INTERNATIONAL SCIENTIFIC RESEARCH INSTITUTE of COSMIC ANTHROPOECOLOGY
Russia, Novosibirsk

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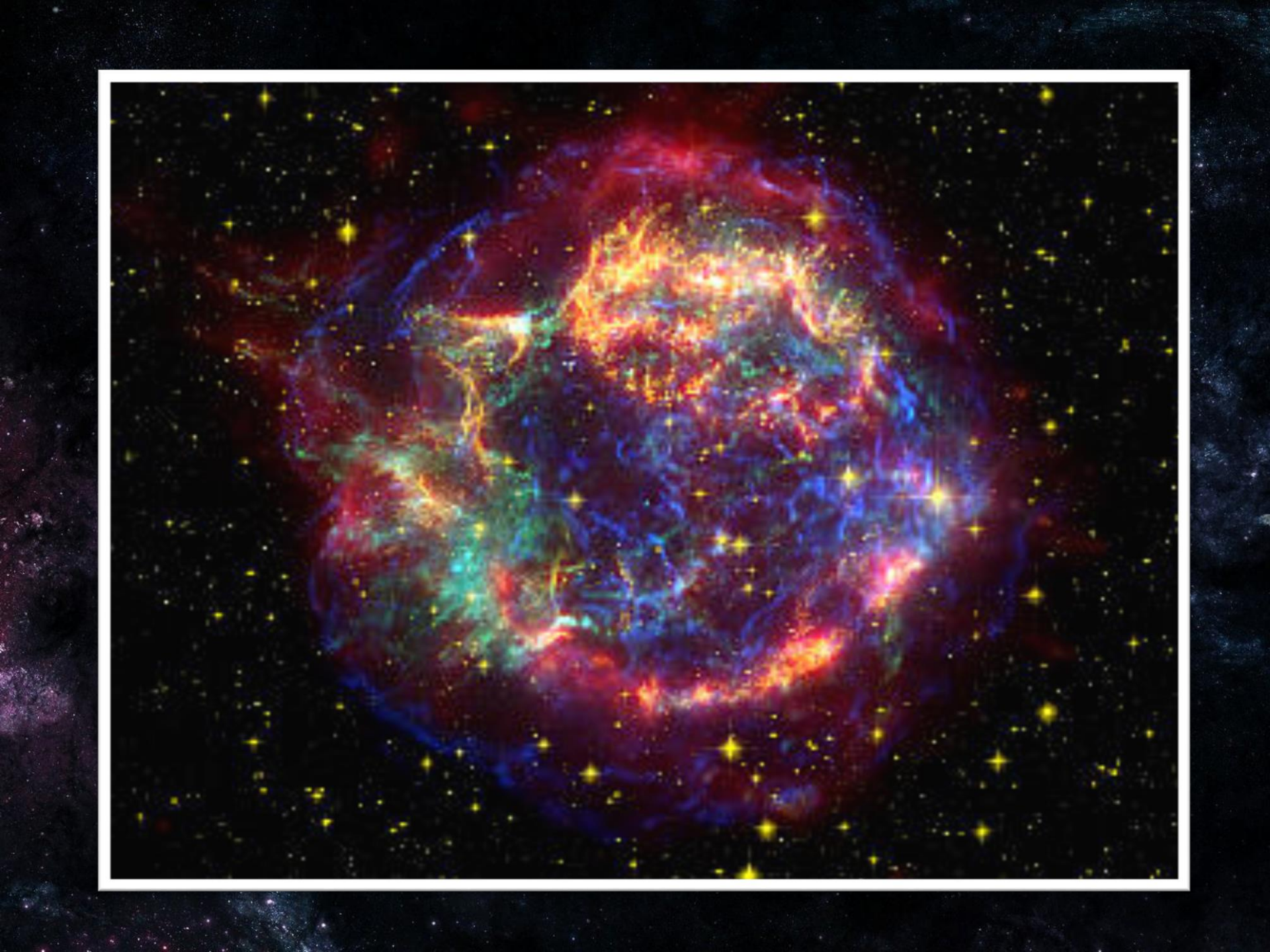
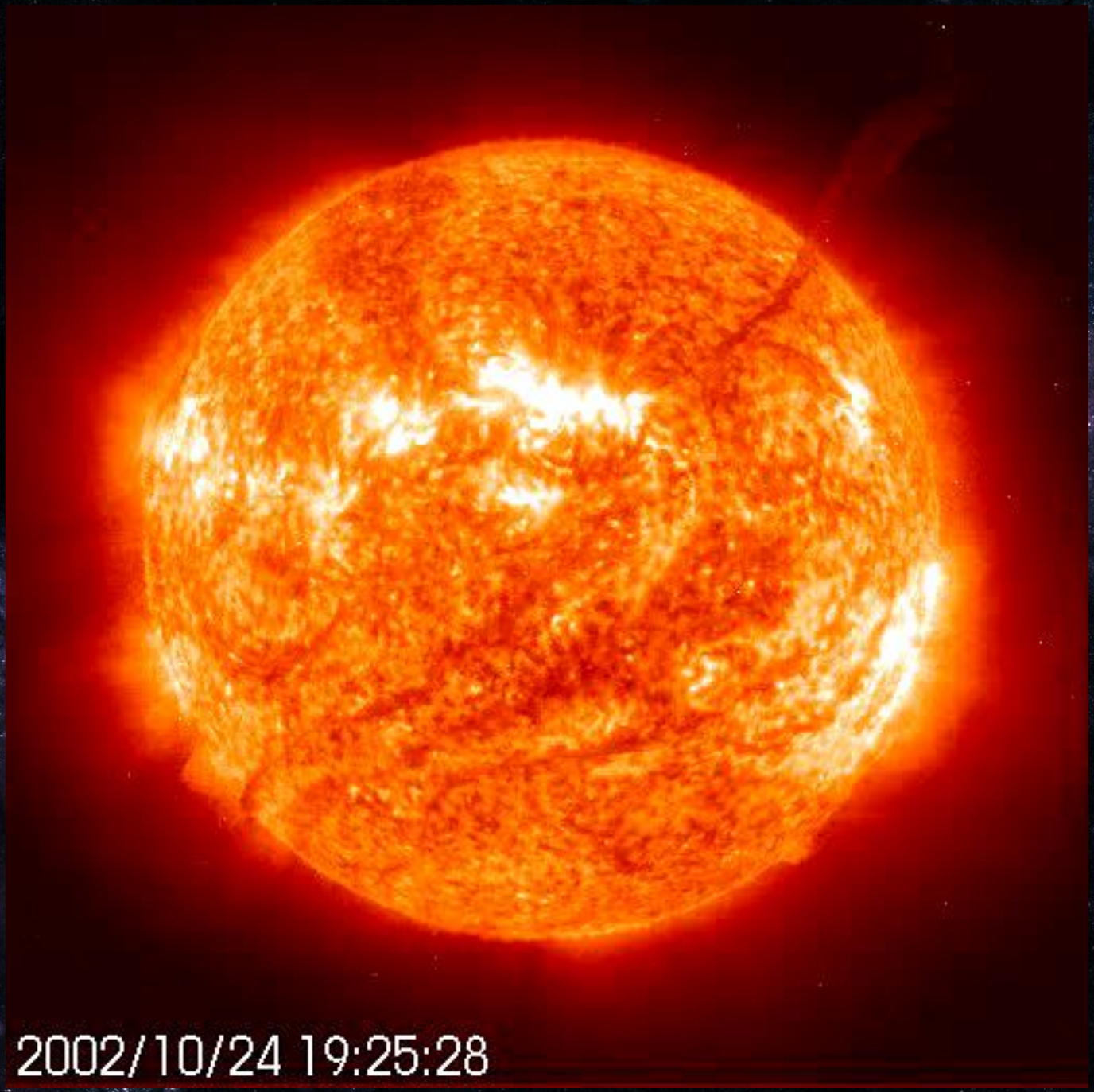
THE SUN AS THE RULER OF HUMAN LONGEVITY, THE WATER AS THE HELIO-GEROPROTECTOR

International Scientific and Practical Business Conference, Bulgaria, Varna,Oct. 1-4, 2015

Novosibirsk, Russia

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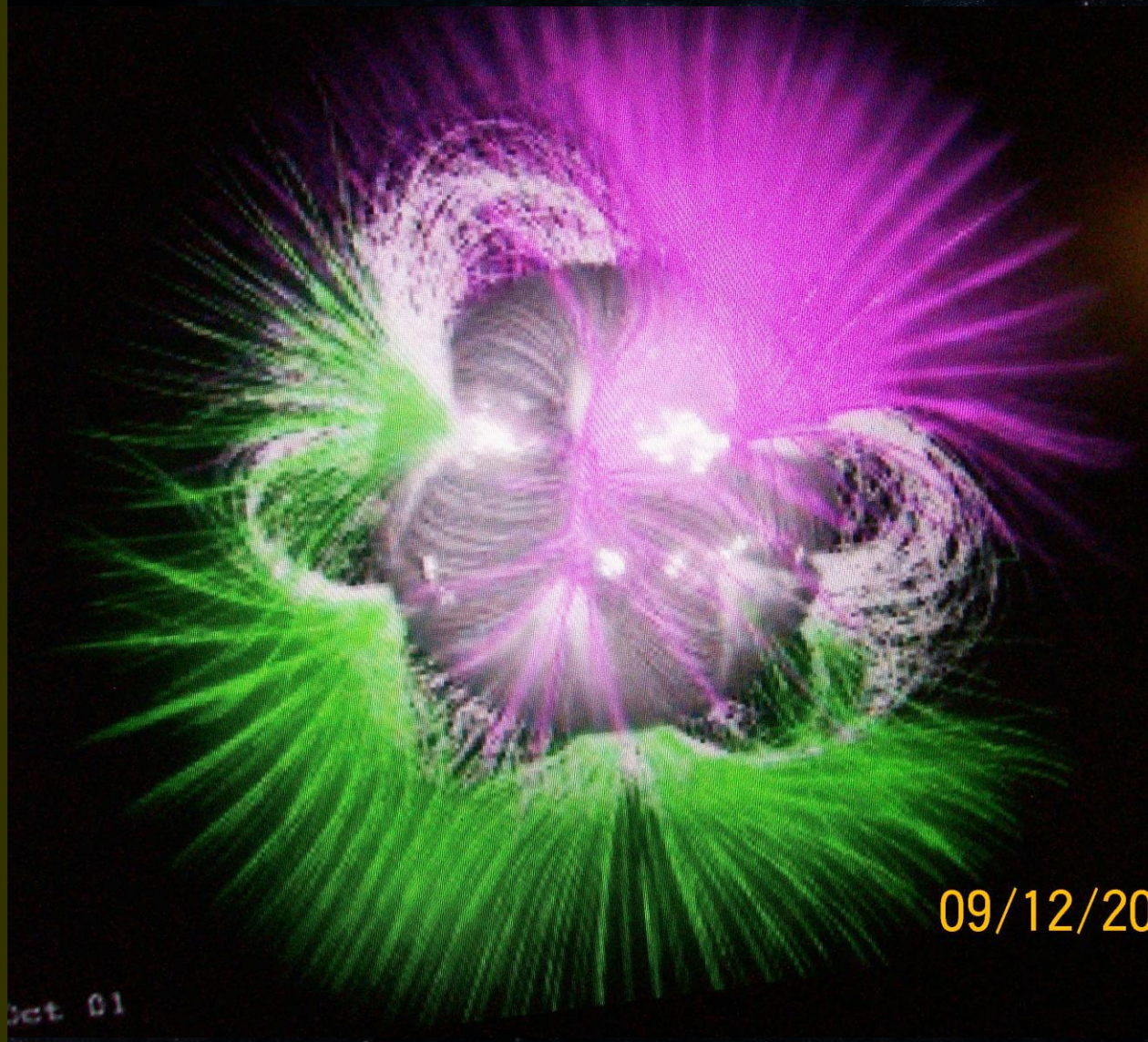
Magnitosphere of our rotating planet is the most important acceptor of heliophysical impacts on the biosphere of the Earth.



