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*****************************************************************************
*                                                                           *
*                    P R O G R A M     K O M I N                            *
*                                                                           *
*              1986-2010    wersja 6.10  z dnia:  06.02.2010               *
*  Opracowany wedlug Rozporzadzenia Ministra Srodowiska z dnia 26.01.2010 r.  *
* Autor: Jacek Iwanek - EkoSoft, tel: 022 8472255, e-mail:ekosoft@pro.onet.pl *
*                                                                           *
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*                                                                           *
*                                                                           *
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                                                Data: 2023.7.17   22:41:2
Nazwa zbioru danych:  dnchco
Nazwa zbioru wynikow: wnchco
```

Biogazownia Nowa Chelmza

ZANIECZYSZCZENIE : CO

Oznaczenia: H - formula HOLLANDA
C - formula CONCAWE

Emitor numer	Nazwa emitora	x[m]	y[m]	h[m]	d[m]	v[m/s]	T[K]	TO[K]	Q[MW]	FORM.	Emisja [g/s]	Smm [ug/m3]	Xmm [m]	stan row.	Ua [m/s]	CEMIS	EMISJA [t/rok]	AKTYWNY W PODOKRESIE				
1	E1 Komin modul kogeneracyjny	610	580	9.0	0.30	24.77	453	282	0.2	H	0.90228	217.046	114	3	2	0.9589	27.2850	1			4	5
2	E2 Pochodnia awaryjna 1 (CHP)	590	530	10.4	1.27	3.91	1073	282	1.3	H	0.10800	18.172	85	4	7	0.0114	0.0389		2			
3	E3 Awaryjny kociol grzewczy	580	585	10.0	0.30	7.55	373	282	0.0	H	0.03334	22.445	128	4	1	0.0285	0.0300			3		
4	E4 Pochodnia awaryjna 2 (bio)	651	608	10.4	1.27	6.52	1073	282	2.2	H	0.18000	18.213	88	4	11	0.0285	0.1620				4	
5	E9 pojazdy e.zastepczy 1	315	20	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
