

Kyiv

In Handbooks this station is also named/called as **Kyiv, observatory**. The station was not relocated during 1812-1850

Longitude: **30°30'**; Latitude: **50°27'**; Height: **183 m**

Starting year: 1812

Availability of data (data for such periods **ARE** available/present in original tables):

1812-1819.11;

1823.11-1825.11;

1837.9-1841.2.

Number of subdaily air temperature and pressure measurements:

1812-1825 - 3 times/day: 06:00, 14:00, 22:00 (only temperature) (see Photo 1);

1837-1841 - 3 times/day: 06:00, 14:00, 22:00 (see Photo 2).

Other variables (measurements/observations):

- clouds and precipitation in **words** (! состояние атмосферы/state of atmosphere) (see Photo 1 and 2)

Photo 1. An example of an original data table for the period of 1812-1825 (**Kyiv**)

Month	Time of measurements		Temperature				State of atmosphere			
	6 Uhr M.	2 Uhr p.m.	10 Uhr Abend	Luft Temperatur	Luft Feuchtigkeit	Windstärke	Windrichtung			
September	666,8	14,8	667,9	14,5	667,5	14,8	+3,0	8,9	3,0	Bewölkt und stille.
October	671,6	14,1	681	14,0	69,0	13,9	+2,5	6,2	4,0	Sehr Abend Regen.
November?	69,8	13,2	71,3	13,0	72,8	13,9	0,8	4,0	3,0	Sehr. Stille
December	74,1	12,2	75,6	13,5	76,8	14,2	0,0	4,8	4,4	Sehr Abend Regen.
January	76,4	14,2	74,7	14,1	72,2	14,0	4,1	6,0	4,2	Bewölkt und stille.
February	"	"	"	67,0	13,4	39	5,0	5,0	Sehr klärt gegen Abend.	
March	67,0	13,1	67,6	13,2	68,5	12,8	4,0	6,0	2,0	Mor. Regen dann fall.
April	67,3	12,8	66,8	12,7	65,8	12,3	1	6	3	Bewölkt, Regenschauer, fall
May	67,9	12,2	59,2	12,8	61,6	13,7	2,7	3,6	2,2	für Regen abwechselnd
June	62,6	13,5	63,3	13,0	64,3	13,0	-3	+2,5	-2,4	Klar.
July	63,1	12,8	62,9	12,7	63,8	12,4	-1	+6,8	0	Bewölkt. Regen Regen
August	64,2	12,1	63,0	12	65,8	13,1	+4,6	9,6	5,3	Bewölkt.
September	65,6	13,8	66,3	14	65,5	13,5	+3,8	9,6	3,7	Bewölkt, und leicht Niederschlag.
October	61,5	13,5	58,2	13,5	59,5	13,5	+2,5	8,3	4,2	Bewölkt Regen einigalma Sonnen blitze Regen. Stark Regen. Regen Regen. Klar, es wird Dienstfall und Stille.
November	60,8	13,0	63,5	13,3	65,7	13,5	+1	2,7	-1,5	Bewölkt und Regen, falls Mor. Sobald Sonnen scheint klar.
December	68,8	12,5	"	"	69,5	14,0	+1,9	6,8	4,0	Sobald Sonnen scheint klar. Klar, füller Sonnenstrahlen Regen oder bei Wind.
January	69,3	14,1	68,9	14,	68,0	13,8	+3,0	8,8	3,8	
February	67,8	13,5	66,4	13,5	66,8	13,5	+4,0	10,2	6	Klar. Sonnenchein
March	67,0	13,2	66,9	13,8	69,7	13,3	+4,5	12,8	9,0	Klar. Sonnenchein. Bewölkt
April	67,3	12,9	68,7	13,8	68,7	14,7	+4,5	9,2	3	Klar.
May	67,9	15	68,7	15	69,0	14,5	+2,3	6,3	6,3	Nebel

Photo 2. An example of an original data table for the period of 1837-1841 (Kyiv)

Kharkiv

Comment. Two different books with names **Kharkiv_university** and **Kharkiv** containing data for 1843 were found in the archive and digitized separately. However, it seems that they belong to the same station because data are almost the same.

Kharkiv_university

Longitude: **50°00'**; Latitude: **36°14'**; Height: **140 m**

Starting year: **1840**

Availability of data (data for such periods ARE available/present in original tables):

1840.4-10; However (1840.05.01-1840.05.19 and 1840.07-1840.08 no pressure data)

1843.01.14-1843.12;

1845.01.14-1847.12.

Number of subdaily air temperature and pressure measurements:

1840.4-1840.8 - 9 times/day: 06:00, 08:00, 10:00, 12:00, 14:00, 16:00, 18:00, 20:00, 22:00
(see Photo 3 and Photo 4);

1840.9-1840.10 - 3 times/day: 09:00, 15:00, 21:00 (see Photo 5);

1843.01.14-1843.12 – 6 times/day: 06:00, 09:00, 12:00, 15:00, 18:00, 21:00 (see Photo 6);

1845.01.14-1847.12 - 6 times/day: 06:00, 09:00, 12:00, 15:00, 18:00, 21:00 (the same as Photo 6).

Other variables (measurements/observations) (see Photos below):

- two different pressure measurements («Баром. Русск лин.» and «Барометръ при $13\frac{1}{3}$ R»);
- wind;
- precipitation;
- Tx and Tn
- atmosphere condition.

Air pressure

Day	Month	Time
1	April	
2	May	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
3	June	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
4	July	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
5	August	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
6	September	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
7	October	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
8	November	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
9	December	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
10	January	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
11	February	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
12	March	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
13	April	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
14	May	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
15	June	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
16	July	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
17	August	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
18	September	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
19	October	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
20	November	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
21	December	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
22	January	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
23	February	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
24	March	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
25	April	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
26	May	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
27	June	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
28	July	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
29	August	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0
30	September	06:00 50.0 08:00 50.0 10:00 50.0 12:00 50.0 14:00 50.0 16:00 50.0 18:00 50.0 20:00 50.0 22:00 50.0

Photo 3. An example of an original data table for the period of 1840.04-1840.08 (air pressure, **Kharkiv_university**)

Photo 4. An example of an original data table for the period of 1840.04-1840.08 (air temperature, **Kharkiv_university**)

Air temperature				Air pressure			
Month							
Сентябрь				1950 года			
Day	Часы	Темп. воздуха в мах.	Термометр в атмосф. в мин.	Измеритель. в атмосф.	Темп. Темп. 15° Р. в атм.	State of atmosphere	ПРИМЕЧАНИЯ Remarks
1.	0 15	15	50	700.20			
	3 18	18	50	702.60			
	9 15	15	50	704.20			
2.	0 15	15	50	706.20			
	3 18	18	50	708.20			
	9 15	15	50	710.20			
3.	0 15	15	50	712.20			
	3 18	18	50	714.20			
	9 15	15	50	716.20			
4.	0 15	15	50	718.20			
	3 18	18	50	720.20			
	9 15	15	50	722.20			
5.	0 15	15	50	724.20			
	3 18	18	50	726.20			
	9 15	15	50	728.20			
6.	0 15	15	50	730.20			
	3 18	18	50	732.20			
	9 15	15	50	734.20			
7.	0 15	15	50	736.20			
	3 18	18	50	738.20			
	9 15	15	50	740.20			
8.	0 15	15	50	742.20			
	3 18	18	50	744.20			
	9 15	15	50	746.20			
9.	0 15	15	50	748.20			
	3 18	18	50	750.20			
	9 15	15	50	752.20			
10.	0 15	15	50	754.20			
	3 18	18	50	756.20			
	9 15	15	50	758.20			
11.	0 15	15	50	760.20			
	3 18	18	50	762.20			
	9 15	15	50	764.20			
12.	0 15	15	50	766.20			
	3 18	18	50	768.20			
	9 15	15	50	770.20			
13.	0 15	15	50	772.20			
	3 18	18	50	774.20			
	9 15	15	50	776.20			
14.	0 15	15	50	778.20			
	3 18	18	50	780.20			
	9 15	15	50	782.20			
15.	0 15	15	50	784.20			
	3 18	18	50	786.20			
	9 15	15	50	788.20			
16.	0 15	15	50	790.20			
	3 18	18	50	792.20			
	9 15	15	50	794.20			

Photo 5. An example of an original data table for the period of 1840.09-1840.10
(Kharkiv_university)

МЕТЕОРОЛОГИЧЕСКИЙ НАБЛЮДЕНИЯ,									
ДѢЛѢМѢМѢ ПРИ ХАРЬКОВСКОМЪ УНИВЕРСИТЕТѢ.									
Pressure		Temperature		State of atmosphere					
ВРЕМЯ НА- БЛЮДЕНИЙ.	Баром. Русск. лии.	Варо- метръ при 133° R	Тер- мо- метръ R.	Психометръ: съ ви- соко- стью безъ вспыш-	Термометръ: безъ вспыш-	Ветром.	Количество выпавшей во- ды на сажнѣ. Русс. дюймы.	Термометръ: въ пах.	Состояніе АТМОСФЕРЫ.
Число	Часъ.							à max.	à min.
(10) Градус									
6	586,6	588,3	+4,6						
	+10,6								
9	587,3	587,6							
	+10,5		+4,6						
12	588,5	588,7							
	+11		+2,3						
3	589,7	589,8	+4,6						
	+11								
6	590,6	591,9	+0,3						
	+10,9								
9	592,7	592,7	0						
	+11								
		593,5	+1,2						
		5							
		593,9							

Photo 6. An example of an original data table for the period of 1843-1947 (**Kharkiv_university**)

Kharkiv

Longitude: **50°00'**; Latitude: **36°14'**; Height: **140 m** (These are coordinates of Kharkiv_university; information about location of Kharkiv was not found)

Starting year: **1843**

Availability of data (data for such periods ARE available/present in original tables):

1843-1844

Number of subdaily air temperature and pressure measurements:

1843-1844 – 6 times/day: 06:00, 09:00, 12:00, 15:00, 18:00, 21:00 (see Photo 7);

Other variables (measurements/observations) (see Photos below):

- wind;
- atmosphere condition (state of atmosphere).

