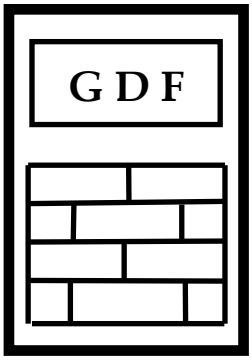
GDF DATA BANKS BULLETIN



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DTA study of water freezing.
II. Statistical features on one week of experiments

Introduction

After a long and intensive series of experiments the main conclusion of the previous work [1] was that freezing/crystallization of water and aqueous solutions is mainly driven by the mental field around the experimental site. The purpose of the present work is to reveal in more detail this aspect by taking the opportunity that in a period of ten days I was alone home without major external perturbations which is a good condition to strengthen the mental field. However, the actual as the previous results showed that mental field affecting water crystallization is the result of long range contributions, i.e. a social mental field. The experiments were carried out only in six days with an overall of 177 DTA scans on the same water sample (tap water successively boiled-cooled-succussed), so the evolution and influence of mental field should be obvious. In this work only data from IN VIVO DTA scans are considered by statistical analysis of induction time, ti, of crystallization (Ctr) process [1]. Histograms of ti distribution obtained in every day clearly revealed progressive narrowing and compacting of ti distributions explained by increase of mental field strength.

Experimental details

Experimental details were described in the previous work, so it needs to mention that tested water specimens were of 10 μL (L for litre). The water sample was prepared from tap water (Sydney area) on 1st December 2011 in the following manner: approximately 500 mL fresh tap water was boiled for 15 minutes, and cooled at room temperature; 30 mL was taken in a glass ampoule with a glass stopper and succussed at 2 Hz for 6 minutes. This sample was kept in my room all time.
Each IN VIVO DTA scan was followed by IN VITRO DTA scan on the same specimen revealing T1 and T2 melting processes [1]. These results will be analysed in a separate work.

Results

Values for ti and temperature (T) obtained in the six days are presented in Table 1. The Hour Of the Day (HOD) is the starting time of each DTA scan expressed in decimal mode. The main statistical parameters estimated are presented in Table 2. The first observation in good agreement with the previous results, is

that temperature has non-significant variations for all experiments, otherwise said, temperature variations has no effect on ti variations.
Figures 1-6 show the histograms for ti values obtained in each day of experiments and Figure 7 shows the histogram for all ti values. Histograms are obtained with the bin width of 50 s which is a close value to the rising time for Cin process from starting point to maximum value (32 s) and represents a reasonable resolution time for ti distribution. On the other hand, this time resulted as constant for all DTA scans proving a good repeatability of experimental conditions.
Graphic presentation of ti vs HOD does not reveal any correlation or coherency.
Taking into account that human mental state has a daily periodicity, the comparison of the six histograms reveals a clear progressive improvement especially in the last four days.
The following main observations must be pointed out:

(i) WA(bin width 50 s)/WA(bin width 25 s) = 1.029 ± 0.004 (Table 3) ;
(ii) values of range, WA and NDA decrease and this means daily ti distributions become more and more narrow;
(iii) intermediary empty bins progressively disappear;
(iv) the ratio NDA/WA = 0.942 ± 0.007 for all seven distributions reveals the same distribution law consistent with ND; this ratio can be used as a pattern of mental field-water interaction.
(v) results obtained Sun-23-Jan-2012 after one day off (Sat-22-Jan-2012) show that mental field is a long range contribution because in that weekend all my neighbours were in high and noisy domestic activity and this was a common situation over all suburbs around.

Concluding remarks

1. The above presented results clearly show that human mental field is an important driving potential for crystallization process of water.
2. The interaction mental field-water crystallization appears as the interaction between two masses: M = mass of mental field and m = crystalline component in water (Ctr), so that their coupling strength is proportional with (M*m/d^2), where d is the distance between the two mass centres.
3. Mental field affecting water crystallization is the result of social contributions and this interaction can be a measure of mass of social mental field triggering cancer and/or other diseases.

