

# **General genesis of political epochs of the Russian history's: from the Christening of Rus (988) until 2003**

The daily plan of Baron Munchausen on 30.05.1776 r .:

6:00 - Rise  
7:00 - The dispersal of clouds  
8:00 - Geroic deed  
16:00 - War against England

From the Mark Zakharov's film

"The same Munchausen"

## **Introduction**

For a long time many historians, despite the criticism, trying to find hidden patterns of historical events, including their date of nonrandom, to be able to use patterns to predict uncovered. There are many studies looking at the history of Russia as cycles, the duration of which is related to the periods of planets of the Solar system. So, the orbital period of Jupiter is about 12 years, forming the basis of the Eastern calendar, and it connects many important events with intervals of multiples of 12: 12, 24, 36 ... 144 years, etc. the Most famous 12-year cycle forms a chain of fateful years in the history of Russia XX century: 1905-1917-1929-1941-1953-1965-1977-1989-2001-2013 - .... . Similar research presented in [1,2].

Also known for 29.5-year cycle, probably associated with the planet Saturn, which as experience shows, only periodically, for example, within about 100 years. So this cycle is manifested by linking the dates of the deaths of the rulers of Russia and the USSR (Fig.1): **Alexander III (1894) → Lenin V.I. (1924) → Stalin I.V. (1953) → Brezhnev L.I. (1982)**. A coincidence is a coincidence can not be explained. However, at the moment, the cycle of Saturn, the action ceased.

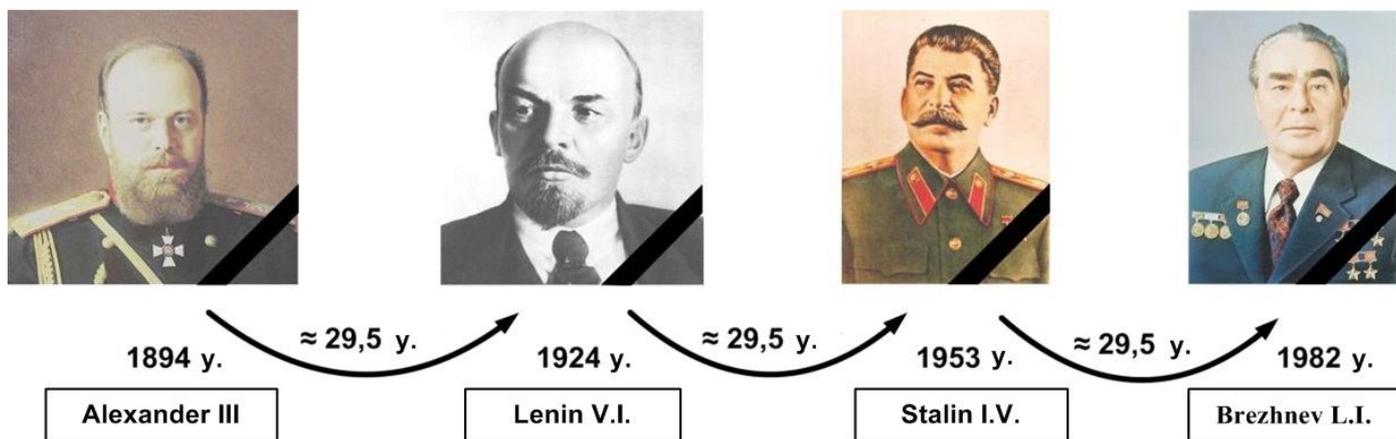


Fig.1 The manifestation of the cycle of Saturn ( $\approx 29.5$  years) by the dates of leaving the life of the rulers of the Russian Empire and the USSR.

Despite a clear manifestation of the mentioned cycles, starting from the date of departure from the life of Emperor Alexander III in 1894, it seems to be very interesting to test the implementation of the laws to the opened this tragic moment for the Empire, for example, during the previous nineteenth century. And this theme has devoted copyright study [3], from which it is useful to cite some excerpts. **"Which year corresponds to a complete cycle of Saturn to the death of Alexander III? This 1864 Nicholas I died a natural death in 1855 ..... Let's see, if not the eldest brother Constantine? After all, he was the heir of Alexander I and Nicholas had time to swear allegiance to Constantine, until the final surrender of the latter. Looking into the genealogical table, we see that Constantine died in 1831. There inevitably comes to mind the legend of Fedor Kuzmich. According to legend, Alexander I have not died in 1825 in Taganrog, as it was officially announced, and left to wander in Russia and ended his days in the wilds of Siberia under the name of Fyodor Kuzmich. Test this hypothesis, I did not know when he died Fyodor Kuzmich and thought unlikely to Alexander I (if he was) lived until 87 years. However, it turned out that Fyodor Kuzmich slept in Bose in January 1864 ..... .What to prove. "**

Therefore, even if you count all the same death Fyodor Kuzmich, it occurred in 1864, is complete and accurate identification of him with Alexander I is officially unconfirmed and partly mythological fact. At least, the applicability of the event to the subject can be considered 50/50, i.e. about 50%.



Fig.2 Emperor Alexander I and ancient Fyodor Kuzmich.

A careful study of the manifestation of Saturn cycles can be seen not only on the fate of the rulers of the Russian Empire and the USSR. The same pattern emerged on the fate of Russian writers of the nineteenth and twentieth centuries (Fig. 3):

**Gogol N.V. (1852) → Dostoevsky F.M. (1881) →  
→ Tolstoy L.N. (1910) → Bulgakov M.A. (1940).**

And this law is also still waiting for its researchers.

