

THE LAST MULTI-TURNS OF THE SPIRAL OF TIME BEFORE IT ROLLS UP TO APPEAR IN NEW REALITY

by

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In [1, Part 3] there were considered several partitions of the time span of the Mayan Calendar (MC) into a finite sequence of cycles the lengths of which were decreasing in the Golden section. It is shown that partition of the MC by 12 epochs, together with two cycles preceding this calendar (13 cycles and 14 epochs in total), provides us with the separation points defined by the bounds of these cycles which can be associated with the epochs when the crucial events took place both in the history of humanity and in Natural phenomena (earthquakes, etc.). For this reason they were called the points of bifurcation, and the concept of Evolutional Time was proposed that was likened to *Auric Spiral of Time*.

In [2] the propagation of this idea onto the infinite sequence of cycles converging to the End of the MC was analysed. This new concept has allowed the authors to reveal a series of new important points before the end of the MC.

In order to distinguish between these two, we shall call the former the Finite (FAST), and the latter – the Infinite Auric Spiral of Time (IAST). The years of the FAST and IAST epochs are as follows

Table 1. The Basic Auric Separation Epochs for the Evolutional Cycles of the MC (FAST model, [1, Part 3])

11 449 BC	6298 BC	3114 BC	1146 BC	71 AD	823 AD	1287 AD
1574 AD	1752 AD	1861 AD	1929 AD	1971 AD	1997 AD	2012 AD

Table 2. The Basic Auric Separation Epochs for the Evolutional Cycles of the MC (IAST model, w/o dates [2])

11 407 BC	6282 BC	3114 BC	1156 BC	55 AD	803 AD	1265 AD
1550 AD	1727 AD	1836 AD	1903 AD	1945 AD	1971 AD	1987 AD
1997 AD	2003 AD	2006 AD	2009 AD	2010 AD	2011 AD	2012 AD (Jan)
2012 AD (June)	...				Point of convergence: 12:00 GMT Dec 21, 2012	

From these Tables we see that the difference in the interval length for the respective intervals is not significant for the correlations considered in [1, Part 3] until we approach the 20th century. Thus, the relative error for the FAST and IAST lengths of the first intra-MC interval makes

$$\delta \approx \frac{1968 - 1957.7}{1968} \approx 0.5\%$$

and increases to 1% for the intervals (1861-1929) vs. (1836-1903), and 6% for the last FAST interval, though the shift in the separation epochs, both in its absolute value and with respect to the interval length, becomes noticeable since the middle of the 19th century, if we consider them in a broad sense – as the bounds for the trends.

Therefore, with respect to the time tolerance used in study of the FAST model, the basic conclusions of [1, Part 3] (viz. those pertaining to the remote historical epochs) remain unchanged. To this end we may consider both models as such that allow us to analyse the Evolutional Time over the whole span of the MC, or in general.

At the same time, as far as the IAST presents the limit of the Auric spirals of this type, it is unique and, due to this, seemingly may be considered as a mathematically "perfect" or "accomplished" model of Evolutional Time. If so, the *separation points of the IAST* at the finishing time span of the MC *can represent very important points of bifurcation*. Though a great set of them covers a very small time

interval comparing with the MC time span, a dozen of them (for the exact dates, See the Table 3, below), before they begin to oscillate at the end of 2012, are seemingly synchronous with the very important events. Thus:

- the separation epoch of 1945 coincides with the Trinity test – the first explosion of a nuclear bomb on planet Earth had occurred at GMT 11:29:45 on July 16, 1945 [http://en.wikipedia.org/wiki/Trinity_site]. This is only 36.5 hours before the IAST bifurcation point [2], meaning that the event was closer to the bifurcation point than any of the correlated events found so far, and thus arguably the most significant one. The discovery also suggests a possible relationship between the Timewave Zero function [Terrence McKenna <http://www.levity.com/eschaton/waveexplain.html>] and the IAST, since they are both aligned to nuclear detonations and both imply some sort of time implosion in 2012;
- the epoch of 1987 coincides with the flash of supernova and some other important events [1, Parts 3, 8], including the Harmonic Convergence (Aug 16-17 1987) [<http://www.diagnosis2012.co.uk/harm.htm>]; as a day of worldwide celebration and meditation, it still has significance as an event close to a bifurcation point (but its correct calculation would have placed it closer to the bifurcation point);
- the epoch of 1997 coincides with coming of the comet Hale-Bopp, the influence of which is seen until now in correlation with the Terrestrial events, Solar activity surges, and trajectories of some other comets [1, Part 9];
- the epoch of 2003 coincides with starting of the International war against Iraq, exactly on the Focus of the comet Hale-Bopp, as the bombardments of Yugoslavia and offensive in Afghanistan [1, Sec. 9.7];
- the forthcoming epoch of 2006 (November 22) coincides with the Fifth Day of the Galactic Underworld [Carl Johan Calleman, http://2012.com.au/Fifth_day_Nov24-2006.html]; it is also preceded by conflicts in the Middle East, scandals with German soldiers in Afghanistan, conviction of Saddam and surge of terrorism in Iraq, a new 'Cuba crisis' like nuclear cold war with Iran (nuclear program and missile tests) and North Korea (nuclear test).