Photo 7. An example of an original data table for the period of 1843 (**Kharkiv**)

Poltava

The station was not relocated during 1824-1850

Longitude: **34°33'**; Latitude: **49°36'**; Height: **160 (140?) m**

Starting year: **1824**

Availability of data (data for such periods **ARE** available/present in original tables):

1824-1831;

1836-1843;

1845-1850.

Number of subdaily air temperature and pressure measurements:

1824-1831 - 3 times/day: at sunrise, at midday, at sunset (only temperature, see Photo 8);

1836-1837 - 3 times/day: at sunrise, midday and at sunset (see Photo 9);

1838-1843 - 3 times/day: 07:00, 14:00, 21:00 (see Photo 10).

1845-1846 - 3 times/day: 07:00, 14:00, 21:00 (almost the same as on Photo 10)

1847-1850 - 3 times/day: 07:00, 14:00, 21:00 (see Photo 11).

- pressure observations were conducted since 1836 (see Photo 9);

- temperature of barometer: since 1847 (see Photo 11);

- height of barometer (air pressure adjusted to temperature of $13\frac{1}{3}$ R): since 1847 (see Photo 11).

Other variables (measurements/observations):

- wind;

- atmospheric condition (state of atmosphere);

- humidity (vapor pressure)/упругость паровъ (since 1847, see Photo 11)

month	year	at sunrise			at midday			at sunset		
		May 1	May 2	May 3	May 4	May 5	May 6	May 7	May 8	May 9
May	1824	1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	1	2	3
4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
7	8	9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26	27	28
29	30	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	1
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	1	2	3	4
15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	1	2	3	4	5	6
17	18	19	20	21	22	23	24	25	26	27
28	29	30	1	2	3	4	5	6	7	8
19	20	21	22	23	24	25	26	27	28	29
30	1	2	3	4	5	6	7	8	9	10
20	21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	1	2
13	14	15	16	17						

Malojuga Meteorologicheskaya observarion										remarks	
In Poltava 1836-1837					month year						
at sunrise			at midday		at sunset		at sunrise				
day pressure cm monp. at sunrise	temp. at sunrise wind atmospheric conditions	atmos. at sunrise	temp. at sunrise	wind at sunrise	atmos. at midday	temp. at midday	atmos. at sunset	temp. at sunset	wind at sunset		
1.1.29 - 8 $\frac{1}{2}$	- 6	Sund. no. 3.	Obozrev.	29 - 8 $\frac{1}{2}$	- 4	Cloud. 10.3. Obozrev.	29 - 8 $\frac{1}{2}$	- 3	Sund. 10.3. Obozrev.	6	
2.1.29 - 6	- 1.	Cloud. 10.3.	Obozrev.	29 - 8	+ 0	Muxo Obozrev.	29 - 8 $\frac{1}{2}$	+ 0	Muxo Obozrev.	7	
3.1.29 - 9	- 6	Cloud. 10.3.	Cavne.	29 - 9	- 4	Cloud. 10.3. Cavne.	29 - 7 $\frac{1}{2}$	- 5	Sund. 10.3. Cavne.	8	
4.1.29 - 7	- 6	Cloud. 10.3.	Obozrev.	29 - 6	- 8	Cloud. 10.3. Obozrev.	29 - 5 $\frac{1}{2}$	- 3	Cloud. 10.3. Obozrev.	9	
5.1.29 - 9 $\frac{1}{2}$	- 4	wind m.	Obozrev.	29 - 9 $\frac{1}{2}$	- 8 $\frac{1}{2}$	Cloud. 10.3. Obozrev.	29 - 7 $\frac{1}{2}$	- 4	wind m. Cavne.	10	
6.1.29 - 4	- 9	Cloud. 10.3.	Obozrev.	29 - 4	- 6	Sund. 10.3. Obozrev.	29 - 2 $\frac{1}{2}$	- 7	Sund. 10.3. Obozrev.	11	
7.1.29 -	- 10	Sund. 10.3.	Obozrev.	28 - 9 $\frac{1}{2}$	- 4	Cloud. 10.3. Obozrev.	28 - 9	- 5	Sund. 10.3. Obozrev.	12	
8.1.29 - 6 $\frac{1}{2}$	- 12	Cloud. 10.3.	Cavne.	29 - 4	- 6	Cloud. 10.3. Cavne.	29 - 4	- 6	Cloud. 10.3. Obozrev.	13	
9.1.29 - 7	- 14	Muxo	Obozrev.	29 - 7	- 11 $\frac{1}{2}$	Cloud. 10.3. Obozrev.	29 - 9	- 12 $\frac{1}{2}$	Muxo Obozrev.	14	
10.1.29 - 1 $\frac{1}{2}$	- 12	Cloud. 10.3.	Obozrev.	30 - 2	- 13	Cloud. 10.3. Obozrev.	30 - 3	- 14	Muxo Obozrev.	15	
11.1.29 - 9 $\frac{1}{2}$	- 18	Cloud. 10.3.	Cavne.	30 - 8 $\frac{1}{2}$	- 11	Cloud. 10.3. Cavne.	30 - 3	- 10	Muxo Obozrev.	16	
12.1.29 - 1	- 7	Cloud. 10.3.	Obozrev.	29 - 8 $\frac{1}{2}$	- 1	Cloud. 10.3. Obozrev.	29 - 7 $\frac{1}{2}$	- 1	Cloud. 10.3. Obozrev.	17	
13.1.29 - 6 $\frac{1}{2}$	+ 2	Cloud. 10.3.	Obozrev.	29 - 6	+ 2	Cloud. 10.3. Obozrev.	29 - 5	+ 1 $\frac{1}{2}$	Cloud. 10.3. Obozrev.	18	
14.1.29 - 6	- 2	Muxo	Obozrev.	29 - 7	- 1 $\frac{1}{2}$	Muxo Obozrev.	29 - 8 $\frac{1}{2}$	- 2	Muxo Obozrev.	19	
15.1.29 -	- 9 $\frac{1}{2}$	Muxo	Obozrev.	29 - 8 $\frac{1}{2}$	- 4	Cloud. 10.3. Obozrev.	29 - 9	- 8 $\frac{1}{2}$	Muxo Obozrev.	20	
16.1.29 - 6 $\frac{1}{2}$	- 6 $\frac{1}{2}$	Cloud. 10.3.	Cavne.	29 - 8	- 6	Cloud. 10.3. Cavne.	29 - 6	- 5 $\frac{1}{2}$	Muxo Obozrev.	21	
17.1.29 - 7 $\frac{1}{2}$	- 7	Muxo	Cavne.	29 - 7 $\frac{1}{2}$	- 8	Muxo Obozrev.	29 - 6 $\frac{1}{2}$	- 2	Muxo Obozrev.	22	
18.1.29 - 9 $\frac{1}{2}$	- 4	Cloud. 10.3.	Obozrev.	29 - 9 $\frac{1}{2}$	- 1 $\frac{1}{2}$	Cloud. 10.3. Obozrev.	29 - 4 $\frac{1}{2}$	+ 1 $\frac{1}{2}$	Cloud. 10.3. Obozrev.	23	
19.1.29 - 4 $\frac{1}{2}$	+ 1	Cloud. 10.3.	Obozrev.	29 - 9 $\frac{1}{2}$	+ 2	Cloud. 10.3. Obozrev.	29 - 4 $\frac{1}{2}$	+ 0	Muxo Obozrev.	24	
20.1.29 - 4 $\frac{1}{2}$	- 1 $\frac{1}{2}$	Cloud. 10.3.	Obozrev.	29 - 5 $\frac{1}{2}$	- 1	Muxo Obozrev.	29 - 6	- 2	Muxo Obozrev.	25	
21.1.29 - 6 $\frac{1}{2}$	- 0	Muxo	Obozrev.	29 - 6 $\frac{1}{2}$	- 2	Muxo Obozrev.	29 - 6 $\frac{1}{2}$	- 2	Muxo Obozrev.	26	
22.1.29 - 8	- 8	Muxo	Obozrev.	29 - 8	- 8 $\frac{1}{2}$	Muxo Obozrev.	29 - 9	- 4	Muxo Obozrev.	27	
23.1.29 - 1	- 1 $\frac{1}{2}$	Muxo	Obozrev.	30 - 1 $\frac{1}{2}$	- 8 $\frac{1}{2}$	Muxo Obozrev.	30 - 1 $\frac{1}{2}$	- 8 $\frac{1}{2}$	Muxo Obozrev.	28	
24.1.29 - 2	- 8	Muxo	Obozrev.	30 - 2	- 9	Muxo Obozrev.	30 - 1	- 4	Muxo Obozrev.	29	
25.1.29 - 8 $\frac{1}{2}$	- 6	Muxo	Obozrev.	29 - 8 $\frac{1}{2}$	- 4	Muxo Obozrev.	29 - 7 $\frac{1}{2}$	- 4	Muxo Obozrev.	30	
26.1.29 - 4 $\frac{1}{2}$	- 4	Muxo	Obozrev.	29 - 4 $\frac{1}{2}$	- 1	Muxo Obozrev.	29 - 4	- 1	Muxo Obozrev.	31	
27.1.29 - 4 $\frac{1}{2}$	+ 0	Muxo	Obozrev.	29 - 5	+ 1 $\frac{1}{2}$	Muxo Obozrev.	29 - 5 $\frac{1}{2}$	+ 0	Muxo Obozrev.	32	
28.1.29 - 8 $\frac{1}{2}$	- 7	Muxo	Cavne.	29 - 8 $\frac{1}{2}$	- 6 $\frac{1}{2}$	Muxo Cavne.	29 - 9	- 5 $\frac{1}{2}$	Muxo Obozrev.	33	
29.1.29 - 8 $\frac{1}{2}$	- 14	Muxo	Obozrev.	29 - 8	- 7	Muxo Obozrev.	29 - 7 $\frac{1}{2}$	- 5	Muxo Obozrev.	34	
30.1.29 - 5 $\frac{1}{2}$	- 1 $\frac{1}{2}$	Muxo	Cavne.	29 - 5	+ 1 $\frac{1}{2}$	Muxo Obozrev.	29 - 4	+ 0	Cloud. 10.3. Obozrev.	35	
31.1.29 - 8	- 8 $\frac{1}{2}$	Muxo	Cavne.	29 - 8	- 1	Cloud. 10.3. Cavne.	29 - 8 $\frac{1}{2}$	- 1 $\frac{1}{2}$	Cloud. 10.3. Obozrev.	36	

