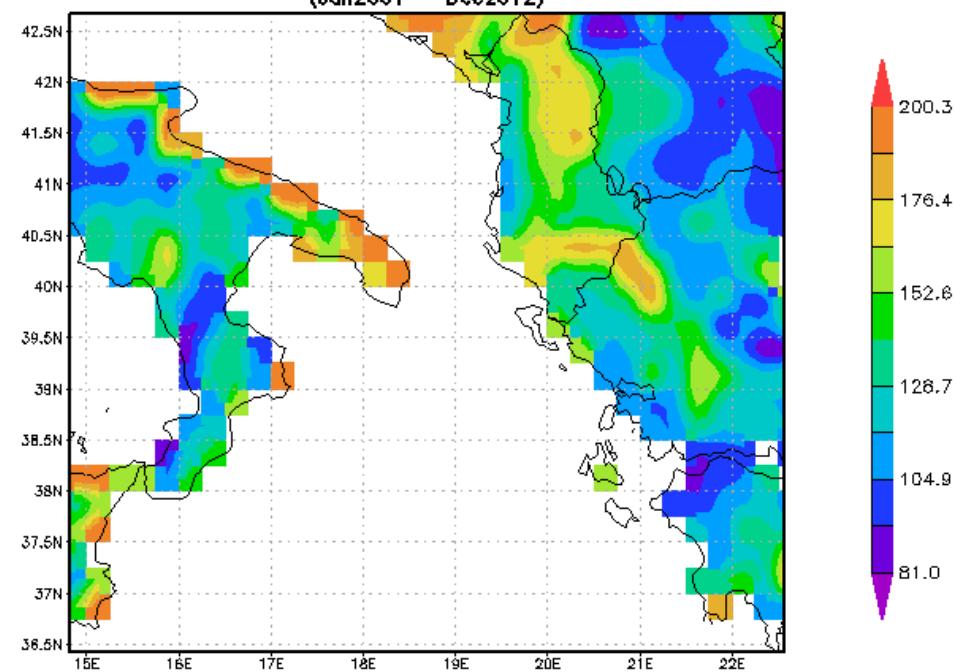
(a)

GLDAS_NOAH025_M.001 Average layer 2 (10–40 cm) soil moisture [kg/m²]
(Jan2001 – Dec2012)



(b)

GLDAS_NOAH025_M.001 Average layer 3 (40–100 cm) soil moisture [kg/m²]
(Jan2001 – Dec2012)



(c)

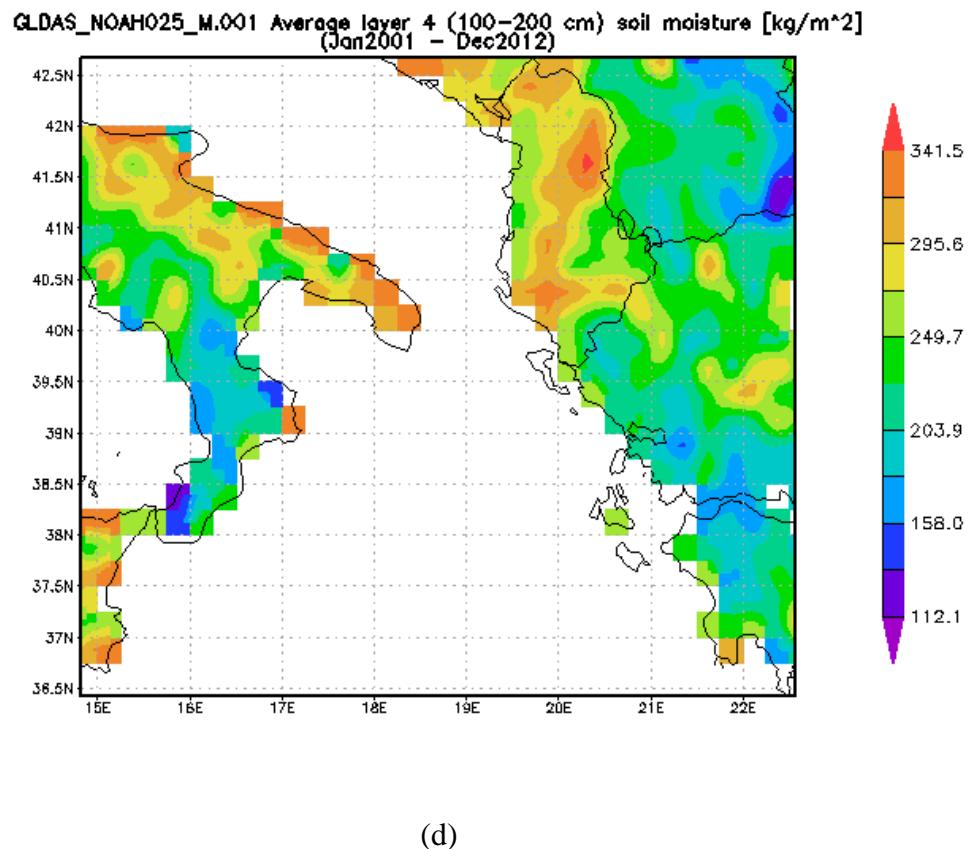
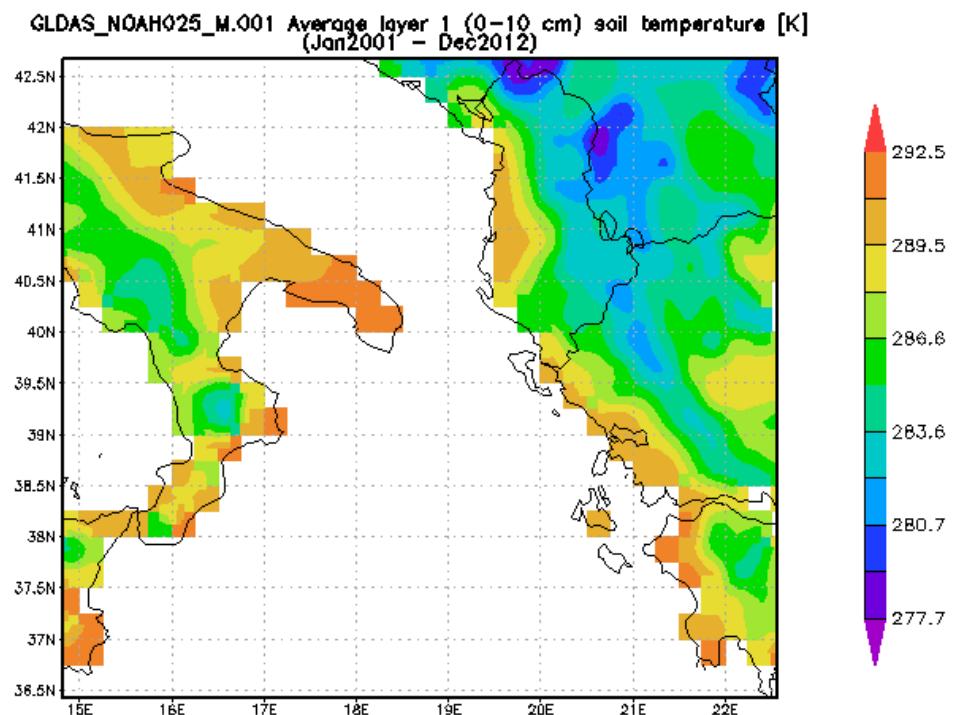


Figure 2.1. Twelve-year average (2001-2012) spatial distribution of “Soil Moisture” for the vertical layers of (a) 0-10cm, (b) 10-40cm, (c) 40-100cm and (d) 100-200cm, over the study region based on GLDAS data.

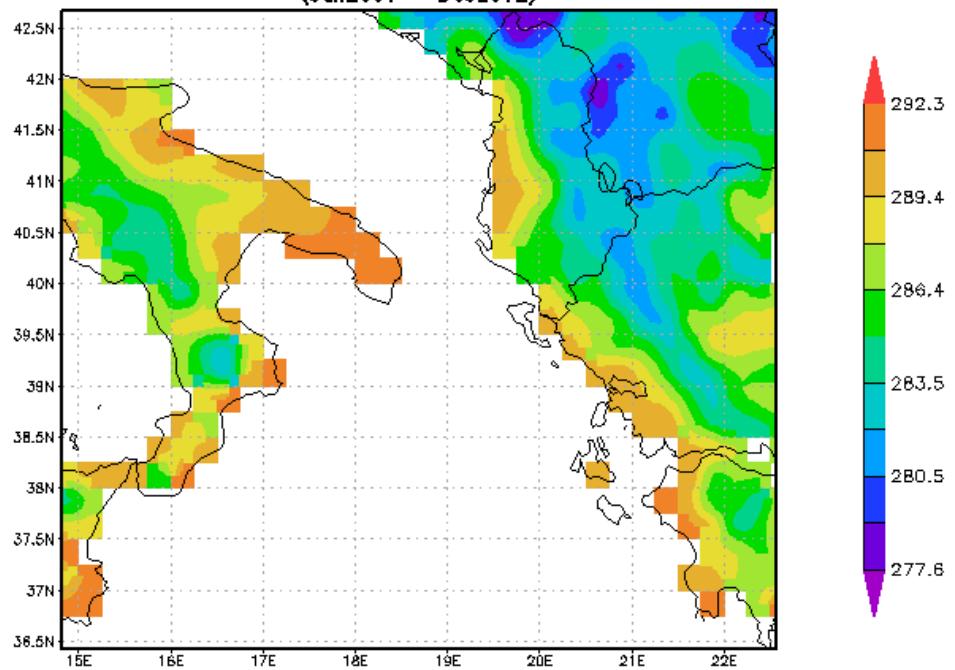
AVERAGE LAYER SOIL TEMPERATURE

Average layer soil temperature is the depth-averaged temperature beneath the soil surface at a specified layer. These soil temperatures may contribute to the low frequency variability of energy and water fluxes. They are important measured quantities in analyzing of the ground heat flux, and then the energy and water cycles.



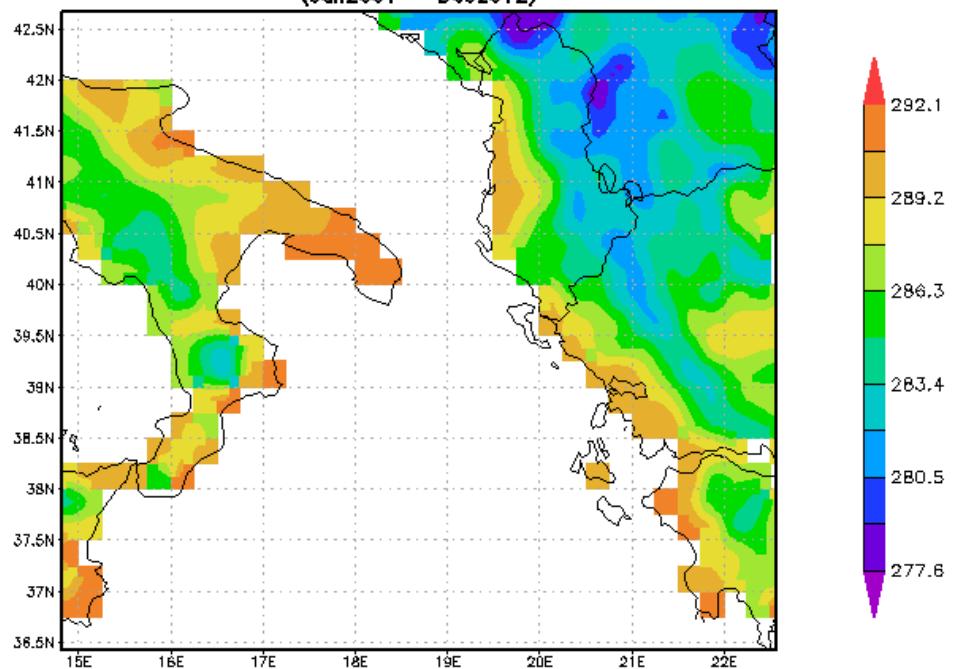
(a)

GLDAS_NOAH025_M.001 Average layer 2 (10–40 cm) soil temperature [K]
(Jan2001 – Dec2012)



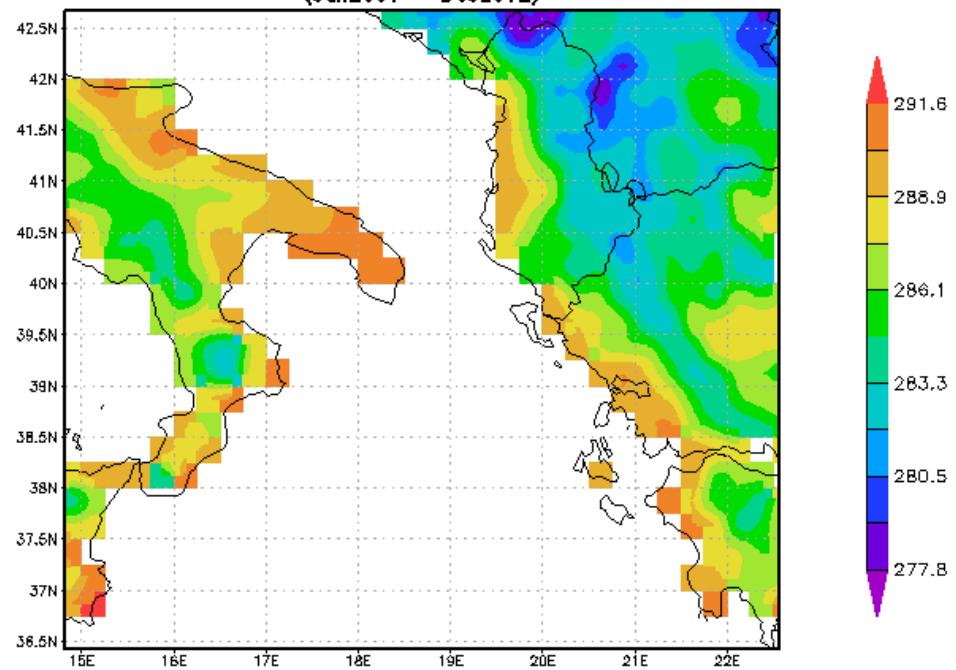
(b)

GLDAS_NOAH025_M.001 Average layer 3 (40–100 cm) soil temperature [K]
(Jan2001 – Dec2012)



(c)

GLDAS_NOAH025_M.001 Average layer 4 (100–200 cm) soil temperature [K]
(Jan2001 – Dec2012)



(d)

Figure 2.2. Twelve-year average (2001-2012) spatial distribution of “Soil Temperature” for the vertical layers of (a) 0-10cm, (b) 10-40cm, (c) 40-100cm and (d) 100-200cm, over the study region based on GLDAS data.

AVERAGE SURFACE TEMPERATURE

Average surface temperature of the earth is the combined temperature of the near-surface air temperature and the sea surface temperature.

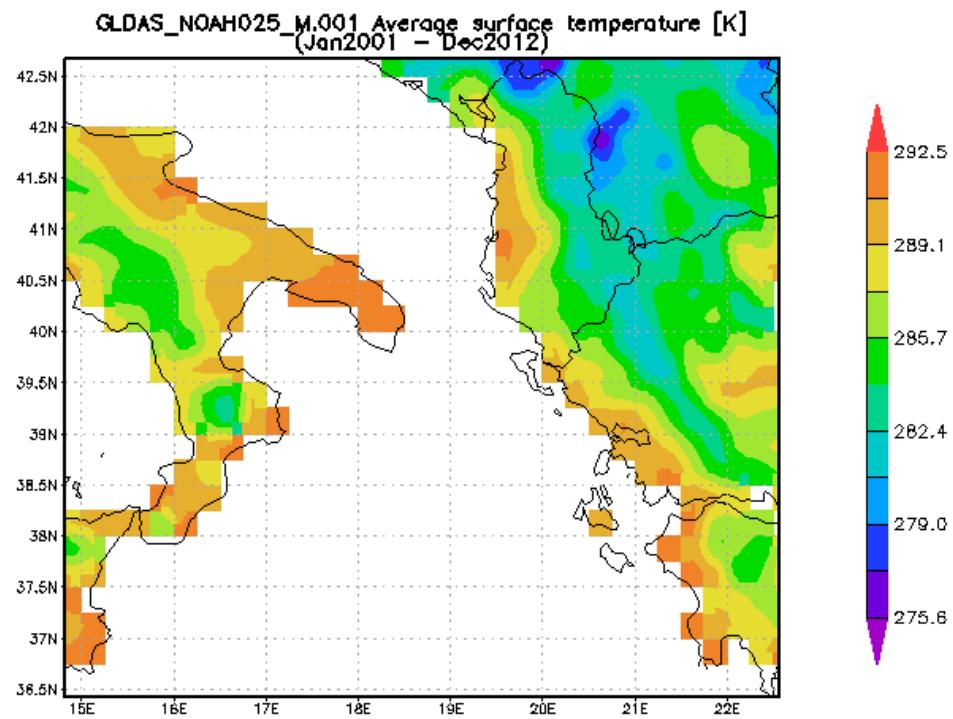


Figure 2.3. Twelve-year average (2001-2012) spatial distribution of “Average Surface Temperature” over the study region based on GLDAS data.

GROUND HEAT FLUX

Ground heat flux is the process where heat energy is transferred from the Earth's surface to the subsurface of the Earth via conduction. It is an important component of the Earth's surface energy budget. Ground heat flux can be presented by the amount of heat transmitted per unit of area per unit of time.

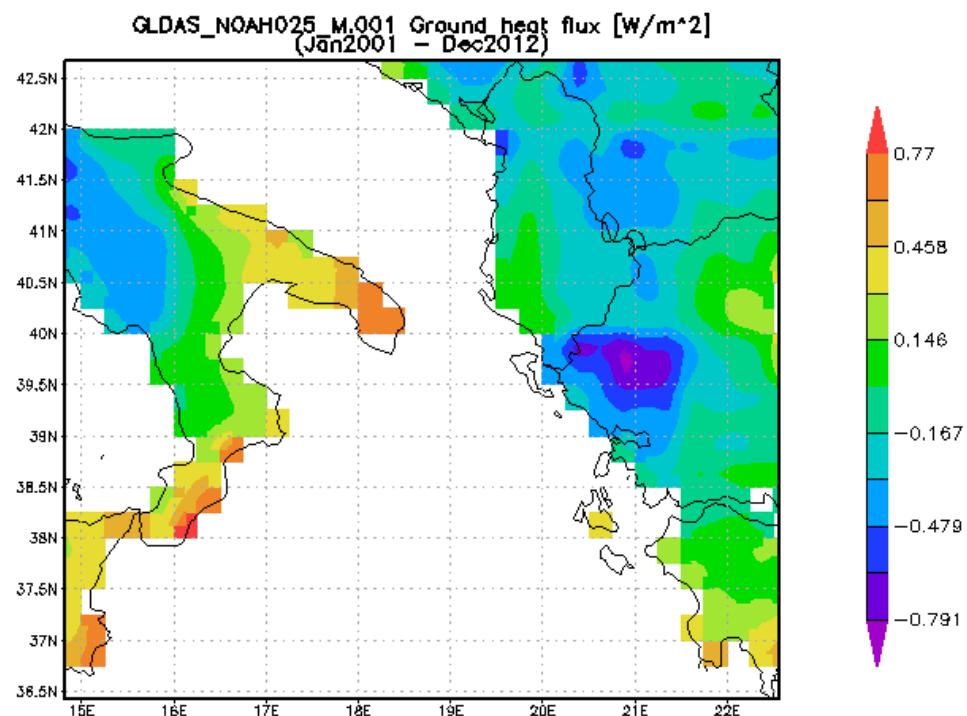


Figure 2.4. Twelve-year average (2001-2012) spatial distribution of “Ground Heat Flux”, over the study region based on GLDAS data.

LATENT HEAT FLUX

Latent heat flux is the flux of heat from the Earth's surface to the atmosphere that is associated with evaporation of water at the surface and subsequent condensation of water vapor in the troposphere.

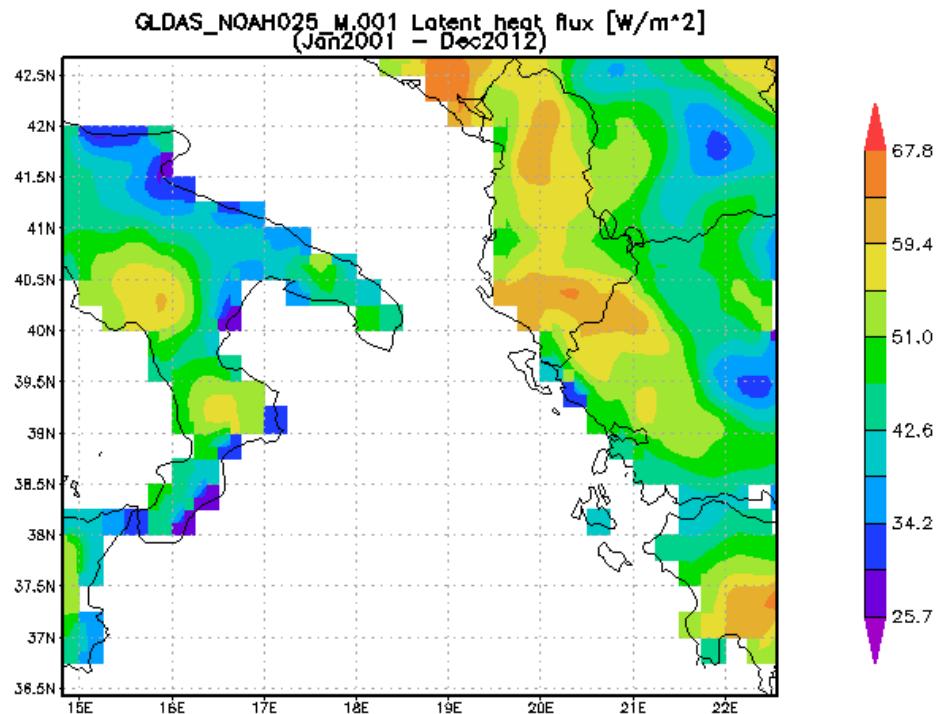


Figure 2.5. Twelve-year average (2001-2012) spatial distribution of “Latent Heat Flux” over the study region based on GLDAS data.

NEAR SURFACE AIR TEMPERATURE

Near surface air temperature is a measurement of the average kinetic energy of the air near the surface of the Earth.

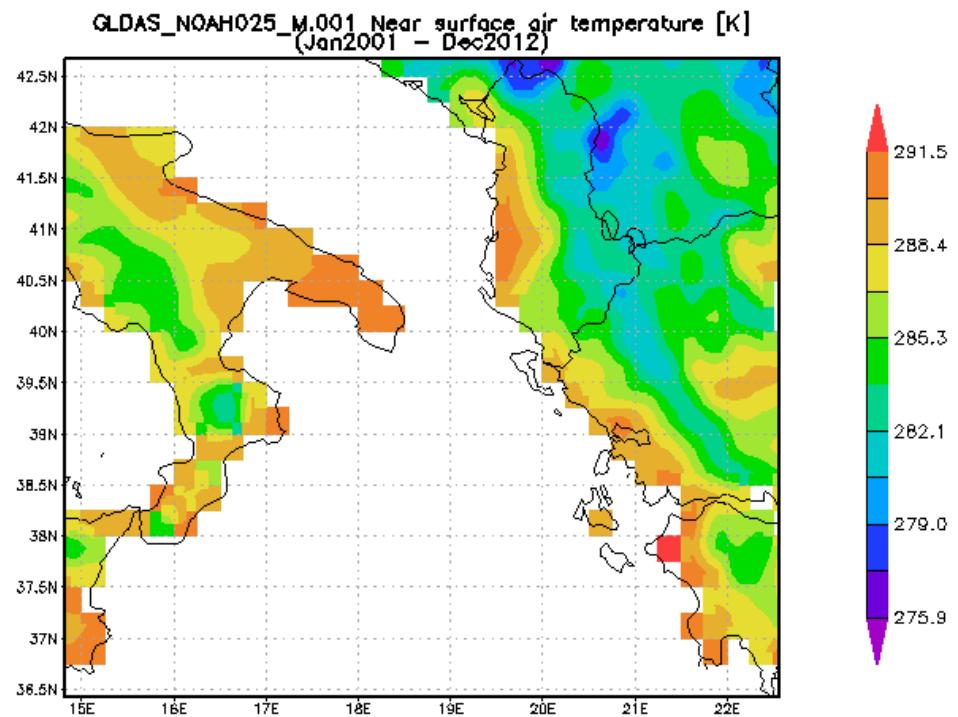


Figure 2.6. Twelve-year average (2001-2012) spatial distribution of “Near Surface Air Temperature” over the study region based on GLDAS data.

NEAR SURFACE SPECIFIC HUMIDITY

Near surface specific humidity is the ratio of the mass of water vapor within a given mass of air near the Earth's surface. It is usually expressed in weight of the water vapor per unit weight of the air at specified temperature.

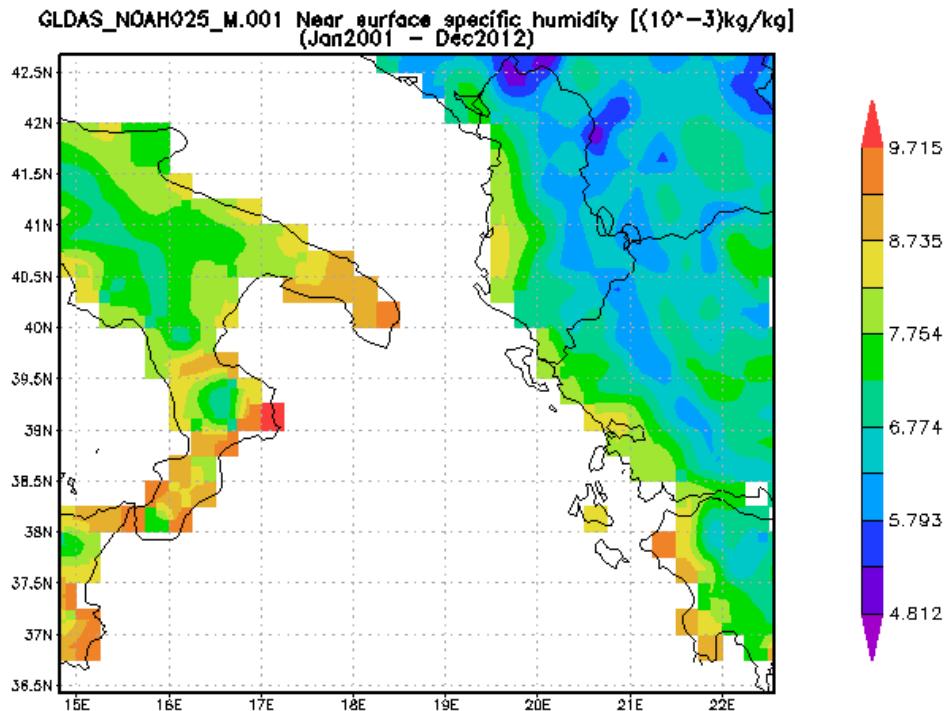


Figure 2.7. Twelve-year average (2001-2012) spatial distribution of “Near Surface Specific Humidity” over the study region based on GLDAS data.

NEAR SURFACE WIND MAGNITUDE

Near surface wind magnitude is a measure of the speed of air movement relatively to a fix point on the Earth. It expresses the strength of the horizontal movement of the air near the Earth's surface.

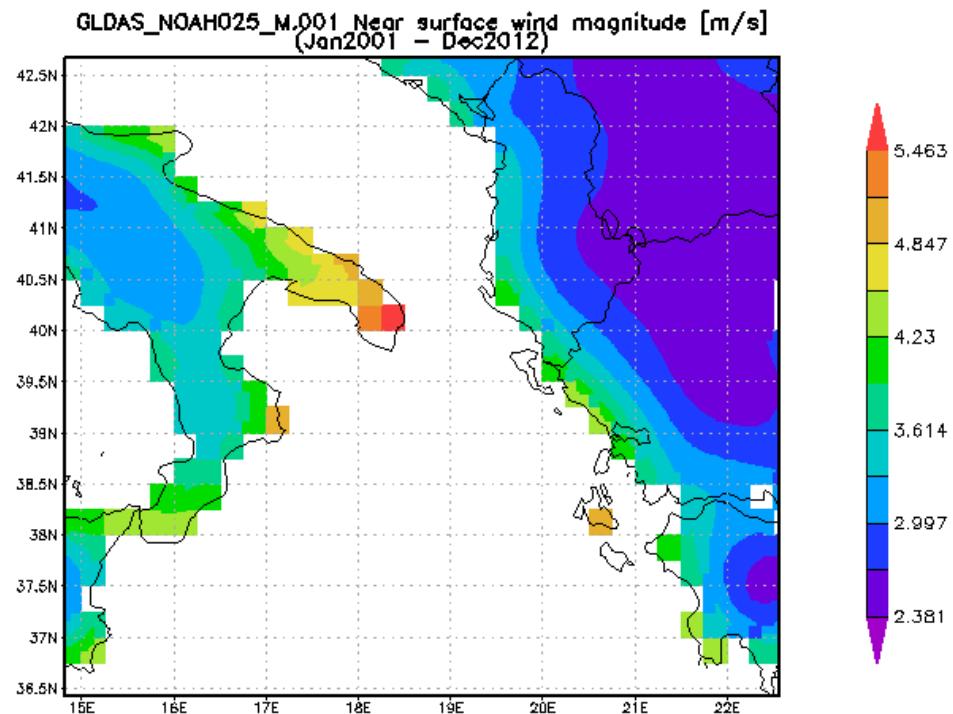


Figure 2.8. Twelve-year average (2001-2012) spatial distribution of “Near Surface Wind Magnitude” over the study region based on GLDAS data.

NET LONGWAVE RADIATION

Net longwave radiation is a measure of the difference between outgoing longwave radiation from the earth surface and incident atmospheric longwave counter-radiation. Thus, net longwave radiation can be expressed by:

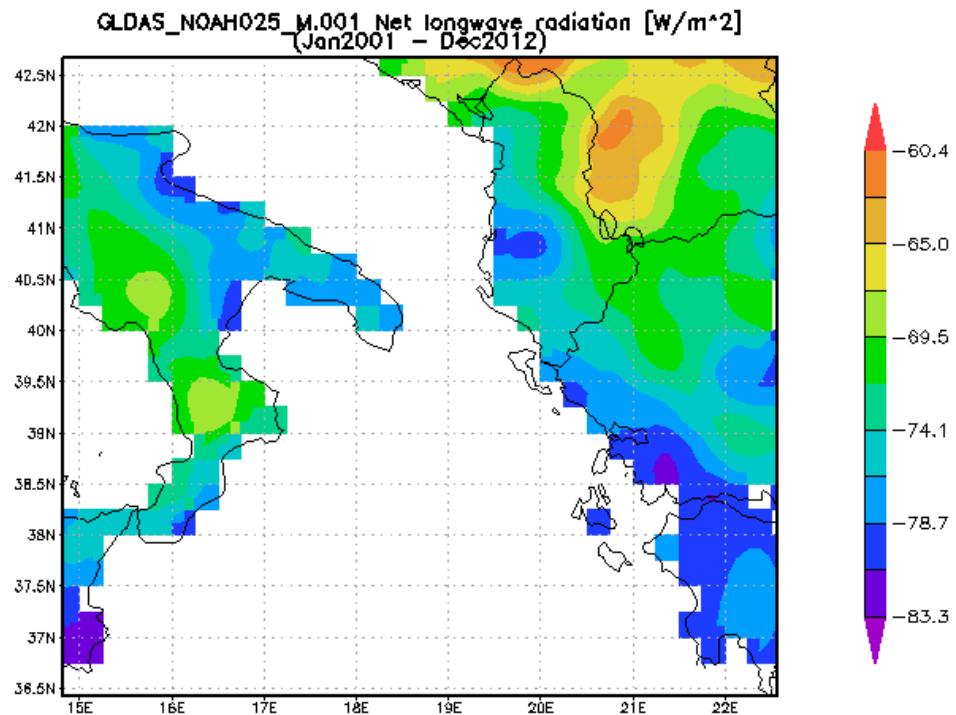


Figure 2.9. Twelve-year average (2001-2012) spatial distribution of “Net Longwave Radiation” over the study region based on GLDAS data.

NET SHORTWAVE RADIATION

Net shortwave radiation is a measure of the difference between incoming solar shortwave radiation and outgoing shortwave radiation from the earth surface. Net shortwave radiation can be expressed by the amount of incident solar shortwave radiation absorbed on the earth surface per unit of area:

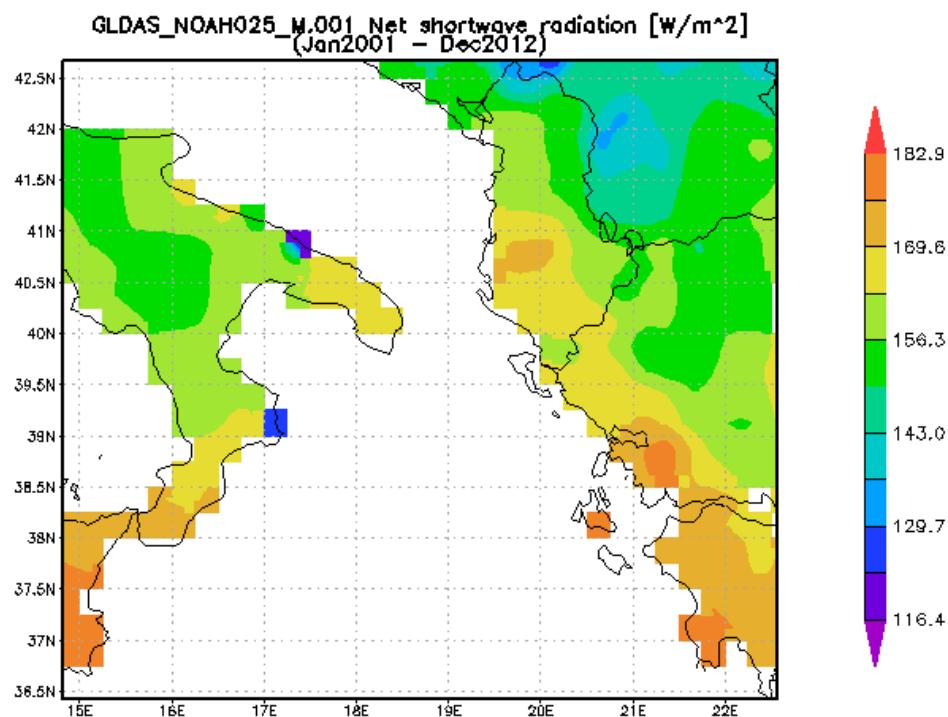
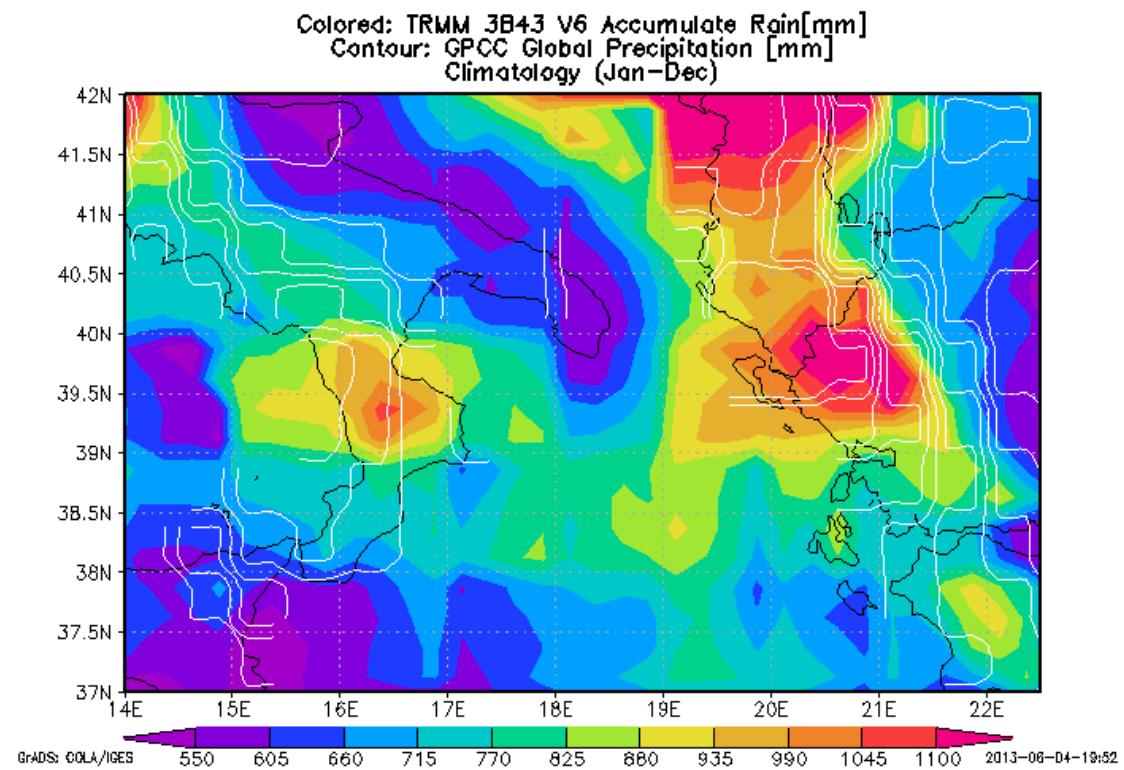
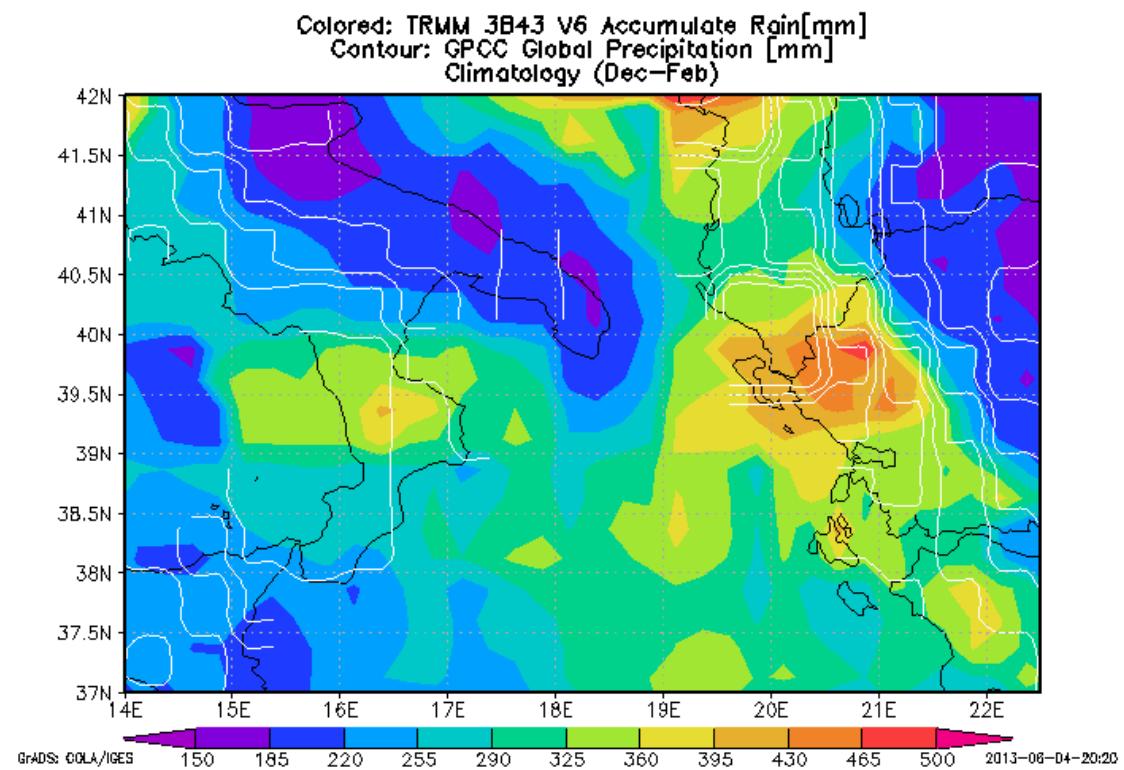


Figure 2.10. Twelve-year average (2001-2012) spatial distribution of “Net Shortwave Radiation” over the study region based on GLDAS data.