6	E10 pojazdy e.zastepczy 2	340	100	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
7	E11 pojazdy e.zastepczy 3	375	185	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
8	E12 pojazdy e.zastepczy 4	410	275	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
9	E13 pojazdy e.zastepczy 5	440	365	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
10	E14 pojazdy e.zastepczy 6	470	460	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
11	E15 pojazdy e.zastepczy 7	530	495	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
12	E16 pojazdy e.zastepczy 8	550	540	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
13	E17 pojazdy e.zastepczy 9	530	585	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
14	E18 pojazdy e.zastepczy 10	570	625	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
15	E19 pojazdy e.zastepczy 11	600	680	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
16	E20 pojazdy e.zastepczy 12	570	740	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
17	E21 pojazdy e.zastepczy 13	630	775	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5
18	E22 pojazdy e.zastepczy 14	655	705	0.6	0.10	0.00	673	282	0.0	H	1.7E-0005	40.951	0	6	1	0.1142	0.0001					5

```
SZORSTKOSC    z0[m]        0.04
WYSOKOSC ANEMOMETRU ha[m]    14
WYSOKOSC OBLICZEN Z[m]     0.00

CZESTOSCI PRZEKROCZEN LICZONE DLA STEZEN PROGOWYCH [ug/m3]:
 1: 30000.000
```

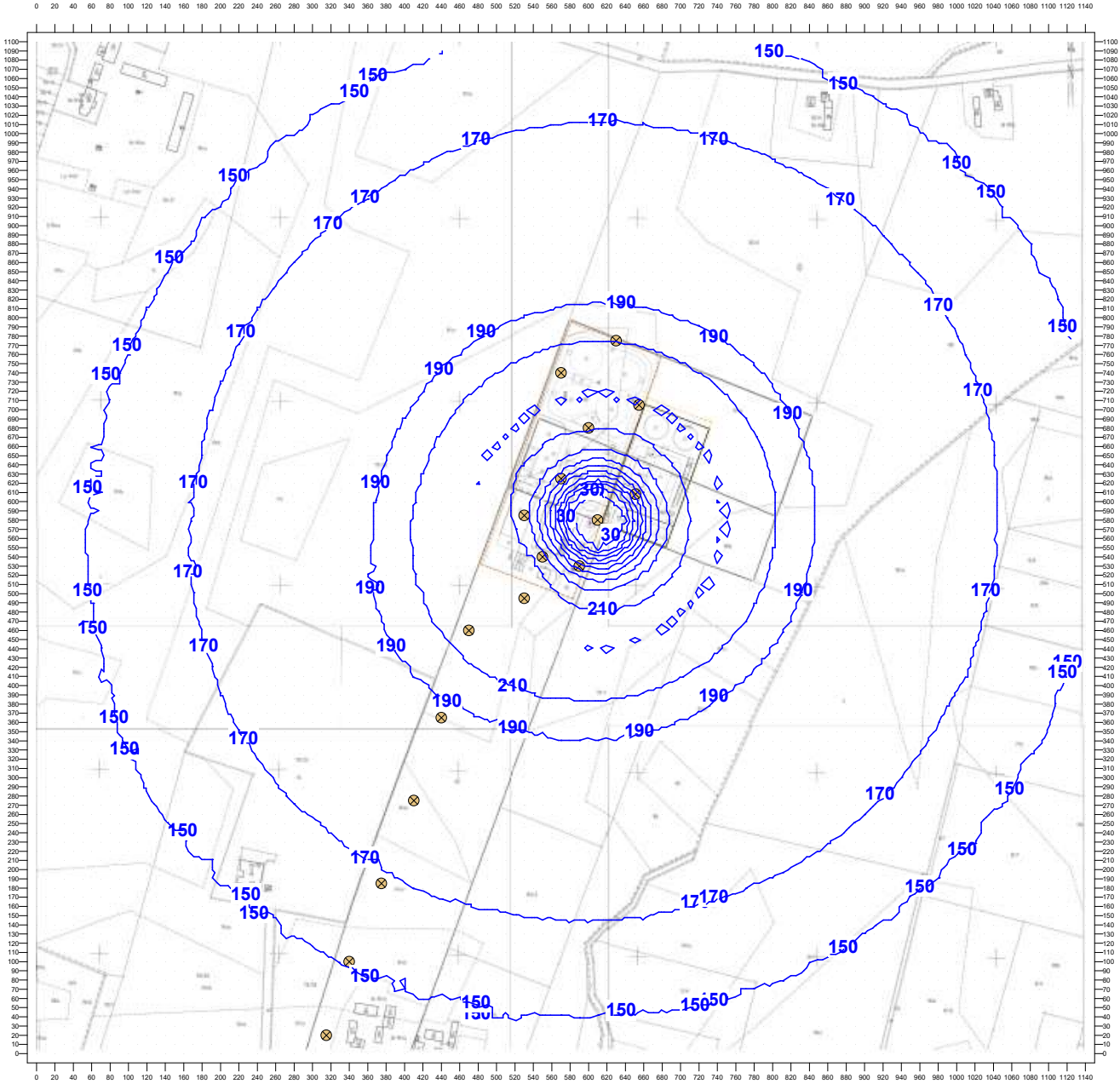
P O D O K R E S Y O B L I C Z E N I O W E

Nr	Nazwa	CEMIS	Roza wiatrow	Liczba emitorow aktywnych w podokresie	Emisja w podokresie [t]
1	kogenerator	0.8162	torun.r	1	23.2248
2	flara 1	0.0114	torun.r	1	0.0389
3	kociol aw.	0.0285	torun.r	1	0.0300
4	flara 2+CHP	0.0285	torun.r	2	0.9741
5	CHP+pojazdy	0.1142	torun.r	15	3.2489
				EMISJA ROCZNA	27.5167 [t]

Program Rww (C)EkoSoft
Zbiór wyników: C:\KOMIN_10\WNCHCO

Użytkownik: BIOGAS NORD POLSKA Sp. z o.o.