Reference

[1] G. Dragan, DTA study of water freezing. I. Upon some aspects of repeatability, GDF Databanks Bull., 16 (1), (2012).

Table 1. Raw experimental data obtained by IN VIVO DTA technique for crystallization of succussed water.

No.	THU-19/01/2012			FRI-20/01/2012			SUN-22/01/2012			MON-23/01/2012			TUE-24/01/2012			WED-25/01/2012		
	HOD	ti, s	T, K	HOD	ti, s	T, K	HOD	ti, s	T, K	HOD	ti, s	T, K	HOD	ti, s	T, K	HOD	ti, s	T, K
1	13.83	902	253.8	0.62	141	253.5	9.27	166	254.8	7.90	215	252.5	7.68	221	252.0	9.67	93	252.4
2	14.73	106	253.8	8.75	628	252.8	9.83	83	254.5	8.25	192	251.8	7.97	111	252.0	9.92	491	252.3
3	16.97	1126	253.8	9.22	337	252.3	10.12	136	254.2	8.57	412	251.8	8.25	548	252.0	10.30	422	252.1
4	17.67	678	253.8	9.60	514	252.0	10.48	211	254.3	8.98	402	251.7	8.65	736	252.0	10.65	448	252.0
5	18.23	936	254.3	10.05	407	252.0	10.80	176	254.6	9.35	378	251.7	9.12	726	252.0	11.00	232	252.0
6	18.90	221	252.3	10.50	557	252.0	11.15	498	254.6	9.70	504	251.6	9.58	654	252.0	11.30	299	251.9
7	19.60	221	252.3	10.95	251	252.0	11.90	108	254.7	10.13	502	251.6	9.98	120	252.0	11.62	81	251.9
8	20.02	469	252.4	11.37	513	252.2	12.18	824	254.9	10.57	161	251.5	10.30	565	252.1	11.87	400	251.9
9	20.45	94	252.1	11.90	862	252.2	12.67	1193	254.7	10.88	201	251.6	10.70	254	252.0	12.20	426	251.8
10	20.77	485	252.3	12.42	470	252.2	13.72	110	254.3	11.20	518	251.6	11.43	174	252.0	12.55	237	251.7
11	21.18	216	252.1	12.82	655	252.5	14.03	1310	254.2	11.63	699	251.6	11.73	412	252.0	12.83	327	251.7
12	21.62	117	252.2	13.30	182	252.6	15.50	925	253.5	12.08	386	251.6	12.10	602	251.9	13.13	128	251.7
13	21.92	343	252.4	13.67	117	252.7	16.28	591	253.2	12.48	499	251.6	12.58	465	251.8	13.40	284	251.7
14	22.17	523	252.4	14.62	375	252.1	16.75	166	253.2	12.92	434	251.7	12.95	434	251.9	13.68	100	251.7
15	22.82	523	252.5	16.87	108	253.3	17.08	1861	253.2	13.27	266	251.7	13.30	354	251.8	13.95	107	251.8
16	23.28	225	252.6	17.17	287	253.7	17.87	164	252.8	13.58	333	251.8	13.63	984	251.9	14.18	394	251.8
17	23.68	489	252.7	17.52	531	254.0	18.15	319	252.8	13.92	402	251.8	14.17	290	251.8	14.53	166	251.8
18				18.25	244	253.8	18.53	296	252.7	14.30	554	251.9	14.48	610	251.9	14.80	368	251.8
19				18.60	206	252.8	18.87	311	252.5	14.72	245	252.0	14.90	206	251.9	15.13	127	251.8
20				18.95	142	252.6	19.23	430	252.3	15.08	333	252.1	15.22	390	252.0	15.50	89	251.8
21				19.25	141	252.7	19.65	127	252.1	15.43	541	252.3	15.57	316	252.0	15.87	147	251.8
22				19.60	149	252.8	19.95	506	252.0	15.98	398	252.4	16.00	179	252.1	15.37	164	251.9
23				19.93	445	252.9	20.40	321	252.0	16.32	278	252.6	16.38	238	252.2	16.52	211	252.0
24				20.80	105	253.3	20.78	330	252.0	16.67	555	252.7	16.8	395	252.2	16.83	338	252.1
25				21.12	482	254.0	21.13	480	252.2	17.07	1085	252.8	17.08	382	252.3	17.15	198	252.2
26							21.57	288	252.3	17.60	409	253.0	17.60	580	252.3	17.45	118	252.2
27							21.93	520	252.6	17.98	478	253.1	18.00	413	252.4	17.72	119	252.3
28							22.17	525	252.6	18.38	568	253.2	18.37	193	252.4	17.98	389	252.3
29							22.75	291	252.8	18.82	488	253.3	18.67	393	252.9	18.32	339	252.3
30							23.12	284	253.0	19.23	282	253.3	19.03	531	253.3	18.63	378	252.3
31										19.6	699	253.3	19.43	243	253.2	18.97	219	252.5
32										20.02	485	253.4	19.73	264	253.0	19.27	172	252.7
33										20.38	295	253.1	20.07	416	253.2	19.58	395	252.9
34										21.17	389	253.0	20.43	833	253.4	19.92	310	253.0
35										21.55	676	253.0				20.23	448	253.2
36																20.60	527	253.4