Further on, if the current IAST bifurcation points are so closely synchronized with the events of the world-wide importance at such a short span of time (in comparison with the length of the Mayan calendar), we may presume that they can have not less important harmonics. For the latter ones it is natural to consider the separation points which are engendered in the same way as those of the IAST, but within each of the IAST's interval.

In essence, this recently proposed (Jan Wicherink) *Fractal* model of IAST (FIAS) allows us to reveal non-arbitrarily the set of potentially important bifurcation points which, as the Time Foci of the comet Hale-Bopp [1, Part 9], may specify those moments of time when a resonant "explosion" may take place if one of these points coincides with a focus of some other factor of influence.

And the day of the "WTC-attack" is among them (!): it is the "third harmonic" of the interval Jan. 20, 1997 to Feb. 19, 2003.

Indeed, consider the Julian days of two adjacent separation points (See Table 3)

$T_1 = 2450469.279$ (Jan 20, 1997) and $T_2 = 2452689.923$ (Feb 19, 2003).

Denote the length of the respective interval $\tau = T_2 - T_1 = 2220.644$, and $\varphi = 0.61803399\dots$. Then, the Auric sequence of the bifurcation points for the interval (T_1, T_2) is as follows:

$$b_0 = T_1$$

$$b_1 = b_0 + \tau \times \varphi^2 = 2451317.49, \text{ or May 18, 1999;}$$

$$b_2 = b_1 + \tau \times \varphi^3 = 2451841.713, \text{ or Oct 24, 2000;}$$

$$b_3 = b_2 + \tau \times \varphi^4 = 2452165.7, \text{ or Sept 13, 2001;}$$

etc.

Note, that bifurcation point Sept. 13, 2001 lies between the 911-event and the nearby comet HB's Time Focus of September 16 (See Supplement 2, Vols. 145 and 146). And probably it was the resonance of these two Foci, the fractal Focus of Sept 13, 2001 and the comet HB's one, which had increased the explosive potential of that point of bifurcation.

Table 3. Separation Epochs and Intervals for the Infinite Auric Spiral of Time (IAST)