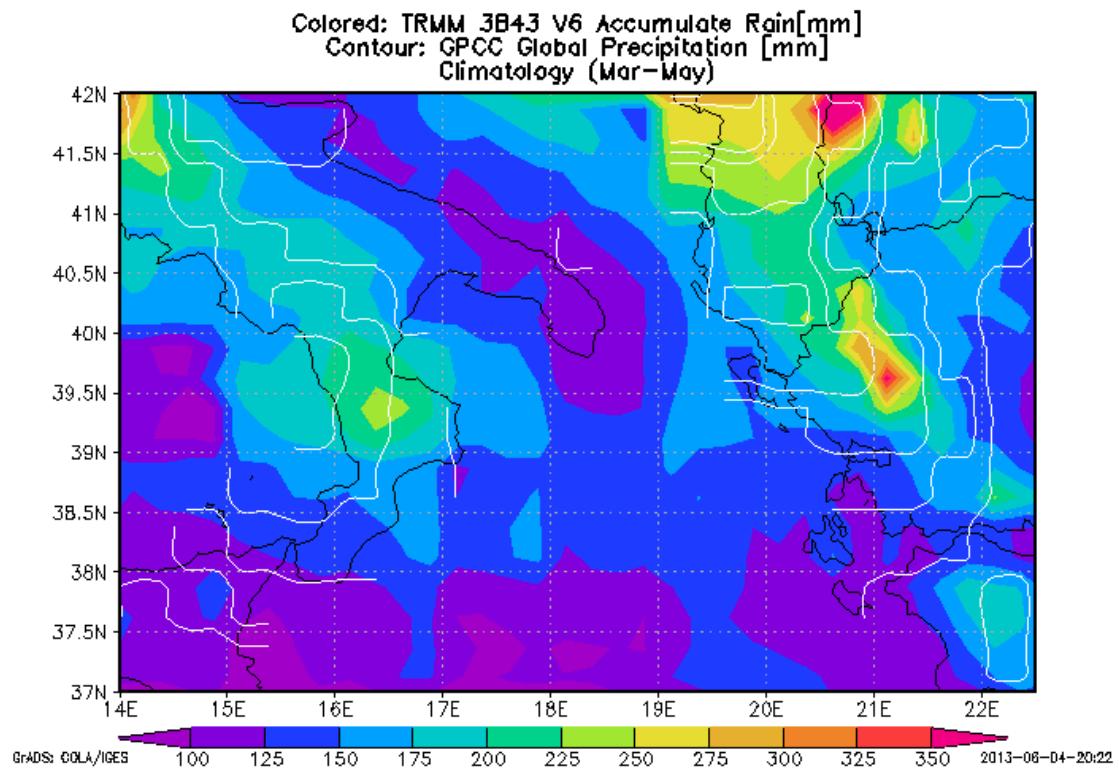
ACCUMULATED RAIN



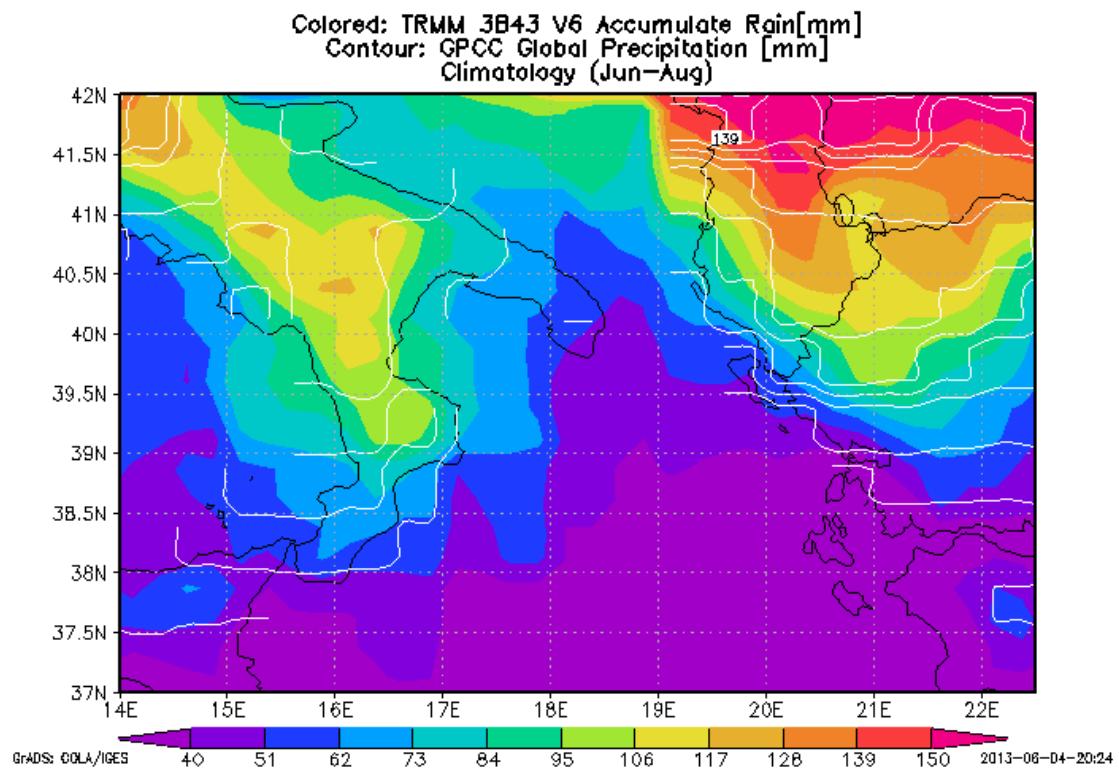
(a)



(b)



(c)



(d)

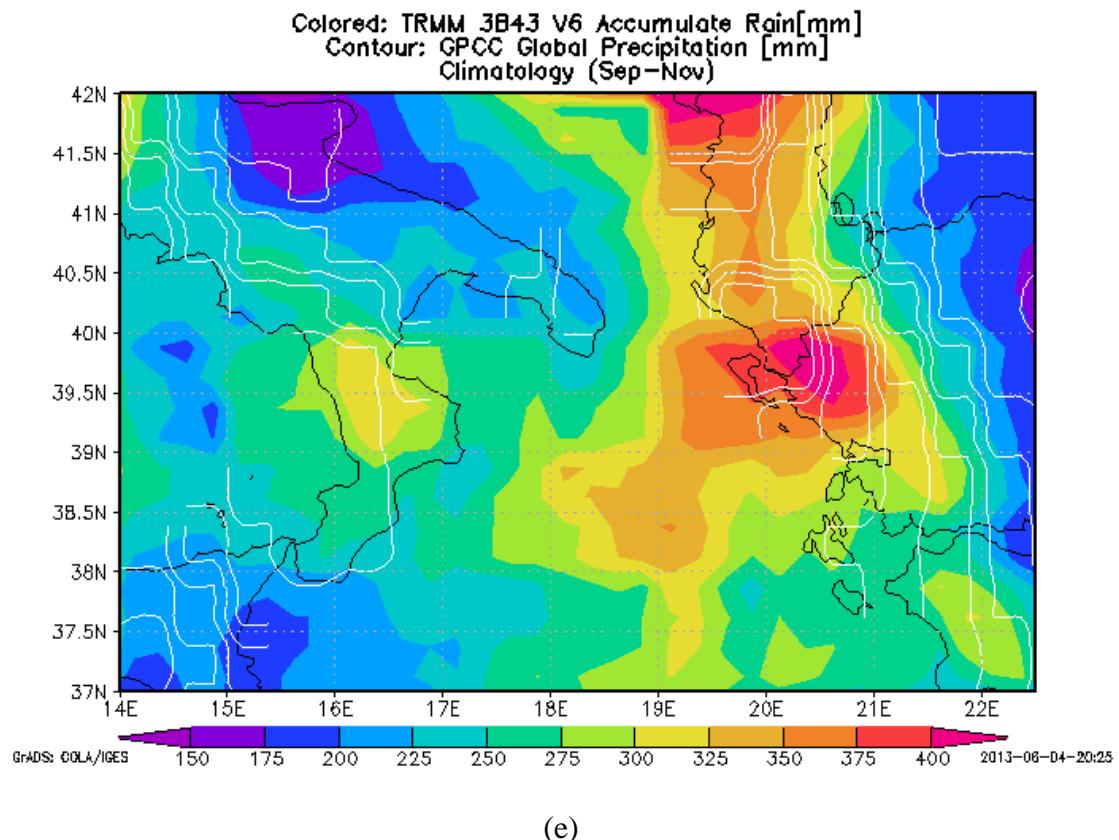


Figure 2.11. Twelve-year average (2001-2012) spatial distribution of (a) annual, (b) winter (DJF), (c) spring (MAM), (d) summer (JJA) and (e) autumn (SON) “Accumulated Rain”, over the study region based on TRMM data.

RAINFALL RATE

Rainfall rate is a measure of the intensity of rainfall. It is measured by calculating the amount of rain that falls to the earth surface per unit area per unit of time.

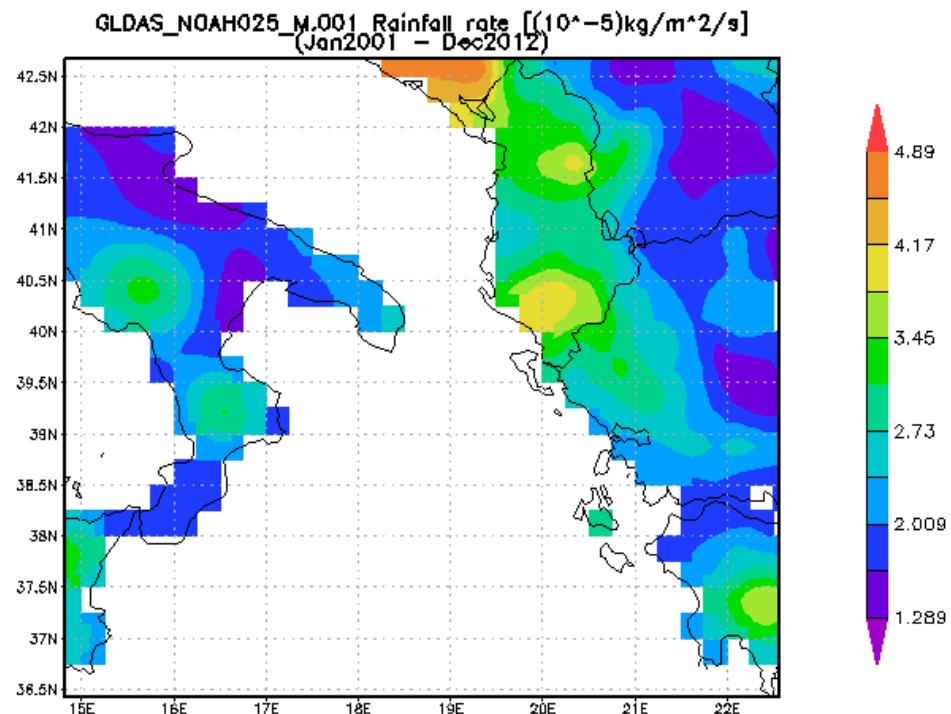


Figure 2.12. Twelve-year average (2001-2012) spatial distribution of “Rainfall rate” over the study region based on GLDAS data.

SENSIBLE HEAT FLUX

Sensible heat flux is the process where heat energy is transferred from the Earth's surface to the atmosphere by conduction and convection. The heat energy then can move horizontally by atmospheric circulation. Sensible heat flux can be expressed by the amount of heat transmitted per unit of area per unit of time.

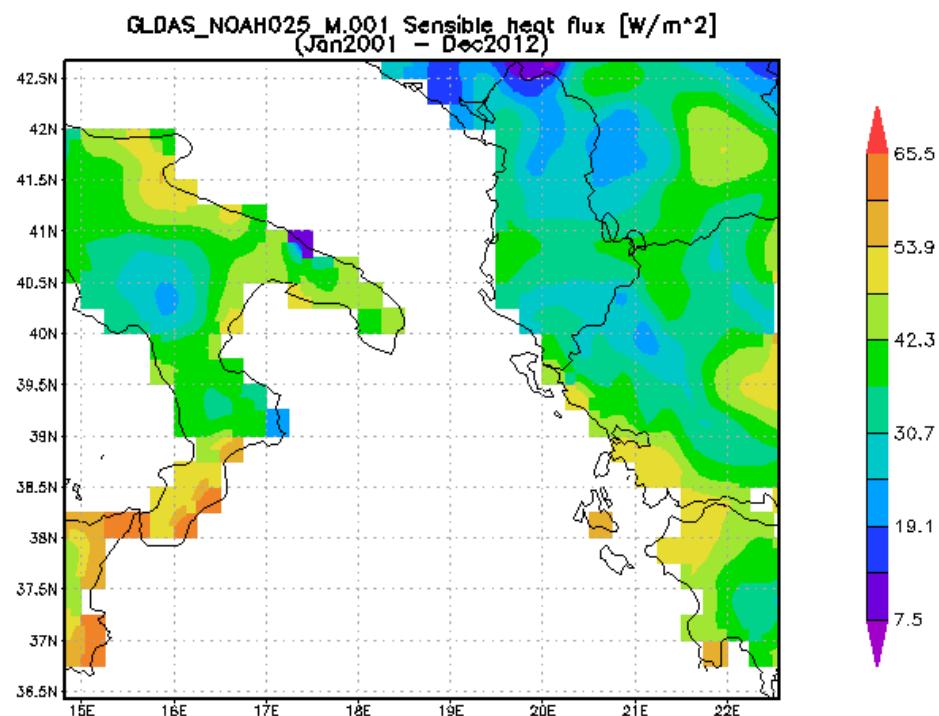


Figure 2.13. Twelve-year average (2001-2012) spatial distribution of “Sensible Heat Flux” over the study region based on GLDAS data.

SNOW WATER EQUIVALENT

Snow Water Equivalent (SWE) is a measurement of the amount of water contained in snow pack. It can be considered as the depth of water that would theoretically result if the whole snow pack instantaneously melts. Snow Water Equivalent (SWE) is the product of snow depth and snow density. It can be presented in units of either kg/m² or m:

- SWE (kg/m²) = snow depth (m) x snow density (kg/m³)
- SWE (m) = snow depth (m) x snow density (kg/m³) / water density (kg/m³)

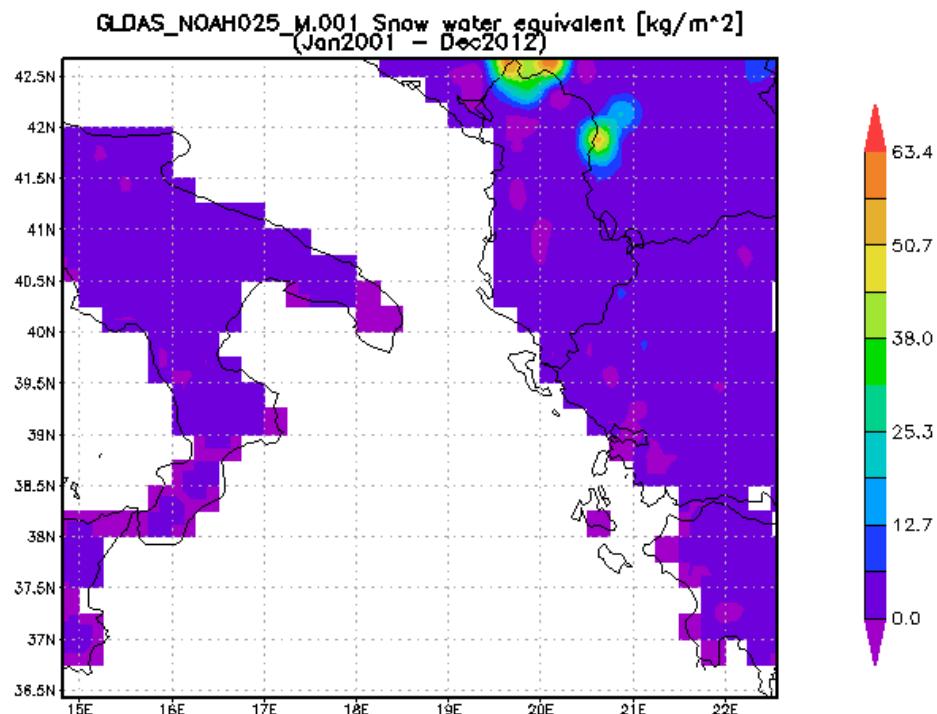


Figure 2.14. Twelve-year average (2001-2012) spatial distribution of “Snow Water Equivalent” over the study region based on GLDAS data.

SNOWFALL RATE

Snowfall Rate is a measure of the intensity of snowfall. It is measured by calculating the amount of snow that falls to the earth surface per unit area per unit of time. It can

also be expressed in the mass of water per unit area over a unit of time if the Snow Water Equivalent (SWE) is known.

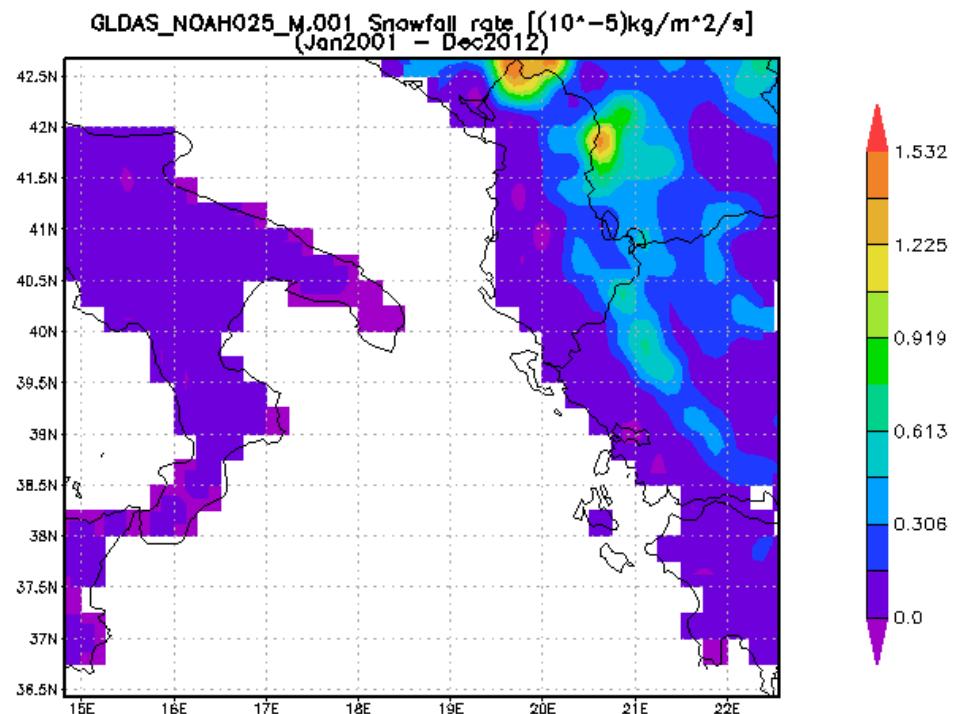


Figure 2.15. Twelve-year average (2001-2012) spatial distribution of “Snowfall Rate” over the study region based on GLDAS data.

SNOWMELT

Snowmelt is a measurement of the amount of water produced from melting snow.

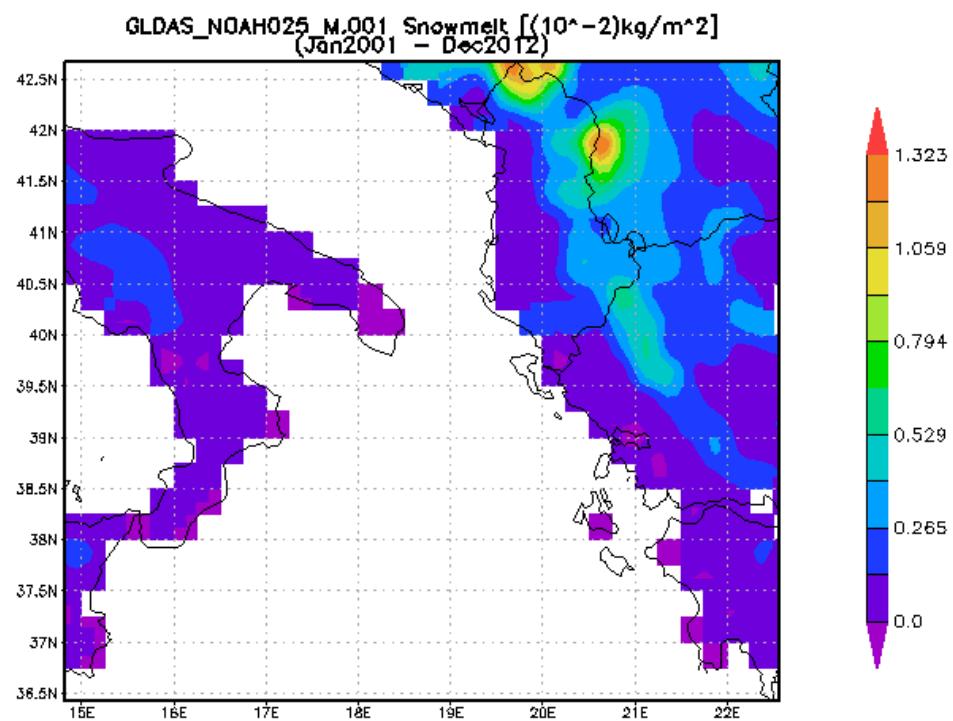


Figure 2.16. Twelve-year average (2001-2012) spatial distribution of “Snowmelt” over the study region based on GLDAS data.

SUBSURFACE RUNOFF

Subsurface runoff is the water that infiltrates in the vadose zone (unsaturated zone), from rain, snowmelt, or other sources, and moves laterally towards the streams. Vadose zone extends from the top of the ground surface to the water table. It is one of the major components in the water cycle. Subsurface runoff can be expressed in water volume (or mass) per unit of area per unit of time.

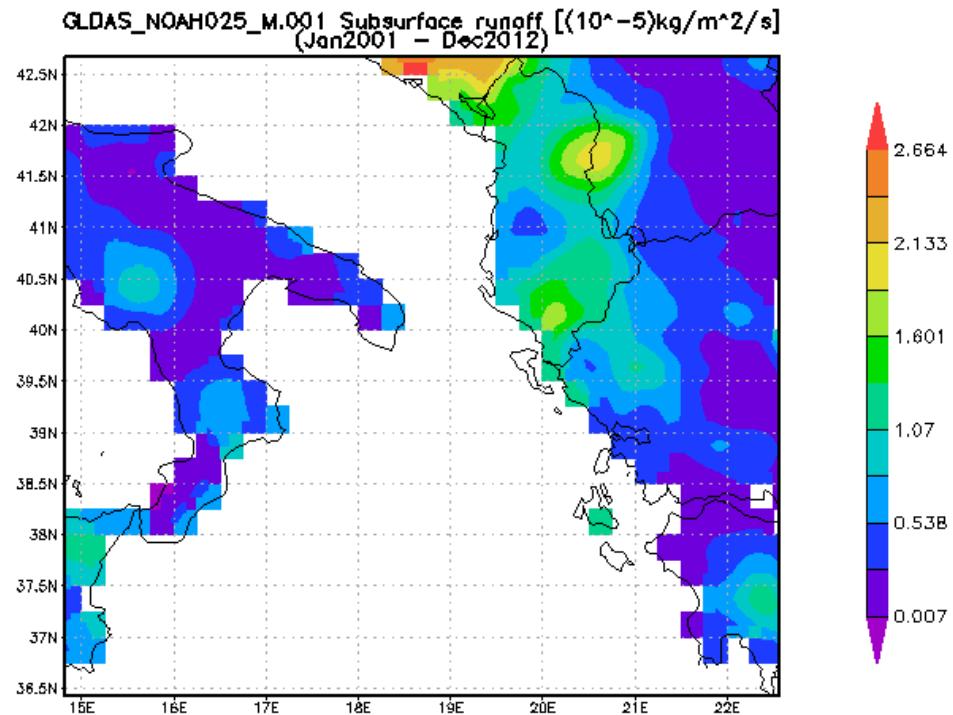


Figure 2.17. Twelve-year average (2001-2012) spatial distribution of “Subsurface runoff” over the study region based on GLDAS data.

SURFACE INCIDENT LONGWAVE RADIATION

Surface incident longwave radiation is a measure of the incident longwave radiant energy from the atmosphere to the Earth's surface. It is an important measured quantity in analyzing of the energy balance in the Earth system. Surface incident longwave radiation can be expressed by radiant energy flux per unit of area.

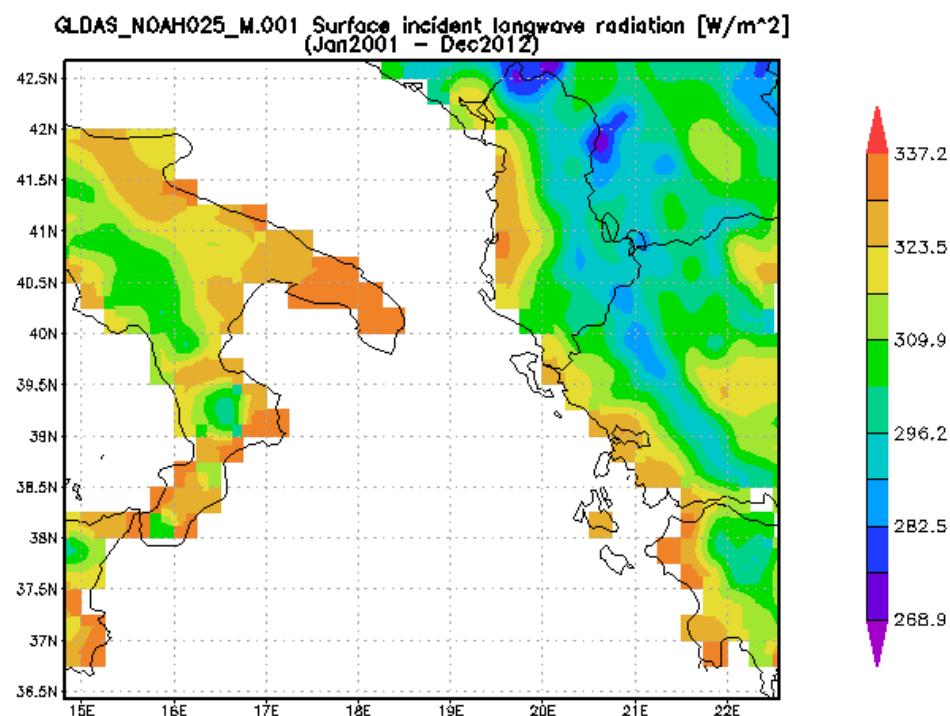


Figure 2.18. Twelve-year average (2001-2012) spatial distribution of “Surface Incident Longwave radiation ” over the study region based on GLDAS data.

SURFACE INCIDENT SHORTWAVE RADIATION

Surface incident shortwave radiation is a measure of the incident shortwave radiant energy from the Sun to the Earth's surface. It is an important measured quantity in analyzing of the energy balance in the Earth system. Surface incident shortwave radiation can be expressed by radiant energy flux per unit of area.

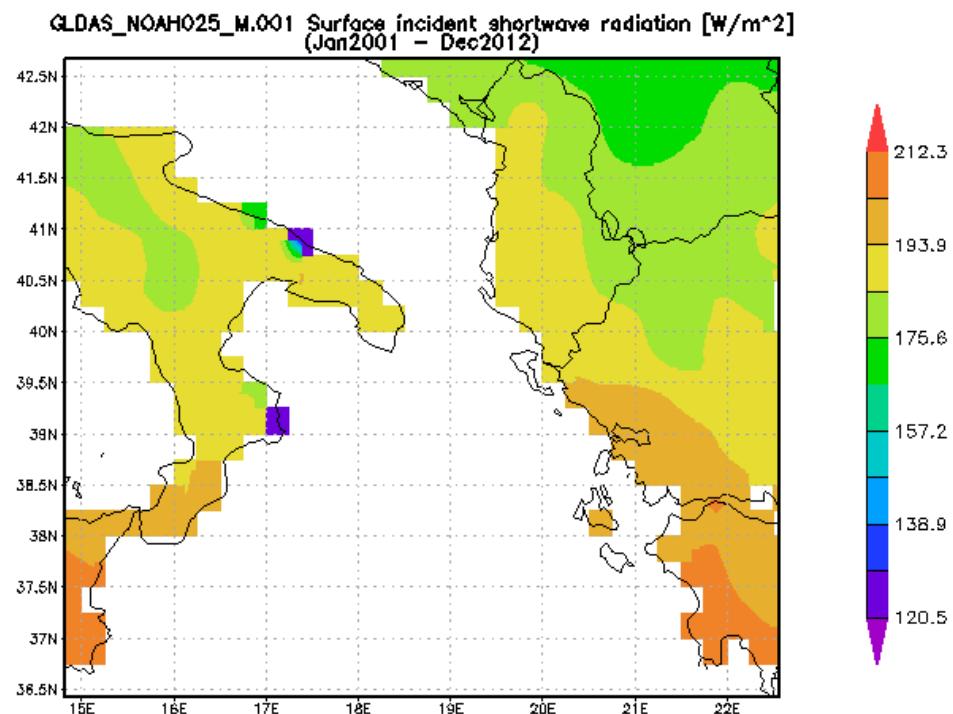


Figure 2.19. Twelve-year average (2001-2012) spatial distribution of “Surface Incident Shortwave radiation ” over the study region based on GLDAS data.

SURFACE PRESSURE

Surface pressure is the atmospheric pressure on the Earth's surface. It is the mass or weight of the air column lying directly above the Earth's surface.

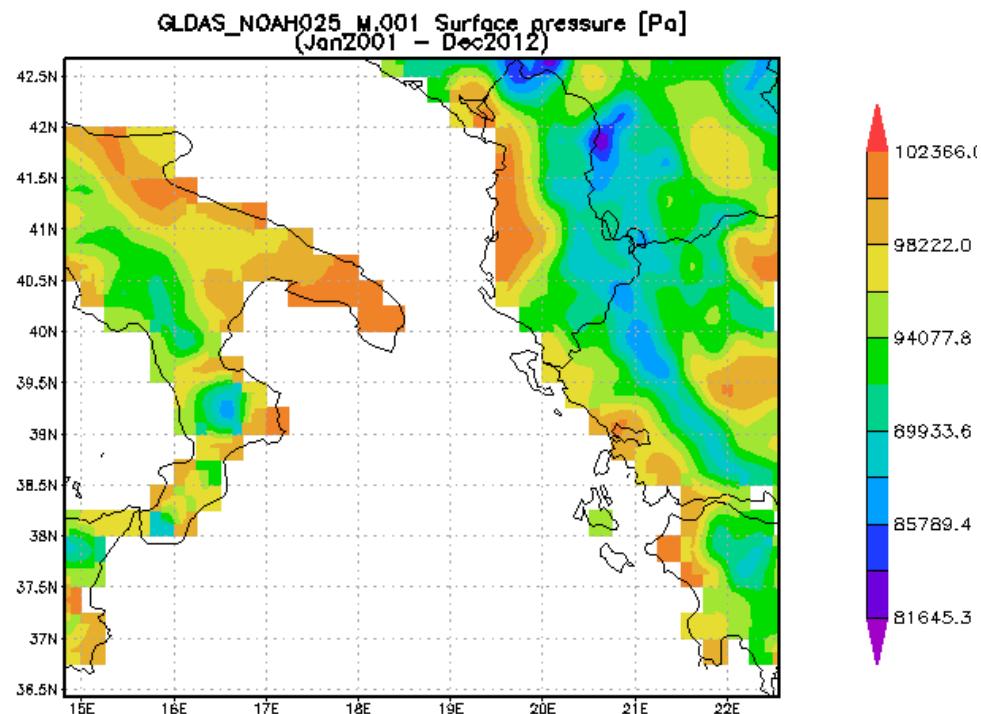


Figure 2.20. Twelve-year average (2001-2012) spatial distribution of “Surface Pressure” over the study region based on GLDAS data.

SURFACE RUNOFF

Surface runoff is the water, from rain, snowmelt, or other sources, flowing over the land surface to ultimately reach streams. It is one of the major components in the water cycle. Surface runoff can be expressed in the water volume (or mass) per unit of area per unit of time

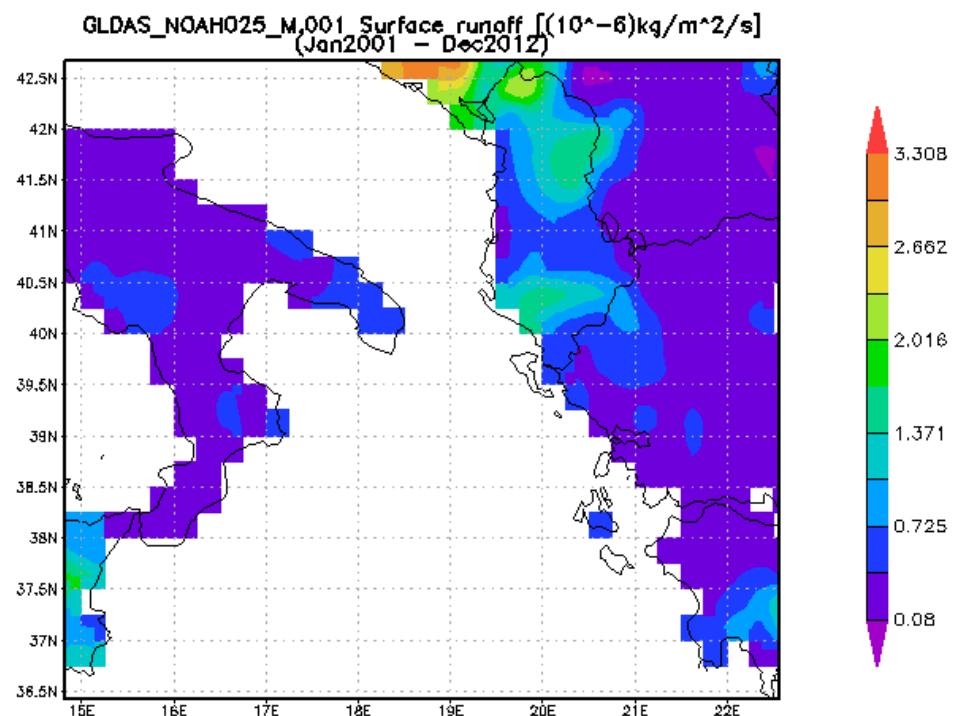


Figure 2.21. Twelve-year average (2001-2012) spatial distribution of “Surface runoff” over the study region based on GLDAS data.

TOTAL CANOPY WATER STORAGE

Total canopy water storage is the maximum amount of water that a vegetation canopy can hold, beyond which additional water starts to drip off. It is usually expressed by the mass of water storage per unit leaf area. It is an important factor in analyzing surface hydrological dynamics.

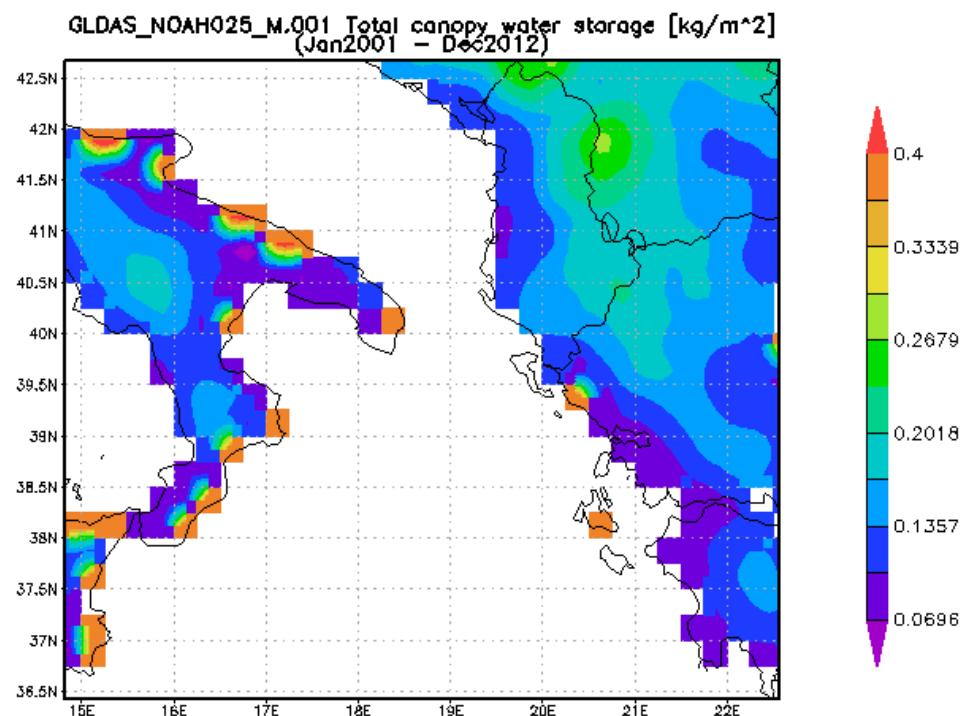


Figure 2.22. Twelve-year average (2001-2012) spatial distribution of “Total Canopy Water Storage ” over the study region based on GLDAS data.