III. 1836-1837. Obozrev. 1836-1837. Poltava 1836-1837. Obozrev. 1836-1837. Poltava 1836-1837.

Photo 9. An example of an original data table for the period of 1836-1837 (Poltava)

month	year	time	atmospheric conditions		
			1836 October	1836 November	1836 December
Nov. 1	1836	day	1	2	3
Nov. 2	1836	day	2	3	4
Nov. 3	1836	day	3	4	5
Nov. 4	1836	day	4	5	6
Nov. 5	1836	day	5	6	7
Nov. 6	1836	day	6	7	8
Nov. 7	1836	day	7	8	9
Nov. 8	1836	day	8	9	10
Nov. 9	1836	day	9	10	11
Nov. 10	1836	day	10	11	12
Nov. 11	1836	day	11	12	13
Nov. 12	1836	day	12	13	14
Nov. 13	1836	day	13	14	15
Nov. 14	1836	day	14	15	16
Nov. 15	1836	day	15	16	17
Nov. 16	1836	day	16	17	18
Nov. 17	1836	day	17	18	19
Nov. 18	1836	day	18	19	20
Nov. 19	1836	day	19	20	21
Nov. 20	1836	day	20	21	22
Nov. 21	1836	day	21	22	23
Nov. 22	1836	day	22	23	24
Nov. 23	1836	day	23	24	25
Nov. 24	1836	day	24	25	26
Nov. 25	1836	day	25	26	27
Nov. 26	1836	day	26	27	28
Nov. 27	1836	day	27	28	29
Nov. 28	1836	day	28	29	30
Nov. 29	1836	day	29	30	31
Nov. 30	1836	day	30	31	1
Nov. 31	1836	day	31	1	2
Dec. 1	1836	day	1	2	3
Dec. 2	1836	day	2	3	4
Dec. 3	1836	day	3	4	5
Dec. 4	1836	day	4	5	6
Dec. 5	1836	day	5	6	7
Dec. 6	1836	day	6	7	8
Dec. 7	1836	day	7	8	9
Dec. 8	1836	day	8	9	10
Dec. 9	1836	day	9	10	11
Dec. 10	1836	day	10	11	12
Dec. 11	1836	day	11	12	13
Dec. 12	1836	day	12	13	14
Dec. 13	1836	day	13	14	15
Dec. 14	1836	day	14	15	16
Dec. 15	1836	day	15	16	17
Dec. 16	1836	day	16	17	18
Dec. 17	1836	day	17	18	19
Dec. 18	1836	day	18	19	20
Dec. 19	1836	day	19	20	21
Dec. 20	1836	day	20	21	22
Dec. 21	1836	day	21	22	23
Dec. 22	1836	day	22	23	24
Dec. 23	1836	day	23	24	25
Dec. 24	1836	day	24	25	26
Dec. 25	1836	day	25	26	27
Dec. 26	1836	day	26	27	28
Dec. 27	1836	day	27	28	29
Dec. 28	1836	day	28	29	30
Dec. 29	1836	day	29	30	31
Dec. 30	1836	day	30	31	1
Dec. 31	1836	day	31	1	2
Jan. 1	1837	day	1	2	3
Jan. 2	1837	day	2	3	4
Jan. 3	1837	day	3	4	5
Jan. 4	1837	day	4	5	6
Jan. 5	1837	day	5	6	7
Jan. 6	1837	day	6	7	8
Jan. 7	1837	day	7	8	9
Jan. 8	1837	day	8	9	10
Jan. 9	1837	day	9	10	11
Jan. 10	1837	day	10	11	12
Jan. 11	1837	day	11	12	13
Jan. 12	1837	day	12	13	14
Jan. 13	1837	day	13	14	15
Jan. 14	1837	day	14	15	16
Jan. 15	1837	day	15	16	17
Jan. 16	1837	day	16	17	18
Jan. 17	1837	day	17	18	19
Jan. 18	1837	day	18	19	20
Jan. 19	1837	day	19	20	21
Jan. 20	1837	day	20	21	22
Jan. 21	1837	day	21	22	23
Jan. 22	1837	day	22	23	24
Jan. 23	1837	day	23	24	25
Jan. 24	1837	day	24	25	26
Jan. 25	1837	day	25	26	27
Jan. 26	1837	day	26	27	28
Jan. 27	1837	day	27	28	29
Jan. 28	1837	day	28	29	30
Jan. 29	1837	day	29	30	31
Jan. 30	1837	day	30	31	1
Jan. 31	1837	day	31	1	2
Feb. 1	1837	day	1	2	3
Feb. 2	1837	day	2	3	4
Feb. 3	1837	day	3	4	5
Feb. 4	1837	day	4	5	6
Feb. 5	1837	day	5	6	7
Feb. 6	1837	day	6	7	8
Feb. 7	1837	day	7	8	9
Feb. 8	1837	day	8	9	10
Feb. 9	1837	day	9	10	11
Feb. 10	1837	day	10	11	12
Feb. 11	1837	day	11	12	13
Feb. 12	1837	day	12	13	14
Feb. 13	1837	day	13	14	15
Feb. 14	1837	day	14	15	16
Feb. 15	1837	day	15	16	17
Feb. 16	1837	day	16	17	18
Feb. 17	1837	day	17	18	19
Feb. 18	1837	day	18	19	20
Feb. 19	1837	day	19	20	21
Feb. 20	1837	day	20	21	22
Feb. 21	1837	day	21	22	23
Feb. 22	1837	day	22	23	24
Feb. 23	1837	day	23	24	25
Feb. 24	1837	day	24	25	26
Feb. 25	1837	day	25	26	27
Feb. 26	1837	day	26	27	28
Feb. 27	1837	day	27	28	29
Feb. 28	1837	day	28	29	30
Feb. 29	1837	day	29	30	31
Mar. 1	1837	day	30	31	1
Mar. 2	1837	day	1	2	3
Mar. 3	1837	day	2	3	4
Mar. 4	1837	day	3	4	5
Mar. 5	1837	day	4	5	6
Mar. 6	1837	day	5	6	7
Mar. 7	1837	day	6	7	8
Mar. 8	1837	day	7	8	9
Mar. 9	1837	day	8	9	10
Mar. 10	1837	day	9	10	11
Mar. 11	1837	day	10	11	12
Mar. 12	1837	day	11	12	13
Mar. 13	1837	day	12	13	14
Mar. 14	1837	day	13	14	15
Mar. 15	1837	day	14	15	16
Mar. 16	1837	day	15	16	17
Mar. 17	1837	day	16	17	18
Mar. 18	1837	day	17	18	19
Mar. 19	1837	day	18	19	20
Mar. 20	1837	day	19	20	21
Mar. 21	1837	day	20	21	22
Mar. 22	1837	day	21	22	23
Mar. 23	1837	day	22	23	24
Mar. 24	1837	day	23	24	25
Mar. 25	1837	day	24	25	26
Mar. 26	1837	day	25	26	27
Mar. 27	1837	day	26	27	28
Mar. 28	1837	day	27	28	29
Mar. 29	1837	day	28	29	30
Mar. 30	1837	day	29	30	31
Mar. 31	1837	day	30	31	1
Apr. 1	1837	day	1	2	3
Apr. 2	1837	day	2	3	4
Apr. 3	1837	day	3	4	5
Apr. 4	1837	day	4	5	6
Apr. 5	1837	day	5	6	7
Apr. 6	1837	day	6	7	8
Apr. 7	1837	day	7	8	9
Apr. 8	1837	day	8	9	10
Apr. 9	1837	day	9	10	11
Apr. 10	1837	day	10	11	12
Apr. 11	1837	day	11	12	13
Apr. 12	1837	day	12	13	14
Apr. 13	1837	day	13	14	15
Apr. 14	1837	day	14	15	16
Apr. 15	1837	day	15	16	17
Apr. 16	1837	day	16	17	18
Apr. 17	1837	day	17	18	19
Apr. 18	1837	day	18	19	20
Apr. 19	1837	day	19	20	21
Apr. 20	1837	day	20	21	22
Apr. 21	1837	day	21	22	23
Apr. 22	1837	day	22	23	24
Apr. 23	1837	day	23	24	25
Apr. 24	1837	day	24	25	26
Apr. 25	1837	day	25	26	27
Apr. 26	1837	day	26	27	28
Apr. 27	1837	day	27	28	29
Apr. 28	1837	day	28	29	30
Apr. 29	1837	day	29	30	31
Apr. 30	1837	day	30	31	1
May. 1	1837	day	1	2	3
May. 2	1837	day	2	3	4
May. 3	1837	day	3	4	5
May. 4	1837	day	4	5	6
May. 5	1837	day	5	6	7
May. 6	1837	day	6	7	8
May. 7	1837	day	7	8	9
May. 8	1837	day	8	9	10
May. 9	1837	day	9	10	11
May. 10	1837	day	10	11	12
May. 11	1837	day	11	12	13
May. 12	1837	day	12	13	14
May. 13	1837	day	13	14	15
May. 14	1837	day	14	15	16
May. 15	1837	day	15	16	17
May. 16	1837	day	16	17	18
May. 17	1837	day	17	18	19
May. 18	1837	day	18	19	20
May. 19	1837	day	19	20	21
May. 20	1837	day	20	21	22
May. 21	1837	day	21	22	23
May. 22	1837	day	22	23	24
May. 23	1837	day	23	24	25
May. 24	1837	day	24	25	26
May. 25	1837	day	25	26	27
May. 26	1837	day	26	27	28
May. 27	1837	day	27	28	29
May. 28	1837	day	28	29	30
May. 29	1837	day	29	30	31
May. 30	1837	day	30	31	1
May. 31	1837	day	1	2	3
June. 1	1837	day	2	3	4
June. 2	1837	day	3	4	5
June. 3	1837	day	4	5	6
June. 4	1837	day	5	6	7
June. 5	1837	day	6	7	8
June. 6	1837	day	7	8	9
June. 7	1837	day	8	9	10
June. 8	1837	day	9	10	11
June. 9	1837	day	10	11	12
June. 10	1837	day	11	12	13
June. 11	1837	day	12	13	14
June. 12	1837	day	13	14	15
June. 13	1837	day	14	15	16
June. 14	1837	day	15	16	17
June. 15	1837	day	16	17	18
June. 16	1837	day	17	18	19
June. 17	1837	day	18	19	20
June. 18	1837	day	19	20	21
June. 19	1837	day	20	21	22
June. 20	1837	day	21	22	23
June. 21	1837	day	22	23	24
June. 22	1837	day	23	24	25
June. 23	1837	day	24	25	26
June. 24	1837	day	25	26	27
June. 25	1837	day	26	27	28
June. 26	1837	day	27	28	29
June. 27	1837	day	28	29	30
June. 28	1837	day	29	30	31
June. 29	1837	day	30	31	1
June. 30	1837	day	1	2	3
July. 1	1837	day</			