Introduction

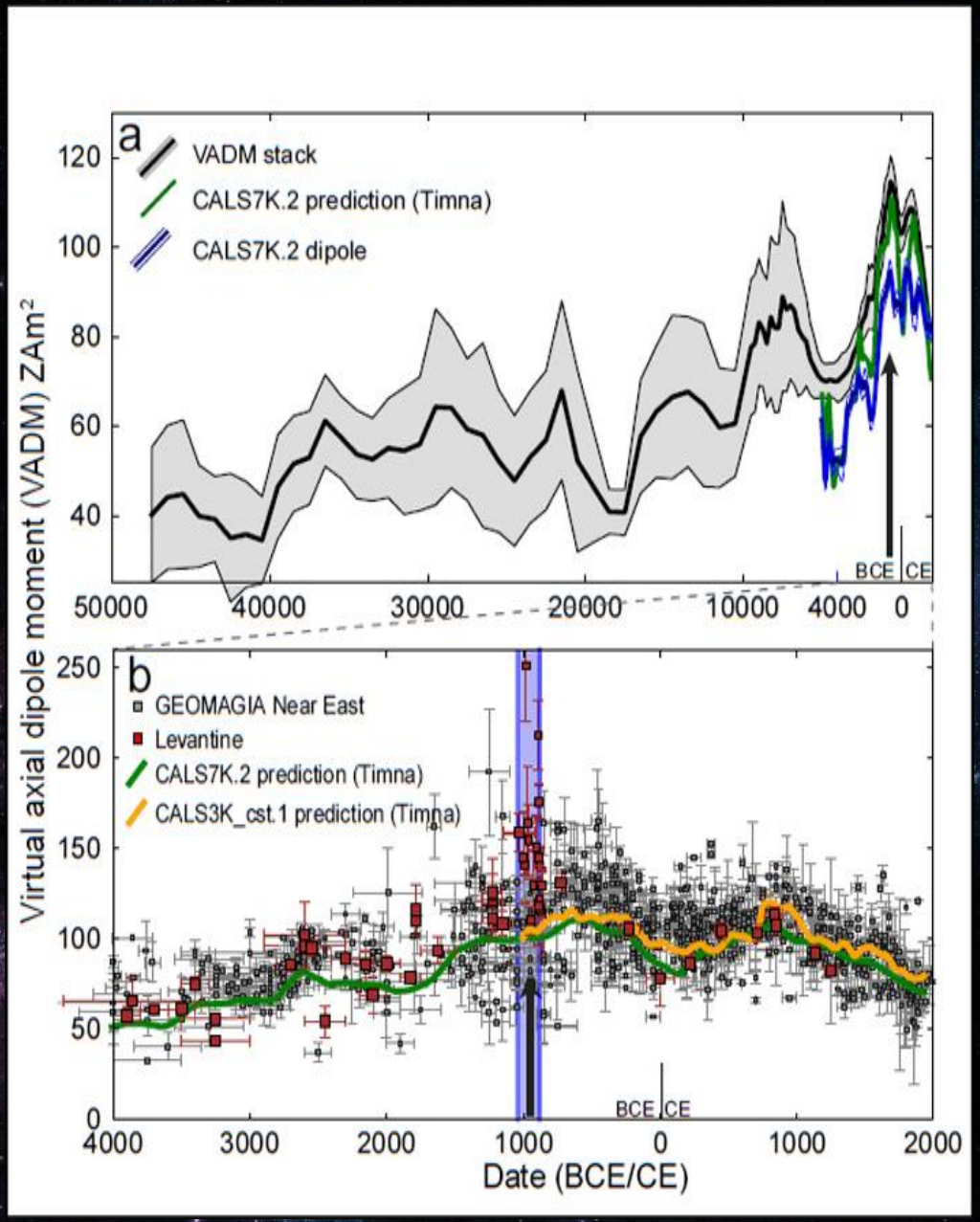


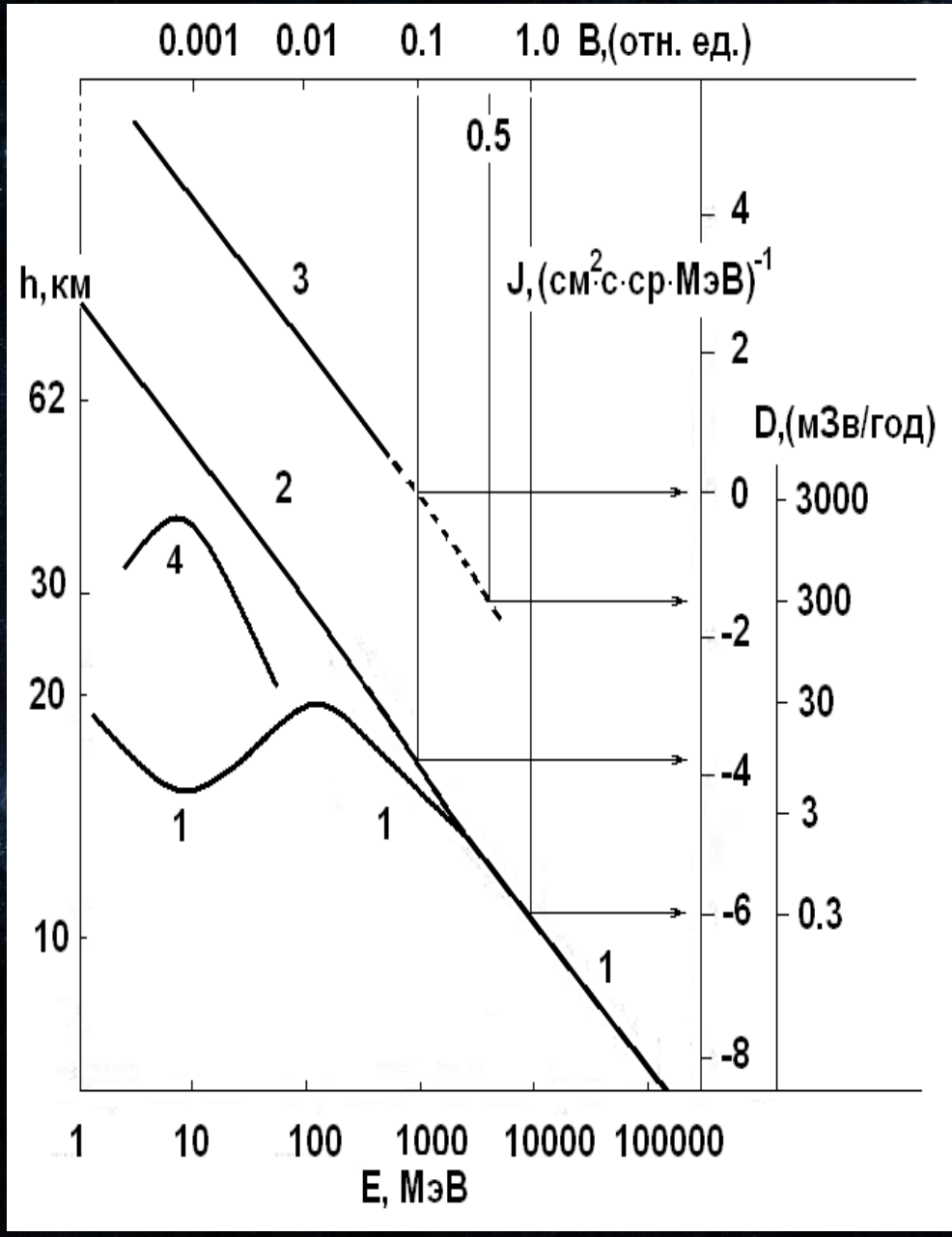
Fig. 1. Summary of previous studies. a) Gray line: average global VADM and the associated error estimates (2σ) obtained by stacking paleointensity data of the past 50 ky (Knudsen et al., 2008). Blue line is the dipole moment calculated by CALS7K.2 model (Korte and Constable, 2005a,b). Green line is the prediction of CALS7K.2 model (Korte and Constable, 2005a) for the location of Timna-30. Arrow marks the peak at ~3 ka. b) VADMs of the Near East obtained by filtering the GEOMAGIA database (Korhonen et al., 2008) according to age (past 6000 years), location (latitude between 20°N to 50°N, longitude between 10°E to 50°E), method (Thellier family), and standard deviation (b15%). Levantine data, including the geomagnetic spikes (Ben-Yosef et al., 2009), are colored in red. Location of the sites is shown in Fig. 2a. Green (orange) line is the prediction of CALS7K.2 model (Korte and Constable, 2005a) [CALS3K_cst.1 model (Korte et al., 2009)] for the location of Timna-30. The blue area and the arrow mark the spikes episode studied here.

By R. Shaar et al., 2011

THE WEAKER IS THE INTENSITY OF THE GEOMAGNETIC FIELD, THE HIGHER IS THE CONTENT OF COSMOGENIC NUCLIDES.

Most of the interglacial periods were associated with relatively low geomagnetic field intensity. (Baumgartner S., et al., 1998, A.Aldahan, G.Possnert, 2000).

Density (J) of the cosmic rays (CR) flux as protons and CR induced radiation dose D in relation to CR energy E: 1 – galactic CR; 2 - Sun CR; 3 – protons flux within radiation belt; 4 – anomalous. Left scale: h – altitude the CR protons ionizing atmosphere penetrate (Acasofu, Chepmen, 1975). Top scale: magnitude of geomagnetic field module (module of the modern field is equal to 1) corresponding to cut off energy of CR protons with energy E.(B equal to 1 corresponds to E = 10 GeV) .



By N. Kuznetsova, V. Kuznetsov, 2012

EXCURSES, GMF INVERSIONS AND EVENTS IN HUMAN EVOLUTION

Excurses and inversions, mln years ago	Events in human evolution, mln years ago
0,033 – Mono Lake	0,03 - disappearance of the Neanderthal men
0,041 – Laschamp a	0,042 –FOXP2 gene mutation 0,037 – microcephalin gene mutation c
0,070 – Norwegian – Greenland Sea a	0,070 - division of ancestral population into three races (according to the mtDNA) d
0,120 – Blake a	0,1 – age of the common ancestor of a modern man (according to Y - chromosome) e
0,211 – Jamaica – Pringle Falls a	0,23 – age of the common ancestor of a modern man (according to the mtDNA) e
0,56 – 0,58 – Big Lost a 0,67 – Stage 17 a 0,78 – Matuyama – Brunhes 0,797 – Brunhes precursor a	660,000±140,000 – division of the lines of a man and the Neanderthal men (according to the mtDNA) f
0,78 - Matuyama – Brunhes h	0,8 – age of the human ancestor according to beta-globin g
1,95 – 1,79 – Olduvai i	1,8 – appearance of *Homo erectus* j
2,6 – Gauss – Matuyama k	2,4±0,3 –mutation that provides an increase in brain volume among representatives of line *Homo* l 2,8 –mutation inactivating the gene, that encodes manufacturing of sucrose at the cell surface

By N. Kuznetsova, V. Kuznetsov, 2012

Computer conclusion on the program “Helios”

Full name:	Vatolin Grigory
The birthday date:	24.10.1974, Sunday
The counted date of the conception (CDC):	17.02.1974, Sunday
Newmoon:	14.10.1974, Thursday 10Days
Fullmoon:	31.08.1974, Thursday 25Days
	29.10.1974, Friday 5Days

PERIOD	Earth magnetic field	interplanetary magnetic field	solar radiation	Wolf's number	square of the sun spots	number of magnetic storms
week befor the CDC	6	0	2	2	-	0
1st week of prenatal develop.	4	1	2	3	-	0
2nd week of prenatal develop.	7	0	2	2	-	0
3rd week of prenatal develop.	6	0	2	1	-	0
4th week of prenatal develop.	6	1	2	3	-	0
5th week of prenatal develop.	7	0	2	2	-	2
6th week of prenatal develop.	7	0	2	2	-	0
7th week of prenatal develop.	7	0	2	2	-	0
8th week of prenatal develop.	5	0	2	4	-	0
3rd moon month	6	3	3	4	-	1
4th moon month	6	1	7	2	-	0
5th moon month	7	1	2	3	-	1
6th moon month	7	0	2	3	-	1
7th moon month	7	0	2	3	-	0
8th moon month	7	3	2	3	-	1
9th moon month	7	0	2	4	-	1
10th moon month	7	1	2	2	-	0
the birthday date	6	0	3	3	-	-
the 1st month after birthday	5	1	2	2	-	0

Helio Gerontology

IMPACT OF THE HELIOPHYSICAL FACTORS ON MAN'S LIFESPAN IN THE CIRCUMPOLAR REGIONS. PERSPECTIVES OF INTAKE OF THE HELIO-GEROPROTECTORS

Aleksandr Trofimov

International scientific research institute of cosmic anthropoecology, Scientific center of clinical and experimental medicine SB RAMS, Novosibisk, Russia

ABSTRACT

Objectives: Experimentally to assess the possibility of development of the anti-aging physiological trends in animal organism, intrauterine developing at the high solar activity and intake of the helio-geroprotectors.

Study design: Some light and wat protectors, patented in Russia, hav oped and tested for animals and i the circumpolar regions, being intra oped at the high solar activity.

Methods: Computer program analysis of heliogeophysical enviror the prenatal period of development carbon stable isotope (^{13}C) in tissue, terone, hemodynamic parameters.

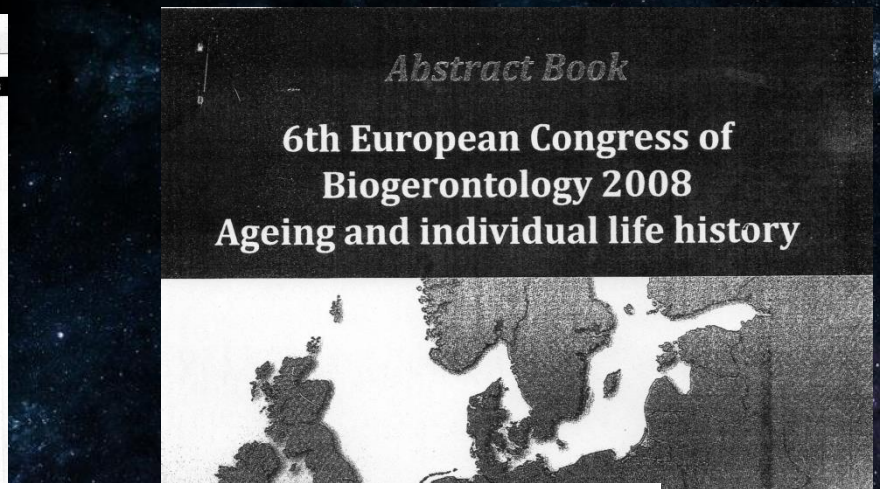
Results: In the Far North man life ciated with state of heliophysical m prenatal period. It was shown that ma length of lifespan and possible man r detected at minimum solar activity months of the intrauterine develop of helio-geroprotectors appears hav effects in animal and man organisms increased content of carbon stable level of blood testosterone and de organism functional dependence of the heliophysical factors (proton during the tests.

Conclusion: The helio-geroprote being important for health prese enhancing of man lifespan in the nort of the planet is possible.

Keywords: heliophysical factors, r the Far North, helio-geroprotectors

INTRODUCTION

Development of the nonmedicinal helio-gero-protectors, decreasing man organism functional dependence in the high latitude regions on direct impact of the heliophysical factors, reducing rate of age changes was important as well. The purpose



Poster presentations

Epigenetic control linking developmental events to ageing

P75. About the Possible Influence of Helio-Geophysical Factors in Prenatal Ontogenesis on Duration of Human Life. New Horizons of Gero-Prevention

Alexander Trofimov.

State Scientific Center of Clinical and experimental Medicine of SB RAMS, Novosibirsk, Russia.

Novosibirsk scientists (A.Trofimov, A.Shabalin, 2007) formulate the following hypothesis: a level of solar activity in a period of prenatal development of a human organism defining

There were shown significant differences in mean values of solar activity (Wolf number, W) on the 8th month of prenatal development in the persons of 30-50 years old (W=88,8±12,2) or in the persons of 51-70 years old (W=88,4±8,4) as compared with the group of the elderly people of 71-90 years old (W=36,7±4,5) and the long-living people, older than 90 years (W=32,9±3,7) ($p<0,05$). The pronounced group differences in prenatal helio-geophysical environment, estimated with the use of computer program Helios (Reg.cert. 970125, 24.08.97) were observed also in other months of prenatal development (A.Trofimov, Yu.Burda, 2005).

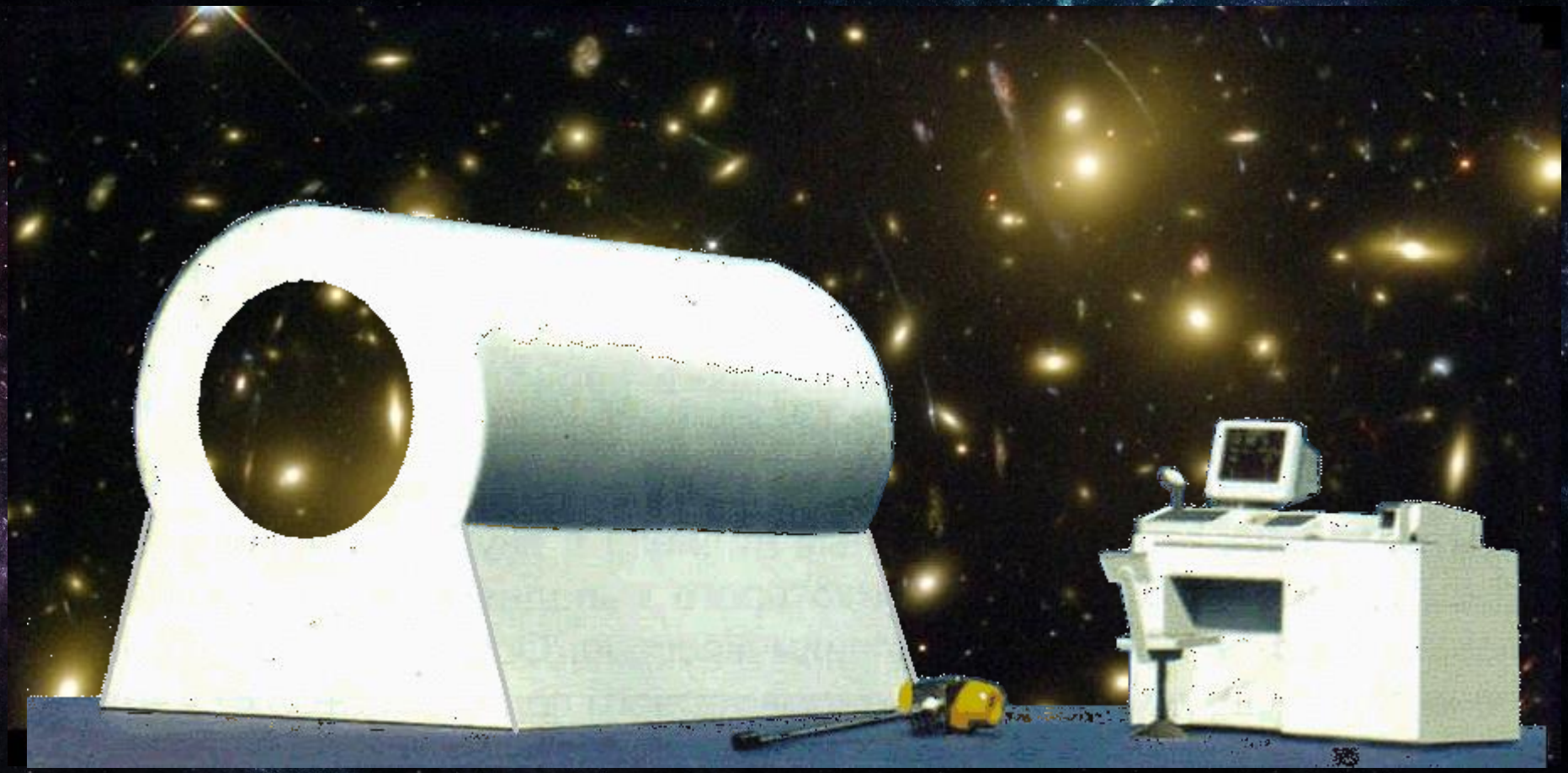
special activity for many hundred of millions of people. These helio-gero-protectors decrease the dependence of human functional systems on helio-geophysical factors and designate a horizon of long-living.