TOTAL EVAPOTRANSPIRATION

Total Evapotranspiration (ET) is the sum of evaporation and plant transpiration. Evaporation accounts for the movement of water to the air from various sources on earth surface such as soil, ocean, etc. Transpiration accounts for the movement of water within a plant and the subsequent loss of water as vapors through stomata in its leaves.

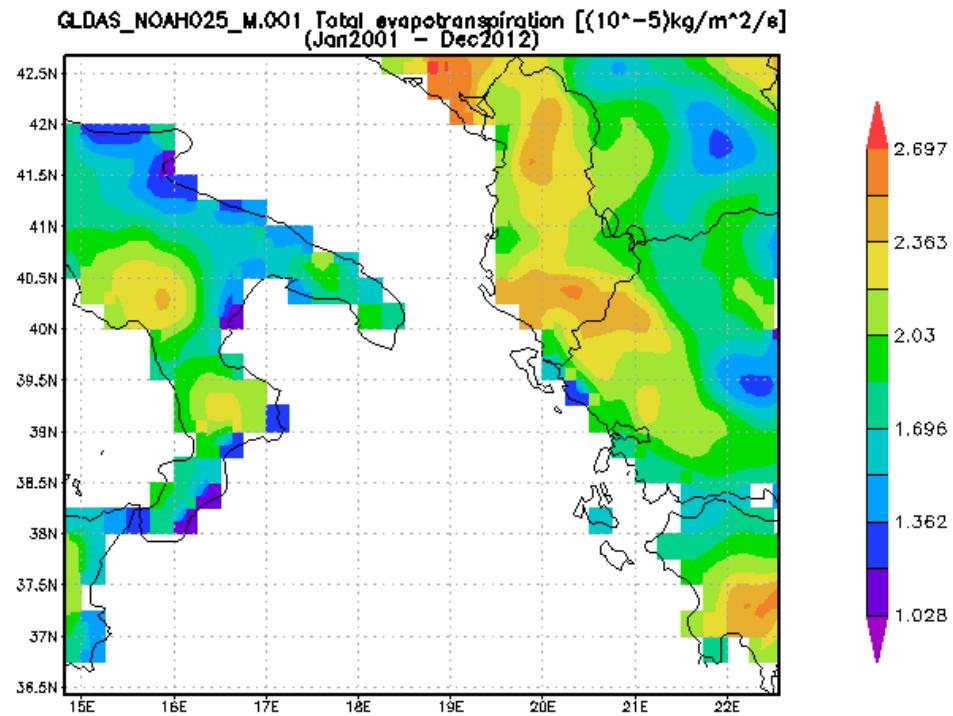


Figure 2.23. Twelve-year average (2001-2012) spatial distribution of “Total Evapotranspiration ” over the study region based on GLDAS data.

Table 40: Twelve-year (2001-2012)mean values for each $0.2^{\circ}5x0.25^{\circ}$ grid point of the study region (part 1)

latitude	longitude	Total canopy water storage [kg/m ²]	Average surface temperature [K]	Total evapotranspiration [kg/m ² /s]	Latent heat flux [W/m ²]	Surface incident longwave radiation [W/m ²]
36.8750	14.6250	0.0720	291.4940	0.0000	40.3850	328.3320
36.8750	14.8750	0.0750	291.2890	0.0000	44.8040	328.5700
36.8750	15.1250	0.4000	292.4930	0.0000	36.7630	334.1640
36.8750	21.8750	0.0760	291.8920	0.0000	45.5250	332.7480
36.8750	22.3750	0.0870	288.1720	0.0000	54.8150	314.2700
36.8750	22.6250	0.0900	291.8710	0.0000	52.0360	333.3800
37.1250	14.6250	0.0900	290.1510	0.0000	46.7480	322.4660
37.1250	14.8750	0.0900	289.1730	0.0000	48.6850	318.3920
37.1250	15.1250	0.4000	291.8120	0.0000	34.2100	330.3530
37.1250	21.6250	0.0770	291.0320	0.0000	51.5300	328.8180
37.1250	21.8750	0.0910	290.4580	0.0000	55.9740	326.7250
37.1250	22.1250	0.1110	288.3440	0.0000	61.6130	317.2500
37.1250	22.3750	0.1220	287.8450	0.0000	62.7650	314.6130
37.1250	22.6250	0.1320	286.7280	0.0000	54.4880	306.4670
37.3750	14.6250	0.1070	290.8380	0.0000	50.6320	327.3660
37.3750	14.8750	0.0960	291.7680	0.0000	54.2570	334.1050
37.3750	21.8750	0.1040	288.6910	0.0000	53.4720	316.7500
37.3750	22.1250	0.1250	288.1530	0.0000	62.3190	316.0830
37.3750	22.3750	0.1400	286.5860	0.0000	62.3240	307.9560
37.3750	22.6250	0.1330	287.4470	0.0000	67.2070	312.2730
37.6250	14.6250	0.1340	289.7260	0.0000	51.0810	322.5690
37.6250	14.8750	0.1220	288.6420	0.0000	54.7570	318.4860
37.6250	15.1250	0.4000	289.1840	0.0000	38.5210	320.4670
37.6250	21.6250	0.0860	291.6510	0.0000	48.0390	332.3630
37.6250	21.8750	0.1080	289.4120	0.0000	51.9860	319.8250
37.6250	22.1250	0.1360	284.7060	0.0000	54.6630	296.7540
37.6250	22.3750	0.1490	285.6420	0.0000	53.8320	302.2460
37.6250	22.6250	0.1280	288.9890	0.0000	54.2830	318.5900
37.8750	14.6250	0.1310	285.5960	0.0000	52.0770	302.2870
37.8750	14.8750	0.1390	284.7940	0.0000	53.5530	299.7790
37.8750	15.1250	0.1260	287.0170	0.0000	41.3000	311.1230
37.8750	21.3750	0.0780	291.9630	0.0000	43.7700	337.1590
37.8750	21.6250	0.0880	290.2190	0.0000	43.9210	325.4100
37.8750	21.8750	0.1090	285.9590	0.0000	46.5850	301.6690
37.8750	22.1250	0.1270	285.9600	0.0000	49.2520	302.5940
37.8750	22.3750	0.1370	284.6180	0.0000	48.6430	295.9250

37.8750	22.6250	0.1130	288.1260	0.0000	46.8980	313.0990
38.1250	14.8750	0.4000	289.0630	0.0000	39.0440	320.9030
38.1250	15.1250	0.4000	289.8320	0.0000	38.5080	326.6390
38.1250	15.3750	0.4000	289.6430	0.0000	34.2850	325.1770
38.1250	15.6250	0.0900	290.7260	0.0000	32.7320	330.9410
38.1250	15.8750	0.0800	285.9140	0.0000	45.9540	305.1270
38.1250	16.1250	0.4000	291.4070	0.0000	28.5430	331.5820
38.1250	20.6250	0.4000	290.1430	0.0000	38.9690	324.5120
38.1250	21.6250	0.0780	291.2600	0.0000	40.7630	331.6480
38.1250	21.8750	0.0970	286.6100	0.0000	41.6880	305.8600
38.1250	22.1250	0.1050	287.0170	0.0000	44.6480	307.9410
38.1250	22.3750	0.1100	286.8520	0.0000	43.5280	307.6810
38.3750	15.8750	0.0830	290.9620	0.0000	47.0890	335.1000
38.3750	16.1250	0.0880	289.2210	0.0000	43.1710	324.5280
38.3750	16.3750	0.4000	290.3640	0.0000	27.1210	326.5310
38.3750	21.6250	0.0790	290.3960	0.0000	40.8780	325.7790
38.3750	21.8750	0.0940	289.3060	0.0000	41.9100	319.1610
38.3750	22.1250	0.1050	288.1530	0.0000	41.9770	313.6020
38.3750	22.6250	0.1050	288.0130	0.0000	36.7460	313.6080
38.6250	16.1250	0.0930	290.2670	0.0000	43.2190	330.6040
38.6250	16.3750	0.0860	287.6990	0.0000	41.9680	315.7490
38.6250	21.1250	0.0800	290.2930	0.0000	42.8450	324.7330
38.6250	21.3750	0.0850	290.8620	0.0000	43.1100	327.0670
38.6250	21.6250	0.1060	287.5100	0.0000	46.7760	310.9940
38.6250	21.8750	0.1230	284.8950	0.0000	48.4510	298.0320
38.6250	22.1250	0.1390	283.9850	0.0000	46.7460	295.0700
38.6250	22.3750	0.1360	284.6230	0.0000	46.2680	299.2380
38.6250	22.6250	0.1270	286.0550	0.0000	44.6830	306.4000
38.8750	16.3750	0.1110	289.5140	0.0000	47.8800	328.2490
38.8750	16.6250	0.4000	291.0630	0.0000	32.4540	333.6380
38.8750	20.8750	0.0810	290.3270	0.0000	44.6900	326.0190
38.8750	21.1250	0.0870	289.7330	0.0000	47.3600	322.6550
38.8750	21.3750	0.1010	288.5010	0.0000	51.3340	315.2610
38.8750	21.6250	0.1290	285.6610	0.0000	53.8290	301.7420
38.8750	21.8750	0.1520	283.3130	0.0000	50.4780	292.3430
38.8750	22.1250	0.1510	286.0590	0.0000	50.8070	308.8500
38.8750	22.3750	0.1410	287.0030	0.0000	49.2470	313.6320
38.8750	22.6250	0.1250	288.0390	0.0000	49.3500	318.7480
39.1250	16.1250	0.1210	287.5310	0.0000	48.9250	318.4050
39.1250	16.3750	0.1500	285.3390	0.0000	55.1880	309.7040
39.1250	16.6250	0.1430	283.7770	0.0000	55.8310	300.1770
39.1250	16.8750	0.1120	290.1850	0.0000	51.1780	331.8500
39.1250	17.1250	0.4000	290.8820	0.0000	31.2360	334.8680
39.1250	20.6250	0.0800	290.2180	0.0000	48.8430	327.0620

39.1250	20.8750	0.0950	290.7280	0.0000	47.7350	329.8690
39.1250	21.1250	0.1040	288.6580	0.0000	56.5080	318.4100
39.1250	21.3750	0.1260	285.5770	0.0000	51.1300	302.0980
39.1250	21.6250	0.1440	283.0070	0.0000	52.2530	291.2430
39.1250	21.8750	0.1410	284.4710	0.0000	52.0720	300.0520
39.1250	22.1250	0.1310	286.9890	0.0000	46.4730	314.0120
39.1250	22.3750	0.1270	286.6850	0.0000	41.5590	311.7660
39.1250	22.6250	0.1180	285.7190	0.0000	44.0850	305.9390
39.3750	16.1250	0.1280	287.9610	0.0000	49.4870	321.8850
39.3750	16.3750	0.1520	284.9510	0.0000	54.5030	307.9880
39.3750	16.6250	0.1400	284.1030	0.0000	54.9340	302.6050
39.3750	16.8750	0.1030	288.9330	0.0000	53.1470	326.6130
39.3750	20.3750	0.4000	289.8050	0.0000	31.0750	322.3510
39.3750	20.6250	0.1000	287.6810	0.0000	50.8270	313.3500
39.3750	20.8750	0.1230	286.3930	0.0000	51.7000	306.8430
39.3750	21.1250	0.1360	285.9310	0.0000	56.3670	305.3090
39.3750	21.3750	0.1490	283.6670	0.0000	53.2900	294.6360
39.3750	21.6250	0.1440	284.6000	0.0000	52.1920	301.0090
39.3750	21.8750	0.1300	288.6550	0.0000	41.7340	321.7040
39.3750	22.1250	0.1140	289.1230	0.0000	35.1730	322.6440
39.3750	22.3750	0.1070	288.7140	0.0000	32.6220	319.3370
39.3750	22.6250	0.1090	288.3860	0.0000	37.1860	317.9360
39.6250	15.8750	0.0920	287.4390	0.0000	45.2360	316.5670
39.6250	16.1250	0.1210	288.8740	0.0000	46.9980	325.9360
39.6250	16.3750	0.1250	289.5810	0.0000	49.2680	330.2980
39.6250	16.6250	0.1020	289.8390	0.0000	45.2450	328.9640
39.6250	20.1250	0.1230	290.0220	0.0000	39.3580	325.5360
39.6250	20.3750	0.0990	288.4470	0.0000	51.2810	317.7310
39.6250	20.6250	0.1180	287.4020	0.0000	58.3480	313.3380
39.6250	20.8750	0.1490	285.8330	0.0000	52.4940	305.6260
39.6250	21.1250	0.1770	282.0600	0.0000	52.1910	288.8690
39.6250	21.3750	0.1700	282.0630	0.0000	53.2920	290.0920
39.6250	21.6250	0.1490	287.0820	0.0000	49.5790	315.9430
39.6250	21.8750	0.1220	287.9380	0.0000	38.0020	317.1490
39.6250	22.1250	0.1080	288.5030	0.0000	35.0710	318.7220
39.6250	22.3750	0.1060	289.2110	0.0000	35.7760	322.3300
39.6250	22.6250	0.1200	289.4050	0.0000	33.2780	320.8230
39.8750	15.8750	0.1180	287.2820	0.0000	50.5380	316.4130
39.8750	16.1250	0.1210	284.6560	0.0000	46.4870	301.8670
39.8750	16.3750	0.1040	287.6690	0.0000	41.9990	316.7460
39.8750	20.1250	0.1260	288.7980	0.0000	48.6670	321.0030
39.8750	20.3750	0.1230	286.0260	0.0000	58.1020	306.7040
39.8750	20.6250	0.1460	285.7970	0.0000	58.3170	306.3680
39.8750	20.8750	0.1670	282.4790	0.0000	57.1060	289.6800

39.8750	21.1250	0.1880	281.1110	0.0000	57.9070	285.9560
39.8750	21.3750	0.1580	284.3660	0.0000	55.5300	303.0280
39.8750	21.6250	0.1500	285.8940	0.0000	47.6250	309.4750
39.8750	21.8750	0.1390	284.2540	0.0000	43.6760	299.2400
39.8750	22.1250	0.1320	287.2760	0.0000	41.5830	313.3690
39.8750	22.3750	0.1260	286.2530	0.0000	42.0550	308.2280
39.8750	22.6250	0.4000	287.0830	0.0000	28.5930	309.0170
40.1250	15.3750	0.1070	287.6500	0.0000	53.5280	318.5860
40.1250	15.6250	0.1350	286.5960	0.0000	56.6560	314.4640
40.1250	15.8750	0.1610	284.4000	0.0000	58.5820	303.3890
40.1250	16.1250	0.1390	286.2800	0.0000	54.3620	311.2670
40.1250	16.3750	0.1090	288.2630	0.0000	43.2200	318.5800
40.1250	16.6250	0.4000	290.4750	0.0000	26.3660	325.2650
40.1250	18.1250	0.0810	291.6030	0.0000	50.2750	335.9760
40.1250	18.3750	0.4000	291.8070	0.0000	45.1320	335.7460
40.1250	19.8750	0.1380	285.8940	0.0000	62.6350	307.6680
40.1250	20.1250	0.1560	286.1030	0.0000	56.3630	307.6110
40.1250	20.3750	0.1610	284.0750	0.0000	59.3520	297.4360
40.1250	20.6250	0.1650	284.9470	0.0000	61.4290	302.6540
40.1250	20.8750	0.1870	282.4290	0.0000	61.1990	291.1500
40.1250	21.1250	0.1870	282.1600	0.0000	60.0900	291.3180
40.1250	21.3750	0.1690	285.3460	0.0000	49.1440	307.6870
40.1250	21.6250	0.1580	284.9630	0.0000	44.9500	304.3680
40.1250	21.8750	0.1610	285.9550	0.0000	46.1730	308.8320
40.1250	22.1250	0.1640	283.4750	0.0000	46.8470	297.0900
40.1250	22.3750	0.1530	282.8370	0.0000	52.3840	295.3750
40.3750	15.1250	0.1090	288.9870	0.0000	53.8680	325.4970
40.3750	15.3750	0.1480	284.9220	0.0000	55.1860	305.4770
40.3750	15.6250	0.1760	284.8520	0.0000	56.4230	306.5320
40.3750	15.8750	0.1780	284.5050	0.0000	59.4340	305.1000
40.3750	16.1250	0.1460	286.2940	0.0000	55.0040	311.6220
40.3750	16.3750	0.1090	289.3500	0.0000	43.5530	324.1070
40.3750	16.6250	0.0770	290.3380	0.0000	34.5010	326.2520
40.3750	17.3750	0.0770	291.6590	0.0000	35.2330	334.5550
40.3750	17.6250	0.0730	291.3970	0.0000	45.9500	334.3740
40.3750	17.8750	0.0850	291.7010	0.0000	45.8610	335.9790
40.3750	18.1250	0.1130	291.6750	0.0000	42.2600	335.2620
40.3750	19.6250	0.1190	288.6980	0.0000	61.3890	321.0330
40.3750	19.8750	0.1460	286.6200	0.0000	61.5680	310.2700
40.3750	20.1250	0.1620	285.8370	0.0000	62.8420	306.6340
40.3750	20.3750	0.1670	284.6010	0.0000	64.0700	301.3450
40.3750	20.6250	0.1910	282.6190	0.0000	59.1930	292.8730
40.3750	20.8750	0.2060	280.5570	0.0000	59.2350	284.3230
40.3750	21.1250	0.1840	283.4400	0.0000	50.6060	298.3500

40.3750	21.3750	0.1660	284.8550	0.0000	44.4870	304.2810
40.3750	21.6250	0.1700	283.7000	0.0000	42.9670	297.9990
40.3750	21.8750	0.1670	284.7720	0.0000	44.7540	303.4600
40.3750	22.1250	0.1520	283.7600	0.0000	52.2480	299.4270
40.3750	22.3750	0.1390	286.7390	0.0000	49.1720	315.6840
40.6250	14.8750	0.1080	289.7260	0.0000	43.3910	327.5540
40.6250	15.1250	0.1400	287.9370	0.0000	50.9460	320.2220
40.6250	15.3750	0.1590	285.8480	0.0000	54.3910	309.8920
40.6250	15.6250	0.1770	285.0150	0.0000	55.5060	306.3970
40.6250	15.8750	0.1710	284.9110	0.0000	54.5560	305.6720
40.6250	16.1250	0.1390	287.1810	0.0000	50.5450	315.4110
40.6250	16.3750	0.1140	288.9510	0.0000	43.5850	321.8190
40.6250	16.6250	0.0960	289.1780	0.0000	38.6500	321.6100
40.6250	16.8750	0.0870	290.0340	0.0000	36.6230	326.1390
40.6250	17.1250	0.0880	289.9130	0.0000	40.2240	326.7880
40.6250	17.3750	0.0840	289.8660	0.0000	45.5450	326.8160
40.6250	17.6250	0.0770	290.7710	0.0000	52.2740	331.4520
40.6250	17.8750	0.1080	291.6440	0.0000	41.8080	335.2440
40.6250	19.6250	0.1110	290.5340	0.0000	52.1900	328.5170
40.6250	19.8750	0.1320	287.8320	0.0000	58.0470	313.8080
40.6250	20.1250	0.1540	285.2040	0.0000	56.1770	300.7200
40.6250	20.3750	0.1860	282.2700	0.0000	54.2110	289.1100
40.6250	20.6250	0.2000	282.6380	0.0000	53.3110	293.6880
40.6250	20.8750	0.1950	282.9350	0.0000	50.7490	296.1300
40.6250	21.1250	0.1830	282.7330	0.0000	47.1190	294.4270
40.6250	21.3750	0.1680	282.6920	0.0000	46.7970	293.2630
40.6250	21.6250	0.1720	285.2900	0.0000	46.0950	307.3830
40.6250	21.8750	0.1640	282.2670	0.0000	48.0210	291.3720
40.6250	22.1250	0.1390	286.9880	0.0000	48.8030	315.4210
40.6250	22.3750	0.1270	288.8670	0.0000	41.3940	324.9580
40.6250	22.6250	0.1120	289.4310	0.0000	34.4970	324.5980
40.8750	14.6250	0.1040	287.8240	0.0000	44.3420	318.3280
40.8750	14.8750	0.1300	285.9910	0.0000	47.4680	309.2030
40.8750	15.1250	0.1520	285.3680	0.0000	48.4920	306.6200
40.8750	15.3750	0.1670	285.2370	0.0000	48.0580	306.6750
40.8750	15.6250	0.1580	285.8160	0.0000	50.8540	309.7240
40.8750	15.8750	0.1490	286.7640	0.0000	46.2090	313.4720
40.8750	16.1250	0.1310	288.1370	0.0000	44.4970	319.0690
40.8750	16.3750	0.1140	287.9370	0.0000	41.1410	316.4310
40.8750	16.6250	0.0990	288.2760	0.0000	40.8960	317.7950
40.8750	16.8750	0.0920	289.1160	0.0000	42.4800	323.0580
40.8750	17.1250	0.4000	289.7360	0.0000	36.8410	325.5840
40.8750	17.3750	0.4000	289.4000	0.0000	35.9600	327.5420
40.8750	19.6250	0.1020	290.9700	0.0000	49.0000	330.5180

40.8750	19.8750	0.1180	289.5660	0.0000	52.3560	322.4900
40.8750	20.1250	0.1350	286.9990	0.0000	57.7070	309.5880
40.8750	20.3750	0.1840	282.1360	0.0000	52.4500	289.1430
40.8750	20.6250	0.1930	283.4360	0.0000	50.4400	299.5430
40.8750	20.8750	0.1930	282.3550	0.0000	48.4310	293.3620
40.8750	21.1250	0.1800	281.1520	0.0000	47.0500	287.0500
40.8750	21.3750	0.1770	283.7030	0.0000	45.2370	299.3920
40.8750	21.6250	0.1770	283.5220	0.0000	43.0820	298.0760
40.8750	21.8750	0.1630	283.1740	0.0000	48.5120	296.1760
40.8750	22.1250	0.1390	287.4170	0.0000	46.8970	317.2350
40.8750	22.3750	0.1260	286.4770	0.0000	40.0930	310.6520
40.8750	22.6250	0.1070	288.7740	0.0000	33.9100	319.9360
41.1250	14.6250	0.1260	287.2940	0.0000	44.8190	314.7780
41.1250	14.8750	0.1430	287.5870	0.0000	43.4540	317.7480
41.1250	15.1250	0.1500	286.4030	0.0000	43.5520	312.2870
41.1250	15.3750	0.1450	286.3190	0.0000	42.8910	311.6830
41.1250	15.6250	0.1230	288.5380	0.0000	41.7190	321.9690
41.1250	15.8750	0.1070	289.5060	0.0000	38.7540	324.9900
41.1250	16.1250	0.0970	288.9300	0.0000	37.9730	320.6120
41.1250	16.3750	0.0820	289.3470	0.0000	38.7640	322.2340
41.1250	16.6250	0.4000	290.4090	0.0000	33.7480	327.2360
41.1250	16.8750	0.4000	290.7110	0.0000	34.6120	331.6380
41.1250	19.6250	0.1000	290.4260	0.0000	51.1960	329.2810
41.1250	19.8750	0.1120	288.1930	0.0000	56.7460	317.0160
41.1250	20.1250	0.1400	285.8700	0.0000	56.5740	306.0360
41.1250	20.3750	0.1750	282.7540	0.0000	55.2460	294.3290
41.1250	20.6250	0.1880	283.7270	0.0000	52.6690	303.0270
41.1250	20.8750	0.1910	282.1930	0.0000	49.0640	295.7930
41.1250	21.1250	0.1830	281.6780	0.0000	46.2580	292.5900
41.1250	21.3750	0.1780	284.4250	0.0000	41.4140	304.5940
41.1250	21.6250	0.1650	284.0610	0.0000	42.9780	300.9290
41.1250	21.8750	0.1560	281.8630	0.0000	49.0530	289.6330
41.1250	22.1250	0.1500	282.3280	0.0000	48.4530	291.3940
41.1250	22.3750	0.1230	285.0530	0.0000	45.5520	302.7140
41.1250	22.6250	0.1120	288.2520	0.0000	37.9770	316.7590
41.3750	14.6250	0.1570	285.2890	0.0000	46.1380	306.9840
41.3750	14.8750	0.1550	285.5530	0.0000	43.4360	307.9920
41.3750	15.1250	0.1450	285.7630	0.0000	42.8990	308.4210
41.3750	15.3750	0.1240	288.6640	0.0000	40.1780	322.4430
41.3750	15.6250	0.0980	290.1540	0.0000	35.9080	328.5290
41.3750	15.8750	0.0980	291.0250	0.0000	30.3530	330.4930
41.3750	16.1250	0.0900	291.3260	0.0000	31.0780	332.0510
41.3750	19.6250	0.1050	290.0490	0.0000	52.9660	328.7840
41.3750	19.8750	0.1270	286.8750	0.0000	57.7180	313.4610

41.3750	20.1250	0.1790	282.1660	0.0000	59.2920	292.0890
41.3750	20.3750	0.2120	281.3660	0.0000	58.6720	291.2500
41.3750	20.6250	0.2260	280.5930	0.0000	54.3140	290.1660
41.3750	20.8750	0.2050	281.8330	0.0000	53.4880	296.1540
41.3750	21.1250	0.1920	281.5770	0.0000	48.3370	293.3250
41.3750	21.3750	0.1780	284.1050	0.0000	40.7170	303.4280
41.3750	21.6250	0.1540	283.2100	0.0000	39.9240	296.4880
41.3750	21.8750	0.1470	285.0950	0.0000	42.3190	305.2150
41.3750	22.1250	0.1510	285.4190	0.0000	44.9440	306.9260
41.3750	22.3750	0.1210	285.6640	0.0000	45.7870	306.4900
41.3750	22.6250	0.1240	286.2180	0.0000	42.2070	308.1350
41.6250	14.6250	0.1650	285.7650	0.0000	48.8390	311.6070
41.6250	14.8750	0.1440	286.4690	0.0000	43.6710	313.1060
41.6250	15.1250	0.1240	288.0430	0.0000	41.4350	319.4940
41.6250	15.3750	0.1020	289.8830	0.0000	39.0920	327.9390
41.6250	15.6250	0.0980	289.4050	0.0000	37.6150	324.6040
41.6250	15.8750	0.4000	289.3950	0.0000	29.5900	321.5910
41.6250	19.6250	0.1080	289.7500	0.0000	52.6100	327.5520
41.6250	19.8750	0.1310	285.9730	0.0000	63.5730	309.2580
41.6250	20.1250	0.1840	282.8770	0.0000	58.6170	295.4020
41.6250	20.3750	0.2220	283.0800	0.0000	56.1230	298.8700
41.6250	20.6250	0.2450	279.2470	0.0000	52.7720	283.1690
41.6250	20.8750	0.2350	280.5030	0.0000	53.5950	289.8870
41.6250	21.1250	0.2000	281.0900	0.0000	52.5150	290.8420
41.6250	21.3750	0.1790	280.0130	0.0000	44.9050	284.2480
41.6250	21.6250	0.1420	284.8910	0.0000	38.0680	305.3530
41.6250	21.8750	0.1340	286.3690	0.0000	34.3470	311.6050
41.6250	22.1250	0.1260	286.4110	0.0000	36.1570	310.5930
41.6250	22.3750	0.1320	284.5640	0.0000	39.6190	300.3420
41.6250	22.6250	0.1300	283.9040	0.0000	43.8060	297.0680
41.8750	14.6250	0.1410	286.6240	0.0000	47.4540	316.6260
41.8750	14.8750	0.1100	288.5090	0.0000	43.2320	323.4730
41.8750	15.1250	0.4000	290.0510	0.0000	30.2060	327.0870
41.8750	15.3750	0.4000	290.4580	0.0000	30.3960	329.0890
41.8750	15.6250	0.0700	288.5450	0.0000	32.7130	318.6040
41.8750	15.8750	0.0850	288.1080	0.0000	45.1240	317.6840
41.8750	19.6250	0.1120	288.3580	0.0000	50.1170	320.0320
41.8750	19.8750	0.1310	285.6190	0.0000	59.9360	306.8060
41.8750	20.1250	0.1850	281.8080	0.0000	59.5460	289.9370
41.8750	20.3750	0.2270	281.2920	0.0000	53.8430	289.8390
41.8750	20.6250	0.2780	275.8670	0.0000	49.0950	268.8880
41.8750	20.8750	0.2450	280.7400	0.0000	51.3820	292.4180
41.8750	21.1250	0.2130	281.8120	0.0000	50.7690	296.6070
41.8750	21.3750	0.1770	282.2310	0.0000	46.6580	297.3480

41.8750	21.6250	0.1440	285.6880	0.0000	37.4920	311.8410
41.8750	21.8750	0.1270	286.0320	0.0000	33.5520	311.9570
41.8750	22.1250	0.1350	285.7700	0.0000	35.4340	308.6390
41.8750	22.3750	0.1390	284.2860	0.0000	41.1330	299.5510
41.8750	22.6250	0.1490	282.8350	0.0000	46.5470	293.0910
42.1250	14.6250	0.4000	287.8990	0.0000	25.7490	323.6630
42.1250	19.1250	0.1110	286.3200	0.0000	63.4830	312.3010
42.1250	19.3750	0.1210	288.4100	0.0000	56.2230	323.2430
42.1250	19.6250	0.1320	285.7500	0.0000	51.1960	307.6780
42.1250	19.8750	0.1570	283.6090	0.0000	58.4240	297.5460
42.1250	20.1250	0.1710	283.0210	0.0000	61.1450	296.0440
42.1250	20.3750	0.1890	283.8290	0.0000	52.8030	302.1820
42.1250	20.6250	0.2240	281.1280	0.0000	48.3770	291.2150
42.1250	20.8750	0.2260	278.0570	0.0000	50.5060	279.6670
42.1250	21.1250	0.2000	281.8960	0.0000	48.5610	297.2120
42.1250	21.3750	0.1680	283.4920	0.0000	44.0440	303.7090
42.1250	21.6250	0.1520	284.7960	0.0000	36.3240	308.0080
42.1250	21.8750	0.1460	285.1930	0.0000	36.6820	308.3410
42.1250	22.1250	0.1540	283.1640	0.0000	42.0810	297.2710
42.1250	22.3750	0.1550	280.5270	0.0000	48.9900	284.0330
42.1250	22.6250	0.1650	280.7070	0.0000	51.7150	285.5630
42.3750	18.8750	0.1270	283.7180	0.0000	65.1060	302.1160
42.3750	19.1250	0.1260	286.7110	0.0000	66.9940	317.1750
42.3750	19.3750	0.1450	286.2480	0.0000	55.1820	313.9080
42.3750	19.6250	0.2060	279.5100	0.0000	55.4610	282.0620
42.3750	19.8750	0.2340	278.5350	0.0000	56.1460	278.5980
42.3750	20.1250	0.1970	281.6750	0.0000	55.9580	292.5440
42.3750	20.3750	0.1820	284.0640	0.0000	44.9030	303.9300
42.3750	20.6250	0.1730	284.6790	0.0000	40.6020	307.5070
42.3750	20.8750	0.1850	282.5790	0.0000	40.2710	298.6090
42.3750	21.1250	0.1810	283.2940	0.0000	42.2740	302.5180
42.3750	21.3750	0.1750	283.6940	0.0000	42.4480	304.7260
42.3750	21.6250	0.1600	283.9390	0.0000	42.8700	305.0460
42.3750	21.8750	0.1680	283.7030	0.0000	45.2680	302.1990
42.3750	22.1250	0.1790	280.1350	0.0000	51.6430	284.4630
42.3750	22.3750	0.1890	280.1920	0.0000	55.6690	285.1950
42.3750	22.6250	0.1830	282.4830	0.0000	59.1160	296.5300
42.6250	18.3750	0.1430	285.3380	0.0000	54.9220	307.2040
42.6250	18.6250	0.1680	282.2090	0.0000	55.5930	293.0310
42.6250	18.8750	0.1660	281.9330	0.0000	67.7660	294.4090
42.6250	19.1250	0.1790	282.3320	0.0000	64.2480	296.7750
42.6250	19.3750	0.1930	281.5930	0.0000	61.3620	293.8030
42.6250	19.6250	0.2650	277.2820	0.0000	56.3500	276.0930
42.6250	19.8750	0.2460	278.1140	0.0000	58.4830	279.9800

42.6250	20.1250	0.2700	275.5950	0.0000	53.8210	268.9190
42.6250	20.3750	0.2040	283.4990	0.0000	46.3820	303.7900
42.6250	20.6250	0.1730	284.0970	0.0000	40.6860	305.6660
42.6250	20.8750	0.1770	283.3620	0.0000	38.5790	301.7760
42.6250	21.1250	0.1810	283.4170	0.0000	42.5030	303.5880
42.6250	21.3750	0.1750	281.9890	0.0000	44.8190	296.5370
42.6250	21.6250	0.1790	282.6910	0.0000	48.2320	300.1760
42.6250	21.8750	0.1860	282.1670	0.0000	52.9750	296.3100
42.6250	22.1250	0.2040	281.5760	0.0000	57.8050	293.1190
42.6250	22.3750	0.2170	278.6080	0.0000	58.0670	279.6960
42.6250	22.6250	0.1970	280.8800	0.0000	61.2010	290.7660
42.8750	17.6250	0.0940	288.2710	0.0000	63.5810	320.9660
42.8750	17.8750	0.1170	285.8200	0.0000	57.7950	308.5160
42.8750	18.1250	0.1380	283.9440	0.0000	62.4410	300.5310
42.8750	18.3750	0.1700	283.3790	0.0000	64.6800	299.9460
42.8750	18.6250	0.2110	280.7800	0.0000	62.1370	289.0450
42.8750	18.8750	0.2190	280.6100	0.0000	63.3590	289.4530
42.8750	19.1250	0.2650	277.4630	0.0000	57.3890	277.0560
42.8750	19.3750	0.2600	278.0600	0.0000	57.1500	280.3580
42.8750	19.6250	0.2530	278.4430	0.0000	56.5570	282.1970
42.8750	19.8750	0.2410	280.5660	0.0000	59.0580	292.2210
42.8750	20.1250	0.2570	277.7340	0.0000	54.1200	278.8990
42.8750	20.3750	0.2270	278.9350	0.0000	53.9980	284.6870
42.8750	20.6250	0.1920	281.3590	0.0000	51.2690	295.4450
42.8750	20.8750	0.1930	282.6920	0.0000	47.0390	300.6370
42.8750	21.1250	0.1910	282.3690	0.0000	46.4380	299.2910
42.8750	21.3750	0.1690	282.0620	0.0000	48.0530	296.8000
42.8750	21.6250	0.1640	283.4220	0.0000	47.1470	303.2200
42.8750	21.8750	0.1810	283.5410	0.0000	49.1330	303.2720
42.8750	22.1250	0.1930	282.5700	0.0000	56.1510	298.2000
42.8750	22.3750	0.2060	280.2980	0.0000	59.4290	288.0030
42.8750	22.6250	0.2060	281.2210	0.0000	58.3030	293.0580

Table 41: Twelve-year (2001-2012)mean values for each $0.2^{\circ}5x0.25^{\circ}$ grid point of the study region

latitude	longitude	Sensible heat flux [W/m ²]	Ground heat flux [W/m ²]	Near surface specific humidity [kg/kg]	Surface pressure [Pa]	Net longwave radiation [W/m ²]
36.8750	14.6250	59.2320	0.5240	0.0091	98467.6950	-83.2506
36.8750	14.8750	55.5910	0.5360	0.0091	98177.1560	-81.9017
36.8750	15.1250	62.1170	0.6690	0.0096	99553.4140	-83.0073
36.8750	21.8750	54.4410	0.5330	0.0092	99000.2500	-80.3739
36.8750	22.3750	41.8870	0.4370	0.0076	93237.8280	-78.7001
36.8750	22.6250	43.4040	0.5170	0.0089	99812.6250	-80.3738
37.1250	14.6250	52.4760	0.3660	0.0085	97062.8440	-82.1717
37.1250	14.8750	51.7210	0.3390	0.0082	95405.5230	-80.8906
37.1250	15.1250	63.6070	0.6870	0.0092	98607.5390	-83.2175
37.1250	21.6250	48.0450	0.3690	0.0088	98213.1020	-79.6613
37.1250	21.8750	42.6520	0.2890	0.0084	97810.9060	-79.0729
37.1250	22.1250	37.1870	0.2200	0.0076	94512.2500	-77.0020
37.1250	22.3750	33.8710	0.3160	0.0074	93761.1880	-76.9892
37.1250	22.6250	40.3700	0.4230	0.0069	91376.7580	-79.3489
37.3750	14.6250	49.0850	0.4020	0.0088	98737.1560	-81.3063
37.3750	14.8750	46.4950	0.3880	0.0093	100526.8440	-79.6772
37.3750	21.8750	42.7010	0.2200	0.0077	95176.0230	-79.6842
37.3750	22.1250	34.1450	0.1350	0.0076	94820.0390	-77.1999
37.3750	22.3750	32.4720	0.1570	0.0071	92306.5940	-76.8292
37.3750	22.6250	27.7070	0.1230	0.0072	93964.0390	-76.9645
37.6250	14.6250	48.1500	0.3430	0.0088	97098.1250	-79.2970
37.6250	14.8750	45.2860	0.3640	0.0084	95205.0470	-77.4217
37.6250	15.1250	59.2700	0.4180	0.0084	94847.4690	-78.4256
37.6250	21.6250	47.8340	0.2470	0.0090	100357.2340	-80.4859
37.6250	21.8750	42.3890	0.0960	0.0080	96952.6020	-80.6194
37.6250	22.1250	37.9280	0.0850	0.0065	89279.1330	-78.1030
37.6250	22.3750	38.1130	0.0690	0.0068	91167.7810	-77.5952
37.6250	22.6250	37.2280	0.1180	0.0076	96742.0700	-79.1938
37.8750	14.6250	47.0280	0.2760	0.0075	90477.0390	-76.7256
37.8750	14.8750	44.7800	0.2840	0.0072	88980.5000	-75.1316
37.8750	15.1250	54.9440	0.4450	0.0078	91849.1560	-75.6871
37.8750	21.3750	49.3080	0.1630	0.0093	100780.0390	-77.3444
37.8750	21.6250	51.3220	0.0770	0.0083	98088.3360	-79.7351
37.8750	21.8750	47.0150	0.1190	0.0067	90972.6170	-80.3644
37.8750	22.1250	42.7800	0.1050	0.0068	91394.5230	-79.2387
37.8750	22.3750	40.1120	0.1700	0.0063	89474.8120	-78.7813
37.8750	22.6250	42.8770	0.1590	0.0071	95345.7500	-80.3593