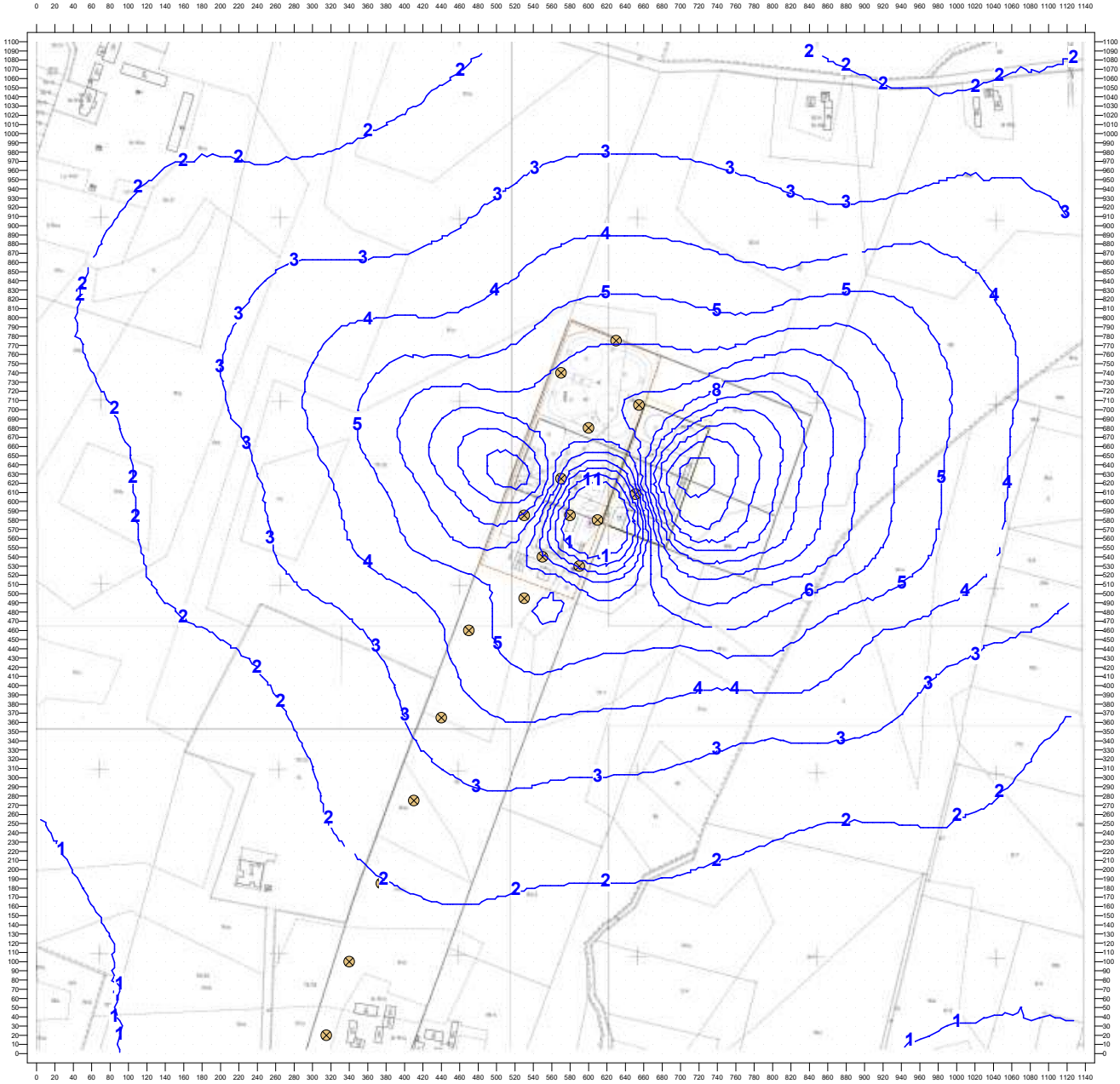
Biogazownia Nowa Chelmza
ZANIECZYSZCZENIE : CO
SKALA 1:7 000
Drukowany parametr: STĘŻENIA MAKSYMALNE 1-godz. [ug/m3]
Liczba punktów w siatce: 6383 maksimum: 224,8 w punkcie: x=510 y=530



Program Rww (C)EkoSoft
Zbiór wyników: C:\KOMIN_10\WNCHCO

Użytkownik: BIOGAS NORD POLSKA Sp. z o.o.