Studies on animals with the use of drinking helio-gero-protectors and also investigations of healthy men-volunteers in installations, changing helio-geophysical base, found significant accumulation of stable carbon isotope 13C in tissues (wool, hair) (which content was detected by mass-spectrometer Delta) during 1-3 months. It is known the controversial tendency - loss of this isotope with aging (V.Kaznacheev et al, 1994).

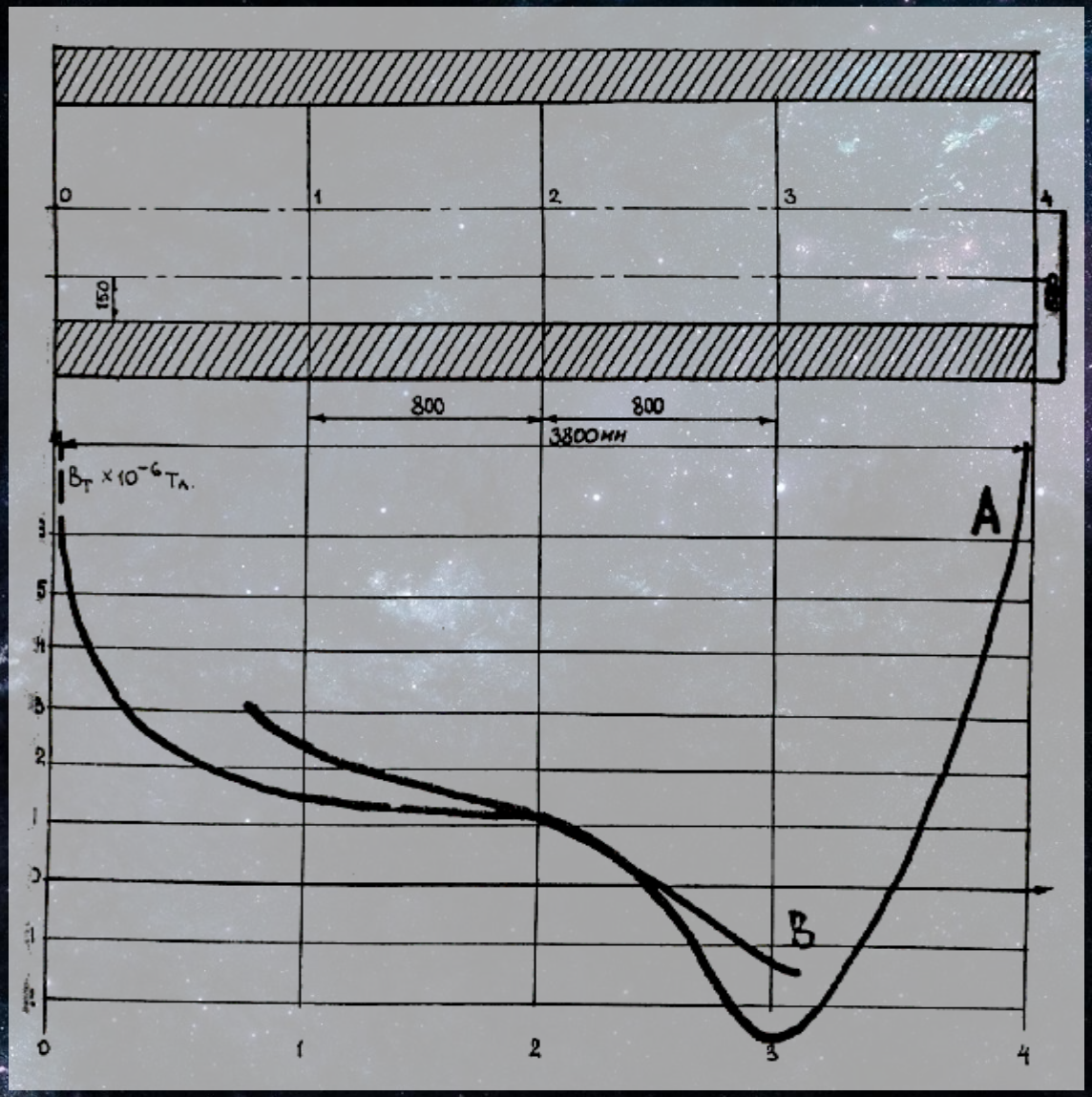
Correlation of stable carbon isotopes (13C/12C) may be a new marker of rate of human aging and criteria of helio-gero-protectors efficiency.

Keywords: helio-geophysical factors, prenatal ontogenesis, gero-prevention

Cosmobiotron: hypogeomagnetic installation



Distribution of residual magnetic induction in the installation, screening the Earth magnetic field.



Impact of «Heliotransparency on geneticaly conditioned dynamics of the physiological parameters in the conditions of modeling preformation of a geomagnetic field (weakening of GMF, change of the corner of its slope) during prenatal ontogenesis.

parameter / gene	1	2	3	4	5
	Prenatal period				
D4	28-1P 28_2P		28-1P 28_1,2,4,5,6,7,10P 28+1P		28_9P
TNF				28_1,2,5,7,9F 28+1F	
B1		28-1M 28_3,4,7,9M			

Note:
1 – EEG,
2 – BPS,
3 – Gench's sample,
4 – hormones,
5 – GDV-parameters

P – patient

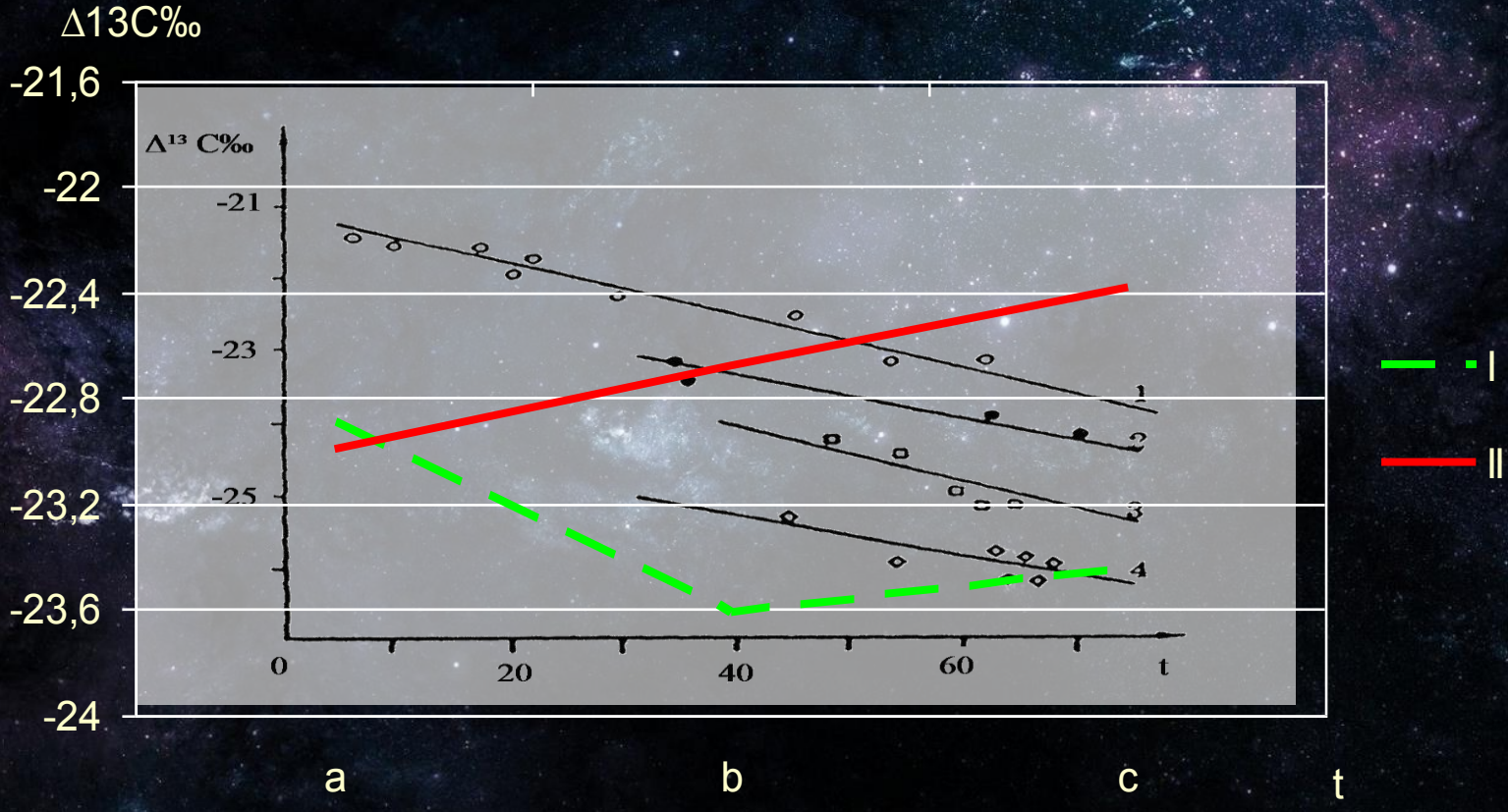
M – patient's mother

F – patient's father

Peculiarities of covariative dependence of the geno-phenotypical signs, psychophysiological parameters of a man, and the cosmophysical environment (according to the data of Berikov V.B., 2002).

N	Coupled parameters		Cosmic rays
1	gene B1	intellect	electrons
2	gene B1	memory	neutrons
3		digital test	neutrons
4	M-test (electroconductivity TR)	creative work	protons (Pr>1 keV), (Pr>10 keV)
5	M-test (electroconductivity TR)	memory	neutrons
6	operative memory	creative work	electrons
7	M-test (paulse, APs)		protons (Pr>1 keV), (Pr>10 keV)
8	reographic index		альфа частицы
9	lightabsorption		protons (Pr>1 keV), (Pr>30 MeV)
10	tolerance to phisical load		neutrons

Dynamics of relative isotope 13C* content (δ) in healthy tested persons before (a), in a month (b), in 4 months (c) of staying in conditions of transformed geomagnetic slope (I) or hypogeomagnetic environment (II) (according to V.A. Ponomarchuk, 2004)



$$* \delta\ (‰) = \frac{(13C/12C)n - (13C/12C)st}{(13C/12C)st}$$, where n – nails, st – standard;

Purpose of investigation

To develop and to test means for non-medicinal preventing of excessive heliomagnetotropic human reactions on the basis of drinking water, exposed to a weakened geomagnetic field.

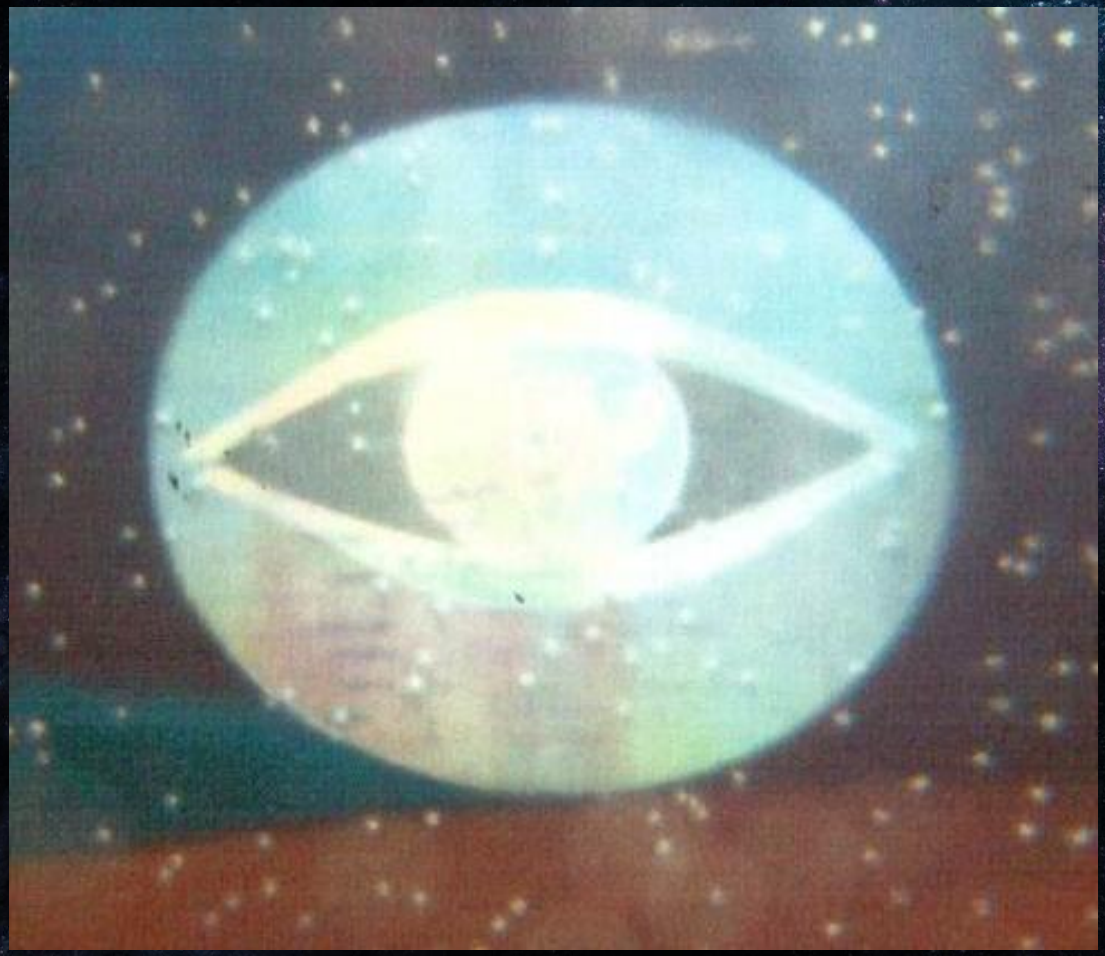
Objects and Contingent

Plants (n=5000), animals(rats,n=50),healthy examinees and patients – volunteers at the age of 18-51 (120 persons)