HOD = Hour Of the Day expressed in decimal mode (for instance 16h:30 min = 16 + 30/60 = 16.50).

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Table 2. The main statistical data obtained on experimental values of ti and T.

date	ti , s								T , K			
	range	WA	NDA	NDSD	skew	kurt	NDA/WA	range/NDSD	NDA	NDSD	skew	kurt
Thu-19.01.2012	1106	476	451	310	0.83	-0.12	0.95	3.6	252.8	0.7	0.94	-0.85
Fri-20.01.2012	757	380	354	207	0.58	-0.32	0.93	3.7	252.8	0.7	0.62	-0.75
Sun-22.01.2012	1778	477	452	407	2.01	4.34	0.95	4.4	253.3	1	0.26	-1.52
Mon-23.01.2012	924	460	436	181	1.31	3.65	0.95	5.1	252.3	0.7	0.42	-1.51
Tue-24.01.2012	873	444	419	212	0.73	0.18	0.94	4.1	252.2	0.5	1.49	0.94
Wed-25.01.2012	446	288	269	134	0.16	-1.31	0.93	3.3	252.1	0.4	1.37	1.36
OVERALL	1780	415	391	255	1.96	6.86	0.94	7.0	252.5	0.8	1.14	0.64

range = max(ti) – min(ti);
WA = Weighted Average for bin width 50 s = sum(bin*freq)/sum(freq);
ND = Normal Distribution;
NDA = Normal Distribution Average;
NDSD = Normal Distribution Standard Deviation (68.3% confidence level);
Overall = all ti values;
skew = skewness of ND (d-less): > 0 asymmetry towards values > NDA; < 0 asymmetry towards values < NDA;
kurt = kurtosis of ND (d-less): > 0 relatively peaked; < 0 relatively flat.