Biogazownia Nowa Chelmza
ZANIECZYSZCZENIE : CO
SKALA 1:7 000
Drukowany parametr: STĘŻENIA ŚREDNIE ROCZNE [ug/m3]
Liczba punktów w siatce: 6383 maksimum: 13,51 w punkcie: x=710 y=630



PROGRAM KOMIN (C) EkoSoft
Użytkownik: BIOGAS NORD POLSKA Sp. z o.o.

Biogazownia Nowa Chelmza

ZANIECZYSZCZENIE : CO

STEZENIA GAZOWE

X m	Y m	Sa ug/m3	Smax ug/m3	KL	Ua m/s	KAT st.	S99.8 ug/m3	S99.7 ug/m3	30000P %	Udz. %	Nr
0	0	0.829	139.407	6	2	46	75.532	64.246	0.0000	99	1
20	0	0.848	140.256	6	2	46	77.287	62.566	0.0000	99	1
40	0	0.910	140.304	6	2	44	78.992	62.175	0.0000	99	1
60	0	0.929	141.851	6	2	44	80.871	63.740	0.0000	99	1
80	0	0.983	141.905	6	2	42	89.409	82.699	0.0000	99	1
100	0	1.003	143.292	6	2	42	91.316	84.448	0.0000	99	1
120	0	1.041	143.338	6	2	40	93.154	86.377	0.0000	99	1
140	0	1.063	144.563	6	2	40	94.445	88.296	0.0000	99	1
160	0	1.093	145.129	6	2	38	95.730	90.164	0.0000	99	1
180	0	1.121	145.137	6	2	36	97.063	91.954	0.0000	100	1
200	0	1.143	146.118	6	2	36	98.185	93.874	0.0000	99	1
220	0	1.170	146.086	6	2	34	99.492	95.795	0.0000	100	1
240	0	1.196	146.484	6	2	32	100.595	97.542	0.0000	100	1
260	0	1.219	147.230	6	2	32	101.675	99.419	0.0000	99	1
280	0	1.243	147.128	6	2	30	102.840	101.220	0.0000	100	1
300	0	1.267	147.377	6	2	28	103.902	102.931	0.0000	100	1
320	0	1.288	147.579	6	2	26	104.888	104.564	0.0000	100	1
340	0	1.305	147.370	6	2	24	106.331	105.844	0.0000	100	1
360	0	1.325	147.856	6	2	24	107.801	106.828	0.0000	100	1
380	0	1.337	147.937	6	2	22	109.295	107.668	0.0000	100	1
400	0	1.341	147.986	6	2	20	110.820	108.541	0.0000	100	1
420	0	1.332	148.008	6	2	18	110.694	109.229	0.0000	100	1
440	0	1.306	147.723	6	2	16	110.547	91.336	0.0000	100	1
460	0	1.270	147.717	6	2	14	110.497	92.297	0.0000	100	1
480	0	1.241	147.698	6	2	12	110.818	93.106	0.0000	100	1
500	0	1.225	147.671	6	2	10	110.966	93.907	0.0000	100	1
520	0	1.218	147.640	6	2	8	110.945	94.539	0.0000	100	1
540	0	1.216	147.609	6	2	6	111.084	95.006	0.0000	100	1
560	0	1.216	147.583	6	2	4	111.061	95.474	0.0000	100	1
580	0	1.217	147.563	6	2	2	111.041	95.619	0.0000	100	1
600	0	1.218	147.553	6	2	360	111.027	95.769	0.0000	100	1
620	0	1.218	147.772	6	2	360	111.181	95.762	0.0000	100	1
640	0	1.215	147.562	6	2	358	111.021	95.741	0.0000	100	1
660	0	1.211	147.580	6	2	356	111.025	95.443	0.0000	100	1
680	0	1.207	147.605	6	2	354	111.039	94.968	0.0000	100	1