Methods

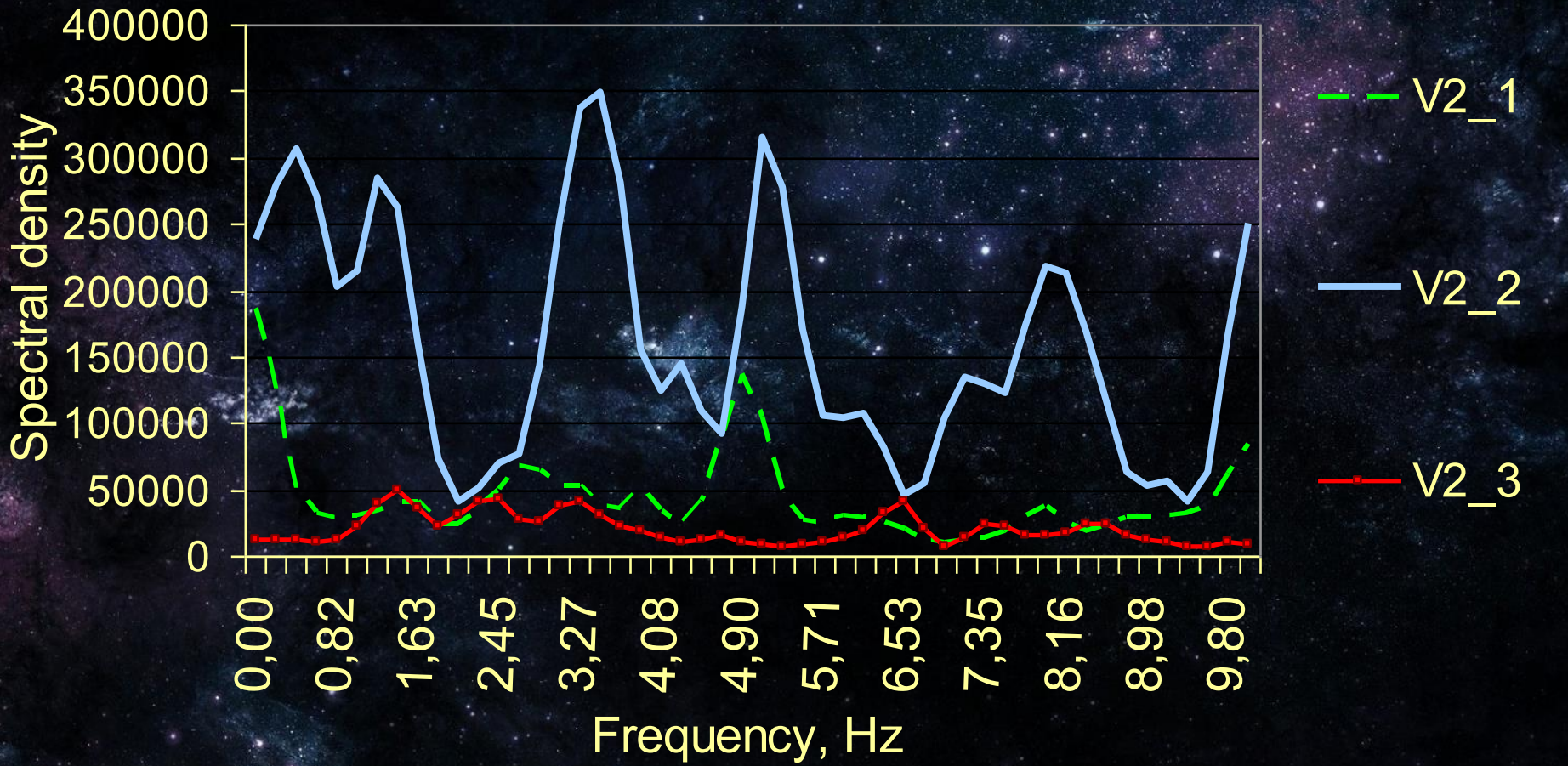
1. Monitoring of cosmophysical environment (measurement of solar and geomagnetic activity, intensity of the cosmic rays flow)
2. Information-capacious holograms with physiologically active information (patent RF № 223 9860)
3. Computer program “Helios – the Milky Way (Galaxy)” (certificate № 2001611270)
4. Portative Hypogeomagnetic device “TRODR” (A. Trofimov, G. Druzhinin 2011)
5. Helioprotective drinking water Certificate ROSS RU.AG.79, 06.05.2013 HO4276 №1161824
6. Registration of functional parameters of plants, animals and volunteers.
7. Multifactor mathematical analysis “a tree of decisions”


Hypogeomagnetic device “TRODR”
AKVA
VITA
Пейте на здоровье!
15/05/2011

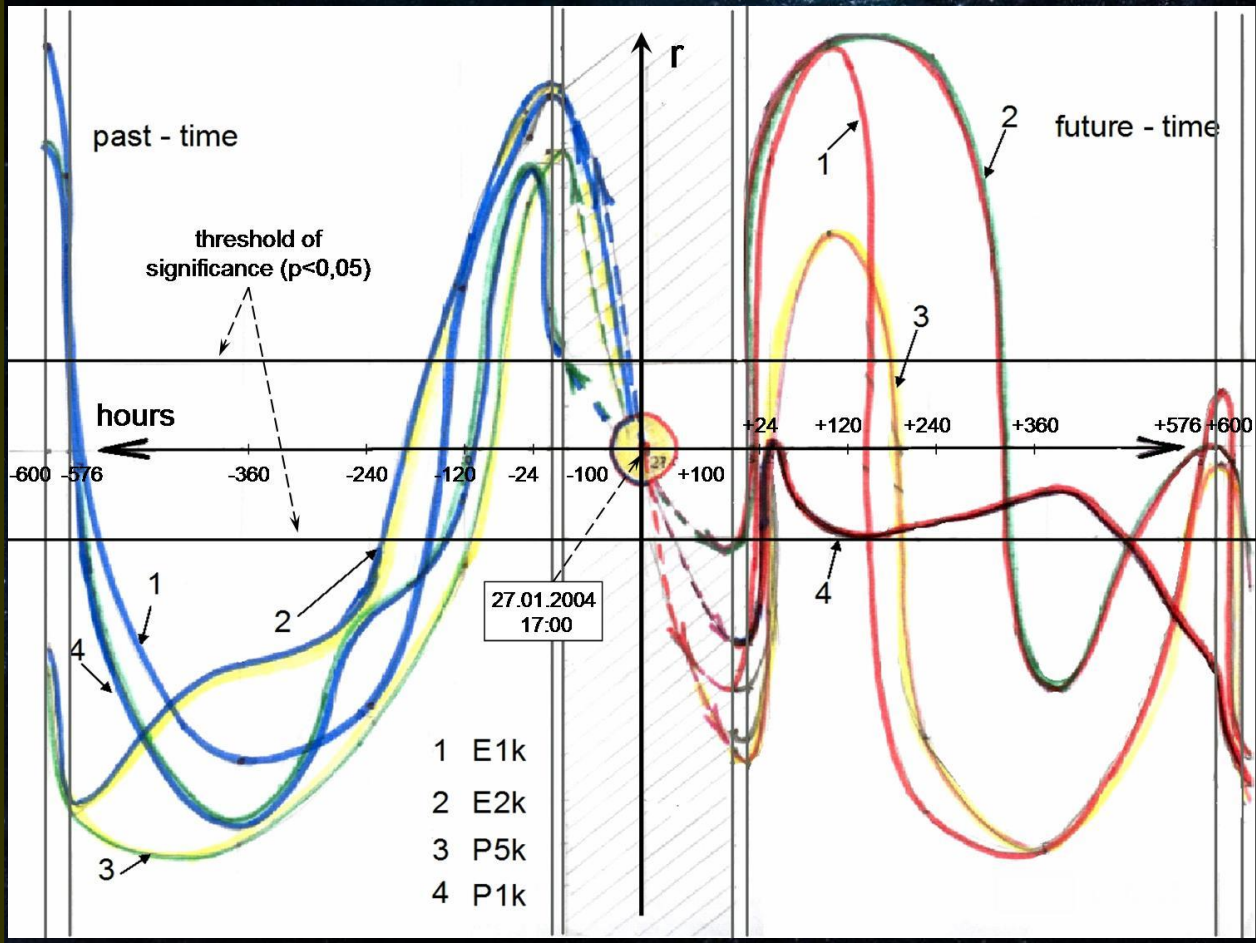


Results

Spectral density of luminescence at computer gaze-discharge visualization of water samples before (V2_1), during (V2_2) and after (V2_3) the solar eclipse 29.03.06 (on data of D.V. Devitsin, Yuhnin E.A., 2006)



Using computer gas-discharge visualization (GDV) of water samples, paradox of outstripping dependence of GDV-parameters on solar proton-electron flow intensity, which will reach the Earth in 24~600 hours after finishing of the researches has been revealed.



Helioprotective (1) and control water (2) at polarizations light

photo 1

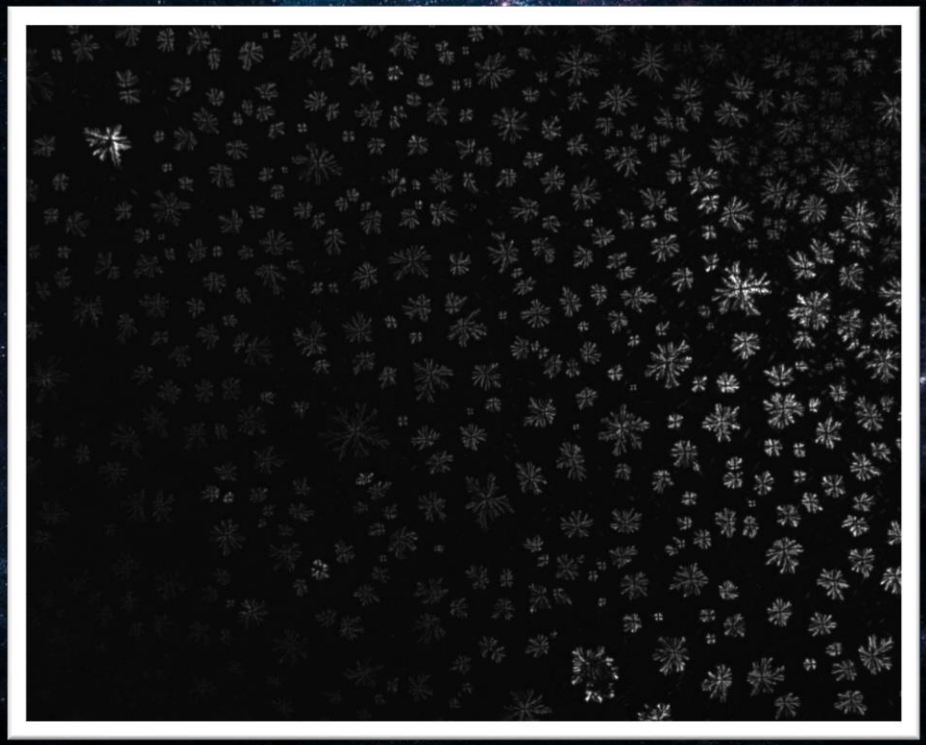
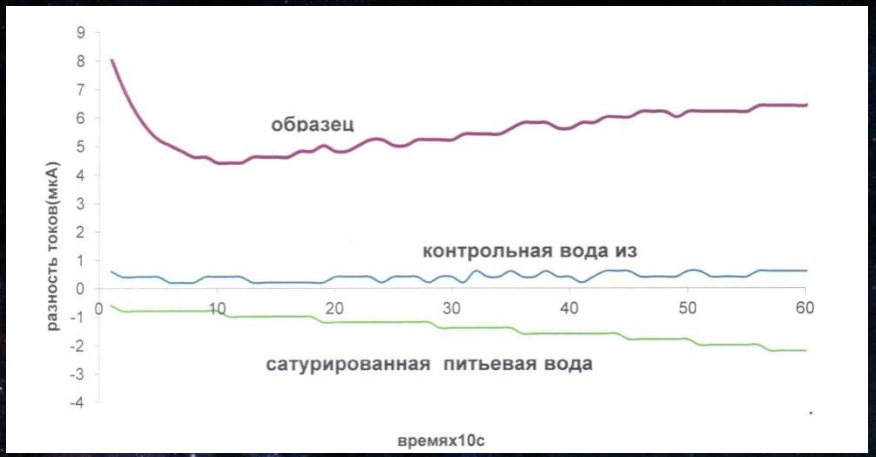
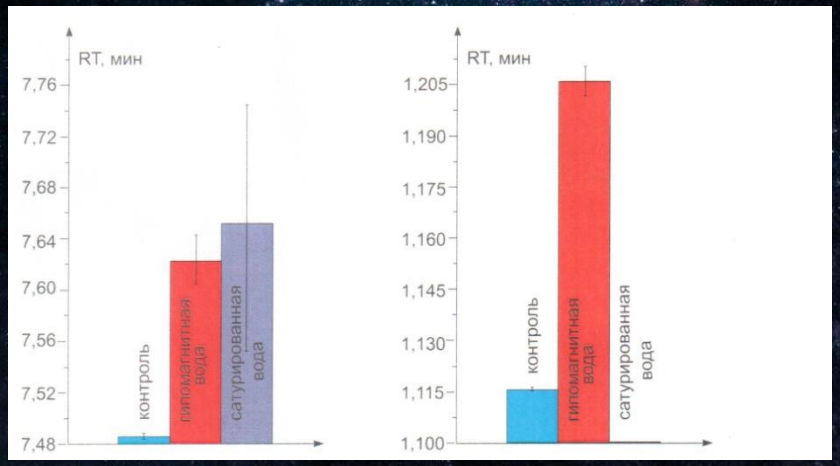
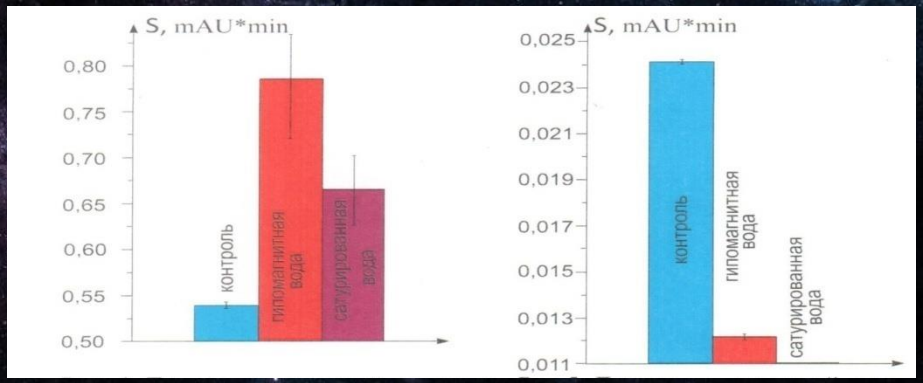