Separation Epoch No. i	Length of the interval ($i, i+1$) in Julian days	Separation Epoch i			
		Julian day of the Separation epoch i (left end of the interval)	Date of the Separation epoch (Julian calendar date before 1582)		
			Year	Month	Day
-2	1872000 (N exactly)	-	11407 BC		
-1	1156959.6443	-	6282 BC		
0	715040.3730602	584283 (viz. T_B)	3114 BC	9	6
1	441919.2538796	1299323.3730602	1156 BC	5	9
2	273121.1191806	1741242.6269398	55	4	7
3	168798.134699	2014363.7461204	803	1	11
4	104322.9844816	2183161.8808194	1265	3	4
5	64475.1502174	2287484.865301	1550	10	17
6	39847.8342641	2351960.0155184	1727	5	7
7	24627.3159533	2391807.8497826	1836	6	12
8	15220.5183108	2416435.1657359	1903	11	16
9	9406.7976425	2431655.6840467	1945	7	19
10	5813.7206683	2441062.4816892	1971	4	20
11	3593.0769741	2446876.2023575	1987	3	21
12	2220.6436942	2450469.2793317	1997	1	20
13	1372.4332799	2452689.9230259	2003	2	19
14	848.2104143	2454062.3563058	2006	11	22
15	524.2228656	2454910.5667201	2009	3	20
16	323.9875486	2455434.7895857	2010	8	26
17	200.235317	2455758.7771344	2011	7	16
18	123.7522317	2455959.0124514	2012	2	1
19	76.4830853	2456082.764683	2012	6	4
20	47.2691463	2456159.2477683	2012	8	19
21	29.213939	2456206.5169147	2012	10	6
22	18.0552073	2456235.7308537	2012	11	4
23	11.1587318	2456253.786061	2012	11	22
24	6.8964755	2456264.9447927	2012	12	3
25	4.2622563	2456271.8412682	2012	12	10
26	2.6342192	2456276.1035245	2012	12	14
27	1.628037	2456278.7377437	2012	12	17
28	1.0061822	2456280.3657808	2012	12	18
29	0.6218548	2456281.371963	2012	12	19
30	0.3843274	2456281.9938178	2012	12	20
31	0.2375274	2456282.3781452	2012	12	20
32	0.1468	2456282.6156726	2012	12	21
33	0.0907274	2456282.7624726	2012	12	21
34	0.0560726	2456282.8532	2012	12	21
35	0.0346548	2456282.9092726	2012	12	21
36	0.0214178	2456282.9439274	2012	12	21
37	0.0132369	2456282.9653452	2012	12	21
38	0.0081809	2456282.9785822	2012	12	21
39	0.0050561	2456282.9867631	2012	12	21
40	0.0031248	2456282.9918191	2012	12	21
41	0.0019312	2456282.9949439	2012	12	21
42	0.0011936	2456282.9968752	2012	12	21
43	0.0007377	2456282.9980688	2012	12	21
44	0.0004559	2456282.9988064	2012	12	21
45	0.0002818	2456282.9992623	2012	12	21
46	0.0001741	2456282.9995441	2012	12	21
47	0.0001076	2456282.9997182	2012	12	21
48	0.0000665	2456282.9998259	2012	12	21
49	0.0000411	2456282.9998924	2012	12	21
50	0.0000254	2456282.9999335	2012	12	21
51	0.0000157	2456282.9999589	2012	12	21
⋮					
⋮					

Notes.

1. The remainder for these terms, that is the difference in time between the epoch No. 51 (2456282.9999589) and the End of the Mayan Calendar $T_E = 2\ 456\ 283$, makes 3.6 seconds; for this, no need exists for presentation of the remaining terms.
2. The JD number 2456282.9999589 means 3.6 seconds *to* GMT noon on December 21, 2012; for comparison, the JD number 2456283.000042 corresponds to 3.6 seconds *after* the GMT noon on December 21, 2012.
3. So, the same *integer part* of the JD is associated with two calendar dates. The fractional part f uniquely defines the date and time of the day: after noon of the "previous date" (GMT = 12 h + $f \times 24$ h), if it is less than 0.5, and before noon of the "next day" (GMT = $(f - 0.5) \times 24$ h), if it is greater than 0.5; in case the fractional part equals 0.5, it will correspond to the change of date at 24:00 hours (0.5 unity of a JD corresponds to 12 hours).

In general, we may consider the same partitioning of the latter subintervals, and further on. Thus, the first separation point of the second subinterval of the same IAST interval Jan. 20, 1997 to Feb. 19, 2003, or the third order partitioning of the interval No. 12 (for more detail, See Supplement 1) makes **February 24, 2001**. This date is also close to the comet Hale-Bopp's Time Focus **March 3**. And namely between these two dates one of the greatest world-wide crimes was committed: shooting down of the Ancient monuments in Afghanistan (See Supplement 2).

As to the mathematical aspects of the FIAST separation points, the following can be noticed

1. From mathematical point of view, for any given date J we can find such a FIAST epoch $FIAST(i_1, i_2, \dots, i_m)$ of order m which is as close to J as desired. In other words, if we liken the FIAST time span to a day, the first order epoch would show the hour, the second order epoch – the minute, the third order epoch – the seconds, etc. However, as far as these secondary epochs should seemingly be considered as the harmonics of the primal epochs of the FIAST, and from physics we know that the energy of harmonic decreases with the growth of its number, we may conclude that the actual effectuality of a secondary epoch diminishes with the increase in its order.
2. As far as the start of the Mayan calendar is known, but to within the accuracy of a day, it probably makes no sense to specify the separation points with the greater accuracy (that is to minutes and seconds) until we would settle the difference between that moment t_{MC} and GMT noon t_{GMT} of this date. This may be done, for example, by minimizing the difference (or variance) between the FIAST epochs and those significant events that can be associated with them. However, this requires that other possible factors of influence on these events are taken into account as well.
3. One may ask, why we cannot consider the same partitioning of the Mayan calendar, but with the use of some other base number, say – 2 instead of the φ (this is probably the case with the Time Wave Zero function). To this end we cannot answer why the Golden section should be used, but we can say quite definitely that the Auric Time Scale Γ with the radix φ not only describes the most crucial epochs in the known history of the Earth and humanity [1, 2], but namely this scale most adequately reflects the spectrum of the basic periods in Nature and society, including the geological and Solar activity cycles and the artefacts of Egypt [1, Parts 2, 4, 7].