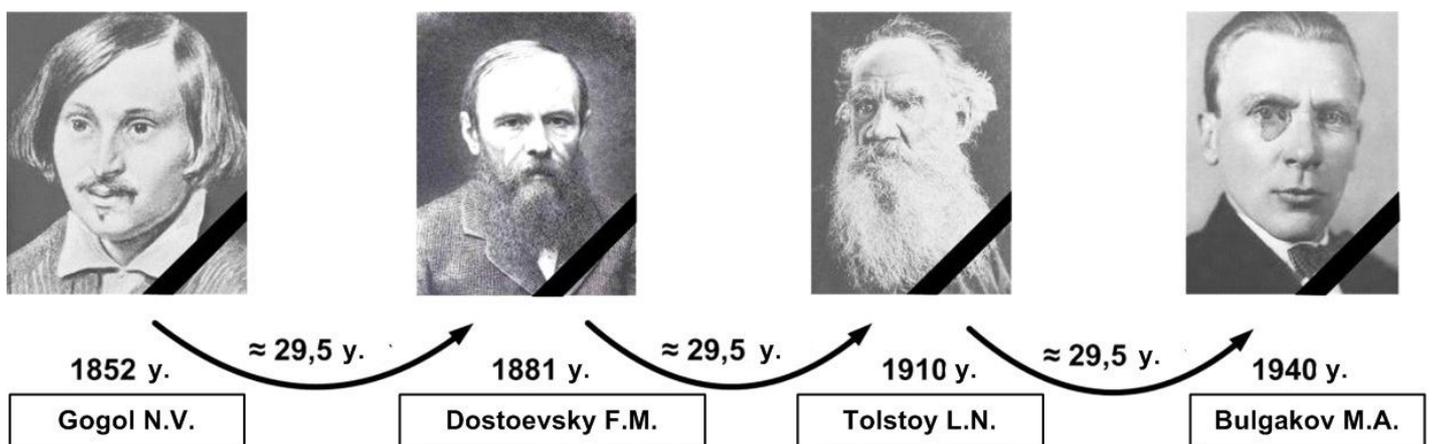


Fig.3 The manifestation of the cycle of Saturn ( $\approx 29.5$  years) by the dates of died of the great Russian writers.

Despite the fact that such a chain of events often difficult to identify, but there is always the desire to search for and understanding of the laws of the history of Russian attempts of its mathematical description is not only limited to a period of  $\approx 100$  years, and within a longer retrospective. And in this article made such an attempt, and presented results of such laws.

As taught classics of philosophy, the development of most complex systems there is a spiral. However, it is known that there are at least two kinds of helix:

1) cylindrical spiral, without focus, determined by periodic cycles such astronomical cycles as described above;

2) conical spiral with a focus or zero point Z (Zero), dividing successively convergent and divergent branches.

Presentation of historical processes in Russia as a conical spiral with a central point consist of focus in a spiral and isn't original. In article [4] had previously shown a flowchart of the helical development of Russia since the Christening of Rus. However, until now the main problem consist of the definition parameters of the spiral.

In one of these options can be applied Fibonacci's series with known relationship between them by Golden Section (GS), which are universal and are used in many areas. Now is known for pioneering work (theory) of doctor Shchapova Y.L., consider the applicability of the Fibonacci numbers for the periodization of history [5]. But this theory consist of great historical periods, the duration of which is a multiple of the numbers of the Fibonacci series in thousands of years.: 1, 2, 3, 5, 8, 13 thousand years ... So it is not acceptable understanding of the events of the recent history of the XX century and for the most famous events of 1000 years of history, starting with the Christening of Rus, and then the Russian and Soviet empires, this post-Soviet period of Russian history.

In previous works [6-10] identification of regulations of Russian history was based on the development of the spiral for her GS and similarity of historical events within one angular sector to different eras.