Photo 10. An example of an original data table for the period of 1838-1839 (Poltava)

Photo 11. An example of an original data table for the period of 1847-1850 (**Poltava**)

Kamyanets-Podilsky

Longitude: **26°35'**; Latitude: **48°40'**; Height: **228**

Starting year: **1844**

Availability of data (data for such periods **ARE** available/present in original tables):

04.1844-11.1848 – 4 times/day: 8:00, 12:00, 16:00, 20:00

Other variables (measurements/observations)

- wind;
- atmosphere condition (state of atmosphere).

month and year

day

time

Month and year	Day	Time	Temperature	Wind pressure	Wind direction	Cloudiness	Atmospheric pressure	Mist	Fog	Dew point	Humidity	Atmospheric condition
January 1844	1	8:00	29.30	"	"	"	"	-3	30.34	20.38	30.35	"
	1	12:00	29.38	"	"	"	"	-0.6	30.32	20.38	30.35	"
	1	16:00	29.30	"	"	"	"	-5.2	30.32	20.38	30.35	"
	1	20:00	29.33	"	"	"	"	-6	30.42	20.38	30.35	"
January 1845	1	8:00	29.12	"	"	"	"	-0.2	30.32	20.38	30.35	"
	1	12:00	29.36	"	"	"	"	-0.6	30.32	20.38	30.35	"
	1	16:00	29.40	"	"	"	"	-0.6	30.32	20.38	30.35	"
	1	20:00	29.46	"	"	"	"	-0.6	30.32	20.38	30.35	"
January 1846	1	8:00	29.03	"	"	"	"	-8	30.58	20.58	30.60	"
	1	12:00	29.50	"	"	"	"	-8	30.58	20.58	30.60	"
	1	16:00	29.50	"	"	"	"	-8	30.58	20.58	30.60	"
	1	20:00	29.50	"	"	"	"	-8	30.58	20.58	30.60	"
January 1847	1	8:00	29.50	"	"	"	"	-12.2	30.61	20.61	30.63	"
	1	12:00	29.50	"	"	"	"	-3.5	30.61	20.61	30.63	"
	1	16:00	29.50	"	"	"	"	-12	30.61	20.61	30.63	"
	1	20:00	29.50	"	"	"	"	-12	30.61	20.61	30.63	"
January 1848	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1849	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1850	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1851	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1852	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1853	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1854	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1855	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1856	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1857	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1858	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1859	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1860	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1861	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1862	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1863	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1864	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1865	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1866	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1867	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1868	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1869	1	8:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	12:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	16:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
	1	20:00	29.50	"	"	"	"	-13	30.42	20.42	30.45	"
January 1870	1	8:00	29.50	"	"	"	"	-				

Lugansk

The station was relocated in 1843

Longitude: **39°15'**; Latitude: **48°34'**; Height: **62 m**

Starting year: **1827**

Availability of data (data for such periods **ARE** available/present in original tables):

1827-1850

Number of subdaily air temperature and pressure measurements:

1827.01.01-1827.05.31 – 2 times/day: morning, midday (only temperature, see Photo 13);

1827.06.01-1827.09.16 – 1 time/day: midday (only temperature);

1827.09.17-1828.01.21 – 2 times/day: morning, midday (only temperature);

1828.01.22-1829.08.31 – 3 times/day: morning, midday, evening (only temperature, see Photo 14);

1829.09.01-1837.03.31 – 3 times/day: morning, midday, evening (see Photo 15);

1837.04.01-1850 – 8 times/day: 8:00, 10:00, 12:00, 14:00, 16:00, 18:00 20:00, 22:00 (see Photo 16,17,18);

- pressure observations were conducted since 01.09.1829 (see Photo 15);

- temperature of barometer: since 01.04.1837;

- height of barometer (air pressure adjusted to temperature of $13\frac{1}{3}$ R): since 01.02.1838 (see Photo 18).

Other variables (measurements/observations):

- wind (see Photo 16);

- atmosphere condition (state of atmosphere) (see Photo 16);

- precipitation (since 01.02.1837) (see Photo 17)

- humidity (vapor pressure)/упругость паровъ (see Photo 17)

Day of month	January Month		Wind	Atmosphere
	Morning	Midday		
1	13.18	N	clear	clear
2	2.7	S	cloudy	cloudy
3	12.15	N	overcast	overcast
4	7.7	NE	clear	clear
5	12.18	S	cloudy	cloudy
6	2.17	SE	clear	clear
7	-6.-1	W	cloudy	cloudy
8	-8.-3	E	overcast	overcast
9	-8.-6	SW	overcast	overcast
10	-4.7.9	W	overcast	overcast
11	-5.-2	SE	overcast	overcast
12	6.3.10	W	overcast	overcast
13	-2.7.3	SE	overcast	overcast
14	4.16.0	W	overcast	overcast
15	6.-3.	W	overcast	overcast
16	-6.3.	W	overcast	overcast
17	-6.0.	SW	overcast	overcast
18	7.2.0	W	overcast	overcast
19	12.14.10	SE	overcast	overcast
20	-3.7.1	W	overcast	overcast
21	-4.13.9	W	overcast	overcast
22	1.7.6	SE	overcast	overcast
23	12.14.8	SE	overcast	overcast
24	12.14.1	SE	overcast	overcast
25	4.0.0	W	overcast	overcast
26	2.12.20	W	overcast	overcast
27	-5.-4.	SW	overcast	overcast
28	-8.-5.	SE	overcast	overcast
29	6.-4.	W	overcast	overcast
30	4.10.0	SE	overcast	overcast
31	0.0.	W	overcast	overcast

Photo 13. An example of an original data table for the period of 1827-1828 (**Lugansk**)