As to the potential efficiency of the FIAST epochs, the following can be said

Esoteric wisdom teaches us that a forecast may be correct, but it may not come into life. This concept reflects our modern understanding of the world as a complex system of interacting subsystems where no single subsystem maintains complete dominance over the others. A sound example is seen in the correlation of periods within the Solar system, where the planetary and Solar cycle periods correlate

between themselves and modulate the Terrestrial periods (See [1, Parts 2, 4]), though not any one of them can be taken for the dominant one or used without taking risks.

In astrology there exists the rule of three indications: if for an event of definite nature there exist three (or even more) different planetary situations (or three forecasts being based on different approaches) which presume occurrence of this type of event at approximately the same moment of time, this event would take place almost for sure.

In mathematics, if we have n events and each of them may take place with the same probability p , then at least one of them (viz. 1, or 2, or 3) would occur with the probability $P=1-(1-p)^n$. So, if $p = 1/2$, then a single indication forecast is realized with the probability $P_1 = 1/2$, a two-indication forecast – with the probability $P_2 = 3/4$, a three-indication one – with $P_3 = 7/8$, etc. This way, with the growth of n the probability of occurrence of at least one event may be increased infinitely (up to 1).

Of course, in real life these independent indications correspond, but to a single actual event; but if they are actually independent, viz. reflect different aspects of the considered process, their multitude reflects the number of the equipped factors of influence.

Therefore, from different points of view it becomes obvious, that the greater the number of *independent* forecasting methods which give us an indication for an event of definite nature to occur at the specified moment of time, the greater the chances for this event to take place.

Besides, due to a complexity of interaction of various processes, some processes may "modulate" other ones. That is why we do not observe "mathematically exact" correlations in time.

For this reason the concept of synchronism and resonance has been put forward [1, Part 1] which proposes to take account of both these factors. As it is seen from the above examples and supplement 2, the most significant events took place when there were two or more independent indications. On the contrary, we may hardly expect a bifurcation point to manifest itself in a pronounced way, unless it is accompanied by a bifurcation point of some other nature.

Therefore, neither FAST, nor IAST, nor any other approach could be considered as a completely defined prophecy by itself, but as more or less efficient forecasting tool. From this point of view and with taking account of the obtained correlations we may conclude that the IAST and its fractal analogue do actually present a tool of this type which, as a clock, is provided with the hour (IAST) and minute (FIASST) hands.

Of course, further correlations require further study, but in order to carry them out we need a concept first. To this end it is interesting to see what we will have later this year, at the end of November 22, 2006, the next first order bifurcation point of the IAST. This date corresponds well with the date for the next major novelty as predicted by the Time Wave Zero function (early November 2006) and with Carl Johan Calleman's prediction of the start of the Fifth Day of the Galactic Underworld on November 24.

Anyhow, the current explosive trends in Nature and society do not exclude the possibility of a breakdown of the "Earthly Machine", since it is over-stressed and we still continue to floor the accelerator of our insatiable desires

References

- [1] <http://www.ASTROTHEOS.narod.ru>
- [2] <http://www.diagnosis2012.co.uk> ; Geoff Stray. "Beyond 2012", 2005
- [3] <http://www.soulsofdistortion.nl/ATS.html> On-line calculator of the FIASST separation points

SUPPLEMENT 1. Mathematical Model of the Infinite Auric Spiral of Time and its Fractal Structure

The terminating epochs of the Mayan calendar

Sharer confirms (*The Ancient Maya* p.755) that, “The 584,283 correlation is preferred by many scholars, since it synchronizes the ancient Maya calendar with the surviving 260-day almanacs used in several highland Maya communities today.” Here are two online calculators that will confirm this:

<http://www.diagnosis2012.co.uk/conv.htm>

<http://www.xibalba.com/iwalut/>

So, we consider the following terminating epochs of the Mayan calendar, in Julian days (JD):

The count of days starts on

$$T_B = 584\,283 \quad (\text{GMT correlation}). \quad (1)$$

This JD-day count corresponds to

September 6, 3114 BC in Julian Calendar, or August 11, 3114 BC in Gregorian Calendar.