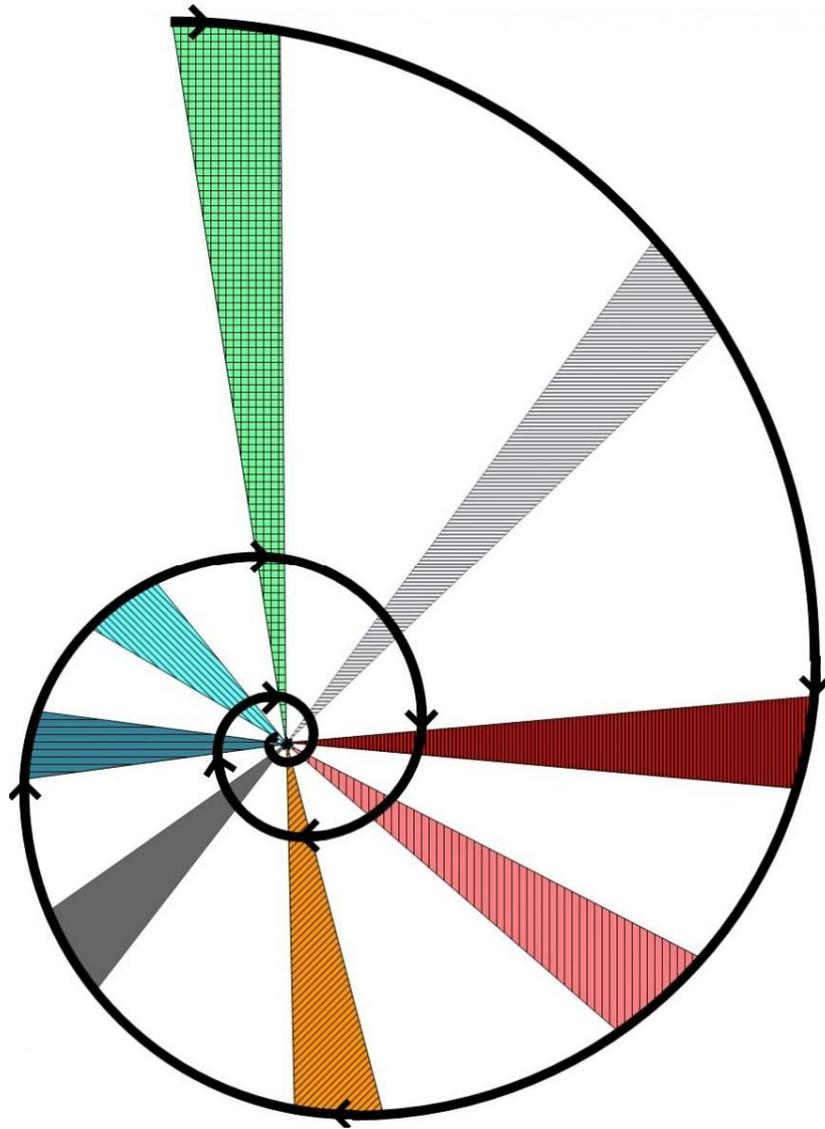


Fig.4 Diagram explaining the attribute of similarity of historical events on different branches of a spiral GS in the same angular sectors and phases of history.

However, when constructing the spiral GS used in these two studies Fibonacci series shifted relative to each other at intervals of 55 years: Based on key dates and times and durations were not selected higher priority one. Therefore, the results of the studies gave different results. In this regard, the tasks of research are:

- search and selection of the reference interval between the key events of the Soviet Union with the best combining the Fibonacci series, starting with the Christening of Rus,
- construction of a spiral GS for the selected Fibonacci series,
- find regularities (and including mathematical) history of Russia with the help of established GS;
- determination of the structure of Russian history, the creation of its programs and the identification of its features.

Despite the fact that such a chain of events often difficult to identify, but there is always the desire to find and understand the laws of Russian history with its attempts to mathematical description within a long-term retrospective. And this article introduces a new attempt to find these patterns.

### **1. Creation of a spiral GS Russian history**

To construct a bidirectional spiral GS Fibonacci series consist of ...-55, -34, -21, -13, -8, -5, -3, -2, -1, -1, 0, 1, 1, 2, 3, 5, 8... should be aligned with the gaps between the key dates, the fateful events of Russian history by selecting one of the slots as the reference interval. Because Russia's history is full of such key events so the theoretical reference can be used several intervals, and the entire sequence of the history of Russia for the period of about 1000 years, since the Christening of Rus (988), can be combined with a variety of the Fibonacci series to the construction of a large number of spirals GS with a time difference relative to each other. Taking into consideration that every social process has many steps and is always multi-layered and has a unique period of flow, each such separately taken GS spiral will describe his particular stage (in the history, present and future) in Russia.

Nowadays, modern mathematical methods, such as the least squares method can choose the most accurate alignment of Fibonacci numbers with fateful intervals. In further studies it can be done, and now as long as it is done empirically. Such a selection would be made on the basis of the following criteria:

- the XX-th century was probably the most controversial in the history of Russia, consisting of the great tragedies and victories, a large number of bright political leaders, crucial dates, including the controversial rate changes, actions, turns and "squiggles";

- at the turn of the century at the same time there is a transition from the Piscean to the Aquarian age and the old Plato's year, lasting more than 25 thousand years, to the new;

- a significant acceleration of events in the history of Russia in the last 30 years, is felt by the majority of Russians.

Based on this further shows three series of historical dates, intervals that are multiples of the numbers of the Fibonacci series and which are the most likely candidates for further research.

|   |  |
|---|--|
| <b>Historical series of dates №1, combined with a series of Fibonacci</b> | The reference is to the 55 years interval duration (marked in red) between the start of the reforms of Emperor Alexander II in 1862 and the October Revolution in 1917   |
|   | ...409 <sup>-610</sup> 1019 <sup>-377</sup> 1396 <sup>-233</sup> 1629 <sup>-144</sup> 1773 <sup>-89</sup> <b>1862</b> <sup>-55</sup> <b>1917</b> <sup>-34</sup> 1951 <sup>-21</sup> 1972 <sup>-13</sup> 1985 =<br><sup>8</sup> 1993 <sup>-5</sup> 1998 <sup>-3</sup> 2001 <sup>-2</sup> 2003 <sup>-1</sup> 2004 <sup>-1</sup> 2005 <sup>+1</sup> 2006 <sup>+1</sup> 2007 <sup>+2</sup> 2009 <sup>+3</sup> 2012 <sup>+5</sup><br>2017 <sup>+8</sup> 2025... |

|   |   |
|---|---|
| <b>Historical series of dates №2, combined with a series of Fibonacci</b> | The reference is to the 55 years interval duration (marked in red) between the October Revolution in 1917 and 1972 - the date of the most powerful of the USSR;   |
|   | ...464 <sup>-610</sup> 1074 <sup>-377</sup> 1451 <sup>-233</sup> 1684 <sup>-144</sup> 1828 <sup>-89</sup> <b>1917</b> <sup>-55</sup> <b>1972</b> <sup>-34</sup> 2006 <sup>-21</sup> 2028 <sup>-13</sup> 2041=<br><sup>8</sup> 2049 <sup>-5</sup> 2054 <sup>-3</sup> 2057 <sup>-2</sup> 2059 <sup>-1</sup> 2060 <sup>-1</sup> 2061 <sup>+1</sup> 2062 <sup>+2</sup> 2065 ... |

|   |   |
|---|---|
| <b>Historical series of dates №3, combined with a series of Fibonacci</b> | The reference is interval of 21 years (marked in red), by the removal of Khrushchev N.S. in 1964 and the beginning of Gorbachev's perestroika (1985)  |
|   | ...1875 <sup>-55</sup> 1930 <sup>-34</sup> <b>1964</b> <sup>-21</sup> <b>1985</b> <sup>-13</sup> 1998 <sup>-8</sup> 2006 <sup>-5</sup> 2011 <sup>-3</sup> 2014 <sup>-2</sup> 2016 <sup>-1</sup> 2017 <sup>-1</sup><br>2018 <sup>+1</sup> 2019 <sup>+1</sup> 2016 <sup>+2</sup> 2016 ... |

As you can see, the history of Russia can include several historical processes taking place at different phase, like the different spirals shown in Fig.5. And some time ago the manifestation two rows of the Golden Ratio shifted by 55 years relative to each other has already been discussed in author's earlier [11]. In reviewing the Russian history with a depth of less than 300 years, i.e., approximately until Peter's reforms, this approach is interesting and useful, because it allows you to get different "slices of history" and to build a more comprehensive, volume and multi-faceted description of historical processes with sufficient manifestation of all the nuances. But for the longer 1000-year history of Russia since the Christening of Rus (988) need not individual shades, some nuances and more general

patterns exhibited like a normal Gaussian law, which allows to understand the major historical processes and see real truth.