38.1250	14.8750	55.3950	0.3850	0.0086	95677.5230	-76.9574
38.1250	15.1250	55.8530	0.4150	0.0089	96924.0780	-75.3791
38.1250	15.3750	60.1880	0.5390	0.0088	96271.9380	-75.6154
38.1250	15.6250	62.9230	0.5220	0.0092	97838.9690	-75.8360
38.1250	15.8750	51.4900	0.3510	0.0074	89885.2580	-75.3476
38.1250	16.1250	65.4530	0.7700	0.0095	98557.2890	-79.1039
38.1250	20.6250	59.3640	0.3620	0.0087	95834.1170	-79.0748
38.1250	21.6250	50.0820	-0.0330	0.0085	100226.2340	-79.4817
38.1250	21.8750	49.2380	0.0020	0.0068	92445.0230	-79.9039
38.1250	22.1250	44.4070	0.0460	0.0070	93435.5000	-79.6204
38.1250	22.3750	44.0550	-0.1040	0.0071	93477.5780	-78.9175
38.3750	15.8750	50.1910	0.1950	0.0096	99591.1330	-73.0251
38.3750	16.1250	50.5880	0.4800	0.0087	96099.3910	-74.0120
38.3750	16.3750	64.2440	0.7150	0.0090	97067.0000	-78.5662
38.3750	21.6250	49.5060	-0.0360	0.0082	99043.6480	-80.4926
38.3750	21.8750	48.5450	-0.1110	0.0078	97465.7580	-81.1699
38.3750	22.1250	47.6910	-0.1460	0.0076	95575.5230	-80.2629
38.3750	22.6250	49.2370	-0.0750	0.0072	95578.5000	-79.5466
38.6250	16.1250	50.7090	0.3420	0.0092	98903.5940	-73.8688
38.6250	16.3750	51.5690	0.4390	0.0081	93849.9140	-74.5507
38.6250	21.1250	52.7070	-0.1340	0.0081	98218.9920	-80.5323
38.6250	21.3750	53.3490	-0.1910	0.0081	99864.5160	-81.8463
38.6250	21.6250	43.4120	-0.0170	0.0072	95020.9920	-79.6397
38.6250	21.8750	39.1650	-0.0210	0.0065	90622.5470	-78.2991
38.6250	22.1250	38.0560	0.0480	0.0063	89412.2890	-76.4661
38.6250	22.3750	36.9800	0.0880	0.0064	90694.3590	-75.4377
38.6250	22.6250	38.7300	0.0660	0.0067	93180.0550	-75.9190
38.8750	16.3750	46.5190	0.2540	0.0090	98080.3910	-72.0268
38.8750	16.6250	58.4900	0.6650	0.0094	99311.9840	-75.5576
38.8750	20.8750	51.2780	-0.1630	0.0082	98250.6020	-79.4080
38.8750	21.1250	49.5770	-0.3940	0.0079	98058.5230	-79.9036
38.8750	21.3750	46.4070	-0.3120	0.0076	96583.4610	-80.5906
38.8750	21.6250	36.3020	-0.0660	0.0069	92541.2660	-78.7323
38.8750	21.8750	33.9700	-0.1790	0.0062	88830.8280	-75.6265
38.8750	22.1250	34.1220	-0.1890	0.0070	93929.9770	-73.3697
38.8750	22.3750	35.5990	-0.1310	0.0073	95653.6720	-73.6400
38.8750	22.6250	36.3470	-0.1570	0.0074	97384.1560	-74.1646
39.1250	16.1250	40.4790	-0.0060	0.0083	95396.7580	-70.8188
39.1250	16.3750	36.6640	0.0850	0.0077	91614.0550	-67.7842
39.1250	16.6250	38.3640	0.1760	0.0070	88199.6560	-69.3792
39.1250	16.8750	40.1780	0.1980	0.0092	98774.0000	-72.4391
39.1250	17.1250	19.4430	0.3680	0.0097	100892.9920	-74.0129
39.1250	20.6250	42.5480	-0.3460	0.0083	98523.6330	-77.7465
39.1250	20.8750	43.7400	-0.4140	0.0084	100434.7660	-78.2857

39.1250	21.1250	36.1430	-0.3370	0.0077	97333.2340	-78.1295
39.1250	21.3750	39.5370	-0.4300	0.0067	92258.3670	-78.0157
39.1250	21.6250	31.5110	-0.1230	0.0060	88716.3590	-75.4497
39.1250	21.8750	30.8830	-0.1310	0.0064	91702.6720	-74.0610
39.1250	22.1250	36.1940	-0.1420	0.0070	96344.3360	-73.4968
39.1250	22.3750	41.3910	-0.1020	0.0068	95637.2580	-74.4576
39.1250	22.6250	45.6660	0.0180	0.0065	93367.8830	-75.1189
39.3750	16.1250	40.4400	-0.0130	0.0085	96321.8830	-69.9722
39.3750	16.3750	35.7580	0.0410	0.0075	91044.9610	-67.8357
39.3750	16.6250	36.6690	0.1470	0.0070	88870.8830	-68.8991
39.3750	16.8750	35.5470	0.1670	0.0086	96684.4380	-70.7968
39.3750	20.3750	53.6880	-0.2350	0.0080	97296.2580	-80.2351
39.3750	20.6250	39.2210	-0.4540	0.0073	95126.9140	-77.8640
39.3750	20.8750	38.5860	-0.5800	0.0070	93441.1020	-77.5576
39.3750	21.1250	34.5590	-0.5850	0.0070	93183.4450	-76.5156
39.3750	21.3750	34.1070	-0.5440	0.0064	89673.2110	-75.4008
39.3750	21.6250	30.4340	-0.1900	0.0065	91990.2890	-74.0607
39.3750	21.8750	40.8620	-0.2660	0.0075	99442.8360	-75.6264
39.3750	22.1250	46.8620	-0.1910	0.0073	100176.5780	-77.4165
39.3750	22.3750	49.8560	-0.1710	0.0071	98932.4380	-78.4665
39.3750	22.6250	51.7990	-0.0800	0.0071	97945.5780	-77.9326
39.6250	15.8750	43.8790	0.0010	0.0080	94297.2030	-72.1549
39.6250	16.1250	41.5520	0.0230	0.0087	97666.3830	-71.1763
39.6250	16.3750	38.1920	0.0930	0.0090	98812.8120	-70.8656
39.6250	16.6250	42.2130	0.2040	0.0089	98229.2580	-73.4472
39.6250	20.1250	46.7200	-0.3240	0.0082	98165.3280	-78.1696
39.6250	20.3750	35.2820	-0.4790	0.0075	96610.1170	-77.5206
39.6250	20.6250	31.7270	-0.5190	0.0074	95710.8830	-76.3564
39.6250	20.8750	36.3720	-0.7910	0.0070	93250.8120	-75.8917
39.6250	21.1250	30.9060	-0.7200	0.0060	87325.3360	-72.9765
39.6250	21.3750	28.2530	-0.6600	0.0059	87609.9690	-71.7030
39.6250	21.6250	32.2060	-0.3360	0.0073	96871.4610	-72.6015
39.6250	21.8750	42.0820	-0.2810	0.0071	97941.7110	-76.3810
39.6250	22.1250	46.8030	-0.0870	0.0071	98947.3280	-78.0407
39.6250	22.3750	48.2310	-0.0360	0.0074	100122.3280	-78.2304
39.6250	22.6250	53.2010	0.3050	0.0074	99322.5940	-80.3851
39.8750	15.8750	37.1140	-0.0350	0.0081	94917.1720	-71.7017
39.8750	16.1250	39.5120	0.0280	0.0070	90303.7030	-72.6140
39.8750	16.3750	42.3690	0.1630	0.0078	94907.2580	-74.0489
39.8750	20.1250	37.8490	-0.3730	0.0078	97130.0470	-76.0956
39.8750	20.3750	29.3530	-0.6850	0.0069	93293.6250	-75.5385
39.8750	20.6250	31.4400	-0.6350	0.0070	93584.2660	-74.8530
39.8750	20.8750	28.1100	-0.7740	0.0062	88130.2500	-74.1152
39.8750	21.1250	22.0460	-0.6030	0.0059	86423.1170	-70.9762

39.8750	21.3750	27.4830	-0.6030	0.0066	91908.4380	-70.6447
39.8750	21.6250	32.4990	-0.3610	0.0069	94803.1950	-72.6681
39.8750	21.8750	36.1900	-0.1140	0.0062	91818.7580	-74.4037
39.8750	22.1250	41.1400	-0.1030	0.0071	96757.0780	-76.2351
39.8750	22.3750	42.6800	0.0350	0.0068	94918.9770	-75.6997
39.8750	22.6250	56.2590	0.3300	0.0068	95167.7340	-79.2873
40.1250	15.3750	34.2700	-0.3010	0.0080	96096.8050	-71.6356
40.1250	15.6250	30.8600	-0.3820	0.0079	94632.5780	-70.0415
40.1250	15.8750	25.5980	-0.3010	0.0071	90966.4690	-69.4555
40.1250	16.1250	28.6410	-0.0510	0.0076	93715.1800	-71.7322
40.1250	16.3750	37.8110	0.1180	0.0079	96211.0230	-75.4592
40.1250	16.6250	51.4660	0.2380	0.0084	98621.2270	-80.8093
40.1250	18.1250	40.0590	0.6160	0.0092	100392.3050	-75.8715
40.1250	18.3750	44.4240	0.7170	0.0093	100521.2110	-77.3064
40.1250	19.8750	29.9550	0.1320	0.0070	92653.0230	-73.5433
40.1250	20.1250	34.3400	-0.0040	0.0070	93349.3670	-75.0847
40.1250	20.3750	31.1500	-0.2240	0.0065	90384.5550	-74.5764
40.1250	20.6250	29.8190	-0.2610	0.0069	92313.2030	-73.8960
40.1250	20.8750	27.3200	-0.2020	0.0062	88475.2890	-72.4970
40.1250	21.1250	25.3580	-0.2330	0.0061	88322.5230	-71.0004
40.1250	21.3750	36.3370	-0.2390	0.0069	93641.7660	-71.6240
40.1250	21.6250	33.4030	-0.0720	0.0066	92916.9220	-72.7715
40.1250	21.8750	34.5110	0.0530	0.0069	94684.7580	-73.5263
40.1250	22.1250	33.8620	0.1910	0.0064	90722.3910	-72.0649
40.1250	22.3750	27.9860	0.2500	0.0061	90062.9450	-70.2999
40.3750	15.1250	33.0650	-0.1770	0.0085	98749.6800	-72.1317
40.3750	15.3750	30.9440	-0.3810	0.0072	92298.0000	-70.3603
40.3750	15.6250	28.7800	-0.4330	0.0074	92362.9690	-68.8696
40.3750	15.8750	23.5980	-0.3550	0.0072	91674.6560	-68.4485
40.3750	16.1250	26.3890	-0.0890	0.0074	94101.4140	-71.5567
40.3750	16.3750	36.3570	0.0650	0.0080	98596.7660	-76.0060
40.3750	16.6250	44.9580	0.1780	0.0081	99350.0780	-79.2669
40.3750	17.3750	48.8150	0.3900	0.0088	100837.7340	-77.8470
40.3750	17.6250	43.0290	0.3770	0.0088	100679.6170	-76.5863
40.3750	17.8750	43.0480	0.5380	0.0089	101039.1020	-76.8152
40.3750	18.1250	46.2800	0.6340	0.0090	100767.7030	-77.2645
40.3750	19.6250	31.1410	0.0950	0.0081	97750.9140	-75.0894
40.3750	19.8750	30.1630	0.0810	0.0072	94731.9610	-74.9708
40.3750	20.1250	28.5820	-0.1530	0.0070	93785.2340	-74.5834
40.3750	20.3750	26.9290	-0.2950	0.0068	92000.7810	-73.3045
40.3750	20.6250	28.9750	-0.2700	0.0063	89018.6020	-71.6700
40.3750	20.8750	23.6190	-0.2440	0.0057	85977.2270	-69.7262
40.3750	21.1250	35.2460	-0.3790	0.0065	90672.5230	-70.7422
40.3750	21.3750	42.1700	-0.2480	0.0067	92825.0940	-72.4540

40.3750	21.6250	35.4040	-0.0370	0.0063	90828.5780	-72.4863
40.3750	21.8750	35.5780	0.0990	0.0067	92790.0390	-72.5817
40.3750	22.1250	28.6560	0.1700	0.0065	91626.5700	-70.9363
40.3750	22.3750	32.9330	0.1390	0.0072	97364.2340	-70.8204
40.6250	14.8750	42.2070	-0.1670	0.0086	99552.6720	-74.1062
40.6250	15.1250	35.6290	-0.3280	0.0082	97723.3590	-71.9874
40.6250	15.3750	31.3050	-0.4330	0.0075	94324.7500	-70.9140
40.6250	15.6250	28.6060	-0.4490	0.0073	92956.0780	-69.9764
40.6250	15.8750	26.8300	-0.3660	0.0071	92479.4690	-70.2962
40.6250	16.1250	29.4940	-0.0880	0.0076	95773.2110	-72.8006
40.6250	16.3750	35.8540	0.0690	0.0078	98133.6330	-76.2521
40.6250	16.6250	42.5130	0.1810	0.0077	97866.2270	-77.7344
40.6250	16.8750	45.6530	0.3810	0.0080	98759.7660	-77.6986
40.6250	17.1250	43.9960	0.3710	0.0081	98459.7270	-76.0814
40.6250	17.3750	38.7920	0.3840	0.0082	98457.0000	-75.6930
40.6250	17.6250	36.0280	0.3390	0.0086	100015.5470	-76.0084
40.6250	17.8750	46.1290	0.5650	0.0090	101063.4450	-77.2947
40.6250	19.6250	39.5710	-0.0090	0.0084	101482.6170	-78.1352
40.6250	19.8750	33.6470	0.0530	0.0074	97238.4450	-78.2342
40.6250	20.1250	34.7280	-0.1470	0.0066	92877.1950	-77.4039
40.6250	20.3750	32.8220	-0.2430	0.0060	88354.1800	-73.8190
40.6250	20.6250	33.0640	-0.2620	0.0063	89266.0620	-71.1110
40.6250	20.8750	34.8000	-0.2930	0.0064	90000.4060	-70.1998
40.6250	21.1250	37.1920	-0.3870	0.0062	89527.5550	-70.9042
40.6250	21.3750	37.7910	-0.2010	0.0061	89437.9770	-71.8087
40.6250	21.6250	34.0550	-0.0860	0.0069	94355.4380	-71.3213
40.6250	21.8750	30.0750	0.0650	0.0059	89136.9840	-71.4465
40.6250	22.1250	33.1710	0.0180	0.0073	97691.5160	-72.3197
40.6250	22.3750	40.2660	0.0430	0.0077	101363.8830	-73.5902
40.6250	22.6250	49.9840	0.3990	0.0075	101233.4920	-77.2719
40.8750	14.6250	41.7740	-0.2840	0.0078	96940.4140	-72.8789
40.8750	14.8750	37.9310	-0.3500	0.0073	94299.5000	-72.3855
40.8750	15.1250	35.9540	-0.3820	0.0072	93507.6560	-71.7779
40.8750	15.3750	35.5930	-0.4690	0.0071	93391.6020	-71.1335
40.8750	15.6250	31.8440	-0.4370	0.0073	94280.0390	-71.0297
40.8750	15.8750	34.5280	-0.3830	0.0073	95485.2030	-72.7117
40.8750	16.1250	34.7680	-0.0330	0.0076	97314.3910	-74.7024
40.8750	16.3750	38.5410	0.1080	0.0074	96327.3590	-76.2947
40.8750	16.6250	41.0890	0.2130	0.0074	96466.0160	-76.6815
40.8750	16.8750	40.9450	0.3100	0.0078	97667.9060	-75.7732
40.8750	17.1250	46.3690	0.4760	0.0082	98032.4060	-76.4156
40.8750	17.3750	9.3670	0.2340	0.0086	99339.6020	-72.9653
40.8750	19.6250	42.2010	-0.0450	0.0084	102366.1880	-78.7406
40.8750	19.8750	38.5100	0.0270	0.0078	100498.9770	-79.3201

40.8750	20.1250	33.9180	-0.1420	0.0071	96357.2660	-78.2249
40.8750	20.3750	34.6240	-0.2300	0.0059	88419.5160	-73.2316
40.8750	20.6250	37.0650	-0.2660	0.0065	90775.3670	-69.5225
40.8750	20.8750	37.0820	-0.3000	0.0062	89069.0000	-69.9701
40.8750	21.1250	37.7370	-0.2870	0.0058	87299.7110	-70.1095
40.8750	21.3750	41.1740	-0.2490	0.0065	91816.5470	-70.9707
40.8750	21.6250	35.1250	-0.1490	0.0064	91565.7660	-71.1640
40.8750	21.8750	30.3230	-0.0540	0.0063	91217.2580	-71.1094
40.8750	22.1250	34.7370	-0.1030	0.0075	98792.4220	-72.8365
40.8750	22.3750	40.5920	0.0040	0.0069	97173.0700	-74.8282
40.8750	22.6250	51.4350	0.0630	0.0073	100721.9920	-78.4121
41.1250	14.6250	41.4730	-0.4100	0.0076	96990.6560	-74.0584
41.1250	14.8750	41.4110	-0.4920	0.0078	97599.5700	-72.7367
41.1250	15.1250	39.2110	-0.4540	0.0073	95358.1480	-71.7383
41.1250	15.3750	38.5930	-0.4470	0.0071	94943.2030	-71.9384
41.1250	15.6250	43.4350	-0.3360	0.0076	98245.0160	-73.8797
41.1250	15.8750	45.1100	-0.2350	0.0078	99462.2270	-76.4120
41.1250	16.1250	45.6030	0.1000	0.0076	97959.0000	-77.6375
41.1250	16.3750	45.2010	0.2450	0.0078	98233.7890	-78.0059
41.1250	16.6250	50.3910	0.3760	0.0082	99567.8590	-78.7724
41.1250	16.8750	39.9380	0.4230	0.0087	100382.1800	-75.6566
41.1250	19.6250	35.8490	-0.0870	0.0082	101700.6720	-76.8745
41.1250	19.8750	29.9700	0.0050	0.0074	98398.6330	-77.0274
41.1250	20.1250	30.8000	-0.1770	0.0068	94892.1330	-75.7337
41.1250	20.3750	30.1550	-0.2870	0.0062	90003.1950	-71.0255
41.1250	20.6250	29.2490	-0.4060	0.0067	91867.2660	-67.1989
41.1250	20.8750	31.5240	-0.3540	0.0063	89707.2270	-66.4597
41.1250	21.1250	33.1530	-0.3640	0.0061	89119.7030	-66.9737
41.1250	21.3750	38.3530	-0.3590	0.0068	93691.0230	-69.2292
41.1250	21.6250	39.4280	-0.1740	0.0067	92879.5390	-70.8421
41.1250	21.8750	31.7190	-0.0610	0.0060	89386.1560	-70.5929
41.1250	22.1250	33.5160	-0.1320	0.0060	90267.6020	-71.5429
41.1250	22.3750	37.5570	-0.0640	0.0066	94668.6170	-74.5197
41.1250	22.6250	44.4420	-0.0870	0.0073	99939.5390	-78.1712
41.3750	14.6250	37.4720	-0.4550	0.0071	93965.8050	-70.9674
41.3750	14.8750	38.7630	-0.4620	0.0071	94077.1720	-71.4520
41.3750	15.1250	38.0020	-0.4060	0.0069	94021.8120	-72.2225
41.3750	15.3750	40.2500	-0.3290	0.0076	98667.5230	-74.0117
41.3750	15.6250	47.9970	-0.2040	0.0079	100561.3280	-76.4044
41.3750	15.8750	52.5670	0.0440	0.0081	101175.4380	-79.2199
41.3750	16.1250	53.7400	0.3530	0.0085	101236.9060	-79.2222
41.3750	19.6250	33.3530	-0.2210	0.0081	101571.4920	-75.4375
41.3750	19.8750	29.2460	-0.0740	0.0071	96651.4610	-73.6067
41.3750	20.1250	25.6370	-0.1970	0.0059	89259.6170	-70.3722

41.3750	20.3750	25.4080	-0.3200	0.0060	88467.2340	-67.0618
41.3750	20.6250	25.3480	-0.3500	0.0060	87504.7580	-64.0315
41.3750	20.8750	27.5030	-0.4420	0.0064	89862.9140	-64.1526
41.3750	21.1250	30.9190	-0.4620	0.0063	89594.2340	-65.6362
41.3750	21.3750	38.2410	-0.4190	0.0068	93691.8910	-68.6920
41.3750	21.6250	40.9100	-0.2000	0.0064	91841.0780	-70.9042
41.3750	21.8750	40.0100	-0.2350	0.0069	95173.8830	-71.8960
41.3750	22.1250	37.3880	-0.2600	0.0069	95926.7730	-71.9619
41.3750	22.3750	36.4030	-0.1530	0.0068	95952.5780	-73.3913
41.3750	22.6250	40.1550	-0.1900	0.0069	96804.3830	-75.1122
41.6250	14.6250	32.8320	-0.5140	0.0074	94820.0940	-68.6004
41.6250	14.8750	37.1630	-0.5030	0.0073	95516.3280	-71.1194
41.6250	15.1250	39.1700	-0.4040	0.0075	97717.6950	-73.3784
41.6250	15.3750	40.6970	-0.2250	0.0079	100489.8670	-75.1140
41.6250	15.6250	47.0920	-0.1510	0.0077	99125.9920	-76.1217
41.6250	15.8750	53.4730	0.0480	0.0076	97983.0230	-78.9281
41.6250	19.6250	32.9860	-0.3120	0.0079	101647.0700	-74.8108
41.6250	19.8750	23.1550	-0.1340	0.0069	95814.8910	-72.5034
41.6250	20.1250	26.4860	-0.2930	0.0063	91092.4610	-70.4926
41.6250	20.3750	28.5890	-0.4260	0.0067	91862.4220	-68.1454
41.6250	20.6250	22.6270	-0.3660	0.0059	86051.9380	-64.2606
41.6250	20.8750	23.5040	-0.4390	0.0062	88350.5780	-63.6860
41.6250	21.1250	24.7890	-0.4550	0.0063	89360.3120	-65.4834
41.6250	21.3750	30.1070	-0.2950	0.0057	87447.7660	-66.9763
41.6250	21.6250	42.9870	-0.2730	0.0068	95064.9060	-71.1068
41.6250	21.8750	46.9440	-0.2920	0.0070	97408.7500	-72.9606
41.6250	22.1250	45.4360	-0.2850	0.0070	97395.0940	-73.7642
41.6250	22.3750	42.4960	-0.2930	0.0064	94132.5700	-74.0345
41.6250	22.6250	38.5020	-0.2360	0.0064	92899.0230	-73.4854
41.8750	14.6250	31.9300	-0.5240	0.0075	95916.7270	-68.2219
41.8750	14.8750	36.3120	-0.4060	0.0079	98636.0940	-71.6304
41.8750	15.1250	47.4160	-0.1300	0.0082	100070.3360	-76.5072
41.8750	15.3750	47.9340	-0.0240	0.0083	100560.5940	-76.8505
41.8750	15.6250	51.5490	-0.0720	0.0076	96711.6560	-76.8970
41.8750	15.8750	41.1190	-0.1220	0.0077	96388.8280	-75.1298
41.8750	19.6250	34.7030	-0.4870	0.0073	99882.7730	-74.5949
41.8750	19.8750	26.3050	-0.2440	0.0067	95881.3830	-73.0391
41.8750	20.1250	23.1840	-0.2840	0.0059	89974.9610	-70.3397
41.8750	20.3750	26.9080	-0.3490	0.0062	89508.8280	-68.1906
41.8750	20.6250	19.3060	-0.2500	0.0050	81645.2580	-62.5733
41.8750	20.8750	23.4780	-0.4950	0.0063	89208.0160	-62.6598
41.8750	21.1250	26.0070	-0.4580	0.0064	90906.0780	-63.9139
41.8750	21.3750	30.3000	-0.3290	0.0063	91269.5390	-65.4422
41.8750	21.6250	43.6610	-0.3260	0.0070	96636.0390	-69.4157

41.8750	21.8750	47.6060	-0.2780	0.0069	96785.8120	-71.2603
41.8750	22.1250	46.8650	-0.3460	0.0068	96271.4840	-72.8267
41.8750	22.3750	42.6210	-0.3630	0.0065	93785.7270	-73.3626
41.8750	22.6250	36.0420	-0.3490	0.0062	91464.8050	-71.7816
42.1250	14.6250	22.4120	-0.2640	0.0082	99155.6560	-68.7632
42.1250	19.1250	20.5210	-0.0790	0.0069	96228.4220	-70.9869
42.1250	19.3750	28.2550	-0.0770	0.0074	100767.7110	-71.8283
42.1250	19.6250	33.3200	-0.2050	0.0066	96397.9690	-73.2513
42.1250	19.8750	26.3200	-0.1190	0.0063	93407.0700	-72.0020
42.1250	20.1250	21.7320	-0.1400	0.0063	92691.9770	-70.4168
42.1250	20.3750	29.4600	-0.2150	0.0067	94305.6800	-68.9902
42.1250	20.6250	27.1040	-0.1990	0.0061	89967.8280	-66.2254
42.1250	20.8750	20.3010	-0.0560	0.0053	85246.8120	-62.4582
42.1250	21.1250	28.0770	-0.1510	0.0063	91207.7810	-64.0984
42.1250	21.3750	35.0410	-0.1060	0.0064	93424.8590	-65.8730
42.1250	21.6250	43.5740	-0.0150	0.0066	95297.2730	-68.4999
42.1250	21.8750	44.1560	0.0180	0.0067	95839.1480	-70.0135
42.1250	22.1250	39.4870	-0.0500	0.0063	92387.2030	-70.0396
42.1250	22.3750	31.0470	0.0090	0.0056	88108.5550	-69.0670
42.1250	22.6250	26.4970	-0.0640	0.0058	88733.7660	-68.2414
42.3750	18.8750	17.9160	-0.0910	0.0063	92205.8360	-67.4924
42.3750	19.1250	18.4680	-0.2840	0.0072	98351.1330	-68.3440
42.3750	19.3750	30.2980	-0.2950	0.0071	97933.3050	-69.5670
42.3750	19.6250	20.0550	-0.2140	0.0054	87453.3050	-66.8051
42.3750	19.8750	15.3600	-0.1090	0.0053	86470.7110	-65.4347
42.3750	20.1250	23.4210	-0.3120	0.0062	91348.5160	-67.2272
42.3750	20.3750	34.6070	-0.4750	0.0067	95254.5230	-68.7063
42.3750	20.6250	38.3790	-0.3500	0.0068	96229.2110	-68.6000
42.3750	20.8750	36.8850	-0.2720	0.0062	92630.5230	-66.6944
42.3750	21.1250	35.1830	-0.2630	0.0064	93587.0160	-66.3101
42.3750	21.3750	35.3220	-0.2270	0.0064	94143.4380	-66.0124
42.3750	21.6250	36.2740	-0.0710	0.0065	94450.4450	-66.6050
42.3750	21.8750	34.9590	-0.0910	0.0065	93991.0390	-67.7586
42.3750	22.1250	27.3470	-0.1140	0.0057	88158.9690	-66.6344
42.3750	22.3750	22.7860	-0.1400	0.0058	88464.0160	-65.7344
42.3750	22.6250	20.2980	-0.1800	0.0064	92406.9840	-65.8338
42.6250	18.3750	27.7750	0.2120	0.0068	94634.4920	-71.1419
42.6250	18.6250	23.9920	0.0560	0.0060	90069.6720	-68.9065
42.6250	18.8750	15.0370	-0.3210	0.0061	90777.1800	-65.7276
42.6250	19.1250	19.6230	-0.4550	0.0063	91893.5000	-65.4779
42.6250	19.3750	21.4920	-0.4480	0.0062	90918.7890	-64.7033
42.6250	19.6250	11.6670	-0.3050	0.0053	84752.4450	-61.3099
42.6250	19.8750	10.6330	-0.2300	0.0055	86143.0160	-61.4677
42.6250	20.1250	7.5130	-0.1200	0.0048	82490.0550	-60.8099

42.6250	20.3750	31.2590	-0.5450	0.0067	94910.0390	-65.7419
42.6250	20.6250	36.3260	-0.3000	0.0066	95556.8360	-67.3128
42.6250	20.8750	37.3370	-0.2210	0.0063	94020.4690	-67.5572
42.6250	21.1250	35.4490	-0.1960	0.0064	94388.6950	-65.9915
42.6250	21.3750	31.5880	-0.1400	0.0060	91905.9380	-65.1834
42.6250	21.6250	29.2580	-0.1070	0.0063	93213.7110	-64.7590
42.6250	21.8750	24.7660	-0.1510	0.0063	92379.1950	-65.1233
42.6250	22.1250	20.2740	-0.1840	0.0063	91550.9220	-64.5947
42.6250	22.3750	15.9010	-0.1840	0.0055	86811.4920	-63.0807
42.6250	22.6250	14.3820	-0.2250	0.0061	90451.5000	-63.3165
42.8750	17.6250	18.0720	0.0510	0.0077	99298.0470	-72.8685
42.8750	17.8750	24.4330	-0.0550	0.0069	95686.8120	-72.4916
42.8750	18.1250	20.5590	-0.1200	0.0065	93210.8910	-70.5063
42.8750	18.3750	19.0380	-0.2100	0.0066	93123.6720	-68.1335
42.8750	18.6250	17.1520	-0.2900	0.0061	89420.1020	-65.6124
42.8750	18.8750	15.7830	-0.4430	0.0062	89564.6250	-63.8829
42.8750	19.1250	11.6650	-0.3860	0.0054	85258.8670	-60.9127
42.8750	19.3750	12.1980	-0.4330	0.0055	86207.5700	-60.3837
42.8750	19.6250	13.5020	-0.5460	0.0056	86723.5160	-60.4490
42.8750	19.8750	15.3180	-0.4850	0.0063	90293.1330	-61.2000
42.8750	20.1250	10.4820	-0.2700	0.0054	85750.3280	-60.9231
42.8750	20.3750	14.8140	-0.3300	0.0056	87726.4140	-61.2513
42.8750	20.6250	22.7870	-0.2540	0.0061	91309.4610	-62.7751
42.8750	20.8750	28.3690	-0.2090	0.0063	93423.6020	-64.7145
42.8750	21.1250	29.7940	-0.1450	0.0062	93050.7500	-64.5622
42.8750	21.3750	27.2520	-0.0810	0.0061	92479.8280	-65.0513
42.8750	21.6250	29.5430	-0.0670	0.0063	94843.0470	-65.5914
42.8750	21.8750	27.7610	-0.1330	0.0065	95315.5000	-65.8503
42.8750	22.1250	21.0830	-0.1070	0.0064	93806.4220	-65.3351
42.8750	22.3750	15.7800	-0.1200	0.0059	90089.2580	-63.7710
42.8750	22.6250	15.3170	-0.1150	0.0062	91494.6480	-63.2434

Table 42: Twelve-year (2001-2012)mean values for each $0.2^{\circ}5x0.25^{\circ}$ grid point of the study region

latitude	longitude	Average layer 1 (0-10 cm) soil temperature [K]	Average layer 2 (10-40 cm) soil temperature [K]	Average layer 3 (40-100 cm) soil temperature [K]	Average layer 4 (100-200 cm) soil temperature [K]	Near surface air temperature [K]
36.8750	14.6250	291.4500	291.2100	290.9240	290.4600	290.4620
36.8750	14.8750	291.2440	290.9840	290.6860	290.1930	290.3120
36.8750	15.1250	292.4770	292.2900	292.0510	291.6380	291.3050
36.8750	21.8750	291.8600	291.6110	291.3930	291.0280	290.9950
36.8750	22.3750	288.0980	287.7130	287.5050	287.1810	287.4620
36.8750	22.6250	291.8050	291.4620	291.1900	290.7560	291.1770
37.1250	14.6250	290.0890	289.8020	289.4910	288.9310	289.3210
37.1250	14.8750	289.1190	288.8300	288.4920	287.8940	288.4120
37.1250	15.1250	291.8020	291.6390	291.3890	290.9700	290.5070
37.1250	21.6250	290.9650	290.5820	290.3090	289.9070	290.4250
37.1250	21.8750	290.3740	289.9600	289.7090	289.3440	289.8960
37.1250	22.1250	288.2610	287.8800	287.7140	287.4740	287.8430
37.1250	22.3750	287.7630	287.3970	287.2290	286.9540	287.3240
37.1250	22.6250	286.6990	286.4920	286.3320	286.0730	285.9460
37.3750	14.6250	290.7760	290.5120	290.2660	289.8790	289.9910
37.3750	14.8750	291.7220	291.4900	291.2420	290.8530	291.0260
37.3750	21.8750	288.6200	288.2580	288.0540	287.7500	288.0750
37.3750	22.1250	288.0790	287.7540	287.6440	287.4960	287.6270
37.3750	22.3750	286.5240	286.2100	286.1060	285.9480	286.0840
37.3750	22.6250	287.3820	287.0800	286.9950	286.8890	287.1190
37.6250	14.6250	289.6660	289.3940	289.1640	288.7930	288.8390
37.6250	14.8750	288.5930	288.3260	288.0990	287.7360	287.8130
37.6250	15.1250	289.1780	289.0320	288.8820	288.6250	287.9040
37.6250	21.6250	291.5660	291.1100	290.8390	290.4700	291.0950
37.6250	21.8750	289.3350	288.9650	288.7970	288.5950	288.7790
37.6250	22.1250	284.7020	284.3950	284.3220	284.2340	284.1130
37.6250	22.3750	285.6220	285.3380	285.2390	285.1040	285.1370
37.6250	22.6250	288.9420	288.7100	288.6130	288.5140	288.4420
37.8750	14.6250	285.5280	285.1570	284.9500	284.6090	284.8330
37.8750	14.8750	284.7480	284.3860	284.1720	283.8090	284.0190
37.8750	15.1250	287.0020	286.8310	286.6390	286.3240	285.8550
37.8750	21.3750	291.8810	291.3770	291.0230	290.4750	291.5070
37.8750	21.6250	290.1240	289.6030	289.2820	288.8330	289.6260
37.8750	21.8750	285.9030	285.5100	285.3350	285.1200	285.1880
37.8750	22.1250	285.9200	285.5790	285.4500	285.2960	285.2290
37.8750	22.3750	284.6560	284.3680	284.2620	284.1350	283.9630
37.8750	22.6250	288.0880	287.8350	287.7190	287.6240	287.4310

38.1250	14.8750	289.0580	288.9210	288.7770	288.5310	288.0780
38.1250	15.1250	289.8260	289.6840	289.5300	289.2670	288.7900
38.1250	15.3750	289.6330	289.4800	289.2690	288.9200	288.5120
38.1250	15.6250	290.7160	290.5670	290.3620	290.0280	289.4980
38.1250	15.8750	285.7820	285.1380	284.9050	284.5670	284.9680
38.1250	16.1250	291.3800	291.1650	290.9040	290.4660	290.0840
38.1250	20.6250	290.1440	289.9970	289.8740	289.6660	289.1500
38.1250	21.6250	291.1790	290.7110	290.4510	290.1620	290.6580
38.1250	21.8750	286.5580	286.1590	285.9830	285.8070	285.9120
38.1250	22.1250	286.9790	286.6570	286.5720	286.5310	286.2910
38.1250	22.3750	286.8530	286.6230	286.6220	286.7610	286.2100
38.3750	15.8750	290.8350	290.2230	290.0050	289.7320	290.1700
38.3750	16.1250	289.1650	288.8260	288.5910	288.2260	288.2490
38.3750	16.3750	290.3430	290.1480	289.9070	289.5040	289.0070
38.3750	21.6250	290.3310	289.9470	289.7900	289.6710	289.7010
38.3750	21.8750	289.2530	288.9240	288.8250	288.8070	288.5720
38.3750	22.1250	288.1330	287.8970	287.8560	287.9330	287.3870
38.3750	22.6250	288.0190	287.8470	287.8290	287.9400	287.1670
38.6250	16.1250	290.1680	289.6560	289.4000	289.0590	289.4850
38.6250	16.3750	287.6430	287.2910	287.0780	286.7600	286.7100
38.6250	21.1250	290.2700	290.0090	289.8860	289.7720	289.4220
38.6250	21.3750	290.8330	290.5880	290.4960	290.4580	289.9470
38.6250	21.6250	287.4490	287.0370	286.9120	286.8170	286.9130
38.6250	21.8750	284.9050	284.6040	284.5780	284.6000	284.1810
38.6250	22.1250	284.0640	283.7900	283.7420	283.7220	283.3220
38.6250	22.3750	284.7090	284.4880	284.4510	284.4370	283.9780
38.6250	22.6250	286.0920	285.8510	285.7940	285.7670	285.4300
38.8750	16.3750	289.4280	288.9700	288.7720	288.5120	288.6970
38.8750	16.6250	291.0520	290.9150	290.7320	290.4160	289.7310
38.8750	20.8750	290.3110	290.0780	289.9830	289.9180	289.5170
38.8750	21.1250	289.7050	289.4410	289.3900	289.4350	288.9620
38.8750	21.3750	288.4780	288.2660	288.2770	288.4020	287.7340
38.8750	21.6250	285.6400	285.3000	285.2770	285.3120	285.1090
38.8750	21.8750	283.4270	283.1310	283.1620	283.2660	282.7020
38.8750	22.1250	286.0620	285.7500	285.7480	285.8060	285.5460
38.8750	22.3750	286.9950	286.7040	286.6770	286.6940	286.4650
38.8750	22.6250	288.0200	287.7460	287.7260	287.7670	287.5040
39.1250	16.1250	287.4420	286.9860	286.8680	286.8030	287.0400
39.1250	16.3750	285.2250	284.6800	284.5910	284.4760	284.7550
39.1250	16.6250	283.6840	283.1250	283.0160	282.8480	283.0430
39.1250	16.8750	290.0650	289.4740	289.2380	288.8850	289.5560
39.1250	17.1250	291.0290	290.9550	290.8250	290.6050	291.2510
39.1250	20.6250	290.1820	289.8700	289.7910	289.7810	289.6550
39.1250	20.8750	290.6850	290.3670	290.2810	290.2640	290.2240