The Long Count is terminated on

$$T_E = 584\,283 + N = 2\,456\,283, \quad (2)$$

where $N = 1\,872\,000$ – is the length of the complete period of the MC in days. This JD-day count corresponds to

December 21, 2012 AD in Gregorian calendar.

Dealing with JD, instead of years, allows us to increase the accuracy of calculation of the bifurcation points.

But more important is the following. By definition, each JD starts at GMT noon; at this moment, in Mesoamerica the astronomical time is about 6 o'clock which corresponds to sunrise. As far as the latter event was considered by the Maya to be the start of the day, we can conclude, that making use of the JD allows us to increase the accuracy of the bifurcation points up to the hours, if not dozens of minutes, what might be important for the last year bifurcation points of the MC.

Comment. Eric Thompson, in *Maya Hieroglyphic Writing* (p.102) says that the present-day Jacalteca and Ixil Maya groups both count the day from sunset, and the Aztec day ran from midnight to midnight. However, it is thought by most Mayanists that the Yucatecan day went from sunrise to sunrise, and there is also glyphic evidence for this in Classic times.

The separation points of the first order

For obtaining the Auric separation epochs for the Mayan Calendar that lie between the terminating ones (1), (2), consider a progressive partitioning of the period N onto m Auric cycles. The duration of each of these evolutional cycles

$$\varphi^0 \tau_m = \tau_m, \quad \varphi^1 \tau_m, \quad \varphi^2 \tau_m, \dots, \quad \varphi^{m-1} \tau_m; \quad (\varphi = 1/\Phi = 0.618\dots) \quad (3)$$

decreases with respect to the preceding one by the factor of φ . Here, τ_m is the duration of the first of them, which is defined by the normalizing equation

$$\tau_m = \frac{N}{\sum_{i=1}^m \varphi^{i-1}}. \quad (4)$$

So, if we should like to find the limit for infinite sequence of the Intra-MC epochs, we must imply $m \rightarrow \infty$. As far as (3) presents a geometrical progression, for the sum in (4) we obtain

$$\sum_{i=1}^m \varphi^{i-1} = \frac{\varphi^m - 1}{\varphi - 1} \xrightarrow{m \rightarrow \infty} \frac{0 - 1}{\varphi - 1} = \frac{1}{1 - \varphi} = \varphi^{-2}. \quad (5)$$

Therefore

$$\tau_m = N \cdot \varphi^2 \approx 1872000 \times 0.381966... \approx 715040.3945. \quad (6)$$

Note, that approximate equality sign is used here because the Golden section presents an irrational number the value of which with any desired accuracy may be obtained from the exact equality

$$\varphi = \frac{\sqrt{5} - 1}{2}.$$

This means, that these intervals (together with the two preceding extra-MC periods) present the Auric Time Scale Γ [1, Parts 2,3] with the *time unity* being equal to the length T_M of the Mayan Calendar (!) the terms of which converge to zero

$$N \cdot \varphi^0 = N, \quad N \cdot \varphi^1, \quad N \cdot \varphi^2, \quad N \cdot \varphi^3, \quad N \cdot \varphi^4, \quad N \cdot \varphi^5 \dots$$

From this point of view, this sequence of time intervals defines namely the *Convergent Spiral* of Time.

The separation points of higher orders

Call the separation points (intervals) of the IAST given in Table 3 the points (intervals, respectively) of the first order. For any interval I_k of the first order with separation epochs (s_k, s_{k+1}) consider the partitioning (3), (4) where $N = I_k$; this gives us the FIAST separation points and intervals of the second order, and so forth.

Let $FIAST(i_1, i_2, \dots, i_m)$ denote the date being specified by the separation epoch i_m of order m . Then:

$FIAST(0)$, as the epoch 0 of the first order, presents the start of the Mayan calendar;

$FIAST(12)$ presents the epoch No. 12 of the first order, that is (See Table 3):

$$2450469.2793317 \text{ (JD), or January 20, 1997 (Gregorian calendar);}$$

$FIAST(12, 3)$ presents the second order epoch, namely – the epoch No. 3 within the interval $I_{12}=(s_{12}, s_{13})$ of the first order; as it is shown above, this date corresponds to

$$2452165.7 \text{ (JD), or Sept 13, 2001 (Gregorian calendar);}$$

$FIAST(12, 2, 1)$ presents the third order epoch; namely - the epoch No. 1 for the second order interval No. 2 of the interval $I_{12}, \text{ or } (s_{12}, s_{13})$, of the first order. Numerically, it can be calculated as follows