Fig.5 Flow of time and historical events described by different spirals GS (Fibonacci spirals) with different phase.

Therefore, this study presented three options, based on the largest number of coincidences as a reference was selected as the historical series of dates №1 and with this number of formed table 1 with superposition of the Golden section (series of Fibonacci) with the fateful events dates in the Russian history, which is very good agreement between actual and estimated dates for Fibonacci series.

Table 1 Superposition of series of the Golden section with the fateful dates in the Russian history, from 988 to present

| Historical series GS                   |                   | Dates fateful historical events |           | Fateful historical events  |
|--|-------------------|---------------------------------|-----------|--|
| The past/ the future                   | Numbers Fibonacci | Calcul.                         | Fact.     |  |
| <b>The 1000-year history of Russia</b> |                   | 1019                            | 988       | Christening of Rus   |
|  | -377              | 1396                            | 1380      | Battle of Kulikovo   |
|  | -233              | 1629                            | 1613      | End of turmoil, accession and new course of Romanova M.                                |
|  | -144              | 1773                            | 1762      | Beginning of the reign of Catherine II   |
|  | -89               | 1862                            | 1862      | Beginning of reforms of Alexander II   |
|  | -55               | 1917                            | 1917      | October Revolution   |
|  | -34               | 1951                            | 1953      | Death of Stalin I.V. and change the course of Khrushchev N.S.                          |
|  | -21               | 1972                            | 1972      | Maximum growth rates of the Soviet Union   |
|  | -13               | 1985                            | 1985      | Beginning of Perestroika Gorbachev M.S.  |
|  | -8                | 1993                            | 1991-1993 | August coup, the collapse of the Soviet Union, the execution of the Russian Parliament |
|  | -5                | 1998                            | 1998      | Default, the reform of the economy Primakov E.M.                                       |
|  | -3                | 2001                            | 2001      | Maximum growth rates of post-Soviet Russia   |
|  | -2                | 2003                            | 2002-2008 | The period of zero point Z - preservation of all trends: destructive and constructive  |
|  | -1                | 2004                            |           |  |
|  | -1                | 2005                            |           |  |
| +1                                     | 2006              |                                 |           |  |
| +1                                     | 2007              |                                 |           |  |
| <b>Future</b>                          | +2                | 2009                            | 2009      | The global economic crisis   |
|  | +3                | 2012                            | 2012      | The election Putin V.V. for president of the Russia a third term                       |
|  | +5                | 2017                            | ?         | Future fateful event in the life of Russia   |
|  | +8                | 2025                            | ?         | Future fateful event in the life of Russia   |

For this data graphically formed spiral GS forms a converging cone with zero point Z in 2005, after which it starts unwinding in the form of a divergent cone (Fig.1). You can also assume that, at least in the range of  $\pm 2$  years from this zero point Z in 2005, ie from 2003 to 2007 yy. it will influence the prevailing, and this period can be described as a period of zero point Z. Frontal GS spiral can be represented like clockwork spiraling dial with clockwise rotation with branches tending to focus (Fig.6b) and after focus (Fig.6c).



Fig.6 Schematic view of Russian history, comprising the period from the Christening of Rus (988) until present

- on the side, in the form of a conical spiral with focus by a zero point Z in 2005 (a),
- front, with the dial in the form of a spiral, converging to the focus (b) and diverging after it (c).

## 2. Timeline of Russian history

As it follows from Fig.1.4 in each cycle of spiraling GS Russian history goes in a circle  $360^\circ$  and consists of 4 historical periods in accordance with Table 2. However, more visible and familiar is a circular loop image for each man with 12 divisions similar a clock and a need to get every historical era divided into 3 small interval, while maintaining a constant ratio between them and the overall golden ratio. Then each received so small interval will be like an hour Russian history.

Thus, it is necessary to formulate the Trinity for GS condition by dividing the interval into 3 segments b and c are in golden ratio to each other, three smaller  $b_1, b_2, b_3$  и  $c_1, c_2, c_3$  (Fig.7) with two conditions:  $b=b_1+b_2+b_3$  and  $c=c_1+c_2+c_3$ . The golden proportion suggests the relationship between the segments b and c like  $b/c=1,618$ , as a general rule for the newly formed segments takes the following form:  $b_1/b_2=b_2/b_3=b_3/c_1=c_1/c_2+c_2/c_3=k$ . Then the value of k is defined as  $k = \sqrt[3]{1,618} \approx 1,17$ . Thus, in accordance with the tasks of research we construct spiral GS and consider all its features.

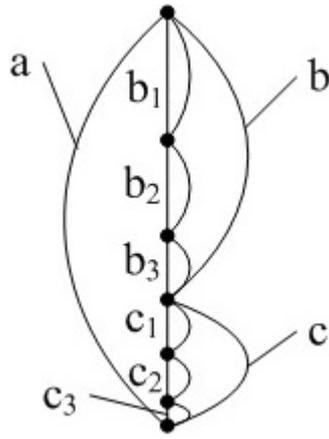


Fig.7 Graphic diagram for explaining the division ratio at each of the segments b and c into three segments  $b_1, b_2, b_3$  и  $c_1, c_2, c_3$ , forming the golden proportion.