May Month

Day of month	Temperature			Wind	
	morning	midday	evening		
1	+ 7.0	+ 14.8	+ 17.0	S.W.	ganz trocken leicht, aufgeweicht Regen fehl.
2	+ 8.8	+ 17.3	+ 17.2	S.	ganz trocken mittlerer Wind.
3	+ 9.2	+ 14.7	+ 16.2	S.W.	ganz trocken. fehl.
4	+ 7.2	+ 16.9	+ 17.0	S.W.	ganz trocken. Regen, leicht Regenfall fehl.
5	+ 9.0	+ 15.2	+ 17.1	S.W.	ganz trocken. Regen, leicht Regenfall fehl.
6	+ 9.2	+ 16.8	+ 17.0	N.W.	ganz trocken. fehl.
7	+ 7.5	+ 21.0	+ 19.1	W.	ganz trocken. fehl.
8	+ 10.0	+ 21.0	+ 17.3	W.	ganz trocken. fehl.
9	+ 9.1	+ 22.9	+ 16.2	W.	ganz trocken. fehl.
10	+ 8.0	+ 23.7	+ 13.1	S.	mittlerer Wind. leicht, aufgeweicht Regen fehl.
11	+ 8.1	+ 17.1	+ 7.2	W.	ganz trocken. Regen und Regenfall fehl.
12	+ 7.5	+ 19.6	+ 8.5	N.W.	mittlerer Wind. Regen, Regenfall, leicht fehl.
13	+ 3.3	+ 15.5	+ 9.2	S.W.	mittlerer Wind. fehl.
14	+ 2.2	+ 20.4	+ 12.2		fehl.
15	+ 2.2	+ 20.3	+ 11.4		fehl und sehr wolkig
16	+ 7.2	+ 20.6	+ 17.0	S.	ganz trocken. fehl.
17	+ 9.7	+ 13.2	+ 10.2	S.W.	mittlerer Wind. fehl.
18	+ 7.3	+ 19.6	+ 10.1	S.O.	fehl. Regen und Regenfall fehl.
19	+ 10.0	+ 17.2	+ 10.0	S.W.	ganz trocken. fehl.
20	+ 10.1	+ 13.4	+ 9.7	S.W.	ganz trocken. fehl.
21	+ 9.1	+ 6.5	+ 6.2	W.	ganz trocken. fehl.
22	+ 2.7	+ 13.0	+ 11.1	W.	mittlerer Wind. fehl.
23	+ 7.3	+ 13.5	+ 10.0	S.W.	mittlerer Wind. fehl.
24	+ 9.1	+ 11.8	+ 11.5	S.W.	mittlerer Wind. fehl.
25	+ 8.2	+ 9.1	+ 10.6	S.W.	mittlerer Wind. fehl.
26	+ 9.2	+ 23.9	+ 15.5	S.W.	mittlerer Wind. fehl.
27	+ 11.1	+ 25.9	+ 16.1	S.O.	mittlerer Wind. fehl.
28	+ 13.0	+ 26.1	+ 16.1	S.O.	mittlerer Wind. fehl.
29	+ 14.1	+ 27.8	+ 17.2	S.O.	mittlerer Wind. fehl.
30	+ 13.6	+ 26.3	+ 16.1	S.W.	mittlerer Wind. fehl.
31	+ 13.0	+ 22.5	+ 15.9	S.W.	mittlerer Wind. fehl.
1.5	+ 23.0	+ 16.1			

May

Bemerkungen.

	Morg	Mittag	Ab.
Samstag am 12. Tag	72.2	166.8	113.9
19 -	165.4	313.5	209.2
27.6	257.6	480.3	319.1
Montag	7.66	15.49	10.29

Wetter 1 Wk. am Abend aufwärts gewichen von der West auf Ost.
Am zweiten Mittwoch war Süd auf Nord wechseln Regen und Regenfall.
Von Sonntag bis zu Montag 2 Wk. gestiegen war Süd auf Nord und oft
fehlend Regen, sonst viel Regenfall.
Am zweiten Mittwoch 1 Wk. war West auf Ost und fehlend Regen und Regenfall.
Witterung 5 Wk. seit zweiter Januar bis Ende April und Ost.
Witterung 1 Wk. nach Januar war Süd auf Ost aufgrund der Wind und Nord Ost.
Von Sonntag bis zu Montag 2 Wk. gestiegen war Süd auf Nord und oft
fehlend Regen, sonst viel Regenfall.
Am zweiten Mittwoch 1 Wk. war West auf Ost und fehlend Regen und Regenfall.
Lugansk gewif

Photo 14. An example of an original data table for the period of 1828-1829.08 (Lugansk)

day	morning			midday			evening			Remarks	
	temperature	pressure	Wind	time	Wind	Wind	time	Wind	Wind		
1	+2.3	29.73	S. genit.	SW. W.	+1.3.	29.72	S. genit.	SW.	-1.5	29.76	S. genit.
2	-0.2	29.77	S. genit.	SW. W.	+2.3.	29.80	S. genit.	SW. W.	-1.0	29.84	S. genit.
3	-3.1	29.79	S. genit.	SW. W.	+0.	29.94	S. genit.	SW. W.	-2.1	29.96	S. genit.
4	-5.5	29.80	S. genit.	SW. W.	+1.2.	29.94	S. genit.	SW. W.	-4.0	30.19	S. genit.
5	-6.1	29.80	S. genit.	SW. W.	+0.3.	29.94	S. genit.	SW. W.	+0.9.	30.10	S. genit.
6	+2.0	30.01	S. genit.	SW. W.	+4.0.	30.00	S. genit.	SW. W.	+2.8.	30.39	S. genit.
7	+6.1	29.88	S. genit.	SW. W.	+3.0.	29.89	S. genit.	SW. W.	+1.0	29.90	S. genit.
8	-1.1	29.95	S. genit.	SW. W.	+2.2.	29.88	S. genit.	SW. W.	-3.2	29.87	S. genit.
9	-6.2	29.92	S. genit.	SW. W.	+0.8.	29.81	S. genit.	SW. W.	-7.8	30.08	S. genit.
10	-10.1	29.85	S. genit.	SW. W.	+1.2.	29.74	S. genit.	SW. W.	-1.1	30.11	S. genit.
11	-3.0	30.00	S. genit.	SW. W.	+0.2.	29.91	S. genit.	SW. W.	-0.5	29.89	S. genit.
12	-9.2	29.85	S. genit.	SW. W.	+4.2.	29.86	S. genit.	SW. W.	+0.5.	29.89	S. genit.
13	-0.0	29.98	S. genit.	SW. W.	+0.1.	30.03	S. genit.	SW. W.	-1.7	29.98	S. genit.
14	-8.5	30.11	S. genit.	SW. W.	+6.5	30.21	S. genit.	SW. W.	-6.0	30.08	S. genit.
15	-9.3	30.25	S. genit.	SW. W.	+6.4	30.27	S. genit.	SW. W.	-12.0	30.32	S. genit.
16	-12.5	30.26	S. genit.	SW. W.	+5.2	30.28	S. genit.	SW. W.	-4.2	30.30	S. genit.
17	+0.8	30.02	S. genit.	SW. W.	+4.1.	30.00	S. genit.	SW. W.	+1.7	30.01	S. genit.
18	+2.1	29.82	S. genit.	SW. W.	+2.0.	29.89	S. genit.	SW. W.	-0.2	29.90	S. genit.
19	-0.9	29.91	S. genit.	SW. W.	+4.5.	29.93	S. genit.	SW. W.	-6.7	29.95	S. genit.
20	-5.7	29.97	S. genit.	SW. W.	+3.2.	30.00	S. genit.	SW. W.	-6.8	30.08	S. genit.
21	-8.1	29.15	S. genit.	SW. W.	+2.5.	30.26	S. genit.	SW. W.	-11.0	30.21	S. genit.
22	-13.5	29.41	S. genit.	SW. W.	+1.7.	30.40	S. genit.	SW. W.	-12.2	30.46	S. genit.
23	-9.9	30.57	S. genit.	SW. W.	+6.5	30.52	S. genit.	SW. W.	-8.8	30.52	S. genit.
24	-11.2	30.75	S. genit.	SW. W.	+7.3.	30.66	S. genit.	SW. W.	-10.0	30.68	S. genit.
25	-10.0	30.45	S. genit.	SW. W.	+2.3.	30.84	S. genit.	SW. W.	-11.0	30.82	S. genit.
26	-13.1	30.78	S. genit.	SW. W.	+0.0.	30.66	S. genit.	SW. W.	-7.1	30.66	S. genit.
27	-5.5	30.60	S. genit.	SW. W.	+4.3.	30.57	S. genit.	SW. W.	-6.1	30.58	S. genit.
28	-9.2	30.58	S. genit.	SW. W.	+8.4.	30.49	S. genit.	SW. W.	-9.2	30.68	S. genit.
29	-10.2	30.41	S. genit.	SW. W.	+7.5.	30.58	S. genit.	SW. W.	-11.0	30.54	S. genit.
30	-13.3	30.68	S. genit.	SW. W.	+8.1.	30.66	S. genit.	SW. W.	-11.6	30.63	S. genit.
31	-12.7	-	-	-	-87.9	-	-	-	-109.4	-	-