$$FIAST(12, 2, 1) = s_{12} + [I_{12} \cdot \varphi^2 + I_{12} \cdot \varphi^3] + J_{12} \cdot \varphi^2,$$

where $J_{12} = I_{12} \cdot \varphi^4$ - is the length of the third interval of second order. Thus,

$$\begin{aligned} FIAST(12, 2, 1) &= s_{12} + [I_{12} \cdot \varphi^2 + I_{12} \cdot \varphi^3] + (I_{12} \cdot \varphi^4) \cdot \varphi^2 = \\ &= s_{12} + I_{12} \cdot (\varphi^2 + \varphi^3 + \varphi^6) = 2450469.2793317 + 2220.6436942 \times 0.67376208 = \\ &= 2450469.2793317 + 1496.185512 = 2451965.4648437 \text{ (JD),} \\ &\text{or February 24, 2001.} \end{aligned}$$

If required, the *time of day* for the epoch $FIAST(12, 2, 1)$ may be obtained as well:

$$\text{GMT} = 12\text{h} + 24\text{h} \times (2451965.4648437 - 2451965.0) = 23 \text{ h } 9 \text{ m } 22.5 \text{ s.}$$

where $\text{JD} = 2451965.0$ corresponds to the noon of Feb 24.

SUPPLEMENT 2. Description of the Events Associated with the considered Bifurcation Points

INFO RELATIVE TO THE YEAR OF 1987

With respect to the revealed correlation between the flashes of Supernovae and the MC bifurcation points, making use of the IAST epoch of January 20, 1987 becomes very important (the extract from [1, Part 3, page 21]) :

“A seldom person had seriously responded to the Cosmic event that had occurred on the February 23rd, 1987 at 2:53 UT, whereas this event will probably go down to history” [38].

At that moment, the Canadian astronomer Shelton who was working in Chili, had registered the **flash of Supernova in the Magellanic Clouds being the satellite of our Galaxy**. This Supernova was assigned the name **SN1987A**. Registration of the respective splash of gravitational radiation shows that its magnitude was extremely high. As a result, a vigorous energy flux had struck the Sun and planets, and it was powerful enough to influence even the Solar processes.

Thus, at the beginning of the 1987 the Sun was calm, whereas even in two days after this flash the sunspots had aroused on the surface of the Sun, and, since then, the number of sunspots had begun to steadily grow until the 11-year Solar activity maximum took place in 1989 – 1991, after the shortest inter-maxima period over the 150 years [38].

At this time (1987), a series of fierce natural cataclysms took place in that year: unprecedented drought and forest fires in USA and China in Summer and powerful floods in China in Autumn; the Nile also burst its banks and flooded Khartoum. The Spring floods on the Rhine and Danube had exceeded all the levels on the record. The tropical thunderstorms and showers were continuing over the European part of the USSR for a month. In Autumn, $\frac{3}{4}$ of the Bangladesh territory was flooded, 30 million people were left homeless, and the epidemic of cholera had flared up. The typhoon “Gilbert” did damage to the Caribbean Region to the value of about \$10 million. All these are apart from the unprecedented natural calamities in Nicaragua, Indonesia, and other regions [38].

Besides, the flash of Supernova stimulates, in particular, such processes as rising of the average atmospheric temperature which, in compliance with the World Meteorological Organization, could attain the values of 1.3°C in 2000 and 3°-4°C in 2050. To this end, the greenhouse effect and flash of Supernova act in unison.

The amount of energy the Earth absorbs out of the energy flux engendered by a flash of Supernova is two – three times greater the energy emitted by the greatest earthquakes and is near to the power of tectonic processes in the Earth [38]. That is why the flash of Supernova SN1987A was able to change the seismic and tectonic course of events, viz. to initiate a number of drastic earthquakes, floods, and other calamities, as well as to shift their epicenters.

Indeed, with the end of eighties the scientists mention uncommonness of enormous earthquakes in Armenia, a shift of Caucasus seismic region to the North, activation (flowing of lava to the surface, increase in emission of gases, rise in temperature of mineral sources) of **Elbrus** – the highest mountain in Europe and the volcano that was sleeping for five millennia (*viz. since the beginning of the Mayan Calendar*), the crater of which is closed by a dangerous 8-kilometer-wide glacial plug.

In addition, they mentioned earthquakes measuring a dangerous 6 points on Richter scale in central Volga and other regions that were not related to such dangerous zones. A similar situation happened in Ukraine (the last noticeable earthquake was in 1999) where the exploded nuclear reactor sarcophagus is disposed of near the operating unit of the Chernobyl atomic power plant (for this, see also the SULD effect, below).