39.1250	21.1250	288.6290	288.4140	288.4660	288.6640	288.1260
39.1250	21.3750	285.6080	285.4550	285.5260	285.7280	284.8930
39.1250	21.6250	283.1180	282.7740	282.8020	282.9150	282.5190
39.1250	21.8750	284.4970	284.0390	284.0670	284.1980	284.0590
39.1250	22.1250	286.9180	286.3880	286.3660	286.4760	286.6350
39.1250	22.3750	286.6460	286.1560	286.0770	286.1150	286.2430
39.1250	22.6250	285.7150	285.2840	285.1910	285.1580	285.0760
39.3750	16.1250	287.8450	287.2850	287.1140	286.9640	287.4830
39.3750	16.3750	284.8400	284.2870	284.2040	284.1090	284.3780
39.3750	16.6250	284.0200	283.4800	283.3860	283.2470	283.3780
39.3750	16.8750	288.8290	288.2810	288.1040	287.8830	288.2890
39.3750	20.3750	289.8280	289.7720	289.8220	289.9180	288.7690
39.3750	20.6250	287.6550	287.3910	287.3690	287.4450	287.0900
39.3750	20.8750	286.3960	286.2180	286.2670	286.4450	285.7720
39.3750	21.1250	285.9520	285.8310	285.9530	286.2270	285.3510
39.3750	21.3750	283.7600	283.6020	283.7350	284.0290	283.0610
39.3750	21.6250	284.6070	284.2030	284.2460	284.4130	284.2090
39.3750	21.8750	288.5630	288.0250	288.0140	288.2000	288.3290
39.3750	22.1250	289.0220	288.4500	288.3840	288.5290	288.6870
39.3750	22.3750	288.6210	288.0610	287.8850	287.8060	288.0410
39.3750	22.6250	288.3110	287.8160	287.6260	287.4240	287.5720
39.6250	15.8750	287.3930	287.1040	287.0540	287.0680	286.8590
39.6250	16.1250	288.7580	288.2110	288.0560	287.9150	288.3210
39.6250	16.3750	289.4890	289.0460	288.9100	288.7600	288.9820
39.6250	16.6250	289.8270	289.6600	289.5740	289.4580	288.9860
39.6250	20.1250	290.0490	290.0100	290.0820	290.2270	289.1650
39.6250	20.3750	288.4510	288.3240	288.3910	288.5900	287.8290
39.6250	20.6250	287.3880	287.1920	287.2840	287.5330	286.9440
39.6250	20.8750	285.8610	285.7480	285.8790	286.1860	285.2700
39.6250	21.1250	282.3410	282.2870	282.4510	282.8100	281.5450
39.6250	21.3750	282.3270	282.2080	282.3810	282.7570	281.5540
39.6250	21.6250	287.0310	286.5820	286.6370	286.8660	286.8550
39.6250	21.8750	287.8900	287.4680	287.4470	287.5850	287.4050
39.6250	22.1250	288.4360	287.9660	287.8890	287.9920	287.9660
39.6250	22.3750	289.1270	288.6060	288.4480	288.3930	288.6420
39.6250	22.6250	289.3930	289.1980	289.1000	288.9770	288.2780
39.8750	15.8750	287.1700	286.6370	286.5580	286.5310	286.9040
39.8750	16.1250	284.5530	284.0060	283.9080	283.8230	284.0870
39.8750	16.3750	287.5940	287.1900	287.0470	286.9000	286.9170
39.8750	20.1250	288.8110	288.7240	288.7820	288.9570	288.1240
39.8750	20.3750	286.0230	285.8570	285.9890	286.3060	285.5540
39.8750	20.6250	285.7970	285.6000	285.7540	286.0970	285.3820
39.8750	20.8750	282.6370	282.5440	282.7430	283.1710	281.9580
39.8750	21.1250	281.5400	281.4650	281.6760	282.1130	280.7890

39.8750	21.3750	284.4170	284.1650	284.3800	284.8280	283.9800
39.8750	21.6250	285.8890	285.4540	285.5110	285.7240	285.6020
39.8750	21.8750	284.3280	283.9100	283.9250	284.0990	283.8630
39.8750	22.1250	287.2720	286.9400	286.8810	286.8690	286.6670
39.8750	22.3750	286.2600	285.8900	285.7800	285.6580	285.5880
39.8750	22.6250	287.1250	287.0460	286.9820	286.8800	285.8640
40.1250	15.3750	287.5900	287.2750	287.2700	287.3520	287.2390
40.1250	15.6250	286.5320	286.2230	286.2940	286.5070	286.2510
40.1250	15.8750	284.3450	283.9550	284.0170	284.1940	284.1070
40.1250	16.1250	286.1750	285.6650	285.6140	285.5930	285.8830
40.1250	16.3750	288.1910	287.8100	287.6820	287.5670	287.6150
40.1250	16.6250	290.4830	290.3950	290.3100	290.1850	289.3890
40.1250	18.1250	291.5610	291.2670	291.0040	290.5750	290.9990
40.1250	18.3750	291.7930	291.5910	291.3260	290.8650	291.0700
40.1250	19.8750	285.8520	285.4810	285.3530	285.1610	285.5460
40.1250	20.1250	286.0570	285.6950	285.5870	285.4120	285.5720
40.1250	20.3750	284.0510	283.6780	283.6760	283.7270	283.5310
40.1250	20.6250	284.9130	284.5730	284.6130	284.7380	284.4180
40.1250	20.8750	282.5460	282.1410	282.1840	282.3520	281.9750
40.1250	21.1250	282.3240	281.8910	281.9560	282.1710	281.7850
40.1250	21.3750	285.3220	284.7800	284.7750	284.8690	284.9180
40.1250	21.6250	284.9670	284.4940	284.4530	284.4910	284.4720
40.1250	21.8750	285.9490	285.5090	285.4200	285.3290	285.4570
40.1250	22.1250	283.5950	283.1950	283.0940	282.9360	282.9800
40.1250	22.3750	282.9250	282.3720	282.2570	282.1030	282.5390
40.3750	15.1250	288.9170	288.5740	288.5300	288.5490	288.6530
40.3750	15.3750	284.8730	284.5820	284.6280	284.7720	284.5970
40.3750	15.6250	284.8010	284.4780	284.5540	284.7410	284.5650
40.3750	15.8750	284.4620	284.0840	284.1710	284.3910	284.2800
40.3750	16.1250	286.2120	285.7850	285.7610	285.7860	285.9430
40.3750	16.3750	289.2660	288.8790	288.8030	288.7650	288.8370
40.3750	16.6250	290.2820	289.9660	289.8410	289.7230	289.5740
40.3750	17.3750	291.6440	291.4730	291.3250	291.0770	290.8130
40.3750	17.6250	291.3510	291.0570	290.8600	290.5730	290.7420
40.3750	17.8750	291.6730	291.4400	291.2260	290.8770	290.9770
40.3750	18.1250	291.6570	291.4590	291.2270	290.8230	290.9290
40.3750	19.6250	288.6420	288.2490	288.0980	287.8840	288.5010
40.3750	19.8750	286.5590	286.1450	286.0170	285.8260	286.3450
40.3750	20.1250	285.7880	285.4150	285.4010	285.4120	285.4790
40.3750	20.3750	284.5740	284.2290	284.2980	284.4670	284.1770
40.3750	20.6250	282.6910	282.3190	282.3660	282.5690	282.1930
40.3750	20.8750	280.9470	280.6280	280.6850	280.8940	280.2380
40.3750	21.1250	283.4860	282.9950	283.0720	283.3220	283.0080
40.3750	21.3750	284.8400	284.2700	284.2670	284.3790	284.3000

40.3750	21.6250	283.7890	283.3700	283.3430	283.4060	283.1270
40.3750	21.8750	284.8230	284.4020	284.3240	284.2480	284.2100
40.3750	22.1250	283.8110	283.3550	283.2990	283.2360	283.3240
40.3750	22.3750	286.6350	285.9050	285.7600	285.6080	286.5230
40.6250	14.8750	289.6930	289.4780	289.4320	289.4560	289.1770
40.6250	15.1250	287.8520	287.4690	287.4480	287.5430	287.6950
40.6250	15.3750	285.7920	285.4840	285.5450	285.7350	285.5570
40.6250	15.6250	284.9660	284.6250	284.7120	284.9310	284.7520
40.6250	15.8750	284.8680	284.4920	284.5610	284.7480	284.6540
40.6250	16.1250	287.0890	286.6500	286.6060	286.6010	286.8190
40.6250	16.3750	288.8680	288.4790	288.3750	288.2980	288.4450
40.6250	16.6250	289.1110	288.7650	288.5980	288.4240	288.5250
40.6250	16.8750	289.9930	289.7230	289.5060	289.1940	289.2040
40.6250	17.1250	289.8790	289.6240	289.4120	289.1040	289.1450
40.6250	17.3750	289.8270	289.5570	289.3570	289.0710	289.2430
40.6250	17.6250	290.7230	290.4070	290.2050	289.9080	290.1980
40.6250	17.8750	291.6320	291.4440	291.2360	290.8790	290.8760
40.6250	19.6250	290.4730	290.0490	289.8530	289.5600	290.2750
40.6250	19.8750	287.7590	287.3150	287.1770	287.0060	287.5350
40.6250	20.1250	285.1670	284.8040	284.7810	284.7670	284.7140
40.6250	20.3750	282.3640	282.0160	282.0460	282.1890	281.7740
40.6250	20.6250	282.7270	282.3660	282.4090	282.5840	282.1370
40.6250	20.8750	283.0240	282.6070	282.6640	282.8760	282.4800
40.6250	21.1250	282.8620	282.4560	282.5080	282.7710	282.1310
40.6250	21.3750	282.8070	282.3190	282.3420	282.5260	282.0820
40.6250	21.6250	285.2700	284.6920	284.6720	284.8230	284.9610
40.6250	21.8750	282.4310	282.0030	281.9650	281.9900	281.8200
40.6250	22.1250	286.9280	286.4040	286.3320	286.2880	286.5840
40.6250	22.3750	288.7480	288.0290	287.8610	287.6750	288.5910
40.6250	22.6250	289.3820	288.9930	288.8030	288.6120	288.5980
40.8750	14.6250	287.7440	287.3280	287.2860	287.3590	287.3140
40.8750	14.8750	285.9130	285.4810	285.4740	285.5890	285.5750
40.8750	15.1250	285.2960	284.8840	284.8940	285.0260	285.0100
40.8750	15.3750	285.1830	284.7910	284.8250	285.0130	284.9180
40.8750	15.6250	285.7440	285.3430	285.3970	285.5910	285.5060
40.8750	15.8750	286.6780	286.2610	286.2550	286.3520	286.4330
40.8750	16.1250	288.0330	287.5800	287.4690	287.4040	287.7150
40.8750	16.3750	287.8590	287.4820	287.3350	287.1850	287.3830
40.8750	16.6250	288.2110	287.8560	287.6730	287.4550	287.6430
40.8750	16.8750	289.0530	288.6860	288.4500	288.1350	288.4850
40.8750	17.1250	289.7290	289.5780	289.4070	289.1160	288.8620
40.8750	17.3750	289.5330	289.4630	289.3750	289.2230	289.7730
40.8750	19.6250	290.9040	290.4460	290.2380	289.9540	290.6620
40.8750	19.8750	289.4840	289.0040	288.8370	288.6680	289.2230

40.8750	20.1250	286.9350	286.5190	286.4910	286.5410	286.5540
40.8750	20.3750	282.2300	281.8340	281.8500	282.0050	281.6400
40.8750	20.6250	283.4690	283.0480	283.0810	283.2510	282.8640
40.8750	20.8750	282.5070	282.1590	282.1840	282.4090	281.7110
40.8750	21.1250	281.4410	281.0730	281.1160	281.3940	280.5450
40.8750	21.3750	283.7530	283.1570	283.1890	283.3580	283.2300
40.8750	21.6250	283.6070	283.1340	283.1190	283.2250	283.0570
40.8750	21.8750	283.2610	282.8000	282.7860	282.8430	282.7710
40.8750	22.1250	287.3550	286.8240	286.7670	286.7520	287.0140
40.8750	22.3750	286.4040	285.7630	285.6560	285.5480	286.1210
40.8750	22.6250	288.6690	288.0160	287.8260	287.6060	288.1710
41.1250	14.6250	287.2200	286.8170	286.8190	286.9980	286.8070
41.1250	14.8750	287.4990	287.0570	287.0540	287.2450	287.1530
41.1250	15.1250	286.3230	285.8810	285.8750	286.0350	285.9570
41.1250	15.3750	286.2430	285.8060	285.7910	285.9430	285.8400
41.1250	15.6250	288.4500	288.0280	288.0020	288.1830	287.8990
41.1250	15.8750	289.4230	289.0360	288.9650	289.0680	288.8370
41.1250	16.1250	288.8480	288.4470	288.2740	288.1320	288.2250
41.1250	16.3750	289.2980	289.0050	288.8560	288.6860	288.5850
41.1250	16.6250	290.4020	290.2530	290.1220	289.9010	289.5000
41.1250	16.8750	290.7060	290.5600	290.4080	290.1470	290.1640
41.1250	19.6250	290.3590	289.8920	289.7210	289.4910	290.1930
41.1250	19.8750	288.1130	287.6450	287.5320	287.4320	287.9010
41.1250	20.1250	285.8070	285.3640	285.3530	285.4390	285.5210
41.1250	20.3750	282.7920	282.3860	282.4490	282.6540	282.3450
41.1250	20.6250	283.7400	283.3900	283.4600	283.7060	283.2480
41.1250	20.8750	282.3190	281.9000	281.9530	282.2140	281.7800
41.1250	21.1250	281.8950	281.4640	281.5390	281.8650	281.2950
41.1250	21.3750	284.4510	283.9310	283.9390	284.1490	284.0020
41.1250	21.6250	284.1230	283.6350	283.6250	283.7020	283.5200
41.1250	21.8750	282.0470	281.5360	281.5410	281.6710	281.4290
41.1250	22.1250	282.4010	281.7850	281.7760	281.8480	281.9790
41.1250	22.3750	285.0100	284.4200	284.3960	284.4290	284.5960
41.1250	22.6250	288.1590	287.5620	287.4280	287.3270	287.6470
41.3750	14.6250	285.2730	284.9020	284.9480	285.1900	284.8670
41.3750	14.8750	285.5250	285.1310	285.1560	285.3650	285.0690
41.3750	15.1250	285.7180	285.3050	285.3420	285.6270	285.2290
41.3750	15.3750	288.5790	288.1670	288.1400	288.3080	288.0700
41.3750	15.6250	290.0760	289.6790	289.5960	289.6780	289.3690
41.3750	15.8750	291.0180	290.8900	290.8750	290.8810	289.9690
41.3750	16.1250	291.3130	291.1360	291.0000	290.7910	290.3150
41.3750	19.6250	289.9860	289.5360	289.4180	289.2720	289.8060
41.3750	19.8750	286.7950	286.2920	286.2080	286.1390	286.6290
41.3750	20.1250	282.2340	281.7550	281.7510	281.8870	281.9090

41.3750	20.3750	281.5480	281.1310	281.1720	281.4210	281.1040
41.3750	20.6250	280.9220	280.5900	280.6480	280.9070	280.2940
41.3750	20.8750	282.0200	281.6120	281.7100	282.0100	281.5240
41.3750	21.1250	281.8170	281.4020	281.5150	281.8790	281.2580
41.3750	21.3750	284.1480	283.6410	283.6790	283.9500	283.6900
41.3750	21.6250	283.3250	282.8340	282.8360	282.9870	282.6460
41.3750	21.8750	285.0940	284.5580	284.5430	284.6470	284.5720
41.3750	22.1250	285.4000	284.7990	284.8130	284.9190	285.0700
41.3750	22.3750	285.6070	285.0400	285.0560	285.2040	285.1910
41.3750	22.6250	286.1560	285.5560	285.4960	285.5170	285.7710
41.6250	14.6250	285.7460	285.3700	285.4470	285.7310	285.4130
41.6250	14.8750	286.4220	286.0110	286.0380	286.2670	286.0220
41.6250	15.1250	287.9590	287.5250	287.5370	287.7880	287.5070
41.6250	15.3750	289.7990	289.3770	289.3260	289.4290	289.2530
41.6250	15.6250	289.3230	288.8970	288.7670	288.7650	288.6880
41.6250	15.8750	289.4080	289.3360	289.3290	289.3350	288.2730
41.6250	19.6250	289.6860	289.2370	289.1650	289.1110	289.4730
41.6250	19.8750	285.8990	285.3850	285.3620	285.3880	285.7740
41.6250	20.1250	282.9020	282.4010	282.4270	282.6060	282.6440
41.6250	20.3750	283.1490	282.7310	282.8170	283.0940	282.8110
41.6250	20.6250	279.9150	279.6740	279.7350	280.0050	279.0780
41.6250	20.8750	280.9570	280.6490	280.7470	281.0450	280.3480
41.6250	21.1250	281.4510	281.1400	281.3020	281.6630	280.8920
41.6250	21.3750	280.4980	280.1500	280.2390	280.5400	279.8020
41.6250	21.6250	284.8930	284.3430	284.3810	284.6110	284.3360
41.6250	21.8750	286.3530	285.8370	285.8370	286.0320	285.7430
41.6250	22.1250	286.3940	285.9150	285.9520	286.1600	285.8220
41.6250	22.3750	284.5780	284.0470	284.0460	284.2160	284.0560
41.6250	22.6250	283.9090	283.3670	283.3970	283.5920	283.4100
41.8750	14.6250	286.5730	286.1850	286.2630	286.5650	286.2860
41.8750	14.8750	288.4200	287.9570	287.9890	288.2580	288.0840
41.8750	15.1250	290.0750	290.0370	290.0960	290.2170	289.1160
41.8750	15.3750	290.4750	290.4110	290.4300	290.4790	289.5570
41.8750	15.6250	288.5660	288.5100	288.5420	288.6150	287.5650
41.8750	15.8750	288.0110	287.4940	287.4220	287.4360	287.5320
41.8750	19.6250	288.3070	287.9060	287.9200	288.0400	287.9630
41.8750	19.8750	285.5630	285.0840	285.1000	285.2220	285.3370
41.8750	20.1250	281.9820	281.5370	281.5630	281.7760	281.6110
41.8750	20.3750	281.6440	281.3160	281.3610	281.6320	281.1160
41.8750	20.6250	277.6960	277.6770	277.6930	277.8680	276.1240
41.8750	20.8750	281.2500	280.9900	281.0830	281.3700	280.6510
41.8750	21.1250	282.1320	281.8160	281.9530	282.2780	281.6370
41.8750	21.3750	282.3980	281.9650	282.0640	282.3630	281.8980
41.8750	21.6250	285.6740	285.1270	285.1670	285.4280	285.0770

41.8750	21.8750	286.0230	285.5350	285.5600	285.7870	285.2710
41.8750	22.1250	285.7750	285.3350	285.3930	285.6620	285.0710
41.8750	22.3750	284.3120	283.8540	283.9090	284.1720	283.7150
41.8750	22.6250	282.9220	282.4700	282.5480	282.8460	282.4070
42.1250	14.6250	288.0720	288.1040	288.2030	288.3920	288.5110
42.1250	19.1250	286.2020	285.5420	285.4660	285.3660	286.1430
42.1250	19.3750	288.2900	287.6460	287.5220	287.3670	288.1270
42.1250	19.6250	285.6960	285.1750	285.1130	285.0600	285.3000
42.1250	19.8750	283.5970	283.0120	282.9800	283.0340	283.3380
42.1250	20.1250	283.0570	282.4650	282.4700	282.5850	282.7800
42.1250	20.3750	283.8690	283.2910	283.2840	283.4270	283.5950
42.1250	20.6250	281.5680	281.2190	281.1840	281.2860	280.9390
42.1250	20.8750	279.0660	278.7520	278.6980	278.7750	278.0390
42.1250	21.1250	282.1790	281.6630	281.6240	281.6710	281.6420
42.1250	21.3750	283.5400	282.9310	282.8660	282.8810	283.0200
42.1250	21.6250	284.7700	284.1020	283.9630	283.8430	284.1860
42.1250	21.8750	285.1610	284.5390	284.4580	284.4100	284.5740
42.1250	22.1250	283.2500	282.7000	282.6590	282.6670	282.6310
42.1250	22.3750	280.7430	280.1710	280.1230	280.1990	280.1210
42.1250	22.6250	280.9380	280.3950	280.3960	280.5000	280.5170
42.3750	18.8750	283.6800	283.0730	283.0360	283.0060	283.5170
42.3750	19.1250	286.6030	285.9960	286.0150	286.0770	286.5300
42.3750	19.3750	286.1730	285.6170	285.5810	285.5450	285.8360
42.3750	19.6250	280.1800	279.7710	279.7340	279.8710	279.4340
42.3750	19.8750	279.5360	279.1320	279.0930	279.1980	278.7050
42.3750	20.1250	281.8730	281.2780	281.2940	281.5160	281.5520
42.3750	20.3750	284.0920	283.4890	283.4770	283.6580	283.7720
42.3750	20.6250	284.6850	284.0530	284.0060	284.1570	284.2950
42.3750	20.8750	282.7270	282.0810	282.0070	282.1020	282.2200
42.3750	21.1250	283.3910	282.7650	282.7210	282.8580	282.8350
42.3750	21.3750	283.7490	283.1240	283.0800	283.2010	283.2190
42.3750	21.6250	283.9370	283.2670	283.1890	283.1870	283.4620
42.3750	21.8750	283.7370	283.1420	283.0770	283.0960	283.2410
42.3750	22.1250	280.4690	279.9240	279.9000	280.0140	279.8050
42.3750	22.3750	280.5180	279.9670	279.9580	280.0890	279.9810
42.3750	22.6250	282.5930	282.0320	282.0680	282.2450	282.3640
42.6250	18.3750	285.3060	284.9610	284.8320	284.6270	284.8150
42.6250	18.6250	282.3390	282.0560	281.9870	281.9380	281.7380
42.6250	18.8750	281.9780	281.3690	281.4260	281.5890	281.7790
42.6250	19.1250	282.3750	281.8060	281.9030	282.1330	282.1460
42.6250	19.3750	281.7460	281.2610	281.3540	281.5960	281.3490
42.6250	19.6250	278.7390	278.5730	278.6470	278.8620	277.4390
42.6250	19.8750	279.2800	278.9670	279.0100	279.2000	278.1680
42.6250	20.1250	277.7410	277.5960	277.6370	277.7760	275.8980

42.6250	20.3750	283.5740	283.0290	283.0640	283.3180	283.3270
42.6250	20.6250	284.1250	283.5250	283.5210	283.7510	283.7420
42.6250	20.8750	283.4380	282.8410	282.8150	283.0250	282.8680
42.6250	21.1250	283.4970	282.7760	282.7530	283.0140	283.0910
42.6250	21.3750	282.1810	281.5370	281.5130	281.6160	281.6480
42.6250	21.6250	282.7670	282.0610	282.0190	282.0740	282.4090
42.6250	21.8750	282.3020	281.6640	281.6690	281.7990	281.9440
42.6250	22.1250	281.7990	281.2010	281.2230	281.3570	281.4600
42.6250	22.3750	279.2270	278.6650	278.6480	278.7870	278.6230
42.6250	22.6250	281.2090	280.6850	280.7260	280.8920	280.8550
42.8750	17.6250	288.1820	287.6820	287.5700	287.4190	288.0530
42.8750	17.8750	285.7310	285.1980	285.1050	284.9710	285.5310
42.8750	18.1250	283.8800	283.2790	283.2490	283.2080	283.6960
42.8750	18.3750	283.3460	282.7200	282.7250	282.7550	283.2270
42.8750	18.6250	280.9980	280.4470	280.4620	280.5980	280.7240
42.8750	18.8750	280.8670	280.3870	280.4690	280.7340	280.5230
42.8750	19.1250	278.7990	278.5490	278.6180	278.8650	277.6870
42.8750	19.3750	279.1460	278.8710	278.9700	279.2640	278.1380
42.8750	19.6250	279.4580	279.2530	279.3720	279.7100	278.4050
42.8750	19.8750	280.9980	280.6050	280.7350	281.0490	280.5370
42.8750	20.1250	278.9840	278.8350	278.9210	279.1540	277.8120
42.8750	20.3750	279.6730	279.3470	279.4410	279.7370	279.0210
42.8750	20.6250	281.5580	281.0220	281.0730	281.3420	281.1640
42.8750	20.8750	282.8540	282.3570	282.3620	282.5570	282.3900
42.8750	21.1250	282.5720	281.9610	281.9230	281.9840	282.1320
42.8750	21.3750	282.2300	281.5680	281.5640	281.7130	281.7520
42.8750	21.6250	283.4330	282.6770	282.6470	282.7540	283.0910
42.8750	21.8750	283.5520	282.7940	282.7660	282.8620	283.3530
42.8750	22.1250	282.6600	281.9570	281.9640	282.0800	282.4810
42.8750	22.3750	280.6480	280.0000	280.0280	280.1490	280.3290
42.8750	22.6250	281.5150	280.9540	280.9920	281.1050	281.2360

Table 43 Twelve-year (2001-2012)mean values for each 0.2°x0.25° grid point of the study region

latitude	longitude	Net shortwave radiation [W/m^2]	Snow water equivalent [kg/m^2]	Surface incident shortwave radiation [W/m^2]	Average layer 1 (0-10 cm) soil moisture [kg/m^2]	Average layer 2 (10-40 cm) soil moisture [kg/m^2]
36.8750	14.6250	182.8690	0.0000	212.3020	21.2680	66.4510
36.8750	14.8750	182.3010	0.0000	211.3060	25.7010	80.2580
36.8750	15.1250	181.9490	0.0000	210.4810	27.4920	96.6380
36.8750	21.8750	180.4240	0.0000	210.2540	25.2790	90.7910
36.8750	22.3750	175.5330	0.0080	204.4690	20.5900	62.8700
36.8750	22.6250	175.9480	0.0000	204.7400	20.1100	59.9350
37.1250	14.6250	181.3070	0.0000	210.3340	21.0040	62.3370
37.1250	14.8750	181.1440	0.0000	209.6460	20.9600	61.6390
37.1250	15.1250	181.2260	0.0000	209.3850	23.8680	78.6220
37.1250	21.6250	179.1370	0.0000	209.6190	24.3090	73.8730
37.1250	21.8750	177.6210	0.0000	207.6140	24.8890	73.7250
37.1250	22.1250	175.7630	0.0080	205.4750	26.9180	81.0860
37.1250	22.3750	173.7490	0.0170	203.2670	22.5400	67.9170
37.1250	22.6250	174.5020	0.0630	203.1580	29.5630	95.5000
37.3750	14.6250	181.0350	0.0000	209.8520	26.5390	79.5140
37.3750	14.8750	180.4450	0.0000	208.7930	25.7750	77.1690
37.3750	21.8750	175.7510	0.0020	205.1280	20.4330	60.0620
37.3750	22.1250	173.6290	0.0120	203.1960	22.3010	66.9740
37.3750	22.3750	171.6950	0.0740	201.6550	23.4260	70.3950
37.3750	22.6250	171.8910	0.0490	200.6530	29.1090	89.4400
37.6250	14.6250	178.5290	0.0000	207.5420	27.9090	83.6640
37.6250	14.8750	177.6760	0.0110	206.0940	27.7930	83.7210
37.6250	15.1250	176.4340	0.0060	204.1030	28.4390	98.8650
37.6250	21.6250	176.1510	0.0000	205.0600	23.6690	69.0660
37.6250	21.8750	174.7990	0.0010	204.0710	20.2940	59.3150
37.6250	22.1250	170.8350	0.3620	201.8230	23.8640	70.5970
37.6250	22.3750	169.5780	0.2060	200.2440	23.6400	69.1430
37.6250	22.6250	170.6290	0.0200	199.3560	21.7910	65.5800
37.8750	14.6250	175.7770	0.0350	204.2020	28.2700	84.5520
37.8750	14.8750	174.1600	0.1900	202.1530	23.9890	71.3700
37.8750	15.1250	172.5180	0.0570	199.5890	24.6890	78.5930
37.8750	21.3750	170.0110	0.0000	201.6110	18.7590	54.2140
37.8750	21.6250	174.5470	0.0000	202.8970	18.7590	53.7570
37.8750	21.8750	173.8050	0.0760	203.1120	20.5450	59.5220
37.8750	22.1250	171.2330	0.1420	200.8970	21.5680	63.1060

37.8750	22.3750	167.9400	0.6360	199.2340	22.3110	65.4970
37.8750	22.6250	170.0890	0.0430	198.1430	20.4260	60.6830
38.1250	14.8750	171.3840	0.0000	197.9310	28.1380	98.1760
38.1250	15.1250	169.7480	0.0000	196.0920	28.1000	97.6600
38.1250	15.3750	170.2570	0.0000	196.8470	22.9370	76.4410
38.1250	15.6250	171.5720	0.0000	198.5860	22.8230	75.8780
38.1250	15.8750	172.7460	0.0060	200.1120	20.2170	58.7740
38.1250	16.1250	173.3840	0.0000	200.8370	20.1680	71.5690
38.1250	20.6250	177.1220	0.0000	199.9280	21.4320	78.9790
38.1250	21.6250	169.8120	0.0000	201.3280	17.8530	51.1810
38.1250	21.8750	170.4800	0.0620	202.7700	19.6010	56.3000
38.1250	22.1250	168.5340	0.0980	200.8230	20.1570	59.4620
38.1250	22.3750	166.2760	0.1920	198.6730	25.1970	75.7300
38.3750	15.8750	170.1350	0.0000	196.7550	18.8130	53.3750
38.3750	16.1250	167.9300	0.0000	194.0160	21.3760	65.2150
38.3750	16.3750	170.1780	0.0000	196.8380	20.3910	71.5490
38.3750	21.6250	170.4260	0.0020	202.1110	18.2240	53.4960
38.3750	21.8750	171.1600	0.0100	203.1430	18.9610	55.1490
38.3750	22.1250	169.4950	0.0530	201.4300	19.6680	57.2440
38.3750	22.6250	165.2450	0.1320	196.5310	19.5690	58.7100
38.6250	16.1250	167.7120	0.0000	193.7550	23.7950	66.9650
38.6250	16.3750	168.2180	0.0030	194.3290	20.9510	63.1160
38.6250	21.1250	175.4600	0.0010	198.3130	19.1940	58.8830
38.6250	21.3750	177.6910	0.0000	200.8560	19.1500	57.9630
38.6250	21.6250	169.5320	0.0650	201.6850	25.0200	73.1470
38.6250	21.8750	166.0200	0.4120	198.7100	22.0650	65.0520
38.6250	22.1250	161.7450	0.8640	194.8440	22.7140	66.2660
38.6250	22.3750	159.3010	0.9230	191.7230	22.5090	67.4690
38.6250	22.6250	159.5770	0.5220	190.9570	21.1620	62.7950
38.8750	16.3750	166.3840	0.0000	192.3860	20.7860	59.7200
38.8750	16.6250	166.7860	0.0000	192.6680	22.7210	78.0220
38.8750	20.8750	174.7140	0.0000	197.3230	19.5550	60.5660
38.8750	21.1250	176.0190	0.0020	198.8430	19.4330	57.9770
38.8750	21.3750	177.7690	0.0230	201.0890	20.5230	61.5560
38.8750	21.6250	168.8680	0.2860	201.7960	27.7090	83.0790
38.8750	21.8750	160.6830	1.6370	194.7030	24.0240	70.1060
38.8750	22.1250	158.2920	0.3740	189.3950	22.6080	66.0730
38.8750	22.3750	158.4120	0.2530	189.0440	21.9260	64.4090
38.8750	22.6250	159.6320	0.1540	189.8860	21.0270	62.0720
39.1250	16.1250	159.9170	0.0010	190.5650	19.9190	56.1630
39.1250	16.3750	159.5430	0.0230	190.2550	23.8010	69.3280
39.1250	16.6250	163.6010	0.1260	189.4420	24.5210	71.5290
39.1250	16.8750	163.6300	0.0000	189.1110	21.4500	61.6540
39.1250	17.1250	124.5710	0.0000	127.6500	28.7310	97.0320

39.1250	20.6250	168.3300	0.0010	195.5380	19.3660	58.0160
39.1250	20.8750	168.8910	0.0010	196.3390	20.1620	58.9270
39.1250	21.1250	170.2220	0.0190	198.0790	26.1560	78.9060
39.1250	21.3750	168.2730	0.2830	196.9280	22.2090	65.5580
39.1250	21.6250	159.7550	1.4910	194.0990	29.2710	87.1740
39.1250	21.8750	157.4020	1.0440	190.1040	28.0920	82.7590
39.1250	22.1250	155.9630	0.2340	186.8870	25.3510	72.5380
39.1250	22.3750	157.2520	0.3400	188.5660	24.7190	69.5840
39.1250	22.6250	165.0300	0.5250	191.2410	25.2170	72.6010
39.3750	16.1250	159.5490	0.0000	189.9870	19.4670	53.9370
39.3750	16.3750	157.9390	0.0350	187.9460	23.3950	67.6050
39.3750	16.6250	160.5000	0.1480	185.3810	24.1920	70.5100
39.3750	16.8750	159.3830	0.0010	183.7250	19.7470	56.4770
39.3750	20.3750	164.3080	0.0030	194.7420	21.6730	79.1390
39.3750	20.6250	167.1020	0.0190	194.4130	20.6580	61.2900
39.3750	20.8750	167.0420	0.0900	195.0010	21.8410	63.9270
39.3750	21.1250	166.8960	0.1990	195.3070	23.0680	68.3850
39.3750	21.3750	162.8430	1.0980	192.6800	23.9410	69.8170
39.3750	21.6250	156.8690	0.7820	189.0290	28.2200	83.1710
39.3750	21.8750	157.6650	0.0840	188.0180	24.4000	68.8590
39.3750	22.1250	158.8720	0.0720	189.3480	22.6260	62.6570
39.3750	22.3750	160.4010	0.1030	191.1430	17.7560	48.5610
39.3750	22.6250	166.4960	0.0910	192.3650	18.7090	52.1450
39.6250	15.8750	160.9150	0.0000	192.0210	25.4070	74.7560
39.6250	16.1250	159.3660	0.0000	189.7020	19.8980	54.7240
39.6250	16.3750	158.1180	0.0000	187.7760	21.1730	60.3380
39.6250	16.6250	160.8690	0.0000	185.5440	22.7870	70.8040
39.6250	20.1250	163.5020	0.0020	193.5170	22.6860	76.5690
39.6250	20.3750	163.3530	0.0110	193.5730	21.3440	66.6470
39.6250	20.6250	165.7390	0.0390	192.8680	22.5360	66.6830
39.6250	20.8750	163.8660	0.1390	191.4540	22.9470	66.3230
39.6250	21.1250	156.4380	3.3130	188.3980	25.6170	73.6410
39.6250	21.3750	153.8800	3.4910	185.3360	25.6970	75.3170
39.6250	21.6250	154.2010	0.2360	184.4210	26.8160	77.1870
39.6250	21.8750	156.1000	0.1630	186.1060	19.2670	53.7830
39.6250	22.1250	159.5820	0.1150	190.0400	22.8410	63.6050
39.6250	22.3750	161.9070	0.0880	192.6450	22.8580	63.5940
39.6250	22.6250	166.9870	0.0610	192.7830	21.0520	68.3600
39.8750	15.8750	158.9750	0.0020	189.6550	25.7540	73.0230
39.8750	16.1250	158.3340	0.0580	188.7830	21.0190	59.5110
39.8750	16.3750	158.2540	0.0050	188.1050	20.0820	57.5630
39.8750	20.1250	161.9550	0.0060	191.8030	23.1210	71.1020
39.8750	20.3750	162.1850	0.0740	192.5720	22.7140	67.7300
39.8750	20.6250	163.8760	0.1000	191.0090	23.8090	69.1450

39.8750	20.8750	159.3890	1.6280	189.7540	25.8140	75.8170
39.8750	21.1250	151.9300	6.6090	184.9290	32.5990	96.1850
39.8750	21.3750	153.4980	0.7420	180.2880	24.6320	71.0390
39.8750	21.6250	152.6610	0.4480	182.9420	21.9100	61.8300
39.8750	21.8750	154.5360	1.2330	186.5330	26.6040	74.9330
39.8750	22.1250	158.7960	0.2380	189.5580	20.4960	57.3830
39.8750	22.3750	160.5120	0.4190	192.1530	20.7940	58.4350
39.8750	22.6250	164.7380	0.2910	190.2720	22.8740	79.3320
40.1250	15.3750	158.8520	0.0000	190.1000	21.4010	62.2570
40.1250	15.6250	156.9470	0.0040	187.9810	27.8650	81.2220
40.1250	15.8750	153.8850	0.3190	185.5720	29.4860	86.1070
40.1250	16.1250	154.8830	0.0870	185.7180	22.4310	64.9860
40.1250	16.3750	156.5510	0.0280	187.1180	20.2420	58.3730
40.1250	16.6250	158.6500	0.0040	188.0030	21.8510	73.5420
40.1250	18.1250	166.3730	0.0000	192.3060	26.5320	86.6710
40.1250	18.3750	167.0900	0.0000	192.7680	27.4190	97.2200
40.1250	19.8750	166.4780	0.1070	188.5470	29.8660	90.3340
40.1250	20.1250	166.1380	0.1110	188.3760	24.0230	70.8520
40.1250	20.3750	165.4440	0.4050	188.5220	24.8300	73.4130
40.1250	20.6250	165.3840	0.2870	188.0140	24.9580	74.1470
40.1250	20.8750	162.1320	1.9820	187.6670	32.0670	95.7180
40.1250	21.1250	157.6690	2.8180	183.0350	31.4430	92.8180
40.1250	21.3750	157.2680	0.5100	178.9410	23.0370	64.8050
40.1250	21.6250	151.3990	0.7180	181.6040	22.3800	62.8990
40.1250	21.8750	154.6220	0.5750	185.3720	22.4500	63.3990
40.1250	22.1250	153.6110	2.0240	185.8480	24.0300	68.2570
40.1250	22.3750	151.9730	2.2950	184.5560	29.9010	87.7960
40.3750	15.1250	158.5800	0.0010	189.6960	26.1340	76.0950
40.3750	15.3750	156.3560	0.1040	187.8290	23.4800	68.1090
40.3750	15.6250	153.9790	0.1570	185.2840	24.6630	71.6330
40.3750	15.8750	151.5480	0.4450	182.6590	30.3700	88.8960
40.3750	16.1250	152.9400	0.0920	183.3990	23.1780	67.7210
40.3750	16.3750	155.8420	0.0080	186.3380	25.7640	76.5310
40.3750	16.6250	158.6710	0.0020	188.1860	23.1150	68.7270
40.3750	17.3750	161.8910	0.0000	192.0470	25.6660	91.6540
40.3750	17.6250	165.7420	0.0030	191.7260	25.1220	79.8780
40.3750	17.8750	165.9640	0.0020	191.6240	26.4880	89.2970
40.3750	18.1250	165.9790	0.0000	191.6510	27.4490	96.5560
40.3750	19.6250	167.7050	0.0190	189.5950	28.5490	85.7260
40.3750	19.8750	166.9220	0.0600	188.9340	29.8490	89.1830
40.3750	20.1250	166.0310	0.1070	188.1600	30.6220	91.4870
40.3750	20.3750	164.3330	0.2680	186.6490	31.1830	94.1470
40.3750	20.6250	160.3720	1.2050	184.4740	31.8190	94.8480
40.3750	20.8750	154.2380	6.9900	181.6790	33.2360	98.6940