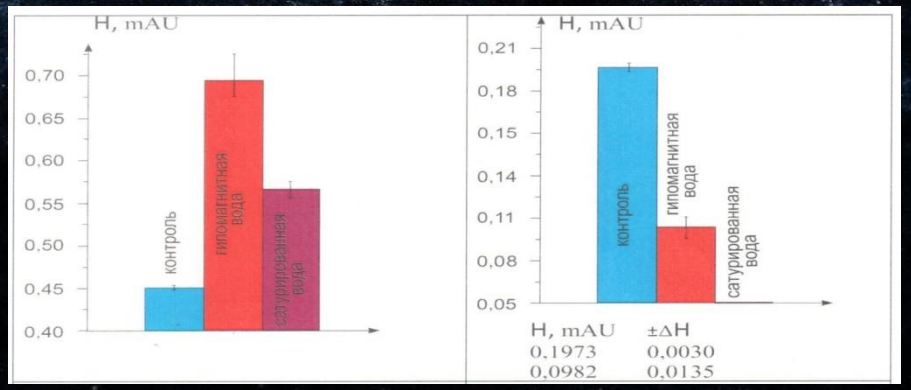
photo 2

Cluster's structure of control and Helioprotective water /by A. Stepanov 2012/

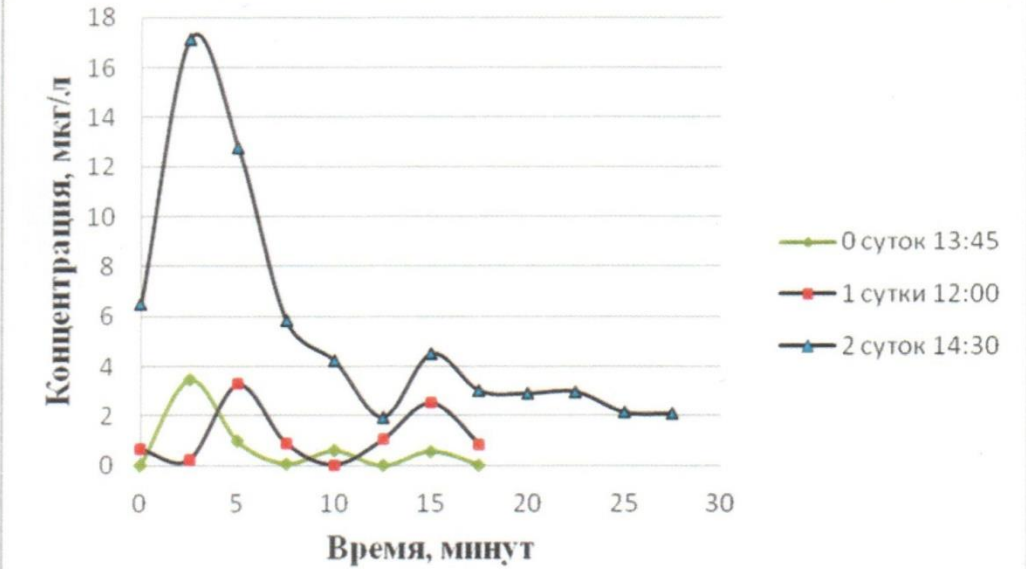








Dynamic of peroxide-anion radicals levels at Helioprotective water /by A. Stepanov et al, 2012/



23 апреля	Время	Конц.$OH_2^{-(*)}$, мкг/л	Температура, °С
ГПВ (концентрат)	13:45	89,68254	22
"Покров - вода" (1л)	14:40	0	22
"Покров - вода" (1л) + 100мкл ГПВ	14:45	0	22
	15:26	0,724802	22
	16:00	0	22
24 апреля			
"Покров - вода" (1л) + 100мкл ГПВ	12:00	0,955258	21
25 апреля			
"Покров - вода" (1л) + 100мкл ГПВ	14:30	5,517857	20

MONITORING DATA (2012-2014 years) of HELIOPROTECTIVE WATER PHYSICAL PARAMETERS at CLOUSED and OPENED (control) BOTTLES (by M.V,Kuric, Ukraine)

N	Parameter / Yaer	pH	σ µSm	TDS mg/l	U (mV)
1	"T" 2012	7.85	266	145	+261
2	"T" 2013	7.88	600	373	+185
3	"T" 19.01.2014	8.02	634	400	+175
4	Control 2014	7.14	222	142	+210
5	Control 2013	5.65	214	141	+168


3
27/03/2011


1K
10
2K
20
3K
30

Correlation between speed of plants growth and solar protons at control (2) and experimental (1) groups.

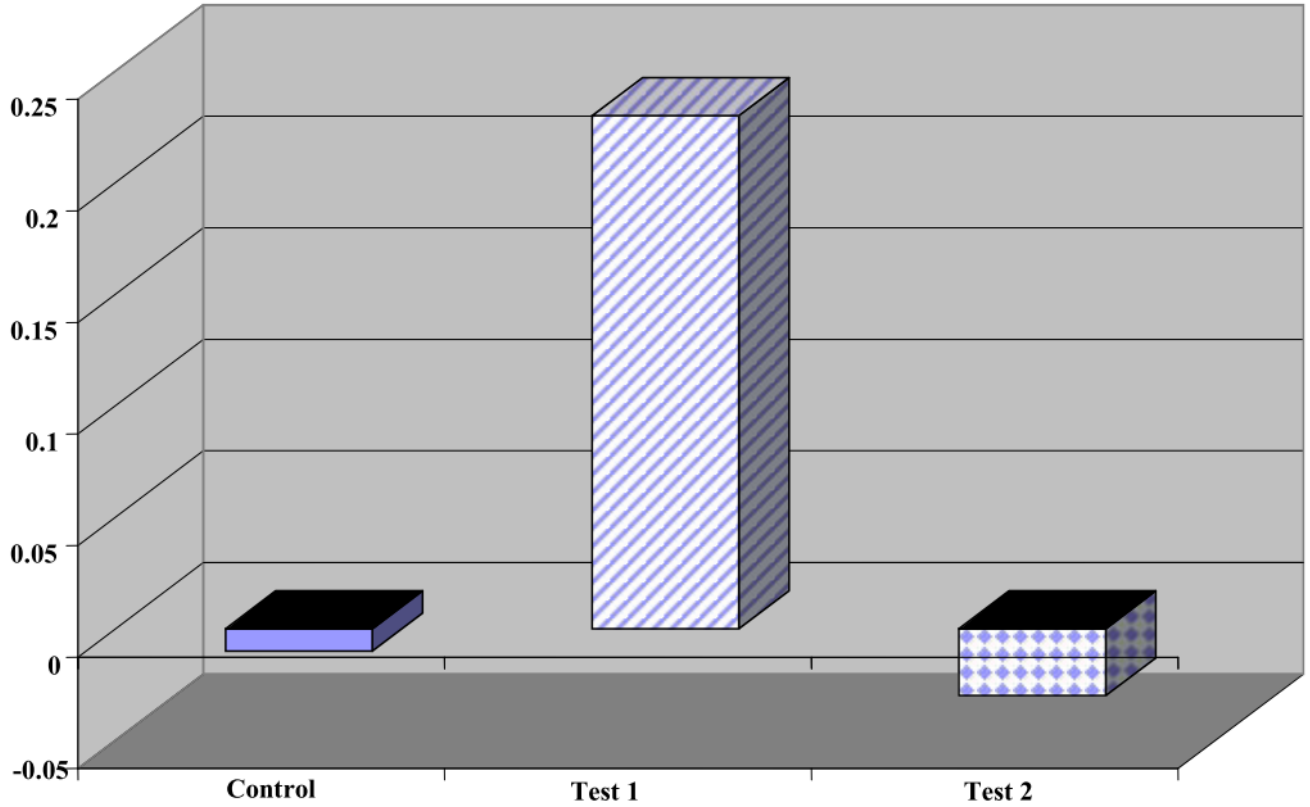
Group Группа	Параметр Parameter				
	Пр. 1	Пр.3	Пр.5	Пр.9	Пр.10
1(n=24)	0,54** P=0,005	0,47* P=0,02	0,60** P=0,001	0,57** P=0,003	0,64** P=0006
2(n=24)	0,35	0,12	0,36	0,31	0,39

The content of hormones in blood serum of animals of the control and experimental groups (M ± m).

Parameter	The group of animals			Statically significant differences between groups, $P < 0.05$
	The 1st experiment group	The 2nd experiment group	The control group	
(1) Testosterone, nM/L	10.80 ± 3.60	12.44 ± 2.58	4.15 ± 2.00	2-3
(2) Aldosterone ng/mg in adrenal glands of tissue	0.39 ± 0.05	0.42 ± 0.05	0.52 ± 0.09	1-3
(3) Corticosterone, ng/mg in adrenal glands	7.89 ± 0.96	6.67 ±0.82	4.75 ± 0.62	1-3
(4) Progesterone, ng/mg in adrenal glands of tissue	10.94 ± 3.05	3.58 ± 1.10	9.40 ± 6.30	1-2
(5) The amount of steroids (aldosterone, corticosterone, progesterone), ng/mg of tissue	18.76 ± 4.00	9.65 ± 1.24	15.59 ± 6.85	1-2
(6) The ratio of corticosterone/aldosterone in adrenal glands	24.0 ± 3.2	17.8 ± 2.3	10.5 ± 1.9	1-3
(7) The ratio of progesterone/aldosterone in adrenal glands	35.6 ± 10.9	6.9 ± 1.3	24.8 ± 18.4	1-2
(8) T4 in blood nmol/L	81.62 ± 6.38	96.29 ± 4.55	75.40 ± 5.73	2-3
(9) T3 in blood nmol/L	2.68 ± 0.06	3.31 ± 0.28	3.45 ± 0.39	1-2 1-3

The dynamics of the relative isotope content 13C (M ± m) in the control and experimental (1 and 2) groups in measurements of 19/09/2007 and 10/19/2007.

	19/09/2007	19/10/2007	R
Control	-23.01 ± 0.05	-23.11 ± 0.10	
Experience 2	-23.02 + 0.03	-22.85 ± 0.04	< 0.05
Experience 1	-22.92 ± 0.05	-23.0 ± 0.06	



Changes in the relative values of mean group content of isotope 13C in the control (n = 10) after a 30-day exposure of "hormone-active" holograms water-mediated impact-test 1 (n = 10), and direct remote influence-test 2 (n = 10).

The degree of change (from 19/09/2007 to 19/10/2007) of the relative content of the isotope 13C in the control and experimental (1 and 2) groups of rats.

Control	Experience 2	Experience 1	*R*
-0.49 ± 0.07	-0.31 ± 0.05	-0.59 ± 0.06	$P < 0.01$ between experience 1 and experience 2

Correlations of mass index of rats (n = 10) with the protons and electrons of cosmic rays during the control action.

	Weight gain	Heart	Kidney	Lien	Spermarium	Seminal vesicle	Prostate	Fat depot	Thymus	Adrenal glands	Thyroid
	g	1g/100g of body weight									
	1	2	3	4	5	6	7	8	9	10	11
Pr > 1 MeV	-0.54	-0.21	-0.34	0.53	0.06	-0.48	-0.32	-0.36	-0.15	0.20	0.26
Pr > 10 MeV	-0.48	-0.40	0.08	0.03	-0.05	-0.25	0.18	-0.29	-0.04	0.11	0.24
Pr > 100 MeV	-0.51	-0.54	-0.19	0.65*	0.31	-0.51	-0.58	-0.23	-0.16	0.03	0.23
El > 0.6 MeV	-0.53	-0.34	-0.37	0.50	0.05	-0.57	-0.35	-0.29	-0.12	0.01	0.24
El > 2 MeV	-0.54	-0.37	-0.37	0.48	0.03	-0.50	-0.32	-0.37	-0.18	0.09	0.27

*: significant $P < 0.05$ correlation parameters. Pr: protons; El: electrons.

Correlations were mass index of rats (n = 10) of the protons and electrons of cosmic rays in the experimental exposure.

	Weight gain	Heart	Kidney	Lien	Spermarium	Seminal vesicle	Prostate	Fat depot	Thymus	Adrenal glands	Thyroid
	g	1g/100g of body weight									
	1	2	3	4	5	6	7	8	9	10	11
Pr > 1 MeV	0.43	-0.17	-0.11	0.16	0.06	0.48*	0.13	0.35	-0.25	-0.34	-0.01
Pr > 10 MeV	0.41	-0.42	-0.37	0.31	0.03	0.23	0.26	0.22	-0.58*	-0.64*	-0.32
Pr > 100 MeV	0.32	-0.01	0.02	0.22	0.09	0.36	-0.07	0.29	-0.24	-0.28	0.11
El > 0.6 MeV	0.42	-0.08	0.01	-0.19	0	0.40	-0.03	0.27	-0.30	-0.39	0.14
El > 2 MeV	0.48*	-0.14	-0.08	0.19	-0.06	0.43	0.04	0.23	-0.30	-0.38	0.13

Designations refer to Table 5.

Correlations were hormonal parameters in rats (n = 10) of the protons and electrons of cosmic rays during the control action.

Characteristics	Testosterone, nM/L	T3 in blood, nM/L	T4 in blood, nM/L	T3 in thyroid, nmol/mg of tissue	T4 in thyroid, nmol/mg of tissue	Progesterone in adrenal glands, nM/mg of tissue	Corticosterone of plasma, ng/mg	Corticosterone of adrenal glands, ng/mg
1	2	3	4	5	6	7	8	9
Pr > 1 MeV	0.19	0.14	0.43	0.13	0.14	0.32	-0.20	-0.04
Pr > 10 MeV	-0.03	-0.25	-0.05	-0.51	-0.09	-0.30	-0.25	0.18
Pr > 100 MeV	0.31	-0.20	0.60	0.08	0.04	-0.05	-0.33	-0.32
El > 0.6 MeV	0.14	0.10	0.47	0.10	0.20	0.18	-0.19	-0.03
El > 2 MeV	0.25	0.13	0.38	0.11	0.16	0.23	-0.27	-0.04

1, 2, 3, 4, 5 and etc.: Designations in the table. Pr, El: protons and electrons of different energies.

Correlations were hormonal parameters in rats (n = 20) from the protons and electrons of cosmic rays in the experimental (2) exposure.

Characteristics	Testosterone, nM/L	T3 in blood, nM/L	T4 in blood, nM/L	T3 in thyroid, nmol/mg of tissue	T4 in thyroid, nmol/mg of tissue	Progesterone in adrenal glands, nM/mg of tissue	Corticosterone of plasma, ng/mg	Corticosterone of adrenal glands, ng/mg
1	2	3	4	5	6	7	8	9
Pr > 1 MeV	0.35	-0.37	-0.26	-0.16	0.03	0.53*	0.31	0.61*
Pr > 10 MeV	0.35	-0.21	-0.20	-0.25	-0.06	0.25	0.03	0.47*
Pr > 100 MeV	0.29	-0.26	-0.33	0.08	0.17	0.43	0.42	0.56*
El > 0.6 MeV	0.40	-0.29	-0.20	0.05	0.13	0.49*	0.48*	0.67*
El > 2 MeV	0.41	-0.29	-0.18	-0.03	0.12	0.47*	0.42	0.65*

Designations refer to Table 7.

Correlation dependence of the degree of change the relative content of isotope 13C (from September 19 to October 19 2007) on the daily parameters of protons and electrons sunlight for the period from October 10 to 19 2007.