In constructing the spiral GS timeline of Russian history it is not linear, and the duration of it every hour for all three coils can be determined as follows. It is known that for a convergent series Fibonacci ratio of more  $F_n$  to less  $F_{n+1}$  adjacent Fibonacci numbers  $3/2, 5/3, 8/5, 13/8, 21/13, 34/21, 55/34, 89/55 \dots$  to limit the number of aims with the famous golden ratio:  $F_n/F_{n+1} \rightarrow \varphi = 1,618$ , where  $n$  - number of the Fibonacci numbers,  $\varphi$  - the number of the golden proportion. Spiral GS consist of the three turns of  $Q_1, Q_2$  and  $Q_3$  of the Russian history and every turn consists of 4 part of the turns GS:

$$Q_1 = F_1 + F_2 + F_3 + F_4,$$

$$Q_2 = F_5 + F_6 + F_7 + F_8,$$

$$Q_3 = F_9 + F_{10} + F_{11} + F_{12}$$

and in matrix form when changing sequence numbers in a matrix  $F_{ij}$  can be recorded

$$\begin{pmatrix} Q_1 \\ Q_2 \\ Q_3 \end{pmatrix} \Rightarrow \begin{pmatrix} F_1 & F_2 & F_3 & F_4 \\ F_5 & F_6 & F_7 & F_8 \\ F_9 & F_{10} & F_{11} & F_{12} \end{pmatrix} \Rightarrow \begin{pmatrix} F_{11} & F_{12} & F_{13} & F_{14} \\ F_{21} & F_{22} & F_{23} & F_{24} \\ F_{31} & F_{32} & F_{33} & F_{34} \end{pmatrix}, \quad (1)$$

where  $i$  - number of the turn from 1 to 3,  $j$  - number period (cycle) from 1 to 4.

According to the table 1 of matrix (1) can form the matrix of the momentous events of Russian history, in which events are similar to each other in nature are in one column:

$$\begin{pmatrix} 988 & 1380 & 1613 & 1762 \\ 1862 & 1917 & 1953 & 1972 \\ 1985 & 1993 & 1998 & 2001 \end{pmatrix}, \quad (2)$$

By the matrix (2) 3-th turn spiral diagram Table 2 was created and constructed (Fig.8), which each round consists of four cycles with  $90^\circ$  angular sector equal duration in years

Fibonacci number. In addition, each cycle is divided into three further division with the formation of a total of 12 divisions as the clock dial with 30° angular sectors so that each correspond to a so-called division suspended 1 hour of history (historical hour). If desired, everybody can imagine this scale and other scales (as you like), assuming that each of the 12 divisions corresponds to 5 minutes, and a complete turn - one hour. However, regardless of the adopted scale of the overall ratio for the three divisions are as follows:  $F_1=t_1+t_2+t_3$ ,  $F_2=t_4+t_5+t_6$ ,  $F_3=t_7+t_8+t_9$ ,  $F_4=t_{10}+t_{11}+t_{12}$ , and then the first round of written expression  $Q_1=F_1+F_2+F_3+F_4= t_1+t_2+t_3+t_4+t_5+t_6+t_7+t_8+t_9+t_{10}+t_{11}+t_{12}$ , where  $t_1, t_2, \dots, t_{12}$  - length of one division of the nonlinear timeline.

**Table 2 Total in repeating these key events of history of Russia**

| №<br>period J | Total in duplicate<br>fateful events     | Fateful events of the Russian history   |
|---------------|--|---|
| 1             | Radical reform                           | <ul style="list-style-type: none"> <li>- the Christening of Rus by Prince Vladimir «the Red Sun» (988);</li> <li>- The reforms of Emperor Alexander II (1862);</li> <li>- Perestroika of Mikhail Gorbachev (1985);</li> </ul>   |
| 2             | Revolutionary<br>birth of a new<br>state | <ul style="list-style-type: none"> <li>- the Kulikovo's battle of 1380, inspired by Sergi Radonezh with the participation of Tokhtamysh and Dm. Donskoy;</li> <li>- The October revolution of 1917, led by Lenin, V.I. (1917);</li> <li>- August revolution led by Yeltsin B. N. in the form of opposition to the coup (1991);</li> </ul> |
| 3             | Non-radical<br>reform                    | <ul style="list-style-type: none"> <li>- New course tsar Romanov M. (1613) after the termination of the Rurik dynasty and the turmoil;</li> <li>- New course Khrushchev N.S. after the death of Stalin I.V. (1953);</li> <li>- New economic course of Primakov E.M. after the default (1998);</li> </ul>                                  |
| 4             | Quiet<br>development<br>of the state     | <ul style="list-style-type: none"> <li>- Development of the Russian Empire by Catherine II;</li> <li>- Development of the USSR by Brezhnev L.I.;</li> <li>- Development of Russia by Putin V.V.</li> </ul>  |