40.3750	21.1250	156.9190	1.0490	180.0220	24.4940	68.5940
40.3750	21.3750	159.0270	0.5330	180.8980	22.5790	62.5380
40.3750	21.6250	151.3540	1.6780	182.9750	23.0950	63.7030
40.3750	21.8750	153.3780	1.1450	184.5140	23.0790	64.8660
40.3750	22.1250	152.6610	1.6020	184.0370	24.1180	70.0450
40.3750	22.3750	153.0420	0.2270	182.3290	26.3270	75.1710
40.6250	14.8750	159.1700	0.0000	190.4510	21.3370	62.4900
40.6250	15.1250	158.2090	0.0140	189.5170	26.3840	74.8990
40.6250	15.3750	156.4240	0.0860	187.9080	23.2580	67.1870
40.6250	15.6250	154.0470	0.2330	185.5900	24.4000	70.6060
40.6250	15.8750	151.6580	0.4320	182.7400	24.0830	69.6140
40.6250	16.1250	152.7240	0.0490	182.8670	22.4150	65.4610
40.6250	16.3750	155.6170	0.0150	186.0650	25.6410	75.0860
40.6250	16.6250	158.8690	0.0120	188.5490	24.4650	71.5610
40.6250	16.8750	160.1180	0.0070	190.0230	20.2490	60.8990
40.6250	17.1250	160.4820	0.0050	190.4000	20.8490	62.8990
40.6250	17.3750	160.2460	0.0060	190.0060	25.5000	79.2510
40.6250	17.6250	164.5570	0.0090	190.1340	24.6060	75.2420
40.6250	17.8750	165.5360	0.0030	190.9840	27.7520	95.1790
40.6250	19.6250	169.6420	0.0050	191.6710	22.1680	65.0700
40.6250	19.8750	169.8550	0.0180	191.9020	28.2990	83.8620
40.6250	20.1250	168.2670	0.1460	190.7450	24.9330	72.5710
40.6250	20.3750	161.5960	1.5180	186.5770	27.1140	77.9640
40.6250	20.6250	158.1680	1.3440	182.5480	26.7380	76.4620
40.6250	20.8750	156.2670	1.3530	179.9230	25.6050	72.1780
40.6250	21.1250	155.4830	2.0140	179.1040	23.8310	66.4700
40.6250	21.3750	156.9570	2.3580	180.7730	23.4210	64.8680
40.6250	21.6250	151.6930	0.5870	181.9790	27.6740	77.8890
40.6250	21.8750	150.4410	2.9710	183.0230	24.5870	70.3580
40.6250	22.1250	154.3740	0.2250	183.8320	21.5710	61.5970
40.6250	22.3750	155.0620	0.0950	184.1690	19.5800	55.0450
40.6250	22.6250	161.9280	0.0790	184.8630	19.4270	56.1100
40.8750	14.6250	158.3620	0.0010	189.6430	19.9530	57.2140
40.8750	14.8750	157.5610	0.0780	189.0460	21.0380	59.9590
40.8750	15.1250	156.1580	0.1440	187.8580	21.8980	62.0090
40.8750	15.3750	154.5810	0.2130	186.3630	22.0820	61.8210
40.8750	15.6250	153.6170	0.1600	184.8870	22.4710	64.2680
40.8750	15.8750	153.1200	0.0760	183.7540	21.4620	60.7590
40.8750	16.1250	153.8550	0.0290	184.1230	25.8140	73.5580
40.8750	16.3750	155.9190	0.0250	186.4180	25.5040	74.2940
40.8750	16.6250	158.6840	0.0230	188.1360	24.7810	72.5930
40.8750	16.8750	159.3360	0.0200	188.8320	24.1760	69.9020
40.8750	17.1250	159.9290	0.0100	189.3900	27.7400	96.4290
40.8750	17.3750	118.2770	0.0060	124.4690	28.4920	97.3660

40.8750	19.6250	169.5220	0.0030	191.3190	21.1950	61.8100
40.8750	19.8750	169.9920	0.0090	191.8660	26.7830	78.0650
40.8750	20.1250	169.6660	0.0430	191.7320	28.0810	83.2510
40.8750	20.3750	161.0360	1.5650	186.1690	26.4870	75.4580
40.8750	20.6250	157.4660	0.8150	180.6430	25.4430	72.0110
40.8750	20.8750	156.0190	2.2510	180.3750	24.7780	70.2080
40.8750	21.1250	155.4460	4.1320	180.6320	24.5140	68.4710
40.8750	21.3750	157.6560	1.2380	180.8950	23.0500	62.7520
40.8750	21.6250	149.6750	1.6340	181.1780	23.0250	62.6530
40.8750	21.8750	150.6040	1.9980	182.2880	23.9040	67.3370
40.8750	22.1250	154.2400	0.1610	183.5540	21.1180	59.7660
40.8750	22.3750	155.3290	0.2370	185.1690	20.2370	56.0100
40.8750	22.6250	163.4830	0.0880	187.0360	18.5250	52.0150
41.1250	14.6250	159.9580	0.0420	191.5710	20.2630	57.2610
41.1250	14.8750	156.9700	0.0310	188.0990	20.2400	56.4780
41.1250	15.1250	154.0360	0.0730	185.0740	20.8720	58.1670
41.1250	15.3750	153.0520	0.1090	184.1230	20.8090	57.9120
41.1250	15.6250	158.5430	0.0230	183.7610	24.2510	66.9370
41.1250	15.8750	159.7990	0.0100	185.0040	23.4280	64.4700
41.1250	16.1250	161.1420	0.0180	186.3920	23.8280	68.0740
41.1250	16.3750	162.1020	0.0150	187.3130	24.3160	74.9030
41.1250	16.6250	163.0510	0.0030	188.2050	26.1560	94.1530
41.1250	16.8750	150.4090	0.0050	173.2500	26.6690	94.4850
41.1250	19.6250	163.6140	0.0070	189.7110	21.5160	63.0210
41.1250	19.8750	163.7160	0.0220	189.8590	27.1530	80.5650
41.1250	20.1250	163.0450	0.0950	189.5050	28.5190	83.7590
41.1250	20.3750	156.9160	0.9020	184.8780	26.1330	74.8050
41.1250	20.6250	149.3420	0.5870	180.3710	24.8060	71.6880
41.1250	20.8750	147.5190	1.8520	179.6740	24.3060	66.8750
41.1250	21.1250	146.8760	3.0860	179.6720	23.5500	63.2170
41.1250	21.3750	149.0490	0.6920	180.1830	21.2330	56.5160
41.1250	21.6250	153.3190	1.1820	180.8630	21.6050	57.5010
41.1250	21.8750	152.1870	3.5810	181.9940	24.3070	67.6760
41.1250	22.1250	154.1040	2.3170	183.1220	23.4960	64.6520
41.1250	22.3750	157.7430	0.7120	184.7000	20.7160	57.2160
41.1250	22.6250	160.3030	0.0980	186.6610	19.0370	52.9920
41.3750	14.6250	154.4730	0.3730	186.4360	21.4280	59.6140
41.3750	14.8750	153.4560	0.3480	185.0590	21.2140	58.9640
41.3750	15.1250	152.8970	0.3210	184.1370	25.9400	71.9350
41.3750	15.3750	154.0100	0.0200	184.2380	24.5950	68.1560
41.3750	15.6250	159.8100	0.0050	184.7160	22.9070	62.8350
41.3750	15.8750	161.8900	0.0020	187.0060	25.7740	88.2340
41.3750	16.1250	164.0090	0.0020	189.3160	25.7510	88.0460
41.3750	19.6250	161.3640	0.0090	186.8450	22.0030	64.5490

41.3750	19.8750	160.5070	0.0350	185.9710	28.2240	83.0460
41.3750	20.1250	156.0740	1.2480	184.1830	31.5060	93.4650
41.3750	20.3750	152.2850	2.7220	181.8960	32.6940	96.2180
41.3750	20.6250	144.9350	4.8660	179.1560	27.2000	76.7310
41.3750	20.8750	145.6900	2.5300	178.0290	25.3280	70.1900
41.3750	21.1250	145.3010	3.0430	177.8690	24.0820	65.0020
41.3750	21.3750	147.5720	0.7530	178.4510	21.4670	57.0930
41.3750	21.6250	151.8500	1.7420	179.8210	21.5430	56.5870
41.3750	21.8750	154.1300	0.7010	180.9260	20.7370	56.3800
41.3750	22.1250	154.2330	0.6690	181.2230	21.9380	60.8050
41.3750	22.3750	155.5520	0.4540	182.0930	20.4050	57.0370
41.3750	22.6250	157.2440	0.2910	184.3000	19.0540	51.6260
41.6250	14.6250	150.0310	0.3860	180.9730	22.0500	61.9830
41.6250	14.8750	151.5740	0.2270	182.2350	20.8450	58.1720
41.6250	15.1250	153.4600	0.0330	183.6350	24.6980	68.0360
41.6250	15.3750	154.4970	0.0090	184.4110	23.7100	66.4080
41.6250	15.6250	160.4670	0.0080	185.2540	23.2510	63.7300
41.6250	15.8750	161.8180	0.0080	186.7600	27.5470	95.4450
41.6250	19.6250	159.8680	0.0060	185.6460	22.2060	65.1670
41.6250	19.8750	159.3190	0.1450	185.4320	29.1730	87.2460
41.6250	20.1250	155.9700	0.7940	183.6850	31.3560	92.4940
41.6250	20.3750	153.3600	0.9680	181.2190	32.2070	94.0850
41.6250	20.6250	141.6730	12.4800	177.8690	28.8480	80.6690
41.6250	20.8750	142.0000	6.3140	175.8090	27.3460	76.1630
41.6250	21.1250	143.3160	4.4890	175.6100	27.1070	75.3830
41.6250	21.3750	142.5550	5.8610	176.0440	25.7150	69.8750
41.6250	21.6250	151.9380	0.6260	178.0340	21.1470	57.7960
41.6250	21.8750	153.8550	0.3160	179.7300	19.9630	54.4020
41.6250	22.1250	155.0380	0.2860	181.1790	20.6590	57.9330
41.6250	22.3750	155.8370	0.7310	183.3330	19.8600	52.3350
41.6250	22.6250	155.6250	0.7590	183.2440	20.6270	55.1160
41.8750	14.6250	147.2350	0.1710	176.7730	21.2290	59.9720
41.8750	14.8750	150.6330	0.0280	180.0660	24.4070	67.7960
41.8750	15.1250	153.7620	0.0070	183.5840	27.4580	95.3540
41.8750	15.3750	154.9370	0.0050	184.8110	27.1740	94.9380
41.8750	15.6250	160.9800	0.0200	185.7240	27.1240	95.1920
41.8750	15.8750	161.2950	0.0330	186.0500	23.8460	68.4230
41.8750	19.6250	158.8280	0.0300	185.0720	22.3770	65.4920
41.8750	19.8750	159.1770	0.1870	185.7860	28.9210	86.2400
41.8750	20.1250	153.9220	2.6700	183.4480	31.9600	94.8130
41.8750	20.3750	150.0870	4.4990	180.5210	32.7140	95.1010
41.8750	20.6250	134.3720	52.9790	176.1630	29.9920	83.3450
41.8750	20.8750	138.9250	6.6670	172.2850	27.1720	75.4680
41.8750	21.1250	141.2470	3.6150	172.7250	26.8930	75.1190

41.8750	21.3750	142.8070	2.3780	173.5150	25.1240	69.5720
41.8750	21.6250	150.3010	0.5160	175.3980	20.8090	57.0100
41.8750	21.8750	152.0740	0.3680	177.1550	19.8120	54.2140
41.8750	22.1250	154.6770	0.3500	180.7080	20.2080	54.9420
41.8750	22.3750	156.7500	0.6130	184.1520	20.3690	53.8950
41.8750	22.6250	154.2350	1.1940	182.4490	21.9140	58.4150
42.1250	14.6250	116.4120	0.0300	120.5180	30.1700	98.8350
42.1250	19.1250	155.0210	0.1010	180.6940	28.7230	86.3720
42.1250	19.3750	156.3680	0.0590	182.2700	27.9740	82.9990
42.1250	19.6250	157.7010	0.2220	184.3940	23.9000	69.3770
42.1250	19.8750	157.2840	0.8270	186.3730	30.2160	89.7280
42.1250	20.1250	154.0490	1.3340	183.1580	31.6220	94.6150
42.1250	20.3750	151.6060	0.9820	179.5880	30.0170	87.2740
42.1250	20.6250	142.6870	6.3360	174.8040	26.1290	73.3920
42.1250	20.8750	134.8900	19.6360	170.8900	28.0550	78.5980
42.1250	21.1250	141.6090	4.4060	170.9720	24.8660	68.1380
42.1250	21.3750	145.2510	1.5150	171.5590	22.6020	61.6120
42.1250	21.6250	148.4290	0.6140	173.5980	20.7210	55.8030
42.1250	21.8750	150.9330	0.4790	176.6300	21.9370	60.8210
42.1250	22.1250	151.6700	1.3530	178.8580	22.7130	61.7160
42.1250	22.3750	149.7930	3.6280	179.5680	24.5790	68.2950
42.1250	22.6250	147.1060	3.3010	178.7010	25.8810	71.6150
42.3750	18.8750	150.9440	0.9250	177.1960	30.7340	92.4320
42.3750	19.1250	153.8460	0.1220	179.1600	29.7620	89.0080
42.3750	19.3750	154.9200	0.1540	180.9030	24.6960	71.7930
42.3750	19.6250	143.4130	19.7100	181.5030	33.2350	98.0760
42.3750	19.8750	139.1830	32.1480	181.3320	34.1400	99.1800
42.3750	20.1250	147.3760	3.7500	178.6850	31.6490	93.1680
42.3750	20.3750	148.2410	0.9540	175.5610	22.3390	60.8660
42.3750	20.6250	147.4640	0.6510	173.3330	21.0610	56.5960
42.3750	20.8750	144.0430	2.2840	172.2390	22.4480	59.2660
42.3750	21.1250	144.0680	1.9020	171.5970	22.8670	63.0580
42.3750	21.3750	143.9800	1.5160	170.5340	22.5150	61.7640
42.3750	21.6250	145.9500	0.9800	171.3420	21.5100	57.5720
42.3750	21.8750	148.1980	1.0790	174.6970	22.2020	59.8030
42.3750	22.1250	146.3130	5.4630	176.4610	26.0050	71.6510
42.3750	22.3750	145.1120	4.9800	175.2820	26.8540	75.1970
42.3750	22.6250	145.6470	1.6620	174.1900	31.0790	90.9170
42.6250	18.3750	154.3030	0.1240	179.7190	30.8240	95.2990
42.6250	18.6250	149.6730	3.1300	178.9990	32.7410	101.3440
42.6250	18.8750	149.3890	2.7050	178.4220	33.0460	99.0260
42.6250	19.1250	149.9450	1.6580	178.9100	32.8580	97.5600
42.6250	19.3750	148.3290	3.5670	179.4560	28.9500	83.6710
42.6250	19.6250	132.3430	58.2930	177.8340	31.7710	89.1400

42.6250	19.8750	133.3250	39.2520	175.0850	35.9450	105.6990
42.6250	20.1250	125.2760	63.3710	172.7700	36.3990	104.1930
42.6250	20.3750	143.4420	1.1520	170.7310	23.0580	61.4610
42.6250	20.6250	144.2220	0.7780	169.7130	20.8730	54.5340
42.6250	20.8750	143.5980	1.3870	170.3860	22.1030	59.0550
42.6250	21.1250	144.0690	1.6040	170.7240	27.2560	74.8790
42.6250	21.3750	141.9430	3.2940	169.5550	22.6740	59.7420
42.6250	21.6250	142.7020	1.9210	168.8400	22.9810	61.7090
42.6250	21.8750	143.4200	2.5270	170.8060	24.4420	67.0020
42.6250	22.1250	143.4080	3.6600	172.4020	26.1730	73.3150
42.6250	22.3750	138.3740	9.4200	170.8570	29.0190	82.1430
42.6250	22.6250	139.4970	4.2940	169.6140	33.2680	98.3720
42.8750	17.6250	154.5530	0.0370	179.3700	27.3910	83.9540
42.8750	17.8750	154.7380	0.0940	179.9630	28.7010	86.1050
42.8750	18.1250	153.7120	0.5390	179.6830	30.5410	91.6570
42.8750	18.3750	152.2860	1.0350	179.0570	31.9360	94.8190
42.8750	18.6250	145.9450	6.2250	178.0340	33.8940	100.8280
42.8750	18.8750	144.2370	5.9110	176.7850	34.8660	104.2910
42.8750	19.1250	131.9930	46.0850	175.0140	36.0150	105.1640
42.8750	19.3750	132.0310	33.2780	172.4640	31.3890	89.8350
42.8750	19.6250	132.0760	24.8880	169.9400	29.9470	85.2270
42.8750	19.8750	136.6840	5.2980	168.2570	29.7980	85.2740
42.8750	20.1250	127.7100	28.2880	166.8660	31.5240	87.5580
42.8750	20.3750	131.4060	11.8300	165.6500	30.0080	83.5320
42.8750	20.6250	137.4640	2.7180	165.0530	25.4150	70.3780
42.8750	20.8750	140.4450	2.0160	167.2920	23.7480	64.9290
42.8750	21.1250	141.2510	2.8970	168.8200	22.8830	60.1320
42.8750	21.3750	140.9370	3.0880	168.1060	23.0490	61.7270
42.8750	21.6250	142.6130	1.3510	167.6720	21.7810	57.9640
42.8750	21.8750	143.0870	1.1760	168.9260	22.0650	58.5450
42.8750	22.1250	143.1510	1.9940	170.3340	24.1000	65.8420
42.8750	22.3750	140.0540	5.3510	169.4260	27.9900	78.4560
42.8750	22.6250	137.6860	4.2740	167.5730	27.7240	77.9300

Table 44: Twelve-year (2001-2012)mean values for each $0.2^{\circ}5x0.25^{\circ}$ grid point of the study region

latitude	longitude	Average layer 3 (40-100 cm) soil moisture [kg/m^2]	Average layer 4 (100-200 cm) soil moisture [kg/m^2] (soilm4)	Snowfall rate [kg/m^2/s]	Rainfall rate [kg/m^2/s]	Snowmelt [kg/m^2]
36.8750	14.6250	129.2670	245.4730	0.0000000	0.0000220	0.0000000
36.8750	14.8750	150.9300	309.1850	0.0000000	0.0000250	0.0000000
36.8750	15.1250	196.2070	329.3150	0.0000000	0.0000230	0.0000000
36.8750	21.8750	182.2830	306.5680	0.0000000	0.0000230	0.0000000
36.8750	22.3750	114.3430	176.4610	0.0000000	0.0000250	0.0000500
36.8750	22.6250	106.3390	205.2580	0.0000000	0.0000240	0.0000000
37.1250	14.6250	114.7770	246.4850	0.0000000	0.0000240	0.0000020
37.1250	14.8750	113.2200	246.9150	0.0000000	0.0000260	0.0000040
37.1250	15.1250	160.3070	269.7100	0.0000000	0.0000230	0.0000000
37.1250	21.6250	135.5120	271.0440	0.0000000	0.0000240	0.0000000
37.1250	21.8750	133.4660	242.7370	0.0000000	0.0000260	0.0000020
37.1250	22.1250	149.8280	254.1010	0.0000000	0.0000310	0.0000500
37.1250	22.3750	126.2510	215.4500	0.0000000	0.0000340	0.0000940
37.1250	22.6250	190.1080	318.3440	0.0000000	0.0000330	0.0003040
37.3750	14.6250	145.3820	314.1730	0.0000000	0.0000270	0.0000040
37.3750	14.8750	139.2930	280.7940	0.0000000	0.0000270	0.0000010
37.3750	21.8750	108.0170	197.4920	0.0000000	0.0000270	0.0000140
37.3750	22.1250	123.9750	194.3940	0.0000000	0.0000340	0.0000680
37.3750	22.3750	131.9230	222.6590	0.0000000	0.0000380	0.0003120
37.3750	22.6250	169.8640	253.7230	0.0000000	0.0000370	0.0002050
37.6250	14.6250	156.1480	322.9280	0.0000000	0.0000320	0.0000130
37.6250	14.8750	156.2900	297.7990	0.0000000	0.0000310	0.0004520
37.6250	15.1250	200.2810	336.0400	0.0000000	0.0000260	0.0004530
37.6250	21.6250	123.7640	254.2870	0.0000000	0.0000210	0.0000000
37.6250	21.8750	106.5430	178.0910	0.0000000	0.0000240	0.0000110
37.6250	22.1250	134.5090	202.9320	0.0000010	0.0000270	0.0008180
37.6250	22.3750	130.1800	232.2840	0.0000010	0.0000290	0.0007300
37.6250	22.6250	120.0020	207.7290	0.0000000	0.0000270	0.0001210
37.8750	14.6250	158.3240	294.1830	0.0000000	0.0000300	0.0002210
37.8750	14.8750	136.5780	237.9450	0.0000010	0.0000320	0.0021700
37.8750	15.1250	158.5670	265.2080	0.0000000	0.0000280	0.0012570
37.8750	21.3750	98.7440	227.8830	0.0000000	0.0000200	0.0000000
37.8750	21.6250	96.0890	206.1260	0.0000000	0.0000200	0.0000090
37.8750	21.8750	107.5560	198.2390	0.0000000	0.0000220	0.0002630
37.8750	22.1250	115.3370	202.4370	0.0000010	0.0000240	0.0004270
37.8750	22.3750	120.3430	210.4440	0.0000020	0.0000230	0.0015380

37.8750	22.6250	107.9160	184.1460	0.0000000	0.0000210	0.0002190
38.1250	14.8750	198.7580	333.1470	0.0000000	0.0000250	0.0000000
38.1250	15.1250	197.6480	331.2880	0.0000000	0.0000230	0.0000000
38.1250	15.3750	155.5300	261.4300	0.0000000	0.0000190	0.0000000
38.1250	15.6250	154.3410	259.4460	0.0000000	0.0000190	0.0000000
38.1250	15.8750	106.0620	145.4190	0.0000000	0.0000190	0.0000260
38.1250	16.1250	145.9830	245.8320	0.0000000	0.0000190	0.0000000
38.1250	20.6250	160.8430	270.6450	0.0000000	0.0000280	0.0000000
38.1250	21.6250	89.7620	178.4490	0.0000000	0.0000180	0.0000030
38.1250	21.8750	100.9250	187.1190	0.0000000	0.0000180	0.0001860
38.1250	22.1250	105.9760	164.1250	0.0000000	0.0000190	0.0002830
38.1250	22.3750	136.4580	219.8040	0.0000010	0.0000190	0.0005200
38.3750	15.8750	91.5090	114.3710	0.0000000	0.0000190	0.0000000
38.3750	16.1250	124.1830	187.6900	0.0000000	0.0000190	0.0000010
38.3750	16.3750	145.8750	245.6340	0.0000000	0.0000170	0.0000000
38.3750	21.6250	93.4670	167.4330	0.0000000	0.0000180	0.0000090
38.3750	21.8750	96.6910	169.9490	0.0000000	0.0000180	0.0000420
38.3750	22.1250	100.4550	181.0880	0.0000000	0.0000180	0.0001860
38.3750	22.6250	104.7170	198.8090	0.0000010	0.0000170	0.0003610
38.6250	16.1250	114.0740	218.2380	0.0000000	0.0000180	0.0000010
38.6250	16.3750	118.5220	176.7520	0.0000000	0.0000180	0.0000120
38.6250	21.1250	108.7550	214.5030	0.0000000	0.0000210	0.0000070
38.6250	21.3750	105.7670	198.0220	0.0000000	0.0000200	0.0000050
38.6250	21.6250	131.9860	235.5390	0.0000000	0.0000210	0.0002190
38.6250	21.8750	120.0210	167.5700	0.0000010	0.0000210	0.0010010
38.6250	22.1250	121.4010	193.7840	0.0000030	0.0000200	0.0018990
38.6250	22.3750	125.5210	191.6870	0.0000030	0.0000190	0.0020550
38.6250	22.6250	113.3800	189.3300	0.0000010	0.0000190	0.0012110
38.8750	16.3750	107.4440	174.1630	0.0000000	0.0000210	0.0000010
38.8750	16.6250	158.2520	265.6870	0.0000000	0.0000210	0.0000000
38.8750	20.8750	112.8540	221.3430	0.0000000	0.0000220	0.0000010
38.8750	21.1250	105.3000	185.6760	0.0000000	0.0000230	0.0000110
38.8750	21.3750	112.5620	153.9770	0.0000000	0.0000240	0.0000890
38.8750	21.6250	155.1970	222.1620	0.0000010	0.0000250	0.0008220
38.8750	21.8750	129.4740	186.8770	0.0000040	0.0000230	0.0028450
38.8750	22.1250	121.6700	198.1210	0.0000010	0.0000250	0.0011280
38.8750	22.3750	118.1810	204.4930	0.0000010	0.0000230	0.0008010
38.8750	22.6250	112.2340	185.7020	0.0000010	0.0000220	0.0004360
39.1250	16.1250	97.2350	158.1980	0.0000000	0.0000230	0.0000030
39.1250	16.3750	129.4560	192.3930	0.0000000	0.0000290	0.0000610
39.1250	16.6250	135.2110	204.9280	0.0000010	0.0000300	0.0002710
39.1250	16.8750	113.2980	225.9400	0.0000000	0.0000250	0.0000000
39.1250	17.1250	196.3420	329.2020	0.0000000	0.0000190	0.0000000
39.1250	20.6250	105.7890	209.3770	0.0000000	0.0000230	0.0000030

39.1250	20.8750	108.7160	227.9240	0.0000000	0.0000240	0.0000030
39.1250	21.1250	146.1520	207.8840	0.0000000	0.0000260	0.0000590
39.1250	21.3750	121.8500	189.2790	0.0000010	0.0000260	0.0007590
39.1250	21.6250	162.1400	233.1820	0.0000040	0.0000220	0.0025120
39.1250	21.8750	151.8400	211.9310	0.0000030	0.0000210	0.0020470
39.1250	22.1250	127.5220	222.1220	0.0000010	0.0000190	0.0007710
39.1250	22.3750	120.4790	273.2430	0.0000010	0.0000170	0.0010500
39.1250	22.6250	127.9520	238.0370	0.0000020	0.0000170	0.0015010
39.3750	16.1250	91.0720	165.2820	0.0000000	0.0000230	0.0000030
39.3750	16.3750	124.6970	192.9110	0.0000000	0.0000280	0.0000920
39.3750	16.6250	132.4170	198.8010	0.0000010	0.0000290	0.0002690
39.3750	16.8750	99.2460	149.2520	0.0000000	0.0000240	0.0000050
39.3750	20.3750	161.2230	271.3040	0.0000000	0.0000250	0.0000090
39.3750	20.6250	112.7590	212.5870	0.0000000	0.0000260	0.0000630
39.3750	20.8750	118.7210	223.9560	0.0000010	0.0000280	0.0003140
39.3750	21.1250	128.6970	200.2440	0.0000010	0.0000300	0.0006850
39.3750	21.3750	129.7940	200.5310	0.0000030	0.0000260	0.0024300
39.3750	21.6250	153.9270	239.5750	0.0000020	0.0000230	0.0018800
39.3750	21.8750	119.9800	287.2380	0.0000000	0.0000180	0.0003970
39.3750	22.1250	105.4950	296.8020	0.0000000	0.0000150	0.0003520
39.3750	22.3750	81.0260	232.4140	0.0000000	0.0000140	0.0004550
39.3750	22.6250	89.4090	222.8830	0.0000010	0.0000160	0.0003950
39.6250	15.8750	134.3340	224.9810	0.0000000	0.0000190	0.0000020
39.6250	16.1250	92.0190	202.1420	0.0000000	0.0000210	0.0000020
39.6250	16.3750	107.5670	200.9060	0.0000000	0.0000230	0.0000020
39.6250	16.6250	138.7720	222.0360	0.0000000	0.0000220	0.0000000
39.6250	20.1250	155.0470	266.1670	0.0000000	0.0000290	0.0000030
39.6250	20.3750	126.8070	215.1720	0.0000000	0.0000270	0.0000350
39.6250	20.6250	125.0040	196.1220	0.0000000	0.0000290	0.0001610
39.6250	20.8750	123.7270	245.8020	0.0000010	0.0000310	0.0005860
39.6250	21.1250	136.1510	236.5490	0.0000050	0.0000280	0.0045090
39.6250	21.3750	140.2540	210.0370	0.0000050	0.0000240	0.0044470
39.6250	21.6250	140.3090	278.6730	0.0000010	0.0000220	0.0013240
39.6250	21.8750	92.8380	214.9430	0.0000010	0.0000160	0.0009370
39.6250	22.1250	107.1770	275.7470	0.0000010	0.0000140	0.0006970
39.6250	22.3750	107.7020	291.9260	0.0000000	0.0000150	0.0006440
39.6250	22.6250	133.8360	247.2330	0.0000000	0.0000170	0.0005980
39.8750	15.8750	126.8810	233.9510	0.0000000	0.0000220	0.0000100
39.8750	16.1250	104.4480	173.8320	0.0000000	0.0000200	0.0001290
39.8750	16.3750	101.3350	180.5620	0.0000000	0.0000180	0.0000220
39.8750	20.1250	136.3370	262.5120	0.0000000	0.0000330	0.0000300
39.8750	20.3750	126.5700	200.0580	0.0000000	0.0000300	0.0002720
39.8750	20.6250	130.0530	220.0150	0.0000010	0.0000320	0.0003790
39.8750	20.8750	142.2460	216.1480	0.0000040	0.0000290	0.0028400

39.8750	21.1250	181.0760	278.3760	0.0000060	0.0000250	0.0054470
39.8750	21.3750	132.7900	198.1490	0.0000020	0.0000250	0.0017400
39.8750	21.6250	112.0640	204.6370	0.0000010	0.0000210	0.0015730
39.8750	21.8750	130.2130	243.2960	0.0000030	0.0000160	0.0022590
39.8750	22.1250	100.9960	228.7320	0.0000010	0.0000180	0.0009580
39.8750	22.3750	102.8120	223.6740	0.0000010	0.0000190	0.0013820
39.8750	22.6250	161.1370	270.8680	0.0000010	0.0000190	0.0016990
40.1250	15.3750	112.5180	179.2060	0.0000000	0.0000250	0.0000030
40.1250	15.6250	147.1820	254.4530	0.0000000	0.0000280	0.0000150
40.1250	15.8750	159.3740	261.5810	0.0000010	0.0000270	0.0021320
40.1250	16.1250	117.8630	186.3560	0.0000000	0.0000230	0.0011470
40.1250	16.3750	103.1000	192.4510	0.0000000	0.0000180	0.0006590
40.1250	16.6250	149.6640	251.5520	0.0000000	0.0000130	0.0004840
40.1250	18.1250	171.1780	306.3730	0.0000000	0.0000230	0.0000000
40.1250	18.3750	197.0540	330.3890	0.0000000	0.0000240	0.0000000
40.1250	19.8750	173.5950	317.2160	0.0000000	0.0000380	0.0014840
40.1250	20.1250	133.6300	261.6820	0.0000000	0.0000390	0.0018070
40.1250	20.3750	137.8160	230.7700	0.0000010	0.0000360	0.0022470
40.1250	20.6250	140.4070	215.1750	0.0000010	0.0000350	0.0017320
40.1250	20.8750	180.1840	277.4170	0.0000040	0.0000290	0.0042150
40.1250	21.1250	171.5110	257.6690	0.0000040	0.0000240	0.0047450
40.1250	21.3750	118.0150	229.8400	0.0000010	0.0000230	0.0021090
40.1250	21.6250	111.4960	221.7830	0.0000020	0.0000200	0.0019140
40.1250	21.8750	113.3080	237.8600	0.0000020	0.0000210	0.0020200
40.1250	22.1250	123.2730	235.5410	0.0000030	0.0000230	0.0029900
40.1250	22.3750	160.7080	259.9010	0.0000040	0.0000220	0.0038150
40.3750	15.1250	136.0990	244.5440	0.0000000	0.0000250	0.0000040
40.3750	15.3750	126.4950	214.2750	0.0000000	0.0000290	0.0014220
40.3750	15.6250	134.6980	234.4350	0.0000000	0.0000320	0.0015620
40.3750	15.8750	165.7830	282.6950	0.0000010	0.0000300	0.0017230
40.3750	16.1250	124.9930	202.6980	0.0000000	0.0000250	0.0007740
40.3750	16.3750	139.0600	281.3000	0.0000000	0.0000190	0.0003650
40.3750	16.6250	121.1840	248.2680	0.0000000	0.0000140	0.0003140
40.3750	17.3750	185.5130	313.4340	0.0000000	0.0000170	0.0000000
40.3750	17.6250	153.2940	289.0490	0.0000000	0.0000190	0.0004440
40.3750	17.8750	178.8160	311.4650	0.0000000	0.0000210	0.0002680
40.3750	18.1250	195.4960	328.3350	0.0000000	0.0000230	0.0000000
40.3750	19.6250	162.0170	317.7600	0.0000000	0.0000340	0.0010360
40.3750	19.8750	169.7490	323.0660	0.0000000	0.0000380	0.0011960
40.3750	20.1250	175.1000	317.0350	0.0000000	0.0000400	0.0011400
40.3750	20.3750	180.2370	292.6330	0.0000010	0.0000380	0.0013140
40.3750	20.6250	176.3560	302.7400	0.0000030	0.0000330	0.0030320
40.3750	20.8750	180.9090	279.7040	0.0000060	0.0000250	0.0059870
40.3750	21.1250	123.2530	232.3530	0.0000030	0.0000240	0.0030660

40.3750	21.3750	111.8920	240.6700	0.0000020	0.0000210	0.0017260
40.3750	21.6250	112.0730	239.2320	0.0000030	0.0000190	0.0025720
40.3750	21.8750	114.7750	253.2750	0.0000020	0.0000210	0.0020940
40.3750	22.1250	128.2400	197.3260	0.0000030	0.0000220	0.0024980
40.3750	22.3750	132.4970	280.2900	0.0000010	0.0000210	0.0010560
40.6250	14.8750	114.4380	237.2190	0.0000000	0.0000220	0.0000000
40.6250	15.1250	132.8400	311.9260	0.0000000	0.0000240	0.0009190
40.6250	15.3750	123.9430	220.3800	0.0000000	0.0000280	0.0013470
40.6250	15.6250	132.2020	230.1860	0.0000010	0.0000290	0.0017560
40.6250	15.8750	129.6330	227.1450	0.0000010	0.0000270	0.0016010
40.6250	16.1250	120.1600	211.2220	0.0000000	0.0000230	0.0005290
40.6250	16.3750	133.9260	281.2440	0.0000000	0.0000190	0.0003940
40.6250	16.6250	125.9040	293.3020	0.0000000	0.0000160	0.0003980
40.6250	16.8750	113.0150	224.9120	0.0000000	0.0000150	0.0003530
40.6250	17.1250	118.0370	226.8360	0.0000000	0.0000180	0.0004530
40.6250	17.3750	149.2400	273.7690	0.0000000	0.0000190	0.0004230
40.6250	17.6250	137.0550	211.6330	0.0000000	0.0000210	0.0005700
40.6250	17.8750	192.5510	325.0360	0.0000000	0.0000210	0.0005340
40.6250	19.6250	120.7430	260.5900	0.0000000	0.0000290	0.0005720
40.6250	19.8750	155.8890	311.9530	0.0000000	0.0000320	0.0005570
40.6250	20.1250	137.5560	248.8120	0.0000010	0.0000340	0.0010820
40.6250	20.3750	143.7050	251.2560	0.0000030	0.0000310	0.0036810
40.6250	20.6250	140.0330	252.0590	0.0000030	0.0000300	0.0035890
40.6250	20.8750	130.5430	245.2630	0.0000030	0.0000260	0.0033230
40.6250	21.1250	114.8340	222.4350	0.0000030	0.0000210	0.0030300
40.6250	21.3750	111.4720	190.3460	0.0000040	0.0000180	0.0031460
40.6250	21.6250	135.6960	312.2490	0.0000020	0.0000200	0.0019290
40.6250	21.8750	123.8980	214.8540	0.0000040	0.0000180	0.0031810
40.6250	22.1250	108.8900	210.3540	0.0000010	0.0000210	0.0010630
40.6250	22.3750	97.6440	235.6180	0.0000000	0.0000180	0.0006630
40.6250	22.6250	100.9900	228.4470	0.0000000	0.0000140	0.0006680
40.8750	14.6250	100.9220	190.9190	0.0000000	0.0000200	0.0000040
40.8750	14.8750	107.1280	202.8800	0.0000000	0.0000210	0.0012620
40.8750	15.1250	111.2610	222.1530	0.0000000	0.0000220	0.0017750
40.8750	15.3750	110.0060	247.0460	0.0000010	0.0000230	0.0017280
40.8750	15.6250	116.2490	223.9210	0.0000000	0.0000230	0.0016450
40.8750	15.8750	107.7150	241.3950	0.0000000	0.0000210	0.0010530
40.8750	16.1250	127.6170	302.2480	0.0000000	0.0000190	0.0006370
40.8750	16.3750	130.7080	299.3450	0.0000000	0.0000170	0.0004560
40.8750	16.6250	126.7330	269.7480	0.0000000	0.0000170	0.0003760
40.8750	16.8750	119.2440	247.6490	0.0000000	0.0000170	0.0004550
40.8750	17.1250	195.2830	327.3180	0.0000000	0.0000190	0.0004800
40.8750	17.3750	197.1200	330.4050	0.0000000	0.0000200	0.0003380
40.8750	19.6250	113.3460	254.9800	0.0000000	0.0000250	0.0003330