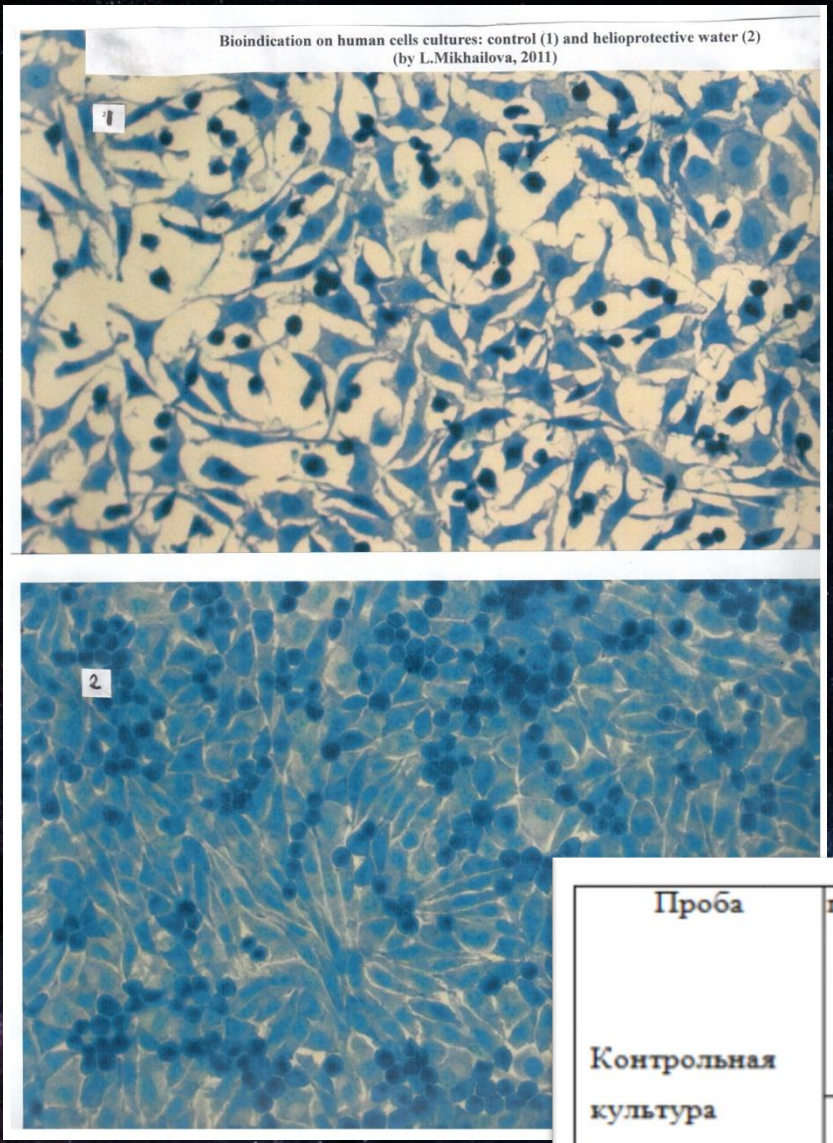
	Pr >1 MeV	Pr >10 MeV	Pr > 100 MeV	E1 > 0.6 MeV	E1 > 2 MeV	Ne%	Rad
Control	0.58	0.55	0.50	0.52	0.57	0.57	-0.32
Experience 2	-0.33	-0.40	-0.40	-0.43	-0.39	-0.48	0.51
Experience 1	0.12	0.53	0.08	0.18	0.17	0.17	0.31

Pr: proton; El: The electrons of different energies; Ne%: neuron; Rad: solar noise.

Correlation dependence of the degree of change the relative content of isotope 13C (from September 19 to October 19 2007) from the daily parameters of protons and electrons sunlight for the period from October 19 to 28 2007.

	Pr >1 MeV	Pr >10 MeV	Pr > 100 MeV	E1 > 0.6 MeV	E1 > 2 MeV	Ne%	Rad
Control	0.50	-0.29	0.42	0.66*	0.57	0.61	0.44
Experience 2	-0.35	-0.58	-0.27	-0.46	-0.39	-0.23	-0.27
Experience 1	0.10	0.11	0.03	0.17	0.17	0.10	-0.06

Designations refer to Table 9.



Проба	показатель	48 часов	72 часа	96 часов	120 часов	Общий белок, мг/л
Контрольная культура	Sp	48,6±0,3	57,3±0,4	63,2±0,3	72,5±0,4	40,1
	МА (%)	0,9	1,1	0,9	0,7	
Control 1	Sp	36,3±0,4	48,4±0,2	53,2±0,4	61,1±0,3	33,5
	МА (%)	0,7	0,6	0,7	0,6	
Test 2	Sp	**47,2±0,3**	**64,1±0,2**	**71,4±0,4**	**93,2±0,3**	**53,2**
	МА (%)	**0,7**	**0,9**	**1,0**	**1,2**	


01/08/2008


СОЛНЕЧНОЕ ЗАТМЕНИЕ
SOLAR ECLIPSE


01/08/2008

Correlation dependences of physiological parameters of the five-minute values of the electrons, protons, neurons, and X-rays in the second group (Novosibirsk) in the 3rd metering.

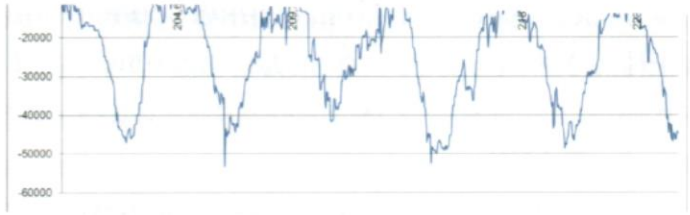
	Pr > 1 MeV	Pr > 10 MeV	Pr > 100 MeV	El > 0,6 MeV	El > 2 MeV	Ne	X-Rays
systolic pressure	0,23	0,23	0,31	0,23	0	0,23	-0,25
diastolic pressure	0,53	0,53	0,54*	0,53	0	0,53	-0,26
IM	-0,03	-0,03	0,08	-0,03	0	-0,03	-0,15
heart rate	0,13	0,13	0,29	0,13	0	0,13	-0,28
tonne	-0,44	-0,44	-0,33	-0,44	0	-0,44	0,02

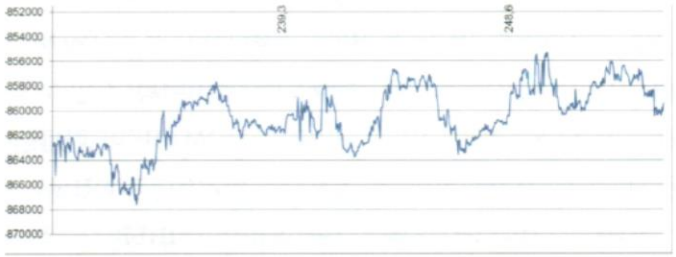
Correlation dependences of physiological parameters of the five-minute values of the electrons, protons, neurons, and X-rays in the second group (Novosibirsk) in the 4th metering.

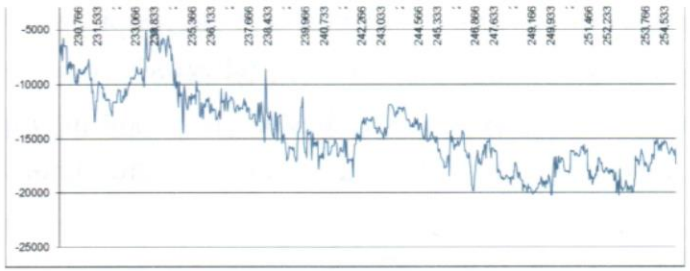
	Pr > 1 MeV	Pr > 10 MeV	Pr > 100 MeV	El > 0,6 MeV	El > 2 MeV	Ne	X-Rays
systolic pressure	-0,16	-0,16	-0,12	-0,16	0,34	-0,06	0,17
diastolic pressure	**-0,39**	**-0,39**	**-0,64***	**-0,39**	-0,13	-0,11	-0,32
IM	0,53	0,53	0,29	0,53	-0,30	0,34	0,52
heart rate	0,42	0,42	-0,03	0,42	-0,34	0,32	0,31
tonne	**0,60***	**0,60***	0,27	**0,60***	-0,45	0,14	0,29

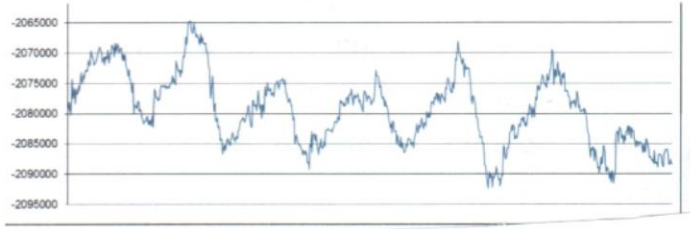
-The significance of the correlation coefficient

Harmonization effect of Helioprotective drink water (by A.Zacharov, Moscow, 2013)



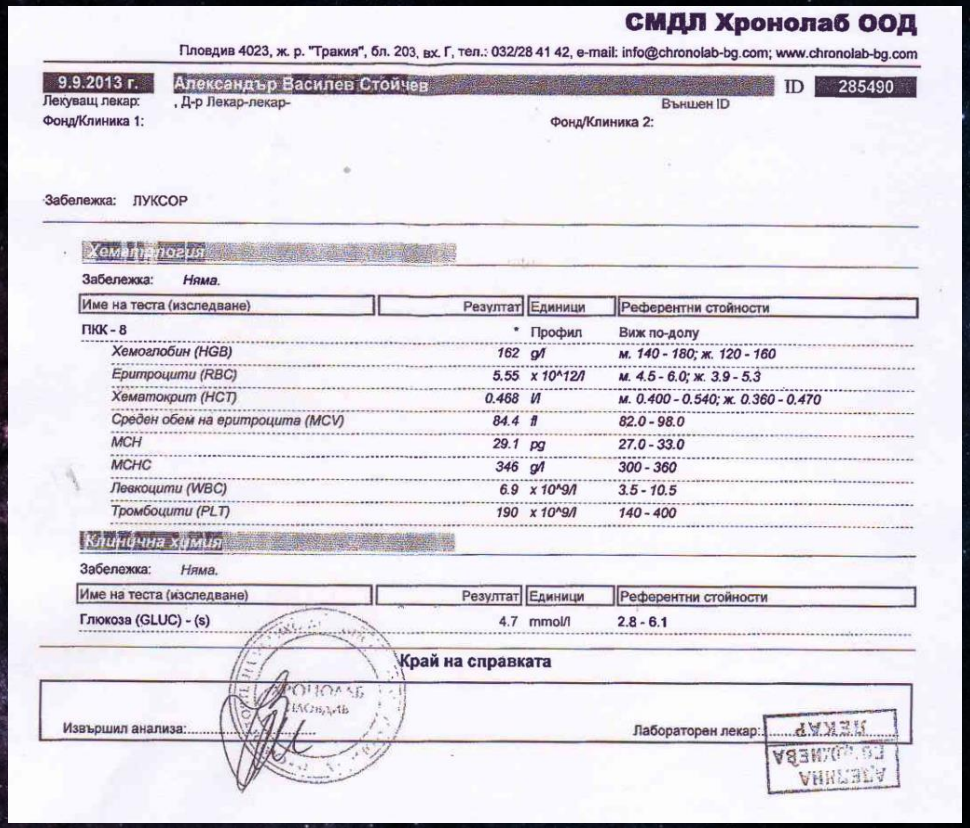






LIBRA, Bulgaria, Varna 2013

Blood parameters dynamic after course of helioprotective water by G. Veselinova et al, 2013



СМДЛ Хронолаб ООД

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9.9.2013 г. Александър Василев Стойчев ID 285490

Лекуващ лекар: , Д-р Лекар-лекар- Външен ID

Фонд/Клиника 1: Фонд/Клиника 2:

Забележка: ЛУКСОР

Хематология

Забележка: *Няма.*

Име на теста (изследване)	Резултат	Единици	Референтни стойности
ПКК - 8	*	Профил	Виж по-долу
Хемоглобин (HGB)	*162*	*g/l*	*м. 140 - 180; ж. 120 - 160*
Еритроцити (RBC)	*5.55*	*x 10^12/l*	*м. 4.5 - 6.0; ж. 3.9 - 5.3*
Хематокрит (HCT)	*0.468*	*l/l*	*м. 0.400 - 0.540; ж. 0.360 - 0.470*
Среден обем на еритроцита (MCV)	*84.4*	*fl*	*82.0 - 98.0*
MCH	*29.1*	*pg*	*27.0 - 33.0*
MCHC	*346*	*g/l*	*300 - 360*
Левкоцити (WBC)	*6.9*	*x 10^9/l*	*3.5 - 10.5*
Тромбоцити (PLT)	*190*	*x 10^9/l*	*140 - 400*

Клинична химия

Забележка: *Няма.*

Име на теста (изследване)	Резултат	Единици	Референтни стойности
Глюкоза (GLUC) - (s)	4.7	mmol/l	2.8 - 6.1

Край на справката

Извършил анализа:..... Лабораторен лекар:.....

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25.9.2013 г. Александър Стойчев ID 288624

Лекуващ лекар: , Д-р Лекар-лекар- Външен ID

Фонд/Клиника 1: Фонд/Клиника 2:

Забележка: ЛУКСОР

Хематология

Забележка: *Няма.*

Име на теста (изследване)	Резултат	Единици	Референтни стойности
ПКК - 8	*	Профил	Виж по-долу
Хемоглобин (HGB)	*164*	*g/l*	*м. 140 - 180; ж. 120 - 160*
Еритроцити (RBC)	*5.54*	*x 10^12/l*	*м. 4.5 - 6.0; ж. 3.9 - 5.3*
Хематокрит (HCT)	*0.474*	*l/l*	*м. 0.400 - 0.540; ж. 0.360 - 0.470*
Среден обем на еритроцита (MCV)	*85.6*	*fl*	*82.0 - 98.0*
MCH	*29.6*	*pg*	*27.0 - 33.0*
MCHC	*345*	*g/l*	*300 - 360*
Левкоцити (WBC)	*6.0*	*x 10^9/l*	*3.5 - 10.5*
Тромбоцити (PLT)	*177*	*x 10^9/l*	*140 - 400*

Клинична химия

Забележка: *Няма.*

Име на теста (изследване)	Резултат	Единици	Референтни стойности
Глюкоза (GLUC) - (s)	4,2	mmol/l	2.8 - 6.1

Край на справката

Извършил анализа:..... Лабораторен лекар:.....

DYNAMIC OF THE CORRELATION BETWEEN VOLUNTEERS BLOOD AND HELIOGEOPHYSICAL PARAMETERS BEFORE (TABL1,3) AND AFTER (TABL.2,4) HELIOPROTECTIVE DRINK WATER USING (Bulgaria,2013)

Таблица 1

Корреляционные зависимости параметров крови от протонов высоких энергий в 1 группе в 1-м измерении (9 сентября)

Показатель	Пр1	Пр2	Пр3	Пр4	Пр5	Пр6	Пр7	Пр8	Пр9	Пр10	Пр11
WBC	0,38	0,03	0,50	0,25	0,39	0,35	0,50	0,38	0,33	0,18	0,52
Lym	-0,05	0,03	-0,02	0,19	-0,07	0,24	0,37	-0,05	0,26	0,03	-0,03
Gran	0,57	0,35	0,34	0,13	0,56	0,31	0,36	0,57	0,42	0,11	0,71, P=0,009
HGB	0,30	-0,28	0,09	0,46	0,11	0,09	0,37	0,30	-0,003	0,12	0,18
RBC	0,33	-0,26	-0,06	0,56, P=0,03	0,16	0,22	0,36	0,33	0,23	0,23	0,19
HCT	0,39	-0,13	0,09	0,37	0,20	0,20	0,50	0,39	0,05	0,11	0,26
MCV	-0,06	0,14	0,33	-0,37	0,11	-0,31	0,007	-0,06	-0,39	-0,40	0,02
MCH	-0,20	-0,11	0,26	-0,37	-0,07	-0,53	-0,19	-0,20	-0,65, P=0,01	-0,43	-0,16
MCHC	-0,19	-0,65, P=0,01	0,19	0,16	-0,25	-0,34	-0,12	-0,19	-0,23	0,09	-0,08
RDW-CV	0,11	0,008	-0,01	-0,007	0,14	0,15	0,42	0,11	0,21	-0,09	0,13
RDW-CD	-0,09	-0,30	0,26	-0,18	-0,02	-0,24	0,22	-0,09	-0,20	-0,25	0,13
PLT	0,32	0,13	0,23	-0,03	0,38	0,12	0,43	0,32	0,06	-0,11	0,37
MPV	0,07	0,13	-0,36	-0,007	0,06	0,18	-0,07	0,07	0,15	-0,04	-0,25
PDW	-0,06	0,09	-0,50	-0,07	-0,06	0,09	-0,21	-0,06	0,01	-0,11	-0,35
PCT	0,56	0,11	-0,07	0,02	0,60, P=0,03	0,23	0,58, P=0,04	0,56	0,24	-0,18	0,38
Глюкоза	0,45	0,39	0,27	0,22	0,52	0,10	0,45	0,45	-0,10	-0,06	0,17

Таблица 2

Корреляционные зависимости параметров крови от протонов высоких энергий в 1 группе во 2-м измерении (24 сентября)