Photo 15. An example of an original data table for the period of 1829.09-1837.03 (Lugansk)

day	Wind speed			Wind speed			Wind speed			Wind speed			Remarks
	Time	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	
1	m	SW. C.	C.	SW. W.	W.	C.	W. C.	W.	W. C.	W. C.	W. C.	W. C.	Cloudy
2	w C	SW. SW.	SW. C.	SW. W.	W.	SW. C.	W.	W.	W.	W.	W.	W.	Cloudy
3	w	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
4	s	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
5	sw. w	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	Cloudy
6	w. C.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	Cloudy
7	w. C.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	Cloudy
8	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
9	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
10	m	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	Cloudy
11	e. C. C.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	Cloudy
12	e. C.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	Cloudy
13	m	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	Cloudy
14	m	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	W.	Cloudy
15	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
16	w. C.	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
17	w. C.	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
18	w. C.	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
19	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
20	w. C.	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
21	w. C.	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
22	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
23	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
24	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
25	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
26	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
27	o. y. m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
28	o. y. m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
29	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
30	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
31	m	W. C.	W. C.	W. C.	W.	W. C.	W.	W. C.	W.	W. C.	W.	W.	Cloudy
<i>Umero. 16 SW. W. W. 17 SW. 18. W. 19. W. 20. W. 21. W. 22. W. 23. W. 24. W. 25. W. 26. W. 27. W. 28. W. 29. W. 30. W. 31. W. 32. W. 33. W. 34. W. 35. W. 36. W. 37. W. 38. W. 39. W. 40. W. 41. W. 42. W. 43. W. 44. W. 45. W. 46. W. 47. W. 48. W. 49. W. 50. W. 51. W. 52. W. 53. W. 54. W. 55. W. 56. W. 57. W. 58. W. 59. W. 60. W. 61. W. 62. W. 63. W. 64. W. 65. W. 66. W. 67. W. 68. W. 69. W. 70. W. 71. W. 72. W. 73. W. 74. W. 75. W. 76. W. 77. W. 78. W. 79. W. 80. W. 81. W. 82. W. 83. W. 84. W. 85. W. 86. W. 87. W. 88. W. 89. W. 90. W. 91. W. 92. W. 93. W. 94. W. 95. W. 96. W. 97. W. 98. W. 99. W. 100. W. 101. W. 102. W. 103. W. 104. W. 105. W. 106. W. 107. W. 108. W. 109. W. 110. W. 111. W. 112. W. 113. W. 114. W. 115. W. 116. W. 117. W. 118. W. 119. W. 120. W. 121. W. 122. W. 123. W. 124. W. 125. W. 126. W. 127. W. 128. W. 129. W. 130. W. 131. W. 132. W. 133. W. 134. W. 135. W. 136. W. 137. W. 138. W. 139. W. 140. W. 141. W. 142. W. 143. W. 144. W. 145. W. 146. W. 147. W. 148. W. 149. W. 150. W. 151. W. 152. W. 153. W. 154. W. 155. W. 156. W. 157. W. 158. W. 159. W. 160. W. 161. W. 162. W. 163. W. 164. W. 165. W. 166. W. 167. W. 168. W. 169. W. 170. W. 171. W. 172. W. 173. W. 174. W. 175. W. 176. W. 177. W. 178. W. 179. W. 180. W. 181. W. 182. W. 183. W. 184. W. 185. W. 186. W. 187. W. 188. W. 189. W. 190. W. 191. W. 192. W. 193. W. 194. W. 195. W. 196. W. 197. W. 198. W. 199. W. 200. W. 201. W. 202. W. 203. W. 204. W. 205. W. 206. W. 207. W. 208. W. 209. W. 210. W. 211. W. 212. W. 213. W. 214. W. 215. W. 216. W. 217. W. 218. W. 219. W. 220. W. 221. W. 222. W. 223. W. 224. W. 225. W. 226. W. 227. W. 228. W. 229. W. 230. W. 231. W. 232. W. 233. W. 234. W. 235. W. 236. W. 237. W. 238. W. 239. W. 240. W. 241. W. 242. W. 243. W. 244. W. 245. W. 246. W. 247. W. 248. W. 249. W. 250. W. 251. W. 252. W. 253. W. 254. W. 255. W. 256. W. 257. W. 258. W. 259. W. 260. W. 261. W. 262. W. 263. W. 264. W. 265. W. 266. W. 267. W. 268. W. 269. W. 270. W. 271. W. 272. W. 273. W. 274. W. 275. W. 276. W. 277. W. 278. W. 279. W. 280. W. 281. W. 282. W. 283. W. 284. W. 285. W. 286. W. 287. W. 288. W. 289. W. 290. W. 291. W. 292. W. 293. W. 294. W. 295. W. 296. W. 297. W. 298. W. 299. W. 300. W. 301. W. 302. W. 303. W. 304. W. 305. W. 306. W. 307. W. 308. W. 309. W. 310. W. 311. W. 312. W. 313. W. 314. W. 315. W. 316. W. 317. W. 318. W. 319. W. 320. W. 321. W. 322. W. 323. W. 324. W. 325. W. 326. W. 327. W. 328. W. 329. W. 330. W. 331. W. 332. W. 333. W. 334. W. 335. W. 336. W. 337. W. 338. W. 339. W. 340. W. 341. W. 342. W. 343. W. 344. W. 345. W. 346. W. 347. W. 348. W. 349. W. 350. W. 351. W. 352. W. 353. W. 354. W. 355. W. 356. W. 357. W. 358. W. 359. W. 360. W. 361. W. 362. W. 363. W. 364. W. 365. W. 366. W. 367. W. 368. W. 369. W. 370. W. 371. W. 372. W. 373. W. 374. W. 375. W. 376. W. 377. W. 378. W. 379. W. 380. W. 381. W. 382. W. 383. W. 384. W. 385. W. 386. W. 387. W. 388. W. 389. W. 390. W. 391. W. 392. W. 393. W. 394. W. 395. W. 396. W. 397. W. 398. W. 399. W. 400. W. 401. W. 402. W. 403. W. 404. W. 405. W. 406. W. 407. W. 408. W. 409. W. 410. W. 411. W. 412. W. 413. W. 414. W. 415. W. 416. W. 417. W. 418. W. 419. W. 420. W. 421. W. 422. W. 423. W. 424. W. 425. W. 426. W. 427. W. 428. W. 429. W. 430. W. 431. W. 432. W. 433. W. 434. W. 435. W. 436. W. 437. W. 438. W. 439. W. 440. W. 441. W. 442. W. 443. W. 444. W. 445. W. 446. W. 447. W. 448. W. 449. W. 450. W. 451. W. 452. W. 453. W. 454. W. 455. W. 456. W. 457. W. 458. W. 459. W. 460. W. 461. W. 462. W. 463. W. 464. W. 465. W. 466. W. 467. W. 468. W. 469. W. 470. W. 471. W. 472. W. 473. W. 474. W. 475. W. 476. W. 477. W. 478. W. 479. W. 480. W. 481. W. 482. W. 483. W. 484. W. 485. W. 486. W. 487. W. 488. W. 489. W. 490. W. 491. W. 492. W. 493. W. 494. W. 495. W. 496. W. 497. W. 498. W. 499. W. 500. W. 501. W. 502. W. 503. W. 504. W. 505. W. 506. W. 507. W. 508. W. 509. W. 510. W. 511. W. 512. W. 513. W. 514. W. 515. W. 516. W. 517. W. 518. W. 519. W. 520. W. 521. W. 522. W. 523. W. 524. W. 525. W. 526. W. 527. W. 528. W. 529. W. 530. W. 531. W. 532. W. 533. W. 534. W. 535. W. 536. W. 537. W. 538. W. 539. W. 540. W. 541. W. 542. W. 543. W. 544.</i>													

Photo 17. An example of an original data table for the period of 1837.04-1850 (Lugansk).

Photo 18. An example of an original data table for the period of 1837.04-1850 (**Lugansk**)

Dnipro

Longitude: 35°03'; Latitude: 48°27'; Height: 98 (85?)

Starting year: 1833

Pressure and temperature data. Availability of data (data for such periods **ARE** available/present in original tables):

1833-1842 – 3 times/day: morning (10:00), midday (14:00), evening (22:00);
1850 – 3 times/day: morning (10:00), midday (14:00), evening (22:00).

Other variables (measurements/observations) (see Photos below):

- wind; - clouds.

Photo 19. An example of an original data table for the period of 1839-1842 (**Dnipro**)

Photo 20. An example of an original data table for the period of 1839-1842 (**Dnipro**)

Photo 21. An example of an original data table for the period of 1839-1842 (**Dnipro**)

Photo 22. An example of an original data table for the period of 1850 (**Dnipro**)

Photo 23. An example of an original data table for the period of 1850 (**Dnipro**)

Kherson

The station seems to be relocated in 1825 and 1837 (however, there is no exact information regarding these relocations).

Longitude: **32°34'**; Latitude: **46°38'**; Height: **20 m**

Starting year: **1808**

Availability of data (data for such periods **ARE** available/present in original tables):

1808.11;
1809;
1810.1-5, 9-12;
1811.1-5;
1812-1814;
1815.1-11;
1817.4-12;
1818.1-2;
1823.8-12;
1824.9-10;
1825-1826;
1827.1-6;
1837.1-4;
1838;
1839.1-6.

Number of subdaily air temperature and pressure measurements:

1808-1825.02 - 3 times/day: 06:00, 14:00, 22:00 (see Photo 24);

1825.03-1827 - 2 times/day: 10:00, 22:00. However, extreme temperature (Tn, Tx) was also measured (see Photo 25); There is also a column with ‘daily precipitation’, however it is always empty!