INFO RELATIVE TO THE YEAR OF 2003

The International War against Iraq with an indefinite result. Apart from the coincidence with the Focus of the comet Hale-Bopp, the war had started within a month of the IAST epoch of Feb 19, 2003. The below is the extract from [1, Part 9, Sec. 9.7]:

Vol. 224 –March 23, 2003

THE COMET HALE-BOPP AND WAR

Sergey Smelyakov, March 20, 2003

Whether Pentagon uses astrology, or simply surrenders to its fate?

Once again, since the coming of the comet Hale Bopp (HB), the USA starts a war at the Foci [1] of this comet:

Bombardments of Yugoslavia had started on March 24, 1999 - exactly at the HB 's Focus of T5 (March 24);

On March 1, 2002, the USA has started the offensive in Afghanistan, the full swing of which comes to March 2-6 (viz. at HB's Focus of T3, March 3);

it was estimated as the largest and most severe military operation the USA held since the Korean war; Today, on March 20 (viz. at HB's Focus of T4, March 20), the USA has started the war against Iraq (at Saturn-Pluto opposition with Saturn in the 8th for Washington, etc.; for both sides, the A*C*G map is also impressive).

As the forthcoming HB's Foci are T5 (March 24), TB (April 7-11), T6 (July 4, 14), T7 (September 16), they may also specify the key points in developing of this war.

Reference:

[1] Sergey Smelyakov: An Astrological Background of the Acute World Trends
<http://cura.free.fr/xx/18smelya.html>

Maybe the following is also interesting, though this event is only half-a-year close to the considered epoch (the extract from [1, Part 4]) :

Example 4.1. After the "official end" of Solar activity maximum in 2000, an "unexpected" series of Solar storms, being estimated as the largest in three decades, took place at the end of October 2003. One of these Solar flares is estimated as the 3rd largest in history ["Sun shoots monster flare at Earth" <http://msnbc.com> , ID=984388]. Thus, a severe solar flare that occurred on October 28th and its associated coronal mass ejection (CME) produced an extreme geomagnetic storm starting on October 29th that lasted for twenty-four hours. On October 29th, Solar Active Region 486 produced another major solar flare resulting in a severe radio blackout. Associated with this solar flare was a coronal mass ejection. This CME impacted Earth's magnetic field on October 30th and produced another extreme geomagnetic storm. The primary source of this activity, NOAA Active Region 486, has become the largest sunspot region observed during this cycle. [Space Weather Advisory Bulletin #03-4, www.sec.noaa.gov]. As a result, a rare effect of Northern Lights was observed at lower altitudes: in Japan, Ukraine and other countries.

Though this intense surge of Solar activity takes place unusually late in this Solar cycle, it gives us some more *evidence for the actuality of the Regular model*, because the current model epoch $t_{36}^* = 1605.27 + 11.07 \cdot 36 = 2003.8$, viz. October 18, 2003, with a high accuracy fits the dates of these Solar storms.

INFO RELATIVE TO THE SEPTEMBER 11, 2001
[1, PART 9, SEC. 9.7]

Vol. 145 – 2001

IT SEEMS THAT THE COMET HALE-BOPP DOES NOT WANT TO SURRENDER

Sergey Smelyakov, August 30, 2001

The distribution of the record-type events over the Geographical and Time Focuses [1] of the comet Hale-Bopp still shows no signs of cardinal fall in influence. So, we may expect a series of events of extremal nature around the forthcoming Focus of September 16 around the specified regions (first of all - USA, Balkans and Central Europe, Moscow and some other regions of Russia (Irkutsk, Vladivostok, etc.), Israel, India, Afghanistan, Japan, China, Indonesia) where it showed its power quite exactly, as well.

During the previous years, this Focus was also marked by natural calamities, but, first of all, - by a splashes in air and space crashes, fires and other technogeneous catastrophes. We may see, that the catastrophe of the atomic submarine "Kursk" and starting of the preliminary operations for the salvaging closely correspond to these Focuses and associate eclipse of August 1999; so, the vicinity of the September 16, that was fixed up long before to be the date of salvaging, also seems to be dangerous.

As well, several times this Focus marked a splashes in mental collisions, social and political disorders, and military operations.

So, in two weeks we will see, whether the combined influence of this comet, several eclipses and Solar activity is still effective, or is falling down.