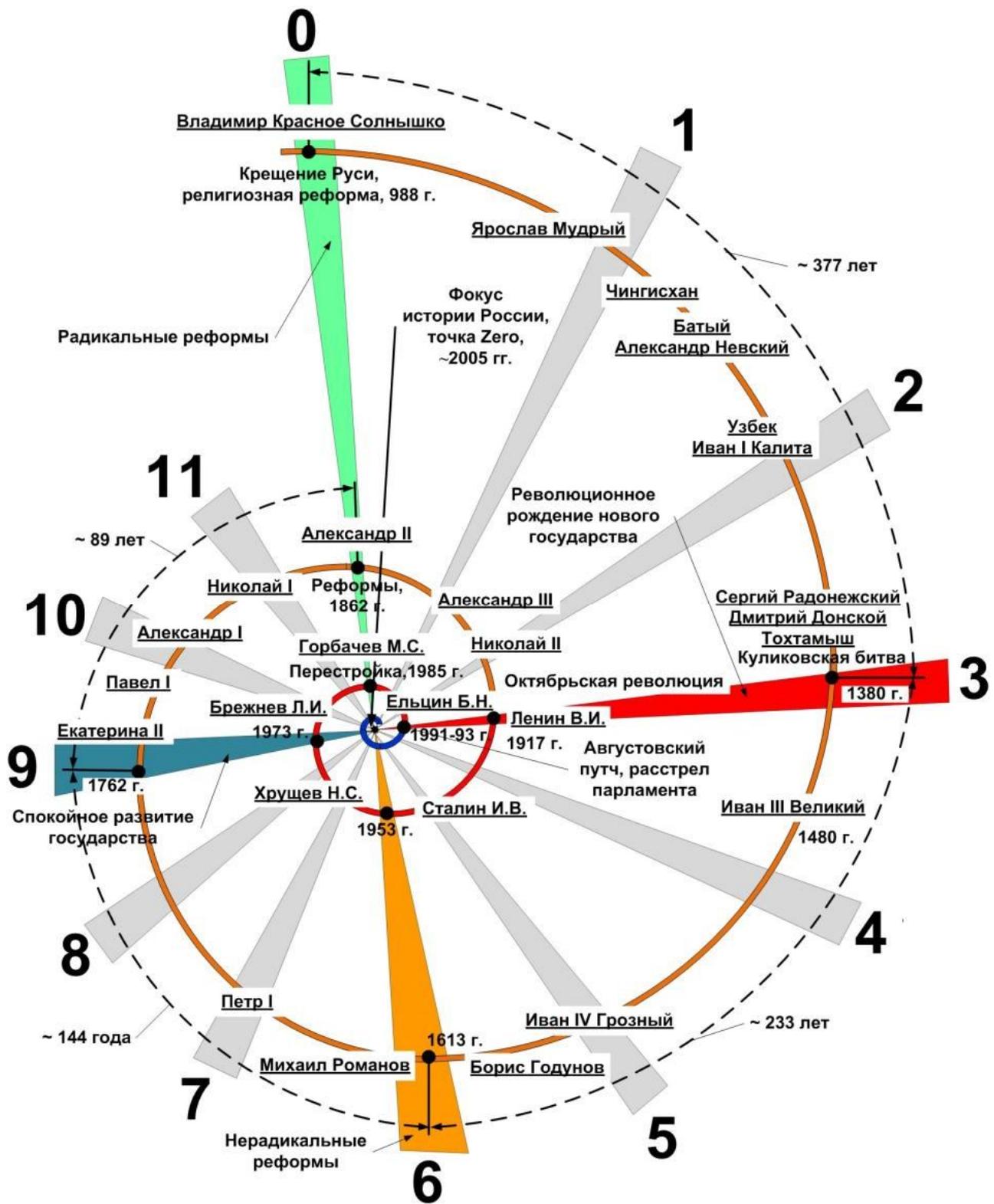


Fig.8 There is spiral GS shown by 3-th turns spiral with fateful historical epochs according to the scale of time (phase history).

If the ratio between adjacent tick marks is determined by the coefficient of friction, for example,  $t_1/t_2=t_2/t_3=.....=T$ , then by building up the system of equations together previously given by the expression  $F_n/F_{n+1}=\varphi$  in the following form

$$\left\{ \begin{array}{l} \frac{t_1}{t_2} = \frac{t_2}{t_3} = T \\ \frac{F_n}{F_{n+1}} = \frac{t_1+t_2+t_3}{t_4+t_5+t_6} = \varphi \end{array} \right\},$$

everybody can define its value. In the result after solving this system of equations the value of T determined  $T=\sqrt[3]{\varphi}=\sqrt[3]{1,618}=1,1739$ . Then from the matrix (2) with 4 elements in line we will form a matrix with 12 elements in the string according to 12-hour dial

$$\left( \begin{array}{cccccccccccc} t_{11} & t_{12} & t_{13} & t_{14} & t_{15} & t_{16} & t_{17} & t_{18} & t_{19} & t_{110} & t_{111} & t_{112} \\ t_{21} & t_{22} & t_{23} & t_{24} & t_{21} & t_{22} & t_{23} & t_{24} & t_{21} & t_{22} & t_{23} & t_{24} \\ t_{31} & t_{32} & t_{33} & t_{34} & t_{31} & t_{32} & t_{33} & t_{34} & t_{31} & t_{32} & t_{33} & t_{34} \end{array} \right),$$

which after some calculations using the values of T allows one to determine the dates of each hour in the history of Russia and appears in the following form:

$$\left( \begin{array}{cccccccccccc} 988 & 1140 & 1270 & 1380 & 1479 & 1547 & 1613 & 1670 & 1720 & 1762 & 1800 & 1833 \\ 1862 & 1883 & 1901 & 1917 & 1931 & 1943 & 1953 & 1960 & 1967 & 1972 & 1977 & 1981 \\ 1985 & 1988 & 1991 & 1993 & 1995 & 1996,6 & 1998 & 1999 & 2000 & 2001 & 2001,8 & 2002,4 \end{array} \right)$$

A full description of the calculated dates of this matrix, analysis and research still requires additional studies. But now we can see that each of them is significant for the history of Russia and regardless of the deviations of the clock of history are clear, without stagnation and hesitation.