1837-1839 - 3 times/day: 06:00, 14:00, 22:00 (see Photo 26);

Other variables (measurements/observations) (see Photos below):

- ? сушь-сырость/dryness-wetness (it seems to be related to humidity)
- wind direction and speed
- clouds and precipitation in **words** (! состояние атмосферы/state of atmosphere)
- ? высота ординарной воды/height of ordinary water. (Probably, this variable is related to atmospheric precipitation)

Temperature

	ТЕРМОМЕТРЪ			Pressure	ГИГРОМЕТЪ Humidity?	Wind	В Ф Т	Высота ординарной воды в фунтах
	на C.	на Ю.	на Северъ					
1	Утро Полдень Вечеръ	+ 3.0 + 9.0 + 9.0	+ 4.0 + 5.3 + 5.3	99 - 62° 66°	Dryness Wetness	10	юго. в.	1
2	Утро Полдень Вечеръ	- 9.0 + 1.5 + 0.0	- 9.0 + 9.2 + 0.0	99 - 85° 83° 80°	2 3	10	юго.	7
3	Утро Полдень Вечеръ	- 1.5 + 9.0 + 1.0	- 9.0 + 9.6 + 1.0	99 - 80° 82° 80°	2 3	10	юго.	6
4	Утро Полдень Вечеръ	+ 0.0 + 9.0 + 0.0	+ 1.0 + 9.3 + 0.0	30 - 05° 05° 05°	40°	10	юго.	1
5	Утро Полдень Вечеръ	+ 1.0 + 2.0 + 0.0	+ 0.0 + 2.0 + 0.0	90 - 08° 80° 08°	23	10	юго.	6
6	Утро Полдень Вечеръ	- 1.0 + 2.0 + 0.0	- 1.0 + 3.0 + 0.0	90 - 00° 00° 00°	23 46 24	10	юго.	1
7	Утро Полдень Вечеръ	+ 1.0 + 1.0 + 0.0	+ 1.0 + 1.0 + 0.0	99 - 20° 20° 20°	2	10	юго.	1
8	Утро Полдень Вечеръ	- 1.0 + 2.0 + 2.0	- 0.0 + 0.0 + 0.0	99 - 70° 70° 70°	10	ВСВ	юго.	1
9	Утро Полдень Вечеръ	- 1.0 + 4.0 + 4.0	- 0.0 + 5.0 + 5.0	99 - 80° 75° 75°	14 19 19	СВ	сно.	1
10	Утро Полдень Вечеръ	- 0.0 + 4.0 + 2.0	+ 1.0 + 5.0 + 1.0	99 - 72° 72° 72°	16° 14 11	10	диагн.	1
11	Утро Полдень Вечеръ	+ 2.0 + 3.0 + 3.0	+ 2.0 + 4.0 + 4.0	99 - 93° 94° 94°	12 14 12	СВ	багни,	1
12	Утро Полдень Вечеръ	- 0.0 + 2.0 + 2.0	- 1.0 + 2.0 + 2.0	99 - 92° 92° 92°	20 20 20	С	багни и шквал снегов.	1
13	Утро Полдень Вечеръ	- 11.0 - 11.0 - 11.0	- 12.0 - 10.0 - 10.0	90 - 07° 08° 08°	27 27 27	СВ	багни.	1
14	Утро Полдень Вечеръ	- 15.0 - 15.0 - 15.0	- 12.0 - 10.0 - 10.0	90 - 00° 00° 00°	24 24 24	С	сно.	1
15	Утро Полдень Вечеръ	- 13.0 - 10.0 - 7.0	- 10.0 - 7.0 - 6.0	99 - 70° 70° 60°	10 10 10	СВ	сно.	1
16	Утро Полдень Вечеръ	- 3.0 + 3.0 + 2.0	- 0.0 + 0.0 + 0.0	99 - 78° 78° 78°	20 20 20	СВ	багни, сно. временно солнце.	1

Time of measurements

Day of month

morning

midday

evening

State of atmosphere

Height of ordinary water

Photo 24. An example of an original data table for the period of 1808-1825.02 (Kherson)

Year 1827

Month March

Days

Year	СОСТОЯНИЕ ТЕМПЕРАТУРЫ ПО РЕОМЕРОВУ ТЕРМОМЕТРУ.										Pressure	Wind	ПОГОДА.	Presipitation		
	Air temperature					State of atmosphere										
	Бд. во всекий часах по по- лудни- чным часам	Сред- ний час. по по- лудни- чным часам	Самая высокая пра- зда	Сред- ний час. по по- лудни- чным часам	Раз- ница $T_x + T_n$	Темпе- ратура воздуха всекий часов	Бд. во всекий часах по по- лудни- чным часам	Бд. во всекий часах по по- лудни- чным часам	Раз- ница $T_n - T_{water}$	Напра- вление воздуха в часах по по- лудни- чным часам	Сила ветра	Состоя- ние атмос- феры	Количество обла- чности	Интен- сивность обла- чности		
10:00	mean	T_x	T_n	2	$T_x - T_n$	T_{water}										
10:00	22:00															
1	+10.0	+6.2	8.6	+12.0	+2.8	8.8	10.0	+9.2	29.62	29.63	29.6	NE	максим.	0.00		
2	-12.5	6.8	9.3	19.0	6.5	9.5	9.4	29.65	29.66	29.6	E	W3SW	максим.	0.00		
3	-10.8	6.8	8.5	12.8	4.5	9.0	9.6	9.3	29.60	29.52	29.5	E	S1N	максим.	0.00	
4	-10.0	6.8	7.0	12.0	4.0	8.1	9.2	9.2	29.22	29.43	29.2	E	SSE	максим.	0.00	
5	-8.5	4.5	6.1	10.8	4.5	7.5	8.0	7.5	29.52	29.42	29.5	E	SE	максим.	0.00	
6	-9.5	5.8	7.0	10.0	2.0	7.1	8.6	8.5	29.52	29.53	29.5	E	SW	максим.	0.00	
7	-8.0	5.8	6.7	9.8	2.5	6.5	7.5	7.5	29.52	29.52	29.5	E	SW	максим.	0.00	
8	-6.5	2.0	4.0	8.4	2.5	5.4	5.9	5.5	29.52	29.50	29.5	E	SW	максим.	0.00	
9	-8.0	6.5	6.7	7.8	4.0	6.0	5.0	5.5	29.52	29.50	29.5	E	SW	максим.	0.00	
10	-12.5	6.0	8.0	13.5	4.0	8.7	9.5	9.5	29.52	29.50	29.5	E	SW	максим.	0.00	
11	-10.2	4.8	5.5	12.4	4.0	8.7	9.4	9.2	29.59	29.58	29.5	E	SW	максим.	0.00	
12	-10.8	3.0	4.9	12.7	5.0	2.0	3.0	9.5	29.52	29.50	29.5	E	SW	максим.	0.00	
13	-8.5	6.0	7.0	12.0	5.0	5.0	5.0	9.5	29.52	29.50	29.5	E	SW	максим.	0.00	
14	-8.5	6.0	7.0	12.0	5.0	5.0	5.0	9.5	29.52	29.50	29.5	E	SW	максим.	0.00	
15	-7.5	7.2	6.5	12.5	6.0	9.5	7.5	9.5	29.49	29.45	29.5	E	SW	максим.	0.00	
16	-10.4	8.6	9.5	15.0	6.2	12.6	8.8	9.5	29.42	29.37	29.4	E	SW	максим.	0.00	
17	-10.3	6.4	6.6	15.0	5.0	10.4	9.2	9.6	29.37	29.37	29.3	E	SW	максим.	0.00	
18	-7.0	6.0	6.5	15.0	5.0	6.4	7.0	9.0	29.37	29.37	29.3	E	SW	максим.	0.00	
19	-10.0	5.0	8.5	15.0	5.0	5.0	5.0	9.0	29.37	29.37	29.3	E	NW	максим.	0.00	
20	-10.1	8.5	10.5	15.0	5.0	9.1	7.8	9.6	29.30	29.27	29.3	E	NW	максим.	0.00	
21	-5.0	9.5	10.5	15.0	5.0	10.0	5.0	9.6	29.19	29.22	29.2	E	WW	максим.	0.00	
22	-10.0	7.0	7.5	15.0	4.0	3.0	5.0	9.6	29.22	29.24	29.2	E	WW	максим.	0.00	
23	-10.8	3.0	8.0	15.0	4.0	2.5	7.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
24	-10.1	7.0	8.0	15.0	4.0	2.5	7.0	9.6	29.32	29.30	29.3	E	WW	максим.	0.00	
25	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
26	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
27	-10.0	7.0	7.5	15.0	4.0	2.0	5.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
28	-10.1	7.0	7.5	15.0	4.0	2.0	5.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
29	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
30	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
31	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
1	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
2	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
3	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
4	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
5	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
6	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
7	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
8	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
9	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
10	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
11	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
12	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
13	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
14	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
15	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
16	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
17	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
18	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
19	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
20	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
21	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
22	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
23	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
24	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
25	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
26	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
27	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
28	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
29	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
30	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	
31	-10.8	6.0	10.0	15.0	4.0	2.0	6.0	9.6	29.32	29.32	29.3	E	WW	максим.	0.00	

(Kherson)

1825.03.14-1827

Photo 25. An example of an original data table for the period of 1825.03-1827 (Kherson)