700	0	1.201	147.635	6	2	352	111.058	94.497	0.0000	100	1
720	0	1.193	147.665	6	2	350	110.918	93.866	0.0000	100	1
740	0	1.181	147.691	6	2	348	110.778	93.235	0.0000	100	1
760	0	1.160	147.709	6	2	346	110.148	92.277	0.0000	100	1
780	0	1.132	147.713	6	2	344	95.213	86.926	0.0000	100	1
800	0	1.108	147.699	6	2	342	90.341	75.555	0.0000	100	1
820	0	1.090	147.660	6	2	340	89.195	74.735	0.0000	100	1
840	0	1.075	147.593	6	2	338	88.035	73.742	0.0000	100	1
860	0	1.059	147.435	6	2	336	86.696	72.734	0.0000	100	1
880	0	1.040	147.354	6	2	336	85.306	71.683	0.0000	100	1
900	0	1.022	147.174	6	2	334	83.962	70.671	0.0000	100	1
920	0	1.004	146.948	6	2	332	82.564	69.451	0.0000	100	1
940	0	0.987	146.675	6	2	330	80.983	68.375	0.0000	100	1
960	0	0.972	146.275	6	2	328	79.542	67.118	0.0000	100	1
980	0	0.951	145.977	6	2	328	77.877	65.970	0.0000	100	1
1000	0	0.938	145.550	6	2	326	76.434	64.712	0.0000	100	1
1020	0	0.929	145.071	6	2	324	74.769	63.402	0.0000	100	1
1040	0	0.908	144.540	6	2	324	73.246	62.236	0.0000	100	1
1060	0	0.906	143.956	6	2	322	71.547	60.895	0.0000	100	1
1080	0	0.913	143.323	6	2	320	69.992	60.015	0.0000	100	1
1100	0	0.891	142.640	6	2	320	68.422	59.594	0.0000	100	1
1120	0	0.909	141.910	6	2	318	66.841	66.841	0.0000	100	1
1140	0	0.887	141.136	6	2	318	65.250	65.250	0.0000	100	1
10	10	0.847	140.243	6	2	46	77.159	62.721	0.0000	99	1
30	10	0.866	141.072	6	2	46	78.985	62.170	0.0000	99	1
50	10	0.930	141.139	6	2	44	80.848	63.779	0.0000	99	1
70	10	0.950	142.620	6	2	44	82.750	65.362	0.0000	99	1
90	10	1.004	142.686	6	2	42	91.462	84.560	0.0000	99	1
110	10	1.026	144.003	6	2	42	93.231	86.482	0.0000	99	1
130	10	1.065	144.053	6	2	40	94.567	88.389	0.0000	99	1
150	10	1.096	144.664	6	2	38	95.867	90.321	0.0000	99	1
170	10	1.119	145.730	6	2	38	97.228	92.295	0.0000	99	1
190	10	1.148	145.730	6	2	36	98.426	94.258	0.0000	100	1
210	10	1.171	146.631	6	2	36	99.709	96.182	0.0000	99	1
230	10	1.199	146.585	6	2	34	100.970	98.067	0.0000	100	1
250	10	1.226	146.932	6	2	32	102.067	99.971	0.0000	100	1
270	10	1.251	147.227	6	2	30	103.279	101.824	0.0000	100	1
290	10	1.276	147.470	6	2	30	104.296	103.648	0.0000	100	1
310	10	1.305	148.406	6	2	28	105.441	105.441	0.0000	99	1
330	10	1.323	147.812	6	2	26	107.253	106.437	0.0000	100	1
350	10	1.339	147.916	6	2	24	108.775	107.311	0.0000	100	1