### 3. Features historical events for the different spiral turns of GS

To understand the commonality of historical processes for different turns for converging spiral GS we define the ratio of durations greater turn  $Q_1=F_1+F_2+F_3+F_4$  to smaller  $Q_2=F_5+F_6+F_7+F_8$ :

$$N = \frac{Q_1}{Q_2} = \frac{F_1+F_2+F_3+F_4}{F_5+F_6+F_7+F_8}$$

And with the Golden proportion  $\frac{F_n}{F_{n+1}} = \varphi$  compiled the equation

$$\left\{ \begin{array}{l} \frac{F_1+F_2+F_3+F_4}{F_5+F_6+F_7+F_8} = N \\ \frac{F_n}{F_{n+1}} = \varphi \end{array} \right\},$$

the solution of which is the value  $N=\varphi^4=6,85$ .

Everybody can see, new regulaties (or laws), that manifests itself another pattern of Russian history, which namely that to branches of the spiral GS converging to a zero point Z, the transition from the outer to the inner branches (from the previous to the subsequent) is compacted and lead to the acceleration of historical events of 6.85 times. In the same number of times it lead to slowing the historical events for divergent branches of the GS after zero point Z.

#### **4. Implementation of the program of Russian history**

So, according to spiral GS in Fig.8 and Table 2 it is possible to talk about a certain historical schedules, over (by God) a given program , determine the structure of Russian history in the period beginning from the Christening of Rus (988) and up to 2003, which simplistically can be illustrated by the following examples.

##### **4.1 Radical reform**

Christening Rus in 988 by Prince Vladimir in Kiev, was the fateful event that made Russia a Christian country. And it can surely be called a religious reform that went beyond the taboo of the old religion, now called paganism, and greatly changed the Outlook and lifestyle of the people.

After a round of history, which was about 874, crisis socio-political situation in the Russian Empire as a result of defeat in the Crimean war, as a legacy of Emperor Nicholas I, makes by him the son of Emperor Alexander II in 1862 fundamental reform of the state. They began with the slogan "*glasnost*" , lasted almost 20 years and only killing the Emperor in 1881 was stopped the progress with the planned transition to a constitutional monarchy. Even the reforms of Peter I, not been so radical, broad and deep, covering a vast territory of the Russian Empire and all sectors of society.

Exactly the stage of history, lasting for 123 years, the newly elected General Secretary of the CPSU Central Committee Mikhail Gorbachev started reforms Soviet Union with the announcement of the policy of "*glasnost*" and "*Perestroika*". These reforms went beyond the old former hard-line Communist taboo until to fault of the sixth article of the Constitution about the leading and guiding role of the party.

As can be seen, the ratio  $874/123=7.1$  and only 4% larger than the estimated values of N.

## 4.2 The Revolutionary birth of the new state

Russian research Gumilev L.N. [12,13] was shown that the youth of Genghis Khan in the end of XI century there was the so-called "People of Long Will" - people "...specific behavioral attitude, differing from their ancestors, and most of the tribesmen greater energy, enterprise, ability to sacrifice, in short - passionate energy. All of them were infected with this spirit, those who accidentally joined them. And those behaved the same way, seeing obedience to the Khan the Supreme goal of his life. Not arbitrarily Khan they obeyed, and the law, which is subordinate to the Khan himself. Called this the law of the YASA". Later, in 1206, at the Kurultai, Genghis Khan elected Supreme ruler, the "people of long will" YASA was adopted the basic law, as we would say today – by the Constitution. That is, after she repeatedly updated and supplemented.

*So, we can assume that Russia has a historical right to consider Genghis Khan as its own son (albeit cruel) for the following reasons:*

- he was born only 8 km North of the current border of Russia with Mongolia;*
- was elected Khan in the mouth of the river Onon, which is nowadays close to the border of Russia with Mongolia;*
- a significant portion of the Mongol Empire in the initial stage was located near lake Baikal, i.e. on the territory of Russia;*
- The Golden Horde was covering in practice all the Slavic Duchy of Russia, was the most powerful part of the Mongol Empire, which, in turn, can be considered the prototype of the Soviet Union in exactly 1 round of GS appearance on the political arena of Lenin V.I., the Bolshevik's leader, the new "People of Long Will";*
- the name of the Mongol – originated according to the traditional derivation of the base word, "Meng". Author's version did not contradict tradition and is the name of the basic words are: "man/man + ga + ol", which literally translates as "man+go+ol" with the meaning "nomad God" or "man in the ways of God."*

After the victory in the Kulikovo's battle of, 8 September 1380, which is one day revolutionary changed the course of history, and almost a century of civil war has crystallized the basis of the ideology focused on a strong single independent state. This period ended with a triumphant standing in 1480 on the Ugra headed by Ivan III the Great against the Great Horde Khan Akhmat and the independence from the Tatar-Mongols, shared the history of Russia in the "before" and "after". Continue with the consolidation of Muscovy

gradually became the Russian Empire and later under Peter I, the Russian Empire, expanding geographically, including land, included in the Mongol Empire.

After first turn of the Russian history, which was similar 700 years (Fig.8), at the end of the XIX century in the Russian begin to appear many active and passionate peoples with the revolutionary activities similar new wave of the "People of Long Will". They was avantgarde which gradually became RSDP(b) with a charismatic leader in the person of Lenin's Revolutionary movement gradually increases and General political situation is such that in one night of 25 October 1917, is the seizure of power and the revolutionary birth of the new Soviet state division of Russian history into "before" and "after". Further, as the cycle of history back, is also repeated during the civil war and the new state in the Union is fixed on the world political map.

After next turn of Russian history, in the early 90-th of XX century in the Soviet Union with political leader Gorbachev M.S., in the broad layers re-appear an active and passionate "People of Long Will", who are aware of an alternative to the official socio-political perspective, is made the democratic platform in the CPSU, and then the broader democratic movement headed by a charismatic leader in the person of Yeltsin The growing conflict between this movement and conservatives leads to the attempted takeover of the latter occurring with the people's protest and in one night August 22, 1991 happens winning finding the highest authority of Democrats headed by Yeltsin B.N. and the revolutionary birth of the new post-Soviet States in the form of a democratic Russian Federation.