	Air temperature ↓	Pressure	Humidity?	Wind	State of atmosphere
Bueno!	10 am morning	30.1	+3	0 mild	calm
New year's midday	-7°	0.	8	0	0.
Dec 26 evening	-6°	0.	-	0.	moderate wind
10 am	-10°	30.1	+2	0 mild	moderate wind
Nahgome.	-8°	0.	-	0 mild	calm
Dec 27	-7.5°	0.	-	0.	moderate wind
11 am	-10.5°	30.2	+2	0 mild	moderate wind
Nahgome	-14°	0.	-	NO expansive	0.
Dec 28	-4.5°	0.	-	0.	moderate wind
12 am	-6.5°	30.2	+4	NO expansive	0.
Nahgome	-3°	0.	-	0.	moderate wind
Dec 29	-8°	0.	-	NO expansive	0.
10 am	-11.5°	30.2	+7	NO expansive	0.
Nahgome	-8.5°	0.	-	0.	-
Dec 30	-9°	0.	-	0.	-
11 am	-13.5°	30.1	+5	NO expansive	moderate wind
Nahgome	-13.5°	0.	1	0.	0.
Dec 31	-10°	0.	-	0.	0.
Day	10 am morning	30.1	+3	0 mild	calm
10 am	-13.5°	30.3	+5	NO expansive	moderate wind
Nahgome	-9.5°	0.	-	0.	0.
Dec 31	-14°	30.2	-	NO expansive	0.
10 am	-8.5°	30.1	+4	NO expansive	moderate wind
Nahgome	-15.5°	0.	1	0.	0.
Dec 31	-3°	0.	-	0.	0.
10 am	-3°	30.1	0.	NO expansive	moderate wind
Nahgome	-13.5°	0.	-	0.	0.
Dec 31	-3°	0.	-	NO expansive	0.
10 am	-8.5°	30.2	-2	0. mild	calm
Nahgome	-13.5°	0.	-	NO expansive	0.
Dec 31	-1°	0.	-	NO expansive	0.
10 am	-6.5°	30.2	-2	NO expansive	moderate wind
Nahgome	0°	0.	-	0.	0.
Dec 31	-12.5°	30.2	-2	0.	0.
10 am	-7.5°	30.1	-1	NO expansive	moderate wind
Nahgome	-14°	0.	-	0.	0.
Dec 31	-13°	30.2	-2	NO expansive	0.

Photo 26. An example of an original data table for the period of 1837-1839 (**Kherson**)

Odessa (Odesa university)

In Handbooks this station is also named as **Odessa_observatory**. The station was not relocated during 1839-1850

Longitude: **30°46'**; Latitude: **46°26'**; Height: **43 m**

Starting year: 1839

Availability of data (data for such periods **ARE** available/present in original tables):

1839.04 – 1850.06.13

Number of subdaily air temperature and pressure measurements:

1839.04 – 4 times/day: 06:00, 12:00, 16:00, 21:00.

1839.05 – 5 times for pressure: 04:00, 6:00, 12:00, 16:00, 21:00. And 7 times for temperature: 04:00, 6:00, 12:00, 14:00, 16:00, 18:00, 21:00

1839.06 - 07. - 6 times for pressure: 04:00, 6:00, 12:00, 16:00, 18:00, 21:00. And 7 times for temperature: 04:00, 6:00, 12:00, 14:00, 16:00, 18:00, 21:00

1839.08 - 12 - 5 times for pressure: 6:00, 12:00, 16:00, 18:00, 21:00. And 6 times for temperature: 6:00, 12:00, 14:00, 16:00, 18:00, 21:00

1840 - 1841 – 5 times for pressure: 9:00, 12:00, 16:00, 18:00, 21:00. And 6 times for temperature: 6:00, 9:00, 12:00, 16:00, 18:00, 21:00

1842 01 01 - 1842 02 19 3 times: 9:00 15:00 21:00

1842.01.01 - 1842.02.19 - 3 times. 9:00, 15:00, 21:00.
1842.02.19 - 1842.09.22 - 3 times for pressure: 9:00, 15:00, 21:00. And 5 times for temperature: 6:00, 9:00, 12:00, 15:00, 18:00, 21:00.

1842 0923 - 1842 10 15 3 times: 9:00, 15:00, 21:00

1842.10.16 - 1850 – commonly 3 times for pressure: 9:00, 15:00, 21:00. And 5 times for temperature: 6:00, 9:00, 12:00, 15:00, 18:00, 21:00.

However, some particular measurement time can differ, for instance, 08:00 instead of 09:00 in several days.

Also temperature of barometer is also reported in the tables, see Photos 27 and 28

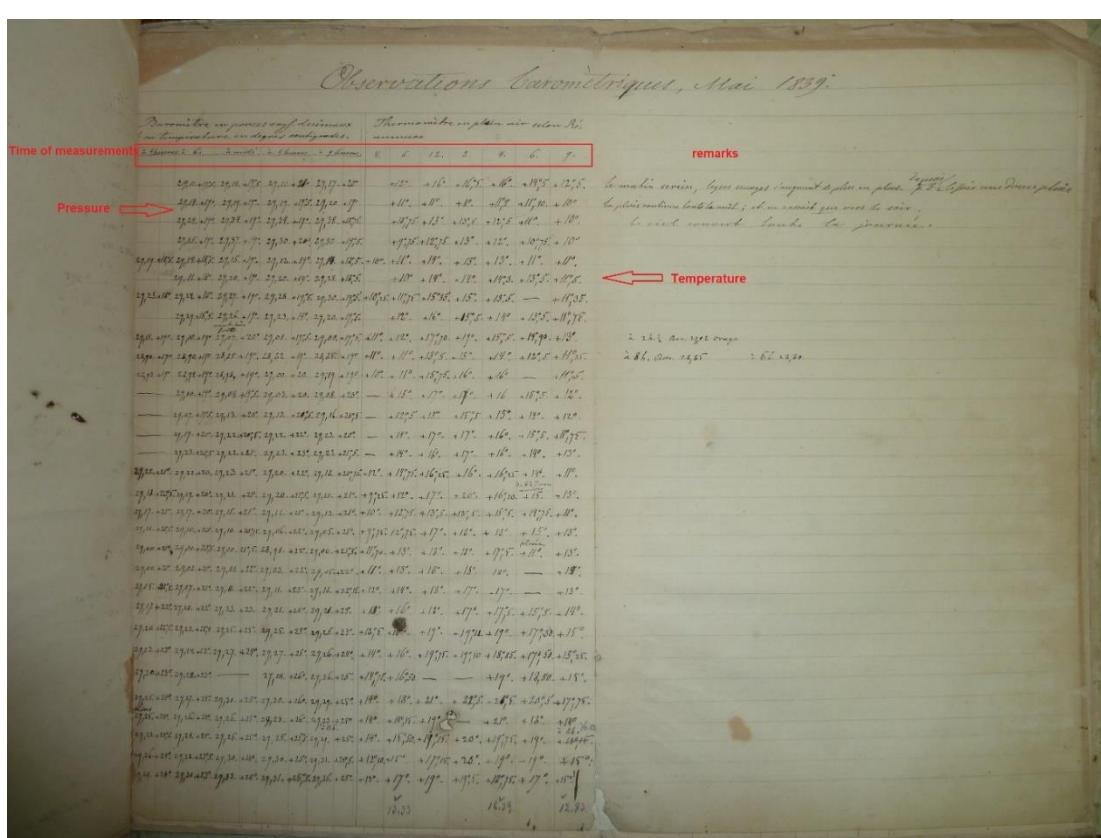


Photo 27. An example of an original data table for the period of 1839-1841 (**Odessa**)

1843 April.

Time of measurements		
Pressure	6	Sorin - 1°.
	9	28.218 + 15° Sorin + 5°.
	12	Sorin + 8°.
	3	28.074 + 15° Sorin + 9°.
	6	Ligors meages + 6°.
	9	28.194 + 15° Sorin + 4°.
		2.
	6	Sorin + 1,5°.
	9	28.204 + 15° Ligors meages + 7°.
	12	Sorin. Vent. + 9°.
	3	28.154 + 15° Sorin. Vent. + 9°.
	6	Sorin. Vent. + 5°.
	9	28.109 + 15° Sorin. Vent. + 3°.
		3.
	6	Niagarex + 5°.
	9	28.074 + 15° Trop. ligors meages + 8°.
	12	Sorin + 10°.
	3	28.027 + 15° Sorin + 11°.
	6	Niagarex + 8°, 25°.
	9	27.1495 + 15° Sorin + 6°.
		4.
	6	Niagarex ligors + 3°, 25°.
	9	27.1136 + 15° Sorin + 8°, 25°.
	12	Sorin. Vent. fort. + 11°, 50°.
	3	27.1038 + 15° Niagarex. Vent. + 10°.
	6	Niagarex. Vent. fort. + 6°, 50°.
	9	27.1060 + 15°, 25°. Concert. + 7°.
		5.
	6	Sorin - 1°.
	9	28.06 + 15° Sorin. + 5°, 50°.
	12	Ligors meages. Vent. fort + 7°.
	3	27.144 + 15° Niagarex. Vent. fort + 8°.
	6	Niagarex. Vent. fort + 5°.
	9	27.1479 + 15°. Niagarex. Vent. fort + 11°, 50°.
		6.
	6	Sorin. ligors. Calm. + 6°.
	9	27.058 + 15° Niagarex + 9°.
	12	Niagarex. Vent. + 11°.
	3	27.1006 + 15°, 50° Ligors meages. Vent. + 13°, 50°.
	6	Niagarex. Vent. + 9°, 50°.
	9	27.114 + 15°, 25° Sorin. Vent. + 8°, 50°.

Photo 28. An example of an original data table for the period of 1842-1850 (Odessa)