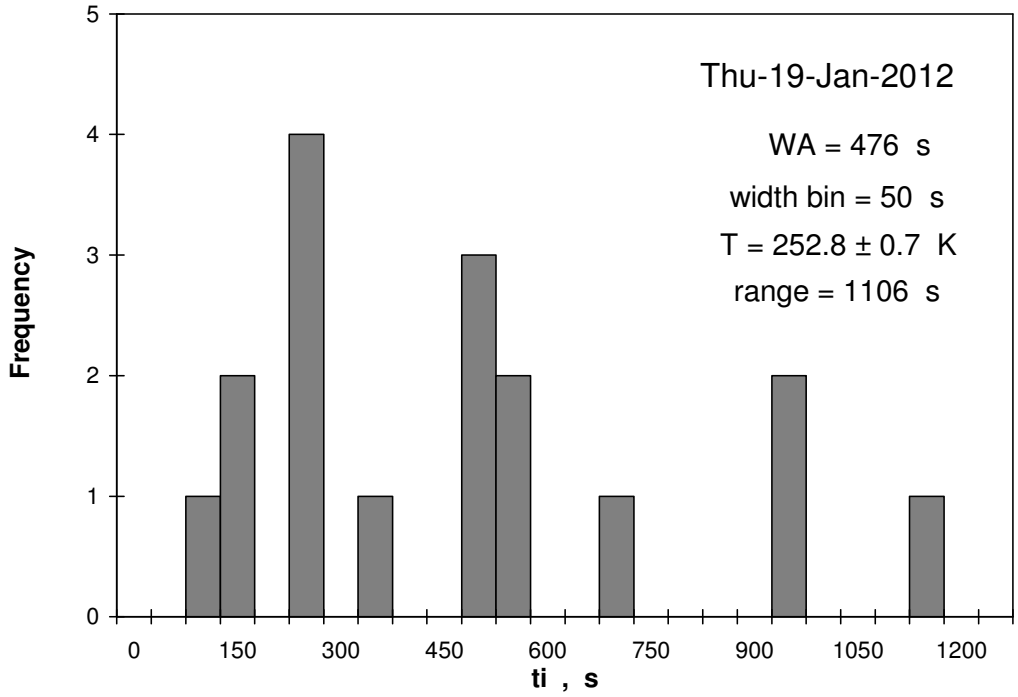

Figure 1.

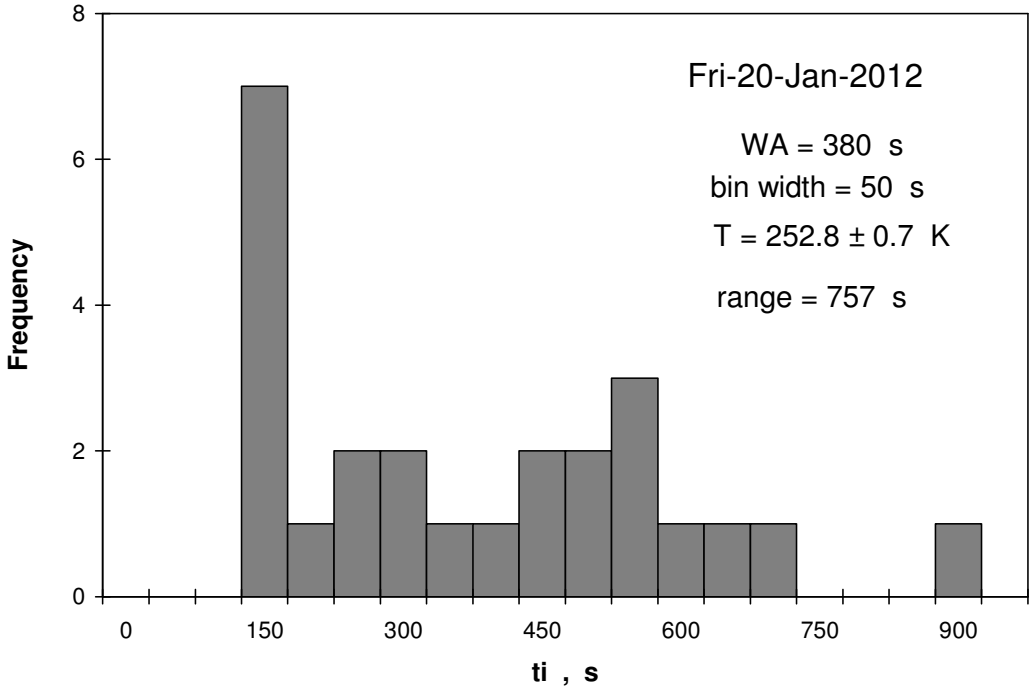

Figure 2.