370	10	1.351	147.661	6	2	22	110.478	108.363	0.0000	100	1

620	1100	2.148	152.337	5	2	182	131.924	115.032	0.0000	100	1
640	1100	2.147	152.178	5	2	184	131.710	114.786	0.0000	100	1
660	1100	2.142	153.070	5	2	186	131.405	114.498	0.0000	99	1
680	1100	2.135	152.608	5	2	188	130.829	113.991	0.0000	99	1
700	1100	2.124	152.001	5	2	190	130.098	113.312	0.0000	99	1
720	1100	2.109	151.253	5	2	192	129.247	112.527	0.0000	99	1
740	1100	2.088	150.367	5	2	194	128.278	111.640	0.0000	99	1
760	1100	2.064	149.349	5	2	196	127.030	111.317	0.0000	99	1
780	1100	2.037	148.710	6	3	198	125.677	111.384	0.0000	99	1
800	1100	2.009	148.003	6	3	200	124.158	111.399	0.0000	99	1
820	1100	1.980	147.218	6	3	202	122.591	111.357	0.0000	100	1
840	1100	1.949	147.992	6	3	204	120.807	111.252	0.0000	100	1
860	1100	1.915	147.584	6	2	206	119.001	111.187	0.0000	100	1
880	1100	1.881	147.612	6	2	208	117.049	111.042	0.0000	100	1
900	1100	1.847	147.681	6	2	210	115.123	110.739	0.0000	100	1
920	1100	1.806	147.829	6	2	210	113.065	110.628	0.0000	100	1
940	1100	1.776	147.799	6	2	212	110.901	110.251	0.0000	100	1
960	1100	1.753	147.706	6	2	214	108.765	108.765	0.0000	100	1
980	1100	1.744	147.548	6	2	216	106.585	106.585	0.0000	100	1
1000	1100	1.700	147.492	6	2	216	104.685	104.361	0.0000	100	1
1020	1100	1.707	147.030	6	2	218	103.347	102.049	0.0000	100	1
1040	1100	1.738	146.669	6	2	220	102.053	99.951	0.0000	100	1
1060	1100	1.693	146.469	6	2	220	100.673	97.608	0.0000	100	1
1080	1100	1.754	146.000	6	2	222	99.248	95.381	0.0000	100	1
1100	1100	1.851	145.192	6	2	224	99.893	93.148	0.0000	100	1
1120	1100	1.802	144.880	6	2	224	97.903	91.036	0.0000	99	1
1140	1100	1.913	143.901	6	2	226	95.940	94.824	0.0000	100	1

Koniec obliczen 22:41:31 Data:2023.7.17

Roza: Dane: dnchco Wyniki: wnchco

MAKSIMUM STEZENIA SREDNICH WYNOSI 13.511 ug/m3

710	630	13.511	216.878	3	2	244	203.847	200.728	0.00	100	1

MAKSIMUM STEZENIA MAKS. 1-godz. WYNOSI 224.750 ug/m3

510	530	5.285	224.750	3	2	64	189.864	188.413	0.00	96	1

MAKSIMUM PERCENTYLA S99.8 WYNOSI 209.370 ug/m3

740	680	11.228	216.691	4	2	232	209.370	209.370	0.00	100	1

MAKSIMUM PERCENTYLA S99.7 WYNOSI 209.370 ug/m3

740	680	11.228	216.691	4	2	232	209.370	209.370	0.00	100	1

MAKSIMUM CZESTOSCI PRZEKROCZEN STEZENIA 3.00E+04 ug/m3 WYNOSI 0.00 %

0	0	0.000	0.000	0	0	0	0.000	0.000	0.00	0	0