Показатель	Пр1	Пр2	Пр3	Пр4	Пр5	Пр6	Пр7	Пр8	Пр9	Пр10	Пр11
WBC	0,25	0,03	-0,50	0,13	-0,08	-0,20	0,43	0,18	0,55, P=0,04	-0,02	0,35
Lym	-0,08	0,17	-0,31	-0,08	0,09	-0,12	0,22	0,34	0,22	-0,59	0,25
Gran	0,35	-0,11	-0,32	0,52	0,16	-0,30	0,51	0,52	0,46	0,09	0,34
HGB	0,36	-0,20	0,29	0,24	-0,09	0,21	0,44	0,17	-0,08	-0,02	0,06
RBC	0,18	-0,26	0,34	0,51	-0,01	0,21	0,35	0,32	0,14	-0,02	0,21
HCT	0	-0,18	0,26	0,37	0,01	0,26	0,15	0,22	0,18	-0,18	
MCV	-0,14	0,08	-0,21	0,21	0,04	0,22	-0,15	-0,23	0,008	-0,46	-0,27
MCH	-0,005	0,09	-0,27	0,28	0,06	0,10	0,14	-0,22	-0,14	-0,57, P=0,03	-0,23
MCHC	0,008	-0,15	0,04	-0,07	0,11	-0,13	0,38	-0,03	-0,21	-0,27	-0,08
RDW-CV	-0,37	-0,21	0,35	0,22	0,18	0,23	-0,50	0,36	0,46	0,20	0,15
RDW-CD	-0,12	-0,26	0,07	0,27	0,47	0,30	-0,05	0,07	0,40	-0,19	-0,12
PLT	-0,08	-0,04	-0,33	-0,14	0,01	-0,01	-0,07	-0,02	0,15	-0,15	0,07
MPV	0,13	-0,002	0,49	-0,002	-0,50	-0,30	-0,10	-0,05	-0,28	0,32	0,17
PDW	0,29	0,01	-0,22	-0,29	-0,18	0,19	0,12	-0,45	-0,14	-0,17	-0,47
PCT	0,03	-0,25	0,13	-0,03	-0,05	0,13	-0,11	0,30	-0,03	0,05	0,17
Глюкоза	0,03	0,22	0,01	0,16	0,06	-0,20	0,22	0,28	0,12	0,21	0,04

Таблица 3

Корреляционные зависимости параметров крови от рентгеновского излучения в 1 группе в 1-м измерении (9 сентября)

Показатель	Rg короткие	Rg длинные
WBC	0,31	0,54, P=0,04
Lym	0,39	-0,07
Gran	0,13	0,56, P=0,03
HGB	0,41	-0,01
RBC	0,37	0,03
HCT	0,44	0,08
MCV	-0,30	0,32
MCH	-0,05	-0,16
MCHC	0,39	-0,34
RDW-CV	-0,04	0,25
RDW-CD	-0,36	0,02
PLT	-0,10	0,46
MPV	0,59	-0,31
PDW	0,13	-0,29
PCT	0	0,54
Глюкоза	0,37	0,43

Таблица 4

Корреляционные зависимости параметров крови от рентгеновского излучения в 1 группе во 2-м измерении (24 сентября)

Показатель	Rg короткие	Rg длинные
WBC	0,11	0,55, P=0,04
Lym	0,30	-0,07
Gran	0,04	0,57, P=0,03
HGB	0,24	0,02
RBC	0,35	0,20
HCT	0,38	0,01
MCV	-0,35	-0,16
MCH	-0,25	-0,02
MCHC	0,01	0,02
RDW-CV	0,26	-0,37
RDW-CD	-0,17	-0,35
PLT	-0,26	-0,15
MPV	0,37	0,17
PDW	-0,01	0,26
PCT	-0,22	0,01
Глюкоза	0,51	-0,01

Forecast (48h) correlation between phsyhophysiological and heliophysical parameters (solar protons) at patients (n=20): before 1, after control water 2, after helioprotective water course 3 /by T. Kuznetsova 2013/

1	Пр>1 МэВ	Пр>10 МэВ	Пр>100 МэВ	Эл>0,8 МэВ	Эл>2 МэВ
КЧСР возрастающая	-0,10	-0,07	0,55	-0,07	-0,07
КЧСР убывающая	-0,42	-0,32	0,01	-0,32	-0,32
ПЗМР	0,14	0,21	0,46	0,21	0,21
РДО	0,18	0,09	-0,66	0,09	0,09
Энтропия	0,35	0,53	0,61	0,53	0,53

2	Пр>1 МэВ	Пр>10 МэВ	Пр>100 МэВ	Эл>0,8 МэВ	Эл>2 МэВ
КЧСР возрастающая	-0,10	-0,07	0,55	-0,07	-0,07
КЧСР убывающая	-0,42	-0,32	0,01	-0,32	-0,32
ПЗМР	0,14	0,21	0,46	0,21	0,21
РДО	0,18	0,09	-0,66	0,09	0,09
Энтропия	0,35	0,53	0,61	0,53	0,53

3	Пр>1 МэВ	Пр>10 МэВ	Пр>100 МэВ	Эл>0,8 МэВ	Эл>2 МэВ
КЧСР возрастающая	-0,66	-0,66	**-0,87, P=0,004**	**-0,73, P=0,03**	-0,66
КЧСР убывающая	-0,26	-0,26	0	0,06	-0,26
ПЗМР	-0,59	-0,59	**-0,82, P=0,01**	**-0,73, P=0,03**	-0,59
РДО	-0,04	-0,04	-0,34	-0,01	-0,04
Энтропия	-0,33	-0,33	0	-0,41	-0,33

Novosibirsk region
Koltsovo 2013

Forecast (48h) correlation between hemodynamic and heliophysical parameters (solar protons) at patients (n=20): before 1, after helioprotective water course 2
/by O. Oseeva 2013/

1	Пр>1 МэВ	Пр>10 МэВ	Пр>100 МэВ	Эл>0,8 МэВ	Эл>2 МэВ
АД сист.	**0,78, P=0,03**	0,17	0,63	**0,78, P=0,03**	**0,78, P=0,03**
АД диаст.	0,64	0,39	0,25	0,64	0,64
ЧСС	0,53	0,71	0,51	0,53	0,53
СРПВ	0,10	0,25	-0,18	0,10	0,10
ЭФ до пробы	0,56	0,60	0,18	0,53	0,53
ЭФ после пробы	**0,78, P=0,03**	0,64	0,48	**0,78, P=0,03**	**0,78, P=0,03**

2	Пр>1 МэВ	Пр>10 МэВ	Пр>100 МэВ	Эл>0,8 МэВ	Эл>2 МэВ
АД сист.	0,28	0	-0,01	0,28	0,28
АД диаст.	0,61	0,06	0,58	0,61	0,61
ЧСС	0,57	0,01	0,42	0,57	0,57
СРПВ	0,43	-0,006	-0,20	0,43	0,43
ЭФ до пробы	0,41	-0,15	0,03	0,41	0,41
ЭФ после пробы	0,25	-0,25	0,08	0,25	0,25

Novosibirsk region
Koltsovo 2013

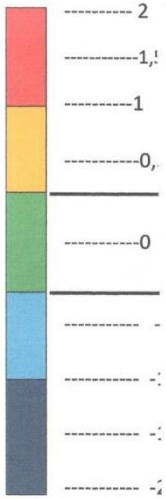
INAKARB, Germany, Roladsek 2013

Dynamic of vegetative parameters after volunteers using helioprotective water by data INAKARB (Germany., Rolandsek),2013

Messungen Измерения	Mittlere Standardabweichung Среднее стандартное отклонение, (SDNN), ms		Zentralisierungsindex Индекс централизации		Arrhytmien/ Аритмия % %		Bewertung des funktionalen Zustandes Оценка физиологического состояния			Vegetative Homöostase Превалирующее направление вегетативной нервной системы
	Wert Показатель	Norm Норма	Wert Показатель	Norm Норма	Wert Показатель	Norm Норма	Norm Норма 1-3	Pränosologische Zustände преднозологическое состояние 4-7	Anpassung gestört нарушение адаптации организма 8-10	
Kontrolle Контроль 20.11.13 17:40	101,1	30-100	3,1	2-8	15,2	0-4			8	Parasympatikus Парасимпа-тическое -2
	Wasseraufnahme / Приём воды: 20.11.13 18:40									
20.11.13 19:10 (+30min)	69,2	30-100	6,4	2-8	0,0	0-4			8	Parasympatikus -2 Парасимпа-тическое -2
20.11.13 20:10 (+1,5h)	58,2	30-100	3,9	2-8	0,0	0-4		7		Parasympatikus -2 Парасимпа-тическое -2
	Wasseraufnahme / Приём воды: regelmäßig 2X150ml pro Tag / регулярно 2X150мл в день									
25.11.13 15:20 (+5 Tage nach der Aufnahme) (+5 дней после приёма)	67,6	30-100	6,8	2-8	0,4	0-4			8	Parasympatikus Парасимпа-тическое -2

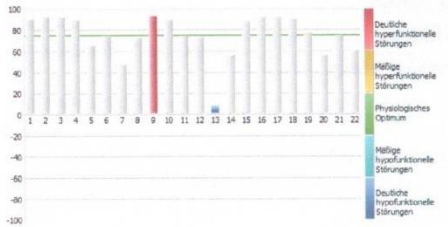
Messunge

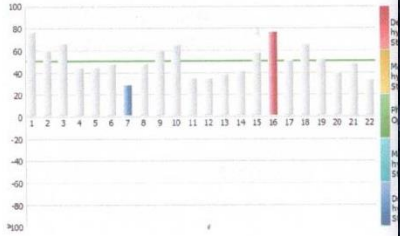
Funktionsst



Dynamic of AMSAT-HC diagnostic data at volunteers after helioprotective drink water using (INAKARB, Rolandsek,Germany, 2014)

Wasserart / Тип воды, используемый для эксперимента	Anti-Aging-Hologramm „Auge“, 150ml	kein Konzentrat
	Anti-Aging Голограмма "Око", 150ml	концентрат не использовался
Дополнительная информация, симптоматика:	-	

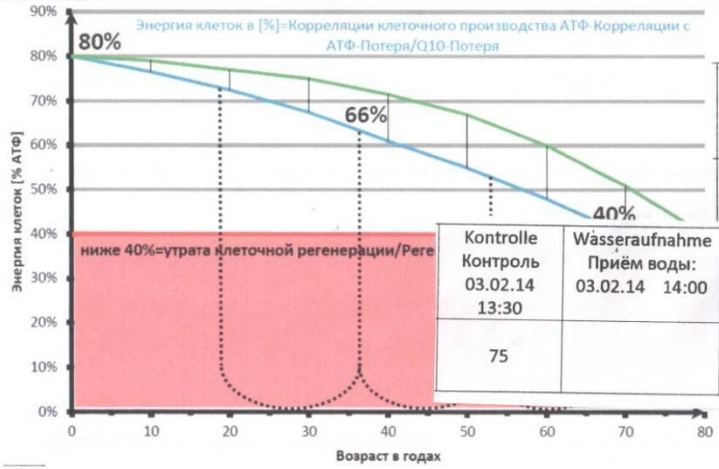




1		2	3
Kontrolle	Wasseraufnahme	03.02.14	03.02.14
Контроль	Приём воды:	13:50	16:40
		(+15min)	(+3h)
03.02.14 13:00	03.02.14 13:35		

Замечания: выявлено ярко выраженное снижение ацидоза, редукция воспалительных процессов

Energetic (% ATP) dynamic at organism of volunteers (n=3) after helioprotective water using (by INAKARB, Rolandsek, Germany data,2013, according prof. Zagriadsky method, `1975)



47

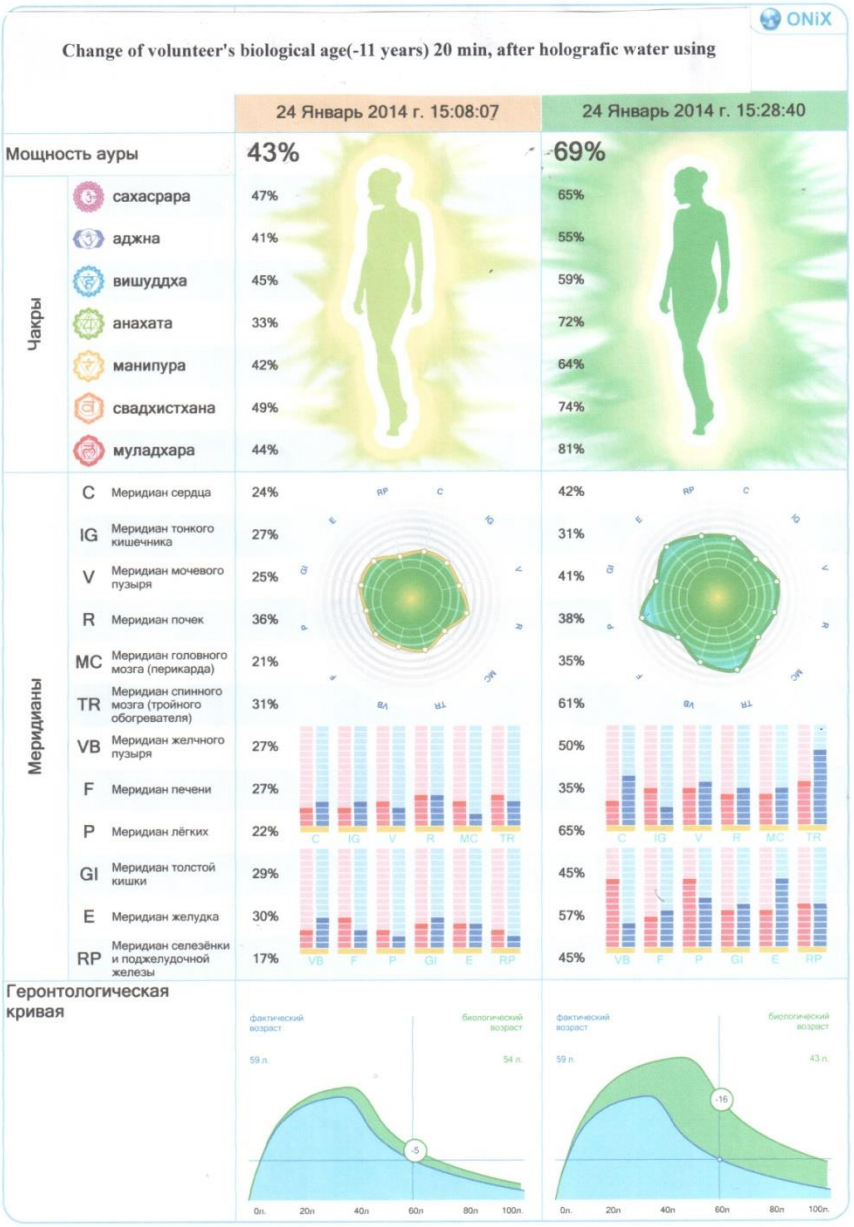
Kontrolle Контроль 03.02.14 13:00	Wasseraufnahme Приём воды: 03.02.14 13:35	03.02.14 13:50 (+15min)	03.02.14 16:40 (+3h)	Wasseraufnahme Приём воды: 04.02.14 12:45
102		102	131	

Kontrolle Контроль 03.02.14 13:30	Wasseraufnahme Приём воды: 03.02.14 14:00	03.02.14 14:20 (+20min)	03.02.14 15:30 (+1,5h)	Wasseraufnahme Приём воды: 04.02.14 10:00	04.02.14 11:00 (+1h nach der 2. Aufnahme) (+1h после 2-ого приёма))
75		54	52		103

„АТФ и возрастное распределение" - проф Загрядски, Международный союз, 1975 г.