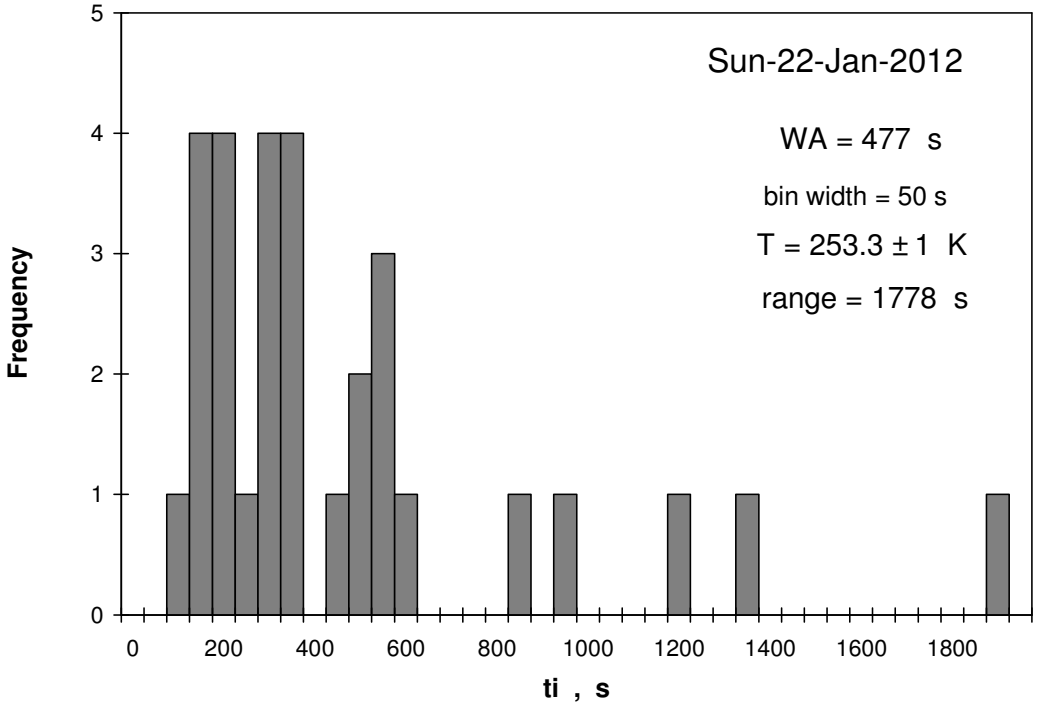

Figure 3.

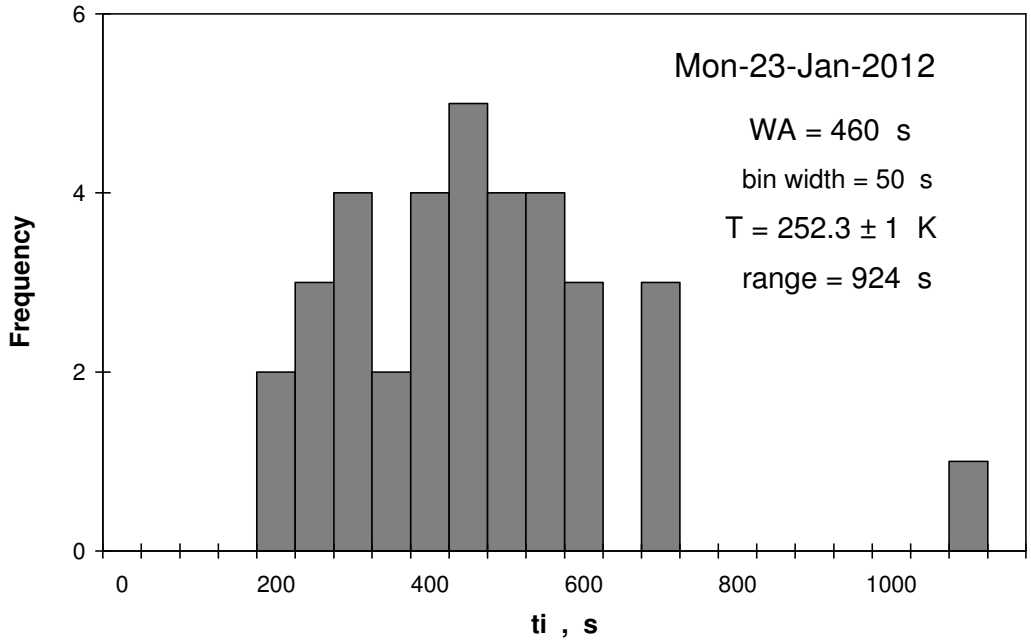

Figure 4.