40.8750	19.8750	142.0140	319.8720	0.0000000	0.0000270	0.0004980
40.8750	20.1250	154.0570	284.0610	0.0000000	0.0000290	0.0006560
40.8750	20.3750	135.7280	246.1970	0.0000030	0.0000270	0.0037220
40.8750	20.6250	130.4270	257.9330	0.0000020	0.0000280	0.0028920
40.8750	20.8750	121.8670	236.3370	0.0000040	0.0000230	0.0034010
40.8750	21.1250	114.8610	196.9190	0.0000050	0.0000180	0.0032950
40.8750	21.3750	110.5400	222.5970	0.0000020	0.0000180	0.0027130
40.8750	21.6250	107.5670	248.6710	0.0000030	0.0000180	0.0024220
40.8750	21.8750	118.0340	212.3550	0.0000030	0.0000190	0.0028720
40.8750	22.1250	104.4070	219.5690	0.0000010	0.0000210	0.0006580
40.8750	22.3750	98.5740	217.8860	0.0000010	0.0000170	0.0008360
40.8750	22.6250	90.5180	224.2180	0.0000000	0.0000140	0.0005850
41.1250	14.6250	100.7960	206.5070	0.0000000	0.0000200	0.0010160
41.1250	14.8750	98.5890	239.8330	0.0000000	0.0000200	0.0006580
41.1250	15.1250	101.7990	240.5620	0.0000000	0.0000200	0.0009640
41.1250	15.3750	100.8110	238.0310	0.0000000	0.0000190	0.0011800
41.1250	15.6250	112.0520	297.8260	0.0000000	0.0000170	0.0006170
41.1250	15.8750	106.0850	292.8590	0.0000000	0.0000160	0.0004440
41.1250	16.1250	115.4840	276.0680	0.0000000	0.0000150	0.0005930
41.1250	16.3750	136.0090	240.1930	0.0000000	0.0000150	0.0005480
41.1250	16.6250	190.5830	319.2450	0.0000000	0.0000160	0.0002580
41.1250	16.8750	191.2830	320.4290	0.0000000	0.0000170	0.0004020
41.1250	19.6250	116.3750	247.4200	0.0000000	0.0000270	0.0006060
41.1250	19.8750	148.5340	279.0010	0.0000000	0.0000270	0.0007110
41.1250	20.1250	154.4300	295.5510	0.0000000	0.0000290	0.0010920
41.1250	20.3750	136.7510	236.6640	0.0000020	0.0000290	0.0028810
41.1250	20.6250	129.1800	239.9580	0.0000020	0.0000280	0.0022990
41.1250	20.8750	114.4690	212.4960	0.0000030	0.0000230	0.0031440
41.1250	21.1250	105.4290	190.2590	0.0000040	0.0000180	0.0033610
41.1250	21.3750	95.3480	229.9850	0.0000020	0.0000180	0.0023350
41.1250	21.6250	97.3590	209.6730	0.0000020	0.0000180	0.0018630
41.1250	21.8750	114.9780	165.8540	0.0000040	0.0000180	0.0031810
41.1250	22.1250	107.7750	167.0140	0.0000040	0.0000190	0.0029430
41.1250	22.3750	96.3470	131.9370	0.0000020	0.0000180	0.0014090
41.1250	22.6250	87.3820	204.7760	0.0000000	0.0000160	0.0006780
41.3750	14.6250	105.7150	234.1140	0.0000010	0.0000210	0.0019190
41.3750	14.8750	103.7760	243.9640	0.0000010	0.0000190	0.0017290
41.3750	15.1250	122.9630	301.7210	0.0000010	0.0000180	0.0014580
41.3750	15.3750	115.4630	298.4340	0.0000000	0.0000170	0.0006580
41.3750	15.6250	103.6760	272.2090	0.0000000	0.0000150	0.0002990
41.3750	15.8750	177.5650	304.6860	0.0000000	0.0000140	0.0002830
41.3750	16.1250	177.3200	303.2500	0.0000000	0.0000140	0.0002410
41.3750	19.6250	120.1990	250.9820	0.0000000	0.0000300	0.0006770
41.3750	19.8750	153.6820	308.3050	0.0000000	0.0000310	0.0009230

41.3750	20.1250	169.7280	308.1580	0.0000030	0.0000320	0.0036750
41.3750	20.3750	173.4260	315.6540	0.0000040	0.0000320	0.0051670
41.3750	20.6250	133.1250	230.1940	0.0000060	0.0000300	0.0054240
41.3750	20.8750	122.3480	211.0030	0.0000040	0.0000260	0.0035700
41.3750	21.1250	110.4480	201.0550	0.0000040	0.0000200	0.0034970
41.3750	21.3750	96.8600	230.3910	0.0000020	0.0000180	0.0022050
41.3750	21.6250	95.0020	190.8710	0.0000030	0.0000150	0.0020720
41.3750	21.8750	95.0100	177.7960	0.0000010	0.0000170	0.0014880
41.3750	22.1250	107.4160	206.7080	0.0000010	0.0000190	0.0017100
41.3750	22.3750	95.5750	112.0980	0.0000010	0.0000180	0.0011080
41.3750	22.6250	83.7020	149.1740	0.0000010	0.0000170	0.0010020
41.6250	14.6250	110.1060	239.5960	0.0000010	0.0000230	0.0016130
41.6250	14.8750	101.8360	242.9960	0.0000000	0.0000200	0.0013270
41.6250	15.1250	115.1210	297.9620	0.0000000	0.0000170	0.0006380
41.6250	15.3750	112.4720	246.2350	0.0000000	0.0000160	0.0003900
41.6250	15.6250	105.2280	290.9240	0.0000000	0.0000150	0.0006360
41.6250	15.8750	193.1730	323.6540	0.0000000	0.0000150	0.0006270
41.6250	19.6250	121.7850	254.0210	0.0000000	0.0000310	0.0005050
41.6250	19.8750	163.2910	277.8940	0.0000000	0.0000340	0.0012820
41.6250	20.1250	168.7040	322.3580	0.0000020	0.0000370	0.0028440
41.6250	20.3750	173.1240	341.5090	0.0000020	0.0000390	0.0036530
41.6250	20.6250	143.0410	239.8670	0.0000090	0.0000340	0.0086250
41.6250	20.8750	134.7860	228.6030	0.0000060	0.0000310	0.0058340
41.6250	21.1250	136.3950	221.5630	0.0000050	0.0000240	0.0037390
41.6250	21.3750	119.7470	211.8440	0.0000050	0.0000160	0.0035030
41.6250	21.6250	100.8650	203.8810	0.0000010	0.0000150	0.0013800
41.6250	21.8750	94.3310	230.1880	0.0000010	0.0000140	0.0010890
41.6250	22.1250	102.8480	212.6160	0.0000010	0.0000150	0.0010070
41.6250	22.3750	83.7430	165.7070	0.0000010	0.0000150	0.0011880
41.6250	22.6250	86.9880	136.0910	0.0000020	0.0000170	0.0011640
41.8750	14.6250	105.7580	225.7760	0.0000000	0.0000210	0.0012980
41.8750	14.8750	116.1840	272.8290	0.0000000	0.0000180	0.0006160
41.8750	15.1250	193.1680	323.8470	0.0000000	0.0000160	0.0003450
41.8750	15.3750	192.2780	322.2350	0.0000000	0.0000150	0.0004630
41.8750	15.6250	192.7290	322.9380	0.0000000	0.0000160	0.0008250
41.8750	15.8750	116.5690	201.2660	0.0000000	0.0000180	0.0012170
41.8750	19.6250	122.9000	254.8120	0.0000000	0.0000310	0.0008020
41.8750	19.8750	160.3020	282.1510	0.0000010	0.0000330	0.0011030
41.8750	20.1250	172.0100	294.9050	0.0000040	0.0000330	0.0043280
41.8750	20.3750	169.6860	329.2830	0.0000050	0.0000330	0.0062470
41.8750	20.6250	145.1870	264.3280	0.0000140	0.0000250	0.0132320
41.8750	20.8750	132.6070	244.1440	0.0000060	0.0000310	0.0068480
41.8750	21.1250	135.4590	246.8150	0.0000040	0.0000250	0.0040640
41.8750	21.3750	122.3960	212.1870	0.0000040	0.0000180	0.0029660

41.8750	21.6250	99.1070	214.4960	0.0000010	0.0000150	0.0013350
41.8750	21.8750	93.3450	213.5210	0.0000010	0.0000130	0.0010500
41.8750	22.1250	93.9050	227.4420	0.0000010	0.0000140	0.0009920
41.8750	22.3750	86.2310	176.2770	0.0000010	0.0000160	0.0011720
41.8750	22.6250	92.3090	166.4190	0.0000020	0.0000180	0.0015730
42.1250	14.6250	199.7280	334.5110	0.0000000	0.0000180	0.0007240
42.1250	19.1250	165.4280	291.0470	0.0000000	0.0000380	0.0012580
42.1250	19.3750	156.7050	317.5630	0.0000000	0.0000370	0.0013340
42.1250	19.6250	130.1110	256.2750	0.0000010	0.0000350	0.0013510
42.1250	19.8750	166.2080	294.3590	0.0000020	0.0000330	0.0027980
42.1250	20.1250	176.8650	267.1850	0.0000020	0.0000310	0.0030370
42.1250	20.3750	157.0750	307.7150	0.0000020	0.0000280	0.0025540
42.1250	20.6250	126.8860	250.0100	0.0000050	0.0000250	0.0051590
42.1250	20.8750	136.9590	226.9700	0.0000090	0.0000200	0.0061460
42.1250	21.1250	115.6710	209.5760	0.0000040	0.0000210	0.0040310
42.1250	21.3750	103.4890	190.1550	0.0000020	0.0000180	0.0021320
42.1250	21.6250	94.2780	220.4000	0.0000010	0.0000150	0.0013110
42.1250	21.8750	107.9020	236.9940	0.0000010	0.0000150	0.0012650
42.1250	22.1250	104.2660	212.4500	0.0000020	0.0000160	0.0014260
42.1250	22.3750	108.3990	146.4400	0.0000040	0.0000180	0.0024960
42.1250	22.6250	122.2540	189.9600	0.0000040	0.0000190	0.0026570
42.3750	18.8750	177.9830	293.5610	0.0000020	0.0000430	0.0024230
42.3750	19.1250	171.0230	288.1170	0.0000000	0.0000440	0.0014710
42.3750	19.3750	136.5050	264.3770	0.0000010	0.0000430	0.0012870
42.3750	19.6250	175.5100	320.5670	0.0000100	0.0000320	0.0073730
42.3750	19.8750	176.8400	309.6170	0.0000110	0.0000280	0.0096540
42.3750	20.1250	166.1560	295.1950	0.0000040	0.0000280	0.0045300
42.3750	20.3750	104.1240	221.8070	0.0000020	0.0000230	0.0025410
42.3750	20.6250	95.0620	220.5980	0.0000010	0.0000190	0.0018430
42.3750	20.8750	95.3970	216.9300	0.0000030	0.0000170	0.0027780
42.3750	21.1250	104.4570	227.0880	0.0000030	0.0000170	0.0027560
42.3750	21.3750	102.6620	220.5540	0.0000020	0.0000170	0.0022720
42.3750	21.6250	93.6310	175.3300	0.0000020	0.0000170	0.0016780
42.3750	21.8750	97.9630	188.5810	0.0000020	0.0000180	0.0017450
42.3750	22.1250	118.3250	171.5460	0.0000050	0.0000190	0.0027590
42.3750	22.3750	127.7360	186.6330	0.0000050	0.0000220	0.0034440
42.3750	22.6250	162.3060	255.0310	0.0000030	0.0000230	0.0021470
42.6250	18.3750	187.8010	332.1630	0.0000000	0.0000460	0.0013960
42.6250	18.6250	197.5780	330.8340	0.0000030	0.0000470	0.0046640
42.6250	18.8750	188.6190	297.5070	0.0000040	0.0000490	0.0045830
42.6250	19.1250	185.3250	313.3310	0.0000030	0.0000480	0.0040580
42.6250	19.3750	155.9860	257.9330	0.0000040	0.0000450	0.0049000
42.6250	19.6250	159.6350	264.6100	0.0000150	0.0000320	0.0125200
42.6250	19.8750	196.5570	307.8710	0.0000120	0.0000300	0.0101630

42.6250	20.1250	188.1740	300.0170	0.0000140	0.0000200	0.0108750
42.6250	20.3750	103.2380	239.6170	0.0000020	0.0000230	0.0028190
42.6250	20.6250	90.0640	205.0890	0.0000020	0.0000180	0.0016760
42.6250	20.8750	95.9760	238.3600	0.0000020	0.0000150	0.0022170
42.6250	21.1250	120.1290	301.6900	0.0000020	0.0000160	0.0021340
42.6250	21.3750	92.5510	157.2650	0.0000030	0.0000160	0.0022360
42.6250	21.6250	98.3360	169.0540	0.0000030	0.0000180	0.0023630
42.6250	21.8750	111.1400	170.7260	0.0000030	0.0000200	0.0025980
42.6250	22.1250	126.2340	190.3700	0.0000040	0.0000250	0.0031010
42.6250	22.3750	142.3920	208.6200	0.0000070	0.0000240	0.0045950
42.6250	22.6250	181.1700	277.2090	0.0000040	0.0000250	0.0027320
42.8750	17.6250	159.0720	257.8330	0.0000000	0.0000310	0.0007010
42.8750	17.8750	163.3120	302.9310	0.0000000	0.0000350	0.0010600
42.8750	18.1250	175.3950	298.2370	0.0000010	0.0000410	0.0017520
42.8750	18.3750	180.9640	316.1270	0.0000020	0.0000480	0.0029630
42.8750	18.6250	188.2890	328.5010	0.0000050	0.0000490	0.0059170
42.8750	18.8750	196.3100	322.3580	0.0000060	0.0000490	0.0064100
42.8750	19.1250	193.8750	331.2910	0.0000150	0.0000370	0.0115540
42.8750	19.3750	163.2590	263.0340	0.0000120	0.0000350	0.0108520
42.8750	19.6250	151.7610	234.6430	0.0000100	0.0000320	0.0081990
42.8750	19.8750	156.6260	251.7730	0.0000060	0.0000320	0.0053770
42.8750	20.1250	158.2620	250.6130	0.0000100	0.0000230	0.0079470
42.8750	20.3750	147.2400	238.4510	0.0000070	0.0000210	0.0055400
42.8750	20.6250	118.3400	186.9850	0.0000040	0.0000200	0.0031960
42.8750	20.8750	106.2510	224.8070	0.0000030	0.0000190	0.0023980
42.8750	21.1250	94.6190	192.9200	0.0000030	0.0000170	0.0027400
42.8750	21.3750	95.1980	123.0420	0.0000040	0.0000170	0.0024770
42.8750	21.6250	89.9870	126.2190	0.0000020	0.0000170	0.0017760
42.8750	21.8750	93.6520	170.8300	0.0000020	0.0000190	0.0020680
42.8750	22.1250	109.4760	170.2860	0.0000030	0.0000210	0.0024840
42.8750	22.3750	139.1000	212.1010	0.0000050	0.0000230	0.0037510
42.8750	22.6250	141.0830	223.5920	0.0000040	0.0000240	0.0031290

Table 45: Twelve-year (2001-2012)mean values for each $0.2^{\circ}5x0.25^{\circ}$ grid point of the study region

latitude	longitude	Subsurface runoff [kg/m ² /s]	Surface runoff [kg/m ² /s]	Near surface wind magnitude [m/s]
36.8750	14.6250	0.0000050	0.0000006	3.9960
36.8750	14.8750	0.0000050	0.0000012	3.9480
36.8750	15.1250	0.0000070	0.0000011	4.3090
36.8750	21.8750	0.0000040	0.0000007	4.5180
36.8750	22.3750	0.0000030	0.0000003	3.7730
36.8750	22.6250	0.0000030	0.0000003	3.7680
37.1250	14.6250	0.0000050	0.0000006	3.2700
37.1250	14.8750	0.0000060	0.0000008	3.3460
37.1250	15.1250	0.0000090	0.0000007	3.8630
37.1250	21.6250	0.0000030	0.0000005	4.2820
37.1250	21.8750	0.0000030	0.0000006	3.5920
37.1250	22.1250	0.0000050	0.0000009	3.1770
37.1250	22.3750	0.0000090	0.0000007	2.9650
37.1250	22.6250	0.0000100	0.0000013	3.0400
37.3750	14.6250	0.0000060	0.0000013	2.9270
37.3750	14.8750	0.0000040	0.0000012	3.0930
37.3750	21.8750	0.0000060	0.0000004	3.2570
37.3750	22.1250	0.0000090	0.0000006	2.8100
37.3750	22.3750	0.0000130	0.0000009	2.6290
37.3750	22.6250	0.0000090	0.0000013	2.7260
37.6250	14.6250	0.0000100	0.0000017	2.9470
37.6250	14.8750	0.0000080	0.0000017	3.1060
37.6250	15.1250	0.0000100	0.0000013	3.5940
37.6250	21.6250	0.0000020	0.0000003	3.7660
37.6250	21.8750	0.0000030	0.0000002	3.1280
37.6250	22.1250	0.0000060	0.0000004	2.7720
37.6250	22.3750	0.0000080	0.0000005	2.5990
37.6250	22.6250	0.0000060	0.0000004	2.6290
37.8750	14.6250	0.0000080	0.0000013	3.3880
37.8750	14.8750	0.0000120	0.0000010	3.4620
37.8750	15.1250	0.0000120	0.0000008	3.6820
37.8750	21.3750	0.0000020	0.0000002	4.1940
37.8750	21.6250	0.0000020	0.0000002	3.6380
37.8750	21.8750	0.0000030	0.0000002	3.1600
37.8750	22.1250	0.0000040	0.0000002	2.9260
37.8750	22.3750	0.0000050	0.0000003	2.7780
37.8750	22.6250	0.0000030	0.0000002	2.7220

38.1250	14.8750	0.0000080	0.0000010	4.1460
38.1250	15.1250	0.0000070	0.0000007	4.1760
38.1250	15.3750	0.0000060	0.0000003	4.2760
38.1250	15.6250	0.0000060	0.0000003	4.3450
38.1250	15.8750	0.0000010	0.0000003	4.2820
38.1250	16.1250	0.0000070	0.0000003	4.3710
38.1250	20.6250	0.0000120	0.0000005	5.1140
38.1250	21.6250	0.0000010	0.0000002	3.5930
38.1250	21.8750	0.0000020	0.0000002	3.2730
38.1250	22.1250	0.0000020	0.0000001	3.1950
38.1250	22.3750	0.0000020	0.0000003	3.1250
38.3750	15.8750	0.0000000	0.0000001	4.0860
38.3750	16.1250	0.0000020	0.0000002	3.9610
38.3750	16.3750	0.0000070	0.0000001	4.1350
38.3750	21.6250	0.0000010	0.0000001	3.4200
38.3750	21.8750	0.0000020	0.0000001	3.2790
38.3750	22.1250	0.0000020	0.0000001	3.3040
38.3750	22.6250	0.0000030	0.0000001	3.0730
38.6250	16.1250	0.0000000	0.0000002	3.7360
38.6250	16.3750	0.0000010	0.0000001	3.7280
38.6250	21.1250	0.0000030	0.0000002	3.7510
38.6250	21.3750	0.0000030	0.0000002	3.3590
38.6250	21.6250	0.0000020	0.0000003	3.1410
38.6250	21.8750	0.0000030	0.0000002	3.0910
38.6250	22.1250	0.0000030	0.0000002	3.0590
38.6250	22.3750	0.0000030	0.0000002	3.0140
38.6250	22.6250	0.0000020	0.0000002	2.9840
38.8750	16.3750	0.0000020	0.0000002	3.4480
38.8750	16.6250	0.0000080	0.0000003	3.7630
38.8750	20.8750	0.0000040	0.0000003	4.0470
38.8750	21.1250	0.0000030	0.0000002	3.5310
38.8750	21.3750	0.0000030	0.0000002	3.1660
38.8750	21.6250	0.0000030	0.0000004	2.9830
38.8750	21.8750	0.0000060	0.0000003	2.9110
38.8750	22.1250	0.0000050	0.0000002	2.8560
38.8750	22.3750	0.0000040	0.0000002	2.8400
38.8750	22.6250	0.0000020	0.0000002	2.8920
39.1250	16.1250	0.0000030	0.0000001	3.5180
39.1250	16.3750	0.0000060	0.0000003	3.3580
39.1250	16.6250	0.0000080	0.0000004	3.5500
39.1250	16.8750	0.0000050	0.0000003	4.0380
39.1250	17.1250	0.0000060	0.0000005	4.9040
39.1250	20.6250	0.0000040	0.0000003	4.3130
39.1250	20.8750	0.0000050	0.0000003	3.7140

39.1250	21.1250	0.0000030	0.0000005	3.2950
39.1250	21.3750	0.0000060	0.0000003	2.9920
39.1250	21.6250	0.0000040	0.0000004	2.7960
39.1250	21.8750	0.0000020	0.0000003	2.6840
39.1250	22.1250	0.0000010	0.0000002	2.6240
39.1250	22.3750	0.0000010	0.0000002	2.6480
39.1250	22.6250	0.0000010	0.0000002	2.7850
39.3750	16.1250	0.0000030	0.0000001	3.4990
39.3750	16.3750	0.0000060	0.0000003	3.3640
39.3750	16.6250	0.0000070	0.0000004	3.5580
39.3750	16.8750	0.0000030	0.0000002	4.0110
39.3750	20.3750	0.0000120	0.0000005	4.2680
39.3750	20.6250	0.0000060	0.0000003	3.7750
39.3750	20.8750	0.0000080	0.0000004	3.3590
39.3750	21.1250	0.0000070	0.0000004	3.0560
39.3750	21.3750	0.0000070	0.0000003	2.8140
39.3750	21.6250	0.0000030	0.0000004	2.6160
39.3750	21.8750	0.0000020	0.0000002	2.4890
39.3750	22.1250	0.0000010	0.0000002	2.4550
39.3750	22.3750	0.0000010	0.0000001	2.5220
39.3750	22.6250	0.0000020	0.0000001	2.6980
39.6250	15.8750	0.0000010	0.0000002	3.9090
39.6250	16.1250	0.0000020	0.0000002	3.5230
39.6250	16.3750	0.0000030	0.0000002	3.4540
39.6250	16.6250	0.0000040	0.0000003	3.7700
39.6250	20.1250	0.0000120	0.0000006	4.2210
39.6250	20.3750	0.0000060	0.0000004	3.6930
39.6250	20.6250	0.0000060	0.0000004	3.3580
39.6250	20.8750	0.0000100	0.0000005	3.0750
39.6250	21.1250	0.0000110	0.0000005	2.8690
39.6250	21.3750	0.0000070	0.0000004	2.6700
39.6250	21.6250	0.0000040	0.0000004	2.5040
39.6250	21.8750	0.0000020	0.0000001	2.4200
39.6250	22.1250	0.0000010	0.0000002	2.4300
39.6250	22.3750	0.0000010	0.0000002	2.5360
39.6250	22.6250	0.0000040	0.0000002	2.7800
39.8750	15.8750	0.0000010	0.0000002	3.6350
39.8750	16.1250	0.0000010	0.0000002	3.4250
39.8750	16.3750	0.0000010	0.0000002	3.5110
39.8750	20.1250	0.0000130	0.0000006	3.7000
39.8750	20.3750	0.0000070	0.0000004	3.2920
39.8750	20.6250	0.0000080	0.0000004	3.0770
39.8750	20.8750	0.0000090	0.0000005	2.8880
39.8750	21.1250	0.0000070	0.0000007	2.7380

39.8750	21.3750	0.0000050	0.0000003	2.5710
39.8750	21.6250	0.0000030	0.0000002	2.4620
39.8750	21.8750	0.0000010	0.0000002	2.4380
39.8750	22.1250	0.0000030	0.0000001	2.4900
39.8750	22.3750	0.0000030	0.0000002	2.6310
39.8750	22.6250	0.0000100	0.0000003	2.9330
40.1250	15.3750	0.0000030	0.0000003	3.5250
40.1250	15.6250	0.0000040	0.0000005	3.3780
40.1250	15.8750	0.0000050	0.0000005	3.2670
40.1250	16.1250	0.0000020	0.0000002	3.2470
40.1250	16.3750	0.0000010	0.0000002	3.4380
40.1250	16.6250	0.0000030	0.0000002	3.9040
40.1250	18.1250	0.0000030	0.0000005	5.3210
40.1250	18.3750	0.0000060	0.0000007	5.4630
40.1250	19.8750	0.0000130	0.0000014	3.7660
40.1250	20.1250	0.0000170	0.0000008	3.2850
40.1250	20.3750	0.0000140	0.0000007	3.0380
40.1250	20.6250	0.0000120	0.0000005	2.8870
40.1250	20.8750	0.0000090	0.0000008	2.7460
40.1250	21.1250	0.0000060	0.0000006	2.6330
40.1250	21.3750	0.0000060	0.0000002	2.5170
40.1250	21.6250	0.0000040	0.0000002	2.4700
40.1250	21.8750	0.0000040	0.0000002	2.4830
40.1250	22.1250	0.0000060	0.0000003	2.5500
40.1250	22.3750	0.0000040	0.0000005	2.6860
40.3750	15.1250	0.0000020	0.0000004	3.5540
40.3750	15.3750	0.0000080	0.0000004	3.2370
40.3750	15.6250	0.0000100	0.0000005	3.1460
40.3750	15.8750	0.0000080	0.0000007	3.1210
40.3750	16.1250	0.0000040	0.0000003	3.1720
40.3750	16.3750	0.0000010	0.0000003	3.3510
40.3750	16.6250	0.0000000	0.0000002	3.6720
40.3750	17.3750	0.0000020	0.0000004	4.5620
40.3750	17.6250	0.0000010	0.0000004	4.6050
40.3750	17.8750	0.0000030	0.0000005	4.7430
40.3750	18.1250	0.0000050	0.0000006	5.0750
40.3750	19.6250	0.0000090	0.0000012	4.0390
40.3750	19.8750	0.0000130	0.0000014	3.3850
40.3750	20.1250	0.0000140	0.0000015	3.0240
40.3750	20.3750	0.0000120	0.0000012	2.8420
40.3750	20.6250	0.0000110	0.0000011	2.7370
40.3750	20.8750	0.0000080	0.0000008	2.6260
40.3750	21.1250	0.0000070	0.0000003	2.5490
40.3750	21.3750	0.0000050	0.0000002	2.4820

40.3750	21.6250	0.0000050	0.0000002	2.4730
40.3750	21.8750	0.0000050	0.0000002	2.4980
40.3750	22.1250	0.0000040	0.0000003	2.5470
40.3750	22.3750	0.0000020	0.0000003	2.6110
40.6250	14.8750	0.0000040	0.0000002	3.6420
40.6250	15.1250	0.0000040	0.0000005	3.3000
40.6250	15.3750	0.0000070	0.0000004	3.1140
40.6250	15.6250	0.0000080	0.0000004	3.0590
40.6250	15.8750	0.0000070	0.0000003	3.0830
40.6250	16.1250	0.0000030	0.0000002	3.1780
40.6250	16.3750	0.0000010	0.0000002	3.3570
40.6250	16.6250	0.0000010	0.0000002	3.5860
40.6250	16.8750	0.0000010	0.0000001	3.8800
40.6250	17.1250	0.0000020	0.0000002	4.1560
40.6250	17.3750	0.0000010	0.0000004	4.3440
40.6250	17.6250	0.0000000	0.0000003	4.5570
40.6250	17.8750	0.0000050	0.0000005	4.8780
40.6250	19.6250	0.0000080	0.0000005	3.6650
40.6250	19.8750	0.0000080	0.0000009	3.1460
40.6250	20.1250	0.0000120	0.0000006	2.8610
40.6250	20.3750	0.0000130	0.0000007	2.7200
40.6250	20.6250	0.0000120	0.0000006	2.6470
40.6250	20.8750	0.0000090	0.0000004	2.5590
40.6250	21.1250	0.0000050	0.0000002	2.5110
40.6250	21.3750	0.0000030	0.0000002	2.4760
40.6250	21.6250	0.0000030	0.0000003	2.4850
40.6250	21.8750	0.0000030	0.0000003	2.5000
40.6250	22.1250	0.0000030	0.0000002	2.5030
40.6250	22.3750	0.0000020	0.0000002	2.4850
40.6250	22.6250	0.0000010	0.0000001	2.4780
40.8750	14.6250	0.0000020	0.0000002	3.3860
40.8750	14.8750	0.0000030	0.0000002	3.2160
40.8750	15.1250	0.0000040	0.0000002	3.1060
40.8750	15.3750	0.0000050	0.0000003	3.0410
40.8750	15.6250	0.0000040	0.0000002	3.0430
40.8750	15.8750	0.0000040	0.0000002	3.1290
40.8750	16.1250	0.0000020	0.0000003	3.2770
40.8750	16.3750	0.0000010	0.0000002	3.4950
40.8750	16.6250	0.0000010	0.0000002	3.7450
40.8750	16.8750	0.0000010	0.0000002	4.0640
40.8750	17.1250	0.0000050	0.0000005	4.4260
40.8750	17.3750	0.0000060	0.0000005	4.7910
40.8750	19.6250	0.0000050	0.0000004	3.5750
40.8750	19.8750	0.0000060	0.0000007	3.0730

40.8750	20.1250	0.0000060	0.0000007	2.8130
40.8750	20.3750	0.0000100	0.0000006	2.6840
40.8750	20.6250	0.0000100	0.0000004	2.6240
40.8750	20.8750	0.0000070	0.0000004	2.5420
40.8750	21.1250	0.0000030	0.0000002	2.5100
40.8750	21.3750	0.0000040	0.0000002	2.4920
40.8750	21.6250	0.0000040	0.0000002	2.5120
40.8750	21.8750	0.0000030	0.0000002	2.5150
40.8750	22.1250	0.0000030	0.0000002	2.4830
40.8750	22.3750	0.0000020	0.0000001	2.4220
40.8750	22.6250	0.0000010	0.0000001	2.3810
41.1250	14.6250	0.0000030	0.0000002	3.0170
41.1250	14.8750	0.0000030	0.0000002	3.0070
41.1250	15.1250	0.0000030	0.0000002	3.0010
41.1250	15.3750	0.0000030	0.0000002	3.0130
41.1250	15.6250	0.0000010	0.0000002	3.0890
41.1250	15.8750	0.0000010	0.0000002	3.2480
41.1250	16.1250	0.0000010	0.0000002	3.5010
41.1250	16.3750	0.0000000	0.0000002	3.8320
41.1250	16.6250	0.0000020	0.0000003	4.1830
41.1250	16.8750	0.0000030	0.0000003	4.6500
41.1250	19.6250	0.0000060	0.0000004	3.6070
41.1250	19.8750	0.0000040	0.0000006	3.0920
41.1250	20.1250	0.0000070	0.0000007	2.8320
41.1250	20.3750	0.0000090	0.0000005	2.6970
41.1250	20.6250	0.0000090	0.0000004	2.6330
41.1250	20.8750	0.0000070	0.0000002	2.5420
41.1250	21.1250	0.0000040	0.0000001	2.5120
41.1250	21.3750	0.0000050	0.0000001	2.5030
41.1250	21.6250	0.0000030	0.0000001	2.5270
41.1250	21.8750	0.0000020	0.0000002	2.5270
41.1250	22.1250	0.0000030	0.0000002	2.4900
41.1250	22.3750	0.0000010	0.0000001	2.4360
41.1250	22.6250	0.0000010	0.0000001	2.4030
41.3750	14.6250	0.0000040	0.0000002	2.9520
41.3750	14.8750	0.0000040	0.0000002	2.9850
41.3750	15.1250	0.0000020	0.0000002	3.0190
41.3750	15.3750	0.0000010	0.0000002	3.0820
41.3750	15.6250	0.0000010	0.0000001	3.2100
41.3750	15.8750	0.0000020	0.0000002	3.4760
41.3750	16.1250	0.0000010	0.0000002	3.9680
41.3750	19.6250	0.0000080	0.0000005	3.5860
41.3750	19.8750	0.0000080	0.0000009	3.1350
41.3750	20.1250	0.0000110	0.0000012	2.8860

41.3750	20.3750	0.0000130	0.0000013	2.7510
41.3750	20.6250	0.0000140	0.0000005	2.6830
41.3750	20.8750	0.0000090	0.0000002	2.5740
41.3750	21.1250	0.0000050	0.0000002	2.5290
41.3750	21.3750	0.0000050	0.0000001	2.5080
41.3750	21.6250	0.0000020	0.0000001	2.5210
41.3750	21.8750	0.0000020	0.0000001	2.5190
41.3750	22.1250	0.0000020	0.0000002	2.5110
41.3750	22.3750	0.0000010	0.0000001	2.5150
41.3750	22.6250	0.0000010	0.0000001	2.5260
41.6250	14.6250	0.0000050	0.0000002	2.9880
41.6250	14.8750	0.0000040	0.0000002	3.0820
41.6250	15.1250	0.0000010	0.0000002	3.1950
41.6250	15.3750	0.0000000	0.0000002	3.3220
41.6250	15.6250	0.0000000	0.0000002	3.4920
41.6250	15.8750	0.0000040	0.0000003	3.7870
41.6250	19.6250	0.0000100	0.0000006	3.4730
41.6250	19.8750	0.0000090	0.0000010	3.1010
41.6250	20.1250	0.0000150	0.0000014	2.9100
41.6250	20.3750	0.0000190	0.0000015	2.8010
41.6250	20.6250	0.0000200	0.0000008	2.7150
41.6250	20.8750	0.0000140	0.0000005	2.5850
41.6250	21.1250	0.0000060	0.0000003	2.5330
41.6250	21.3750	0.0000020	0.0000002	2.4970
41.6250	21.6250	0.0000020	0.0000001	2.4830
41.6250	21.8750	0.0000010	0.0000001	2.4850
41.6250	22.1250	0.0000010	0.0000001	2.5240
41.6250	22.3750	0.0000010	0.0000001	2.5760
41.6250	22.6250	0.0000010	0.0000001	2.6140
41.8750	14.6250	0.0000030	0.0000002	3.1600
41.8750	14.8750	0.0000010	0.0000002	3.4550
41.8750	15.1250	0.0000040	0.0000003	3.7330
41.8750	15.3750	0.0000030	0.0000003	3.9660
41.8750	15.6250	0.0000040	0.0000003	4.1700
41.8750	15.8750	0.0000000	0.0000002	4.4110
41.8750	19.6250	0.0000120	0.0000007	3.2290
41.8750	19.8750	0.0000090	0.0000010	3.0120
41.8750	20.1250	0.0000120	0.0000013	2.9180
41.8750	20.3750	0.0000160	0.0000015	2.8320
41.8750	20.6250	0.0000180	0.0000017	2.7270
41.8750	20.8750	0.0000160	0.0000006	2.5850
41.8750	21.1250	0.0000080	0.0000004	2.5250
41.8750	21.3750	0.0000030	0.0000002	2.4900
41.8750	21.6250	0.0000020	0.0000001	2.4770

41.8750	21.8750	0.0000010	0.0000001	2.5060
41.8750	22.1250	0.0000010	0.0000001	2.5670
41.8750	22.3750	0.0000010	0.0000001	2.6270
41.8750	22.6250	0.0000010	0.0000001	2.6660
42.1250	14.6250	0.0000080	0.0000004	3.5500
42.1250	19.1250	0.0000130	0.0000017	3.7350
42.1250	19.3750	0.0000140	0.0000016	3.2440
42.1250	19.6250	0.0000150	0.0000009	3.0190
42.1250	19.8750	0.0000110	0.0000013	2.9150
42.1250	20.1250	0.0000080	0.0000010	2.8530
42.1250	20.3750	0.0000090	0.0000008	2.7610
42.1250	20.6250	0.0000100	0.0000006	2.6590
42.1250	20.8750	0.0000060	0.0000009	2.5420
42.1250	21.1250	0.0000050	0.0000003	2.4910
42.1250	21.3750	0.0000020	0.0000001	2.4800
42.1250	21.6250	0.0000020	0.0000001	2.5080
42.1250	21.8750	0.0000020	0.0000001	2.5650
42.1250	22.1250	0.0000010	0.0000001	2.6100
42.1250	22.3750	0.0000010	0.0000003	2.6420
42.1250	22.6250	0.0000010	0.0000003	2.6610
42.3750	18.8750	0.0000180	0.0000023	3.7670
42.3750	19.1250	0.0000160	0.0000022	3.4000
42.3750	19.3750	0.0000210	0.0000013	3.1040
42.3750	19.6250	0.0000140	0.0000021	3.0130
42.3750	19.8750	0.0000120	0.0000021	2.9380
42.3750	20.1250	0.0000090	0.0000010	2.8260
42.3750	20.3750	0.0000070	0.0000002	2.6810
42.3750	20.6250	0.0000050	0.0000001	2.5680
42.3750	20.8750	0.0000030	0.0000002	2.4970
42.3750	21.1250	0.0000030	0.0000002	2.4840
42.3750	21.3750	0.0000020	0.0000002	2.5090
42.3750	21.6250	0.0000010	0.0000001	2.5730
42.3750	21.8750	0.0000020	0.0000001	2.6410
42.3750	22.1250	0.0000020	0.0000004	2.6760
42.3750	22.3750	0.0000030	0.0000004	2.6990
42.3750	22.6250	0.0000010	0.0000004	2.7030
42.6250	18.3750	0.0000230	0.0000027	3.8300
42.6250	18.6250	0.0000270	0.0000033	3.5370
42.6250	18.8750	0.0000230	0.0000030	3.3170
42.6250	19.1250	0.0000230	0.0000030	3.1740
42.6250	19.3750	0.0000230	0.0000015	3.0830
42.6250	19.6250	0.0000200	0.0000014	3.0310
42.6250	19.8750	0.0000150	0.0000019	2.9190
42.6250	20.1250	0.0000100	0.0000012	2.7910