[1] S. Smelyakov. We are still passing through the Focuses of the comet Hale-Bopp. ISAR Int. Email Letters, Vol.122 (March 2001)

FIERCE MANIFESTATIONS OF THE COMET HALE-BOPP

Sergey Smelyakov, September 12, 2001

I PRESENT MY DEEP CONDOLENCES TO THE PEOPLE OF THE USA

For the fifth year, since the comet Hale-Bopp's Focuses and Factors of influence were discovered, I do not feel any kind of satisfaction, but only am astonished with the systematic general fulfilment of my mundane forecasts associated with the Time and Geographical Focuses of influence of the comet Hale Bopp (HB) which, generally, acts in correspondence with the splashes of Solar activity and some eclipses [1, 2].

Thus, once again, the Focus of September 16 (within the orb of 5 days that corresponds to 5 degrees of the Ecliptic), as it was forecasted [1, 2], had marked itself, but this time - with the unexpectedly great tragedy in the USA on September 11. Apart from other events (e.g. financial crises) and countries, we may remember that air crashes and the USA are systematically seen in statistics of events which, as splashes, generally concentrate around these Focuses.

Thus, within a three day (viz. 3 degree) orb of this Focus (September 16, 1997), it firstly manifested itself with the following series of tragic events, when, as now, LARGE NUMBER OF DEATHS took place that caused special actions, NEW YORK and BOEINGS WERE CONCERNED and the FLIGHTS of F-117A were PROHIBITED in the USA (!): Sept. 13 Disappearance of the USA's C-141, 9 victims, and German's Tu-154, 24 victims (the last one is believed to be the second worst disaster for German Military Forces since WW II). Sept. 14 - crash of F-117A, Baltimore. Sept. 15 - The US Air Force temporarily grounded its fleet of F-117A "stealth" fighters. Sept. 17 - crash of UNO's helicopter, 12 victims. Sept. 19 – Two Boeing 747 had a near-collision close to New York. "Air Force officials began an investigation over the September 20 into six crashes of a US military aircraft in a week ... In all 16 Americans have died in the U.S. military crashes since Sept. 13".

Over two weeks (Sept. 13 - 26) not less than 315 people were killed in air crashes (including 234 people in A-300 airbus in Jakarta), that makes 140% of the first half-year amount!

As far, as the 5-degree of Ecliptic orb of this Focus is active until September 21 and the events under its influence show a trend to occur so that definite [1, 2] states are simultaneously included in them, we may conclude that the comet HB's Focuses are actually still active and may present us a series of dramatic events even in the forthcoming week - as if supporting the concept of entering to the Age of Capricorn [3] on completion of the Mayan Calendar [4].

References:

- [1] S. Smelyakov. Non-planetary Mundane Factors of Influence in 2001. - TIA, Vol. XXIX, N.4, pp. 48-49.
- [2] S. Smelyakov. Comet Hale Bopp. Int.ISAR Email Letter, Vol. 145, 2001.
- [3] S. Smelyakov. The Solar Zodiac and The Age of Capricorn. - TIA, Vol. XXIX, N.1, pp. 41-45.
- [4] S. Smelyakov and Yu. Karpenko. THE AURIC TIME SCALE AND THE MAYAN FACTOR
http://temporology.bio.msu.ru/EREPORTS/smelyakov_auric_time.gz.ps

INFO RELATIVE TO THE FEBRUARY 24 – MARCH 3, 2001

"In continuation of the preceding distribution of events over the Time Focuses for this country [2, 5], note the monstrous crime of the current regime – destruction of the Buddhist monuments (near **Bamian**, Afghanistan), the culmination of which comes to the beginning of March, that is to T3, when the UNO and almost all other countries had declared their demand to immediately stop this vandalism; nevertheless, within several days before and after the date of March 3 (viz. T3) two most large monuments of Buddha being engraved in a rock were exploded by talibs with dynamite and shot from the tanks. On March 13 (viz. T8 exactly) the CNN publishes the first photos of the destroyed statues of Buddha." [1, Part 9, Sec.9.5., subsection "Afghanistan"].

With respect to the Himalayan Tradition (testimony of Nicholas de Roerich in "The Seven Great Secrets of Cosmos") the importance of these monuments becomes much higher: he states that these five figures were created by the Initiates (High Priests) of the Fourth Race much earlier (viz. millennia before coming of Gautama Buddha) – after *sinking of Atlantis*; they were illustrating the Theosophical Teaching relative to the evolution of the Human Races. This places them among such Sacred artefacts as the Great Pyramid in Giza, Stonehenge, etc.