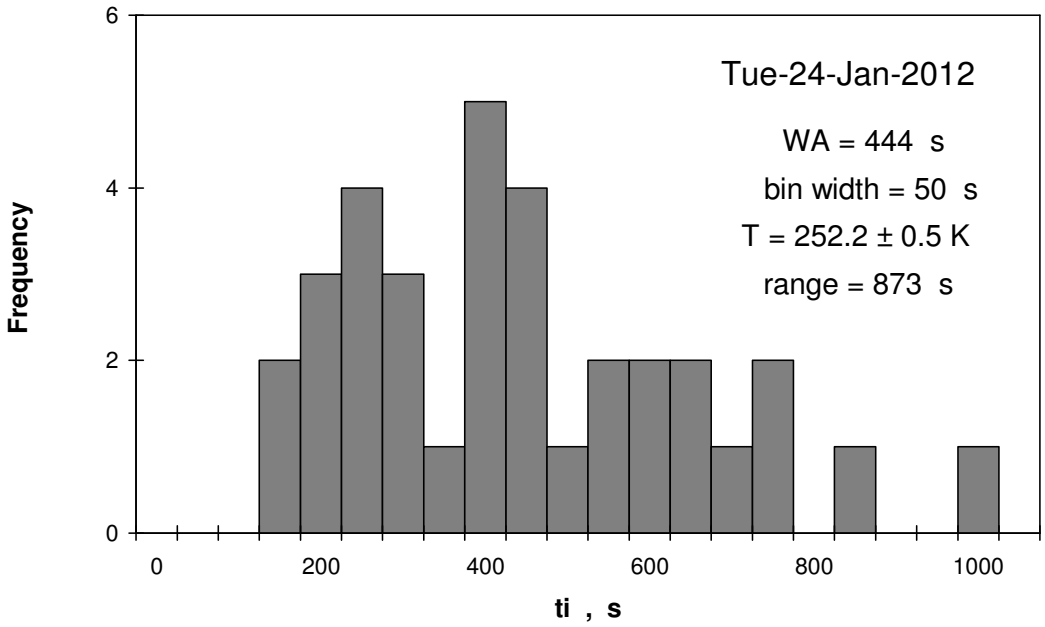

Figure 5.

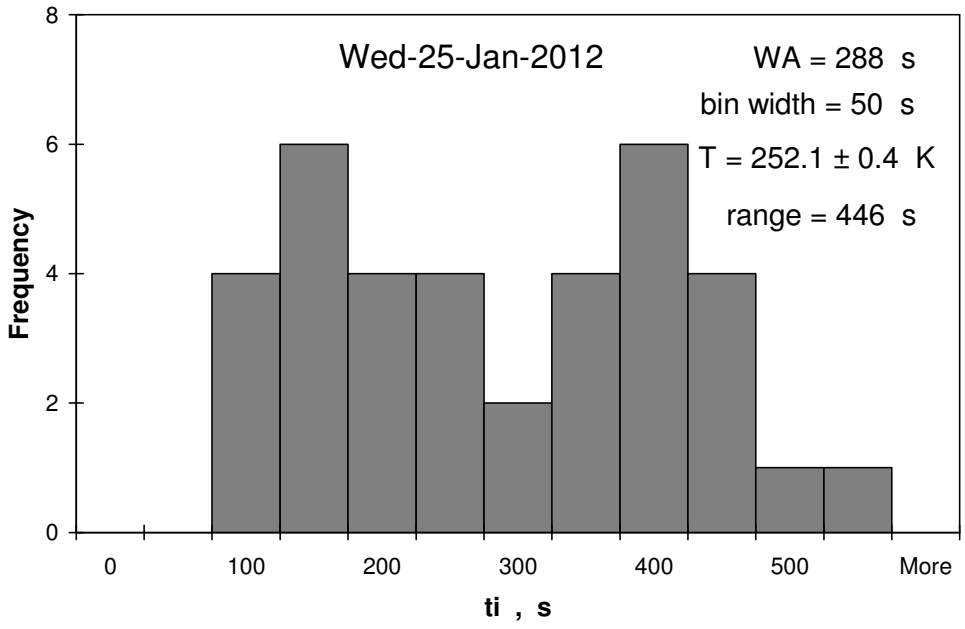

Figure 6.