Messungen Измерения	Kontrolle Контроль 29.11.13 11:50	Wasseraufnahme Приём воды: 29.11.13 13:05	29.11.13 13:35 (+30min)	29.11.13 18:05 (+5h)	Wasseraufnahme Приём воды: regelmäßig 2X150ml pro Tag регулярно 2X150мл в день	13.12.13 17:40 (+2 Woche nach der Aufnahme) (+2 недели после приёма)	17.12.13 10:20 (+2,5 Woche nach der Aufnahme) (+2 ,5 недели после приёма)
ATP, % АТФ, %	53		66	50		117	55

ISRICA Russia Novosibirsk 2014



By V. Stasiv, S. Ivanchuk 2014

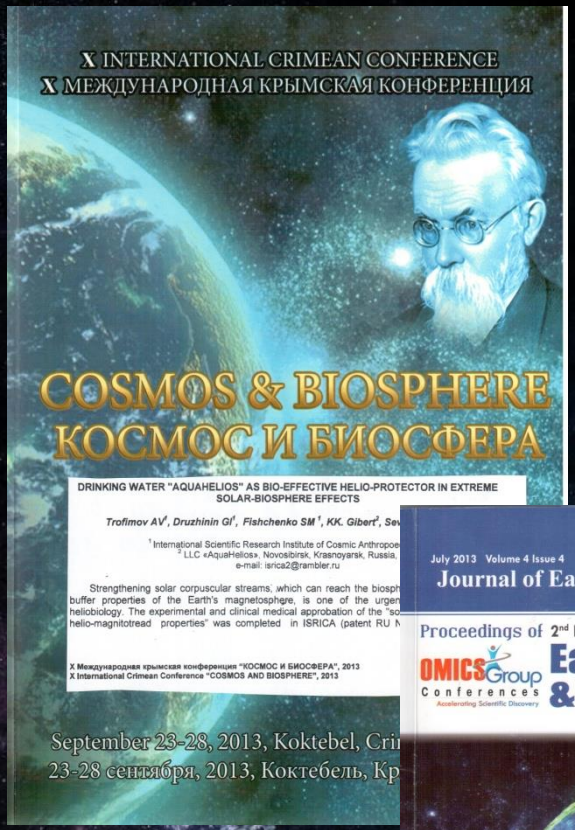
Pre-conference workshop of OMICS GROUP and ISRICA
“Helioprotective water…”

Russia Novosibirsk March, 21, 2014

Helio-Geroprotective Beverages “Altin Suu” and “AquaHelios”
Russia, Republic Altay, Novosibirsk

Conclusions

1. Jerks and secular excursions of the geomagnetic field, accompanied by the weakening of its induction and increased access to the biosphere solar-galactic corpuscular flows, increasing the measure of openness of biological systems can have evolutionary consequences for a man.
2. Non-medicinal means on the basis of drinking water treated in a weakened geomagnetic field, which reduces the excess heliomagnetotropic reactions of a man and promotes prevention of crisis states (on an example of patients with hypertension) was developed and successfully tested.
3. The necessity of geo-ecological life support in conditions of changing heliogeophysical environment, the ongoing reduction of geomagnetic induction and increased access of solar-galactic corpuscular flows to the biosphere was scientifically based.
4. Treatment of drinking water in a weakened geomagnetic field, in our opinion, leads to such changes in its nanoclusteral structure, energy-information capacity and biocatalytic activity that provide helioprotective effect, in relation to a man on the supramolecular, cellular, systemic and organismal levels.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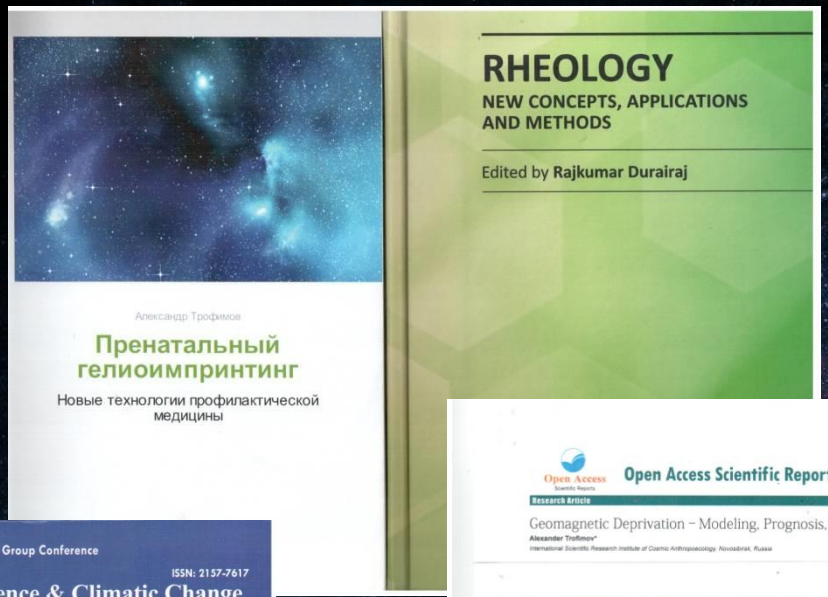
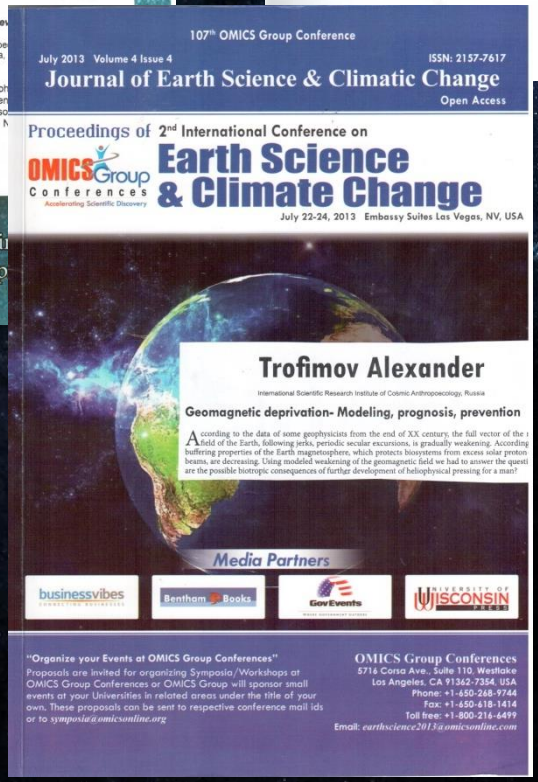
КОСМОС И БИОСФЕРА
DRINKING WATER "AQUAHELIOS" AS BIO-EFFECTIVE HELIO-PROTECTOR IN EXTREME SOLAR-BIOSPHERE EFFECTS
Trofimov AV[1], Druzhinin GI[1], Fishchenko SM[1], KK. Gibert[2], Sev
[1] International Scientific Research Institute of Cosmic Anthropoe
[2] LLC «AquaHelios», Novosibirsk, Krasnoyarsk, Russia,
e-mail: isrica2@rambler.ru
Strengthening solar corpuscular streams, which can reach the biosph
buffer properties of the Earth's magnetosphere, is one of the urgen
heliobiology. The experimental and clinical medical approbation of the "so
helio-magnitotread properties" was completed in ISRICA (patent RU N
X Международная крымская конференция "КОСМОС И БИОСФЕРА", 2013
X International Crimean Conference "COSMOS AND BIOSPHERE", 2013
September 23-28, 2013, Koktebel, Cri
23-28 сентября, 2013, Коктебель, Кр


Александр Трофимов
Пренатальный гелиоимпринтинг
Новые технологии профилактической медицины
RHEOLOGY
NEW CONCEPTS, APPLICATIONS AND METHODS
Edited by Rajkumar Durairaj


107th OMICS Group Conference
July 2013 Volume 4 Issue 4
ISSN: 2157-7617
Journal of Earth Science & Climatic Change
Open Access
Proceedings of 2nd International Conference on
OMICS Group Conferences
Earth Science & Climate Change
July 22-24, 2013 Embassy Suites Las Vegas, NV, USA
Trofimov Alexander
International Scientific Research Institute of Cosmic Anthropoecology, Russia
Geomagnetic deprivation- Modeling, prognosis, prevention
According to the data of some geophysicists from the end of XX century, the full vector of the
field of the Earth, following jerks, periodic secular excursions, is gradually weakening. According
buffering properties of the Earth magnetosphere, which protects biosystems from excess solar protons
beams, are decreasing. Using modeled weakening of the geomagnetic field we had to answer the quest
are the possible biotropic consequences of further development of heliophysical pressing for a man?
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Geomagnetic Deprivation – Modeling, Prognosis, Prevention
Alexander Trofimov*
International Scientific Research Institute of Cosmic Anthropoecology, Novosibirsk, Russia
Clinical Medicine Research
2013; 2(4): 48-53
Published online June 20, 2013 (http://www.sciencepublishinggroup.com/j/cmr)
doi: 10.11648/j.cmr.20130204.12
SciencePG
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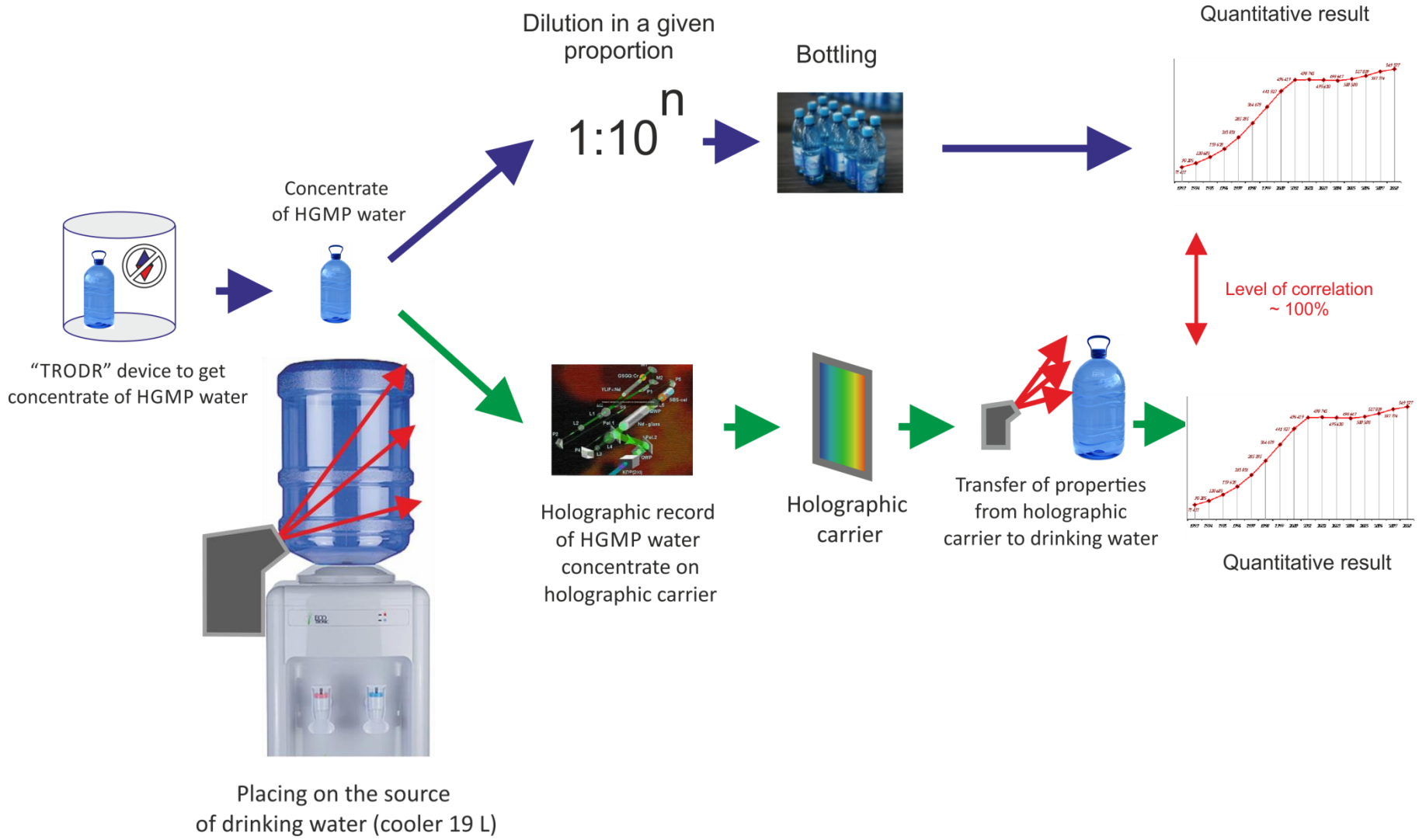
Non-medicinal helio-magnetoprotective remedies against the influence of solar and geomagnetic disturbances on human physiological parameters
Alexander Trofimov
International Scientific-Research Institute of Cosmic Anthropoecology, Prospect Academician Lavrentiev, Novosibirsk, Russia
Apr. 2013, Volume 10, No. 3-4 (Serial No. 91), pp. 63-70
Journal of US-China Medical Science, ISSN 1548-6648, USA
The Problem of Helio-Gerontology: The New Scientific Point of View at the Processes of Aging and Water-Holographic Prevention
Alexander Trofimov
Department of Biophysics, International Scientific-Research Institute of Cosmic Anthropoecology, Novosibirsk 630090, Russia
Abstract: The author's hypothesis for amount of the solar activity during prenatal development of human organism, detecting gene expression responsible for the level of metabolism and the fact that age processes can restrict man lifespan was investigated. The prenatal period of each person development proceeds in continuous interaction with heliogeophysical environment, depending on individual helio-magnetosensitivity of an organism. Heliogeophysical impact was estimated with the use computer program HELIOS (Ru Reg.Cert. 970125, 24.08.1997). There was a task in view: to develop new generation of helio-protectory means for people with high heliosensitivity and high risk of accelerated aging. Such means were created and patented in Russia (patent RU 2342149, 27.12.2008) and they were named helio-geroprotectors. Tests on bio-objects have shown high efficiency of such protectors on water and-holographic basis, increase in level steroid hormones, anabolic processes and reduction of speed of aging estimated on relation of stable isotopes of carbon 13C/12C in tissues (wool) in males-rats (n = 30), born at high activity of the Sun and using special informational light-hologram (patent RU 2239860, 10.11.2004) or for drink within one month water helio-protectors. Change of the level of isotope 13C in tissues (hairs), which content was detected by mass-spectrometer Delta and the vector of correlation of the decreasing or increasing of this isotope with sun's protons streams may be a new marker of rate of human aging and criteria of helio-gero-protectors efficiency. New helio-biophysical horizons of non-medical decrease in rate of human aging are designated.
Key words: Helio-geophysical factors, prenatal ontogenesis, water-holographic gero-prevention.

Holographic transfer of HELIOMAGNETOPROPECTIVE properties on water carriers. JNO «ISRICA», «Holoart» LLC



Special thanks to

academician **V. Kaznatcheev**, Russia

G. Druzhinin , Russia

D. Devitsin PhD , Russia

Ev. Sevostyanova PhD , Russia

T. Kuznetsova PhD , Russia

O. Oseeva PhD , Russia

Pr. E. Edinger, Germany

Pr. V. Selyatitskaya, Russia

E. Yaroshevskaya, Germany

G. Veselinova, Bulgaria

A. Manzirov, Russia

V. Gevorgyan, Armenia

Ch. Braun, USA

L. Mickhailova, MD, Russia

V. at N. Kuznetsov, Russia

M. Kurik, Ukraina

A. Zacharov, Russia

V. Stasiv, Russia

D. Shatunov, Russia