42.6250	20.3750	0.0000070	0.0000002	2.6570
42.6250	20.6250	0.0000030	0.0000001	2.5570
42.6250	20.8750	0.0000020	0.0000001	2.5070
42.6250	21.1250	0.0000010	0.0000002	2.5150
42.6250	21.3750	0.0000010	0.0000001	2.5520
42.6250	21.6250	0.0000010	0.0000001	2.6150
42.6250	21.8750	0.0000020	0.0000002	2.6840
42.6250	22.1250	0.0000050	0.0000003	2.7220
42.6250	22.3750	0.0000060	0.0000009	2.7370
42.6250	22.6250	0.0000030	0.0000006	2.7390
42.8750	17.6250	0.0000060	0.0000009	4.4600
42.8750	17.8750	0.0000120	0.0000013	3.9620
42.8750	18.1250	0.0000160	0.0000018	3.6440
42.8750	18.3750	0.0000220	0.0000026	3.4280
42.8750	18.6250	0.0000260	0.0000033	3.2880
42.8750	18.8750	0.0000260	0.0000032	3.1830
42.8750	19.1250	0.0000200	0.0000028	3.1030
42.8750	19.3750	0.0000210	0.0000014	3.0320
42.8750	19.6250	0.0000160	0.0000007	2.9590
42.8750	19.8750	0.0000140	0.0000006	2.8500
42.8750	20.1250	0.0000100	0.0000005	2.7550
42.8750	20.3750	0.0000060	0.0000004	2.6750
42.8750	20.6250	0.0000030	0.0000002	2.6200
42.8750	20.8750	0.0000020	0.0000002	2.5840
42.8750	21.1250	0.0000020	0.0000001	2.5790
42.8750	21.3750	0.0000000	0.0000001	2.5930
42.8750	21.6250	0.0000010	0.0000001	2.6300
42.8750	21.8750	0.0000010	0.0000001	2.6840
42.8750	22.1250	0.0000020	0.0000002	2.7330
42.8750	22.3750	0.0000030	0.0000004	2.7740
42.8750	22.6250	0.0000040	0.0000003	2.8020

Table 47: Twelve-year (2001-2012)mean values for each $0.2^{\circ}5x0.25^{\circ}$ grid point of the study region

latitude	longitude	Rain Rate (mm/hr)	Rain Rate (mm/year)
37.0000	14.0000	0.0683	598.3080
37.0000	14.2500	0.0675	591.3000
37.0000	14.5000	0.0675	591.3000
37.0000	14.7500	0.0677	593.0520
37.0000	15.0000	0.0681	596.5560
37.0000	15.2500	0.0697	610.5720
37.0000	15.5000	0.0703	615.8280
37.0000	15.7500	0.0706	618.4560
37.0000	16.0000	0.0654	572.9040
37.0000	16.2500	0.0655	573.7800
37.0000	16.5000	0.0649	568.5240
37.0000	16.7500	0.0648	567.6480
37.0000	17.0000	0.0695	608.8200
37.0000	17.2500	0.0721	631.5960
37.0000	17.5000	0.0780	683.2800
37.0000	17.7500	0.0827	724.4520
37.0000	18.0000	0.0864	756.8640
37.0000	18.2500	0.0889	778.7640
37.0000	18.5000	0.0900	788.4000
37.0000	18.7500	0.0937	820.8120
37.0000	19.0000	0.0974	853.2240
37.0000	19.2500	0.0948	830.4480
37.0000	19.5000	0.0945	827.8200
37.0000	19.7500	0.0887	777.0120
37.0000	20.0000	0.0992	868.9920
37.0000	20.2500	0.0990	867.2400
37.0000	20.5000	0.0940	823.4400
37.0000	20.7500	0.0905	792.7800
37.0000	21.0000	0.0926	811.1760
37.0000	21.2500	0.0900	788.4000
37.0000	21.5000	0.0868	760.3680
37.0000	21.7500	0.0862	755.1120
37.0000	22.0000	0.0845	740.2200
37.0000	22.2500	0.0854	748.1040
37.0000	22.5000	0.0818	716.5680
37.2500	14.0000	0.0710	621.9600
37.2500	14.2500	0.0694	607.9440

37.2500	14.5000	0.0680	595.6800
37.2500	14.7500	0.0677	593.0520
37.2500	15.0000	0.0679	594.8040
37.2500	15.2500	0.0703	615.8280
37.2500	15.5000	0.0711	622.8360
37.2500	15.7500	0.0698	611.4480
37.2500	16.0000	0.0653	572.0280
37.2500	16.2500	0.0666	583.4160
37.2500	16.5000	0.0666	583.4160
37.2500	16.7500	0.0667	584.2920
37.2500	17.0000	0.0737	645.6120
37.2500	17.2500	0.0778	681.5280
37.2500	17.5000	0.0815	713.9400
37.2500	17.7500	0.0838	734.0880
37.2500	18.0000	0.0866	758.6160
37.2500	18.2500	0.0879	770.0040
37.2500	18.5000	0.0925	810.3000
37.2500	18.7500	0.0936	819.9360
37.2500	19.0000	0.0998	874.2480
37.2500	19.2500	0.1004	879.5040
37.2500	19.5000	0.0942	825.1920
37.2500	19.7500	0.0877	768.2520
37.2500	20.0000	0.0982	860.2320
37.2500	20.2500	0.0952	833.9520
37.2500	20.5000	0.0922	807.6720
37.2500	20.7500	0.0886	776.1360
37.2500	21.0000	0.0928	812.9280
37.2500	21.2500	0.0913	799.7880
37.2500	21.5000	0.0916	802.4160
37.2500	21.7500	0.0913	799.7880
37.2500	22.0000	0.0884	774.3840
37.2500	22.2500	0.0837	733.2120
37.2500	22.5000	0.0792	693.7920
37.5000	14.0000	0.0724	634.2240
37.5000	14.2500	0.0708	620.2080
37.5000	14.5000	0.0696	609.6960
37.5000	14.7500	0.0713	624.5880
37.5000	15.0000	0.0708	620.2080
37.5000	15.2500	0.0717	628.0920
37.5000	15.5000	0.0730	639.4800
37.5000	15.7500	0.0713	624.5880
37.5000	16.0000	0.0650	569.4000
37.5000	16.2500	0.0664	581.6640
37.5000	16.5000	0.0708	620.2080

37.5000	16.7500	0.0761	666.6360
37.5000	17.0000	0.0779	682.4040
37.5000	17.2500	0.0822	720.0720
37.5000	17.5000	0.0851	745.4760
37.5000	17.7500	0.0852	746.3520
37.5000	18.0000	0.0866	758.6160
37.5000	18.2500	0.0865	757.7400
37.5000	18.5000	0.0906	793.6560
37.5000	18.7500	0.0944	826.9440
37.5000	19.0000	0.1007	882.1320
37.5000	19.2500	0.0988	865.4880
37.5000	19.5000	0.0946	828.6960
37.5000	19.7500	0.0859	752.4840
37.5000	20.0000	0.0960	840.9600
37.5000	20.2500	0.0926	811.1760
37.5000	20.5000	0.0905	792.7800
37.5000	20.7500	0.0900	788.4000
37.5000	21.0000	0.0944	826.9440
37.5000	21.2500	0.0950	832.2000
37.5000	21.5000	0.0944	826.9440
37.5000	21.7500	0.0934	818.1840
37.5000	22.0000	0.0883	773.5080
37.5000	22.2500	0.0823	720.9480
37.5000	22.5000	0.0759	664.8840
37.7500	14.0000	0.0723	633.3480
37.7500	14.2500	0.0706	618.4560
37.7500	14.5000	0.0713	624.5880
37.7500	14.7500	0.0744	651.7440
37.7500	15.0000	0.0750	657.0000
37.7500	15.2500	0.0759	664.8840
37.7500	15.5000	0.0771	675.3960
37.7500	15.7500	0.0744	651.7440
37.7500	16.0000	0.0685	600.0600
37.7500	16.2500	0.0705	617.5800
37.7500	16.5000	0.0739	647.3640
37.7500	16.7500	0.0784	686.7840
37.7500	17.0000	0.0788	690.2880
37.7500	17.2500	0.0818	716.5680
37.7500	17.5000	0.0876	767.3760
37.7500	17.7500	0.0914	800.6640
37.7500	18.0000	0.0930	814.6800
37.7500	18.2500	0.0920	805.9200
37.7500	18.5000	0.0952	833.9520
37.7500	18.7500	0.0935	819.0600

37.7500	19.0000	0.1002	877.7520
37.7500	19.2500	0.0996	872.4960
37.7500	19.5000	0.0936	819.9360
37.7500	19.7500	0.0820	718.3200
37.7500	20.0000	0.0951	833.0760
37.7500	20.2500	0.0942	825.1920
37.7500	20.5000	0.0920	805.9200
37.7500	20.7500	0.0922	807.6720
37.7500	21.0000	0.0984	861.9840
37.7500	21.2500	0.0981	859.3560
37.7500	21.5000	0.0976	854.9760
37.7500	21.7500	0.0957	838.3320
37.7500	22.0000	0.0876	767.3760
37.7500	22.2500	0.0816	714.8160
37.7500	22.5000	0.0748	655.2480
38.0000	14.0000	0.0760	665.7600
38.0000	14.2500	0.0734	642.9840
38.0000	14.5000	0.0726	635.9760
38.0000	14.7500	0.0746	653.4960
38.0000	15.0000	0.0759	664.8840
38.0000	15.2500	0.0809	708.6840
38.0000	15.5000	0.0821	719.1960
38.0000	15.7500	0.0834	730.5840
38.0000	16.0000	0.0914	800.6640
38.0000	16.2500	0.0948	830.4480
38.0000	16.5000	0.0967	847.0920
38.0000	16.7500	0.0992	868.9920
38.0000	17.0000	0.0953	834.8280
38.0000	17.2500	0.0996	872.4960
38.0000	17.5000	0.1061	929.4360
38.0000	17.7500	0.1076	942.5760
38.0000	18.0000	0.1025	897.9000
38.0000	18.2500	0.1024	897.0240
38.0000	18.5000	0.1023	896.1480
38.0000	18.7500	0.1034	905.7840
38.0000	19.0000	0.1070	937.3200
38.0000	19.2500	0.1046	916.2960
38.0000	19.5000	0.0982	860.2320
38.0000	19.7500	0.0820	718.3200
38.0000	20.0000	0.0986	863.7360
38.0000	20.2500	0.1010	884.7600
38.0000	20.5000	0.0996	872.4960
38.0000	20.7500	0.1001	876.8760
38.0000	21.0000	0.1025	897.9000

38.0000	21.2500	0.1003	878.6280
38.0000	21.5000	0.0991	868.1160
38.0000	21.7500	0.0927	812.0520
38.0000	22.0000	0.0850	744.6000
38.0000	22.2500	0.0817	715.6920
38.0000	22.5000	0.0853	747.2280
38.2500	14.0000	0.0792	693.7920
38.2500	14.2500	0.0767	671.8920
38.2500	14.5000	0.0759	664.8840
38.2500	14.7500	0.0769	673.6440
38.2500	15.0000	0.0790	692.0400
38.2500	15.2500	0.0813	712.1880
38.2500	15.5000	0.0848	742.8480
38.2500	15.7500	0.0882	772.6320
38.2500	16.0000	0.1004	879.5040
38.2500	16.2500	0.1039	910.1640
38.2500	16.5000	0.1060	928.5600
38.2500	16.7500	0.1061	929.4360
38.2500	17.0000	0.0962	842.7120
38.2500	17.2500	0.1015	889.1400
38.2500	17.5000	0.1059	927.6840
38.2500	17.7500	0.1078	944.3280
38.2500	18.0000	0.1023	896.1480
38.2500	18.2500	0.1052	921.5520
38.2500	18.5000	0.1051	920.6760
38.2500	18.7500	0.1043	913.6680
38.2500	19.0000	0.1110	972.3600
38.2500	19.2500	0.1068	935.5680
38.2500	19.5000	0.1017	890.8920
38.2500	19.7500	0.0853	747.2280
38.2500	20.0000	0.1010	884.7600
38.2500	20.2500	0.1042	912.7920
38.2500	20.5000	0.1100	963.6000
38.2500	20.7500	0.1044	914.5440
38.2500	21.0000	0.1020	893.5200
38.2500	21.2500	0.1012	886.5120
38.2500	21.5000	0.0995	871.6200
38.2500	21.7500	0.0938	821.6880
38.2500	22.0000	0.0857	750.7320
38.2500	22.2500	0.0807	706.9320
38.2500	22.5000	0.0765	670.1400
38.5000	14.0000	0.0844	739.3440
38.5000	14.2500	0.0831	727.9560
38.5000	14.5000	0.0855	748.9800

38.5000	14.7500	0.0844	739.3440
38.5000	15.0000	0.0839	734.9640
38.5000	15.2500	0.0859	752.4840
38.5000	15.5000	0.0894	783.1440
38.5000	15.7500	0.0923	808.5480
38.5000	16.0000	0.1040	911.0400
38.5000	16.2500	0.1089	953.9640
38.5000	16.5000	0.1110	972.3600
38.5000	16.7500	0.1078	944.3280
38.5000	17.0000	0.0960	840.9600
38.5000	17.2500	0.0983	861.1080
38.5000	17.5000	0.1018	891.7680
38.5000	17.7500	0.1034	905.7840
38.5000	18.0000	0.1031	903.1560
38.5000	18.2500	0.1102	965.3520
38.5000	18.5000	0.1072	939.0720
38.5000	18.7500	0.1050	919.8000
38.5000	19.0000	0.1108	970.6080
38.5000	19.2500	0.1099	962.7240
38.5000	19.5000	0.1064	932.0640
38.5000	19.7500	0.0950	832.2000
38.5000	20.0000	0.1121	981.9960
38.5000	20.2500	0.1122	982.8720
38.5000	20.5000	0.1099	962.7240
38.5000	20.7500	0.1052	921.5520
38.5000	21.0000	0.1060	928.5600
38.5000	21.2500	0.1047	917.1720
38.5000	21.5000	0.1036	907.5360
38.5000	21.7500	0.0953	834.8280
38.5000	22.0000	0.0908	795.4080
38.5000	22.2500	0.0813	712.1880
38.5000	22.5000	0.0758	664.0080
38.7500	14.0000	0.0855	748.9800
38.7500	14.2500	0.0839	734.9640
38.7500	14.5000	0.0886	776.1360
38.7500	14.7500	0.0910	797.1600
38.7500	15.0000	0.0924	809.4240
38.7500	15.2500	0.0936	819.9360
38.7500	15.5000	0.0950	832.2000
38.7500	15.7500	0.0973	852.3480
38.7500	16.0000	0.1061	929.4360
38.7500	16.2500	0.1100	963.6000
38.7500	16.5000	0.1103	966.2280
38.7500	16.7500	0.1067	934.6920

38.7500	17.0000	0.0954	835.7040
38.7500	17.2500	0.0963	843.5880
38.7500	17.5000	0.0975	854.1000
38.7500	17.7500	0.1006	881.2560
38.7500	18.0000	0.1021	894.3960
38.7500	18.2500	0.1073	939.9480
38.7500	18.5000	0.1090	954.8400
38.7500	18.7500	0.1066	933.8160
38.7500	19.0000	0.1115	976.7400
38.7500	19.2500	0.1152	1009.1520
38.7500	19.5000	0.1100	963.6000
38.7500	19.7500	0.1004	879.5040
38.7500	20.0000	0.1176	1030.1760
38.7500	20.2500	0.1182	1035.4320
38.7500	20.5000	0.1148	1005.6480
38.7500	20.7500	0.1101	964.4760
38.7500	21.0000	0.1115	976.7400
38.7500	21.2500	0.1091	955.7160
38.7500	21.5000	0.1026	898.7760
38.7500	21.7500	0.0954	835.7040
38.7500	22.0000	0.0844	739.3440
38.7500	22.2500	0.0755	661.3800
38.7500	22.5000	0.0715	626.3400
39.0000	14.0000	0.0835	731.4600
39.0000	14.2500	0.0841	736.7160
39.0000	14.5000	0.0830	727.0800
39.0000	14.7500	0.0809	708.6840
39.0000	15.0000	0.1195	1046.8200
39.0000	15.2500	0.1237	1083.6120
39.0000	15.5000	0.1236	1082.7360
39.0000	15.7500	0.1233	1080.1080
39.0000	16.0000	0.1169	1024.0440
39.0000	16.2500	0.1214	1063.4640
39.0000	16.5000	0.1142	1000.3920
39.0000	16.7500	0.1113	974.9880
39.0000	17.0000	0.1072	939.0720
39.0000	17.2500	0.1071	938.1960
39.0000	17.5000	0.1060	928.5600
39.0000	17.7500	0.1045	915.4200
39.0000	18.0000	0.0892	781.3920
39.0000	18.2500	0.0894	783.1440
39.0000	18.5000	0.0971	850.5960
39.0000	18.7500	0.1013	887.3880
39.0000	19.0000	0.1333	1167.7080

39.0000	19.2500	0.1422	1245.6720
39.0000	19.5000	0.1483	1299.1080
39.0000	19.7500	0.1419	1243.0440
39.0000	20.0000	0.1394	1221.1440
39.0000	20.2500	0.1364	1194.8640
39.0000	20.5000	0.1302	1140.5520
39.0000	20.7500	0.1258	1102.0080
39.0000	21.0000	0.1190	1042.4400
39.0000	21.2500	0.1152	1009.1520
39.0000	21.5000	0.1077	943.4520
39.0000	21.7500	0.0946	828.6960
39.0000	22.0000	0.0733	642.1080
39.0000	22.2500	0.0655	573.7800
39.0000	22.5000	0.0613	536.9880
39.2500	14.0000	0.0857	750.7320
39.2500	14.2500	0.0839	734.9640
39.2500	14.5000	0.0825	722.7000
39.2500	14.7500	0.0825	722.7000
39.2500	15.0000	0.1283	1123.9080
39.2500	15.2500	0.1323	1158.9480
39.2500	15.5000	0.1341	1174.7160
39.2500	15.7500	0.1321	1157.1960
39.2500	16.0000	0.1229	1076.6040
39.2500	16.2500	0.1245	1090.6200
39.2500	16.5000	0.1194	1045.9440
39.2500	16.7500	0.1166	1021.4160
39.2500	17.0000	0.1073	939.9480
39.2500	17.2500	0.1071	938.1960
39.2500	17.5000	0.1052	921.5520
39.2500	17.7500	0.1008	883.0080
39.2500	18.0000	0.0852	746.3520
39.2500	18.2500	0.0846	741.0960
39.2500	18.5000	0.0915	801.5400
39.2500	18.7500	0.0992	868.9920
39.2500	19.0000	0.1327	1162.4520
39.2500	19.2500	0.1446	1266.6960
39.2500	19.5000	0.1506	1319.2560
39.2500	19.7500	0.1521	1332.3960
39.2500	20.0000	0.1479	1295.6040
39.2500	20.2500	0.1449	1269.3240
39.2500	20.5000	0.1426	1249.1760
39.2500	20.7500	0.1366	1196.6160
39.2500	21.0000	0.1319	1155.4440
39.2500	21.2500	0.1205	1055.5800

39.2500	21.5000	0.1068	935.5680
39.2500	21.7500	0.0926	811.1760
39.2500	22.0000	0.0716	627.2160
39.2500	22.2500	0.0637	558.0120
39.2500	22.5000	0.0597	522.9720
39.5000	14.0000	0.0860	753.3600
39.5000	14.2500	0.0844	739.3440
39.5000	14.5000	0.0850	744.6000
39.5000	14.7500	0.1095	959.2200
39.5000	15.0000	0.1314	1151.0640
39.5000	15.2500	0.1337	1171.2120
39.5000	15.5000	0.1338	1172.0880
39.5000	15.7500	0.1305	1143.1800
39.5000	16.0000	0.1219	1067.8440
39.5000	16.2500	0.1182	1035.4320
39.5000	16.5000	0.1147	1004.7720
39.5000	16.7500	0.1127	987.2520
39.5000	17.0000	0.1096	960.0960
39.5000	17.2500	0.1040	911.0400
39.5000	17.5000	0.1008	883.0080
39.5000	17.7500	0.0958	839.2080
39.5000	18.0000	0.0786	688.5360
39.5000	18.2500	0.0768	672.7680
39.5000	18.5000	0.0836	732.3360
39.5000	18.7500	0.0926	811.1760
39.5000	19.0000	0.1300	1138.8000
39.5000	19.2500	0.1444	1264.9440
39.5000	19.5000	0.1517	1328.8920
39.5000	19.7500	0.1536	1345.5360
39.5000	20.0000	0.1486	1301.7360
39.5000	20.2500	0.1496	1310.4960
39.5000	20.5000	0.1456	1275.4560
39.5000	20.7500	0.1416	1240.4160
39.5000	21.0000	0.1379	1208.0040
39.5000	21.2500	0.1179	1032.8040
39.5000	21.5000	0.1016	890.0160
39.5000	21.7500	0.0910	797.1600
39.5000	22.0000	0.0706	618.4560
39.5000	22.2500	0.0628	550.1280
39.5000	22.5000	0.0593	519.4680
39.7500	14.0000	0.0820	718.3200
39.7500	14.2500	0.0833	729.7080
39.7500	14.5000	0.0658	576.4080
39.7500	14.7500	0.0891	780.5160

39.7500	15.0000	0.1236	1082.7360
39.7500	15.2500	0.1257	1101.1320
39.7500	15.5000	0.1267	1109.8920
39.7500	15.7500	0.1236	1082.7360
39.7500	16.0000	0.1158	1014.4080
39.7500	16.2500	0.1096	960.0960
39.7500	16.5000	0.1072	939.0720
39.7500	16.7500	0.1040	911.0400
39.7500	17.0000	0.1014	888.2640
39.7500	17.2500	0.0950	832.2000
39.7500	17.5000	0.0926	811.1760
39.7500	17.7500	0.0887	777.0120
39.7500	18.0000	0.0733	642.1080
39.7500	18.2500	0.0735	643.8600
39.7500	18.5000	0.0796	697.2960
39.7500	18.7500	0.0895	784.0200
39.7500	19.0000	0.1272	1114.2720
39.7500	19.2500	0.1408	1233.4080
39.7500	19.5000	0.1544	1352.5440
39.7500	19.7500	0.1496	1310.4960
39.7500	20.0000	0.1469	1286.8440
39.7500	20.2500	0.1466	1284.2160
39.7500	20.5000	0.1441	1262.3160
39.7500	20.7500	0.1382	1210.6320
39.7500	21.0000	0.1202	1052.9520
39.7500	21.2500	0.1054	923.3040
39.7500	21.5000	0.0961	841.8360
39.7500	21.7500	0.0885	775.2600
39.7500	22.0000	0.0700	613.2000
39.7500	22.2500	0.0632	553.6320
39.7500	22.5000	0.0600	525.6000
40.0000	14.0000	0.1088	953.0880
40.0000	14.2500	0.1084	949.5840
40.0000	14.5000	0.1155	1011.7800
40.0000	14.7500	0.1143	1001.2680
40.0000	15.0000	0.1095	959.2200
40.0000	15.2500	0.1113	974.9880
40.0000	15.5000	0.1106	968.8560
40.0000	15.7500	0.1078	944.3280
40.0000	16.0000	0.0982	860.2320
40.0000	16.2500	0.0940	823.4400
40.0000	16.5000	0.0894	783.1440
40.0000	16.7500	0.0883	773.5080
40.0000	17.0000	0.0863	755.9880

40.0000	17.2500	0.0812	711.3120
40.0000	17.5000	0.0805	705.1800
40.0000	17.7500	0.0820	718.3200
40.0000	18.0000	0.0788	690.2880
40.0000	18.2500	0.0792	693.7920
40.0000	18.5000	0.0837	733.2120
40.0000	18.7500	0.0940	823.4400
40.0000	19.0000	0.1198	1049.4480
40.0000	19.2500	0.1356	1187.8560
40.0000	19.5000	0.1398	1224.6480
40.0000	19.7500	0.1390	1217.6400
40.0000	20.0000	0.1383	1211.5080
40.0000	20.2500	0.1379	1208.0040
40.0000	20.5000	0.1305	1143.1800
40.0000	20.7500	0.1209	1059.0840
40.0000	21.0000	0.0972	851.4720
40.0000	21.2500	0.0875	766.5000
40.0000	21.5000	0.0809	708.6840
40.0000	21.7500	0.0759	664.8840
40.0000	22.0000	0.0761	666.6360
40.0000	22.2500	0.0721	631.5960
40.0000	22.5000	0.0662	579.9120
40.2500	14.0000	0.1117	978.4920
40.2500	14.2500	0.1141	999.5160
40.2500	14.5000	0.1149	1006.5240
40.2500	14.7500	0.1139	997.7640
40.2500	15.0000	0.1079	945.2040
40.2500	15.2500	0.1079	945.2040
40.2500	15.5000	0.1053	922.4280
40.2500	15.7500	0.1009	883.8840
40.2500	16.0000	0.0916	802.4160
40.2500	16.2500	0.0870	762.1200
40.2500	16.5000	0.0836	732.3360
40.2500	16.7500	0.0819	717.4440
40.2500	17.0000	0.0826	723.5760
40.2500	17.2500	0.0763	668.3880
40.2500	17.5000	0.0785	687.6600
40.2500	17.7500	0.0806	706.0560
40.2500	18.0000	0.0788	690.2880
40.2500	18.2500	0.0783	685.9080
40.2500	18.5000	0.0839	734.9640
40.2500	18.7500	0.0928	812.9280
40.2500	19.0000	0.1172	1026.6720
40.2500	19.2500	0.1329	1164.2040

40.2500	19.5000	0.1376	1205.3760
40.2500	19.7500	0.1371	1200.9960
40.2500	20.0000	0.1333	1167.7080
40.2500	20.2500	0.1312	1149.3120
40.2500	20.5000	0.1259	1102.8840
40.2500	20.7500	0.1146	1003.8960
40.2500	21.0000	0.0917	803.2920
40.2500	21.2500	0.0826	723.5760
40.2500	21.5000	0.0767	671.8920
40.2500	21.7500	0.0739	647.3640
40.2500	22.0000	0.0741	649.1160
40.2500	22.2500	0.0700	613.2000
40.2500	22.5000	0.0674	590.4240
40.5000	14.0000	0.1104	967.1040
40.5000	14.2500	0.1121	981.9960
40.5000	14.5000	0.1129	989.0040
40.5000	14.7500	0.1105	967.9800
40.5000	15.0000	0.1046	916.2960
40.5000	15.2500	0.1017	890.8920
40.5000	15.5000	0.0982	860.2320
40.5000	15.7500	0.0941	824.3160
40.5000	16.0000	0.0862	755.1120
40.5000	16.2500	0.0827	724.4520
40.5000	16.5000	0.0801	701.6760
40.5000	16.7500	0.0796	697.2960
40.5000	17.0000	0.0797	698.1720
40.5000	17.2500	0.0756	662.2560
40.5000	17.5000	0.0766	671.0160
40.5000	17.7500	0.0771	675.3960
40.5000	18.0000	0.0766	671.0160
40.5000	18.2500	0.0783	685.9080
40.5000	18.5000	0.0861	754.2360
40.5000	18.7500	0.0942	825.1920
40.5000	19.0000	0.1221	1069.5960
40.5000	19.2500	0.1311	1148.4360
40.5000	19.5000	0.1368	1198.3680
40.5000	19.7500	0.1356	1187.8560
40.5000	20.0000	0.1334	1168.5840
40.5000	20.2500	0.1302	1140.5520
40.5000	20.5000	0.1211	1060.8360
40.5000	20.7500	0.1090	954.8400
40.5000	21.0000	0.0888	777.8880
40.5000	21.2500	0.0795	696.4200
40.5000	21.5000	0.0753	659.6280

40.5000	21.7500	0.0761	666.6360
40.5000	22.0000	0.0740	648.2400
40.5000	22.2500	0.0709	621.0840
40.5000	22.5000	0.0687	601.8120
40.7500	14.0000	0.1095	959.2200
40.7500	14.2500	0.1125	985.5000
40.7500	14.5000	0.1126	986.3760
40.7500	14.7500	0.1095	959.2200
40.7500	15.0000	0.1002	877.7520
40.7500	15.2500	0.0949	831.3240
40.7500	15.5000	0.0908	795.4080
40.7500	15.7500	0.0876	767.3760
40.7500	16.0000	0.0808	707.8080
40.7500	16.2500	0.0787	689.4120
40.7500	16.5000	0.0773	677.1480
40.7500	16.7500	0.0771	675.3960
40.7500	17.0000	0.0733	642.1080
40.7500	17.2500	0.0730	639.4800
40.7500	17.5000	0.0749	656.1240
40.7500	17.7500	0.0760	665.7600
40.7500	18.0000	0.0757	663.1320
40.7500	18.2500	0.0791	692.9160
40.7500	18.5000	0.0929	813.8040
40.7500	18.7500	0.1051	920.6760
40.7500	19.0000	0.1259	1102.8840
40.7500	19.2500	0.1359	1190.4840
40.7500	19.5000	0.1387	1215.0120
40.7500	19.7500	0.1365	1195.7400
40.7500	20.0000	0.1330	1165.0800
40.7500	20.2500	0.1296	1135.2960
40.7500	20.5000	0.1306	1144.0560
40.7500	20.7500	0.1284	1124.7840
40.7500	21.0000	0.0956	837.4560
40.7500	21.2500	0.0788	690.2880
40.7500	21.5000	0.0760	665.7600
40.7500	21.7500	0.0764	669.2640
40.7500	22.0000	0.0749	656.1240
40.7500	22.2500	0.0731	640.3560
40.7500	22.5000	0.0707	619.3320
41.0000	14.0000	0.1119	980.2440
41.0000	14.2500	0.1135	994.2600
41.0000	14.5000	0.1113	974.9880
41.0000	14.7500	0.1049	918.9240
41.0000	15.0000	0.0827	724.4520

41.0000	15.2500	0.0767	671.8920
41.0000	15.5000	0.0729	638.6040
41.0000	15.7500	0.0712	623.7120
41.0000	16.0000	0.0741	649.1160
41.0000	16.2500	0.0729	638.6040
41.0000	16.5000	0.0719	629.8440
41.0000	16.7500	0.0724	634.2240
41.0000	17.0000	0.0665	582.5400
41.0000	17.2500	0.0675	591.3000
41.0000	17.5000	0.0695	608.8200
41.0000	17.7500	0.0710	621.9600
41.0000	18.0000	0.0850	744.6000
41.0000	18.2500	0.0951	833.0760
41.0000	18.5000	0.1056	925.0560
41.0000	18.7500	0.1124	984.6240
41.0000	19.0000	0.1268	1110.7680
41.0000	19.2500	0.1333	1167.7080
41.0000	19.5000	0.1347	1179.9720
41.0000	19.7500	0.1321	1157.1960
41.0000	20.0000	0.1352	1184.3520
41.0000	20.2500	0.1311	1148.4360
41.0000	20.5000	0.1349	1181.7240
41.0000	20.7500	0.1127	987.2520
41.0000	21.0000	0.0879	770.0040
41.0000	21.2500	0.0788	690.2880
41.0000	21.5000	0.0740	648.2400
41.0000	21.7500	0.0736	644.7360
41.0000	22.0000	0.0791	692.9160
41.0000	22.2500	0.0751	657.8760
41.0000	22.5000	0.0755	661.3800
41.2500	14.0000	0.1173	1027.5480
41.2500	14.2500	0.1167	1022.2920
41.2500	14.5000	0.1105	967.9800
41.2500	14.7500	0.1009	883.8840
41.2500	15.0000	0.0782	685.0320
41.2500	15.2500	0.0707	619.3320
41.2500	15.5000	0.0663	580.7880
41.2500	15.7500	0.0654	572.9040
41.2500	16.0000	0.0690	604.4400
41.2500	16.2500	0.0682	597.4320
41.2500	16.5000	0.0702	614.9520
41.2500	16.7500	0.0718	628.9680
41.2500	17.0000	0.0664	581.6640
41.2500	17.2500	0.0687	601.8120

41.2500	17.5000	0.0713	624.5880
41.2500	17.7500	0.0737	645.6120
41.2500	18.0000	0.1048	918.0480
41.2500	18.2500	0.1081	946.9560
41.2500	18.5000	0.1481	1297.3560
41.2500	18.7500	0.1165	1020.5400
41.2500	19.0000	0.1321	1157.1960
41.2500	19.2500	0.1380	1208.8800
41.2500	19.5000	0.1388	1215.8880
41.2500	19.7500	0.1352	1184.3520
41.2500	20.0000	0.1371	1200.9960
41.2500	20.2500	0.1312	1149.3120
41.2500	20.5000	0.1216	1065.2160
41.2500	20.7500	0.1095	959.2200
41.2500	21.0000	0.0889	778.7640
41.2500	21.2500	0.0792	693.7920
41.2500	21.5000	0.0742	649.9920
41.2500	21.7500	0.0730	639.4800
41.2500	22.0000	0.0767	671.8920
41.2500	22.2500	0.0762	667.5120
41.2500	22.5000	0.0763	668.3880
41.5000	14.0000	0.1182	1035.4320
41.5000	14.2500	0.1144	1002.1440
41.5000	14.5000	0.1083	948.7080
41.5000	14.7500	0.0991	868.1160
41.5000	15.0000	0.0763	668.3880
41.5000	15.2500	0.0690	604.4400
41.5000	15.5000	0.0634	555.3840
41.5000	15.7500	0.0631	552.7560
41.5000	16.0000	0.0686	600.9360
41.5000	16.2500	0.0679	594.8040
41.5000	16.5000	0.0735	643.8600
41.5000	16.7500	0.0789	691.1640
41.5000	17.0000	0.0782	685.0320
41.5000	17.2500	0.0762	667.5120
41.5000	17.5000	0.0850	744.6000
41.5000	17.7500	0.0993	869.8680
41.5000	18.0000	0.1551	1358.6760
41.5000	18.2500	0.1529	1339.4040
41.5000	18.5000	0.1367	1197.4920
41.5000	18.7500	0.1151	1008.2760
41.5000	19.0000	0.1667	1460.2920
41.5000	19.2500	0.1571	1376.1960
41.5000	19.5000	0.1474	1291.2240

41.5000	19.7500	0.1411	1236.0360
41.5000	20.0000	0.1404	1229.9040
41.5000	20.2500	0.1329	1164.2040
41.5000	20.5000	0.1243	1088.8680
41.5000	20.7500	0.1095	959.2200
41.5000	21.0000	0.0894	783.1440
41.5000	21.2500	0.0834	730.5840
41.5000	21.5000	0.0745	652.6200
41.5000	21.7500	0.0734	642.9840
41.5000	22.0000	0.0771	675.3960
41.5000	22.2500	0.0777	680.6520
41.5000	22.5000	0.0781	684.1560
41.7500	14.0000	0.1154	1010.9040
41.7500	14.2500	0.1100	963.6000
41.7500	14.5000	0.1051	920.6760
41.7500	14.7500	0.0975	854.1000
41.7500	15.0000	0.0767	671.8920
41.7500	15.2500	0.0711	622.8360
41.7500	15.5000	0.0621	543.9960
41.7500	15.7500	0.0623	545.7480
41.7500	16.0000	0.0659	577.2840
41.7500	16.2500	0.0677	593.0520
41.7500	16.5000	0.0814	713.0640
41.7500	16.7500	0.0886	776.1360
41.7500	17.0000	0.0874	765.6240
41.7500	17.2500	0.0930	814.6800
41.7500	17.5000	0.1038	909.2880
41.7500	17.7500	0.1196	1047.6960
41.7500	18.0000	0.1547	1355.1720
41.7500	18.2500	0.1352	1184.3520
41.7500	18.5000	0.1153	1010.0280
41.7500	18.7500	0.1080	946.0800
41.7500	19.0000	0.1810	1585.5600
41.7500	19.2500	0.1711	1498.8360
41.7500	19.5000	0.1616	1415.6160
41.7500	19.7500	0.1509	1321.8840
41.7500	20.0000	0.1462	1280.7120
41.7500	20.2500	0.1380	1208.8800
41.7500	20.5000	0.1339	1172.9640
41.7500	20.7500	0.1125	985.5000
41.7500	21.0000	0.0888	777.8880
41.7500	21.2500	0.0808	707.8080
41.7500	21.5000	0.0744	651.7440
41.7500	21.7500	0.0742	649.9920

41.7500	22.0000	0.0781	684.1560
41.7500	22.2500	0.0783	685.9080
41.7500	22.5000	0.0784	686.7840
42.0000	14.0000	0.1113	974.9880
42.0000	14.2500	0.1016	890.0160
42.0000	14.5000	0.0983	861.1080
42.0000	14.7500	0.0941	824.3160
42.0000	15.0000	0.0730	639.4800
42.0000	15.2500	0.0725	635.1000
42.0000	15.5000	0.0731	640.3560
42.0000	15.7500	0.0749	656.1240
42.0000	16.0000	0.0776	679.7760
42.0000	16.2500	0.0877	768.2520
42.0000	16.5000	0.0937	820.8120
42.0000	16.7500	0.1141	999.5160
42.0000	17.0000	0.1117	978.4920
42.0000	17.2500	0.1209	1059.0840
42.0000	17.5000	0.1347	1179.9720
42.0000	17.7500	0.1547	1355.1720
42.0000	18.0000	0.2022	1771.2720
42.0000	18.2500	0.2257	1977.1320
42.0000	18.5000	0.2502	2191.7520
42.0000	18.7500	0.2409	2110.2840
42.0000	19.0000	0.2311	2024.4360
42.0000	19.2500	0.2219	1943.8440
42.0000	19.5000	0.2066	1809.8160
42.0000	19.7500	0.1875	1642.5000
42.0000	20.0000	0.1420	1243.9200
42.0000	20.2500	0.1247	1092.3720
42.0000	20.5000	0.1153	1010.0280
42.0000	20.7500	0.1065	932.9400
42.0000	21.0000	0.0892	781.3920
42.0000	21.2500	0.0795	696.4200
42.0000	21.5000	0.0751	657.8760
42.0000	21.7500	0.0751	657.8760
42.0000	22.0000	0.0795	696.4200
42.0000	22.2500	0.0829	726.2040
42.0000	22.5000	0.0810	709.5600

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