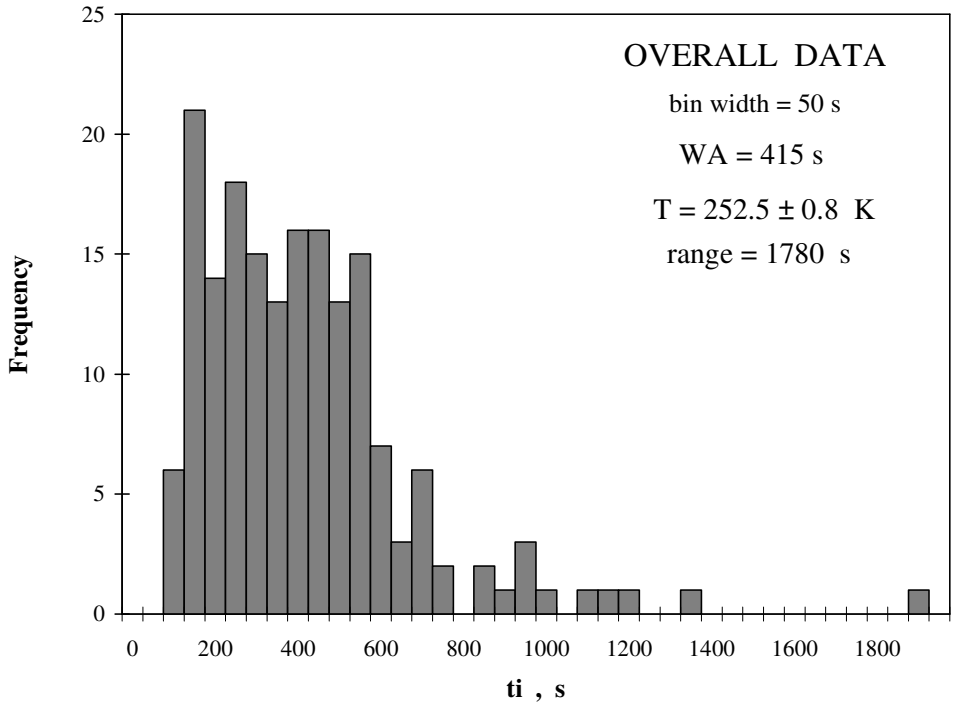

Figure 7.

Table 3.

date	WA#50 , s	WA#25 , s	WA#50/WA#25
Thu-19.01.2012	476	462	1.030
Fri-20.01.2012	380	367	1.035
Sun-22.01.2012	477	463	1.030
Mon-23.01.2012	460	450	1.022
Tue-24.01.2012	444	432	1.028
Wed-25.01.2012	288	280	1.029
OVERALL	415	404	1.027
NDA	420	408	1.029
NDSD	68	66	0.004

#50, #25 = bin width 50 s, 25 s.

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1998	2	2	Practical course of metrology (Romanian)	AFI
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2011	15	5	HuPoTest: four month study of a case	F
2012	16	1	DTA study of water freezing. I. Upon some aspects of repeatability.	F

*) F=free, AFI=ask for invoice.

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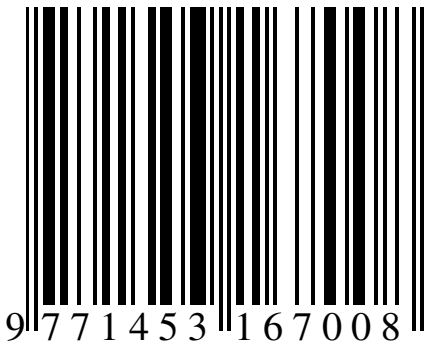

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