Thus, by three historical examples: the battle of Kulikovo (8 September 1380), the October revolution in the night from 25 to 26 October 1917 and the August revolution (putsch) on August 22, 1991 corresponding to the phase of  $90^\circ$ , or 3 hours on the clock of Russian history, we can see the advent of the "Revolutionary birth of a new nation".

Despite the great external differences between these three events, their leaders, the General direction and implications it should be noted internally similarity - strict one and the same time according to internal clock of Russian history events occur that fundamentally changes the former to the new ideology, allowing a revolutionary new born state. The duration of the two turns of the history of Russia, beginning with Moscow state, is  $1917-1380=537$  years, and the Soviet state –  $1991-1917=74$ . Their relationship  $537/74=7,25$ , which is only 6% different from the previously calculated theoretically the values of N for

different turns of history - of 6.85. Now It's possible to judge how closely the events occur on the historical clock of Russia.

### **4.3 Non-Radical reforms**

During about 1000 years fateful era of "Non-radical reform" occurred three times. First time its occurrence in 1613 was due to the termination of the Rurik dynasty, the turmoil and the beginning of the reign of the new dynasty of the Romanovs, who ruled for just over 300 years until 1917, exactly three cycles of the GS (!!!).

Second time at the next turn of the Russia history after 340 years of this era began with the death of Stalin I.V. in 1953 and changing the course of development of the country within the Communist ideology with the coming to power of Khrushchev N.S. Everybody can see the numerous similarities between Stalin I.V. and Ivan IV Terrible was shown by the creative genius of Sergei Eisenstein film "Ivan the terrible". This similarity is not accidental and can be easily explained with the help of a spiral GS, which points to the common history of these eras and rulers.

For the third time this era came in 1998 with the arrival of new Cabinet of Ministers headed by Primakov E.M. and the new economic course after the default (1998). This course was forced to Russian President Yeltsin because attempts to "second coming" of Chernomyrdin V.S. as Prime Minister with a return to the old with no success and probably in this lies the effect of hard determinism, the fatality of history of Russia regardless of someone's desire. The ratio of the durations of the turns of history  $340/45=7,55$  and differs from 6.85 about 10%.

### **4.4 Peaceful development of the state**

In the first round of GS era of the Empress Catherine II on the Russian throne, probably, take up a central place in the so-called period of the "woman kingdom" in the XVIII century. And general result of this quiet period can be considered a significant strengthening of Russia and accession of the Northern black sea, Crimea, the Kuban, as well as strengthening its political positions in the Caucasus and the Balkans, the strengthening of Russia's prestige on the world stage.

After the turn of the history spiral GS with a duration of 210 years, in the era of developed socialism with the General Secretary of the CPSU Central Committee

Brezhnev L.I. to 1972 had achieved a maximum growth rate of economic development by the economic reforms of Kosygin A.N. However, then there was a scheduled departure from them, which led to the first decline in growth, and then in the early 80-ies of XX century and a pronounced stagnation.

After next turn of the spiral GS by 2001, during the era of the second President of the Russian Federation Putin V.V. as a result of "equidistant" from the highest authorities of the different members of financial groups has been achieved the political balance among the elites with the rapid development of Russia's transformation from, basically initiated by the government of Primakov E.M. after the default of 1998.

Further consideration is limited to the reporting period of 2003, which begins the period of the zero point Z. So, as you can see, the ratio of the durations of turns of the history for this era  $210/29=7,24$  differs from 6.85 only  $\approx 6\%$ .

**Table 3 Schedule of the political processes on the time or phase of Russian history**

| The scale of Russian history |                  | Historical epoch                      | Stages historical epochs   |
|------------------------------|------------------|---------------------------------------|--|
| Time, «Hour»                 | Phase of history |                                       |  |
| 0                            | 0°               | 1. The radical reform                 | 1.1 The beginning of radical reforms going beyond the limits of previous taboos  |
| 1                            | 30°              |                                       | 1.2 Conservative phase and the beginning of the birth of a new ideology  |
| 2                            | 60°              |                                       | 1.3 Occurrence and "set of forces" of the group, which represents a new ideology   |
| 3                            | 90°              | 2. Revolutionary birth of a new state | 2.1 State coming to power of a group of avant-garde with a new ideology, the beginning of the Civil War, the disintegration of the former state and the emergence of a new ideology on the principles of |
| 4                            | 120°             |                                       | 2.2 Creation foundations of the state on the principles of a new ideology  |
| 5                            | 150°             |                                       | 2.3 The war  |
| 6                            | 180°             | 3. Non-radical reform                 | 3.1 The beginning of a new course of development of the state with a new team without departing from the old taboos  |
| 7                            | 210°             |                                       | 3.2 Period "intrigue and palace coups"   |
| 8                            | 240°             |                                       | 3.3 Home quiet development   |
| 9                            | 270°             | 4. Quiet development of the state     | 4.1 Achieving high growth rates  |
| 10                           | 300°             |                                       | 4.2 Home stagnation in development of the state and the fall in growth   |
| 11                           | 330°             |                                       | 4.3 Maximum stagnation, failure of improvement and achieving outstanding limit, the wrong decision, and the original problem   |

## Conclusion

1. All the key events of Russian history, beginning with the Christening of Rus (988) and up to 2003 are systemic in nature, sequence and frequency that occur with periods of GS series (Fibonacci series) with a clear mathematical relationships associated with the Golden ratio  $\varphi=1,618$ . They (the cycles of the Golden Section) to describe the most profound historical processes in Russia, regardless of socio-economic structure since the Russian's Slavic states through the period of the Mongol Empire-the Golden Horde, Moscow state, the Russian Empire in the tsarist autocracy and then through the Soviet period to the present post-Soviet government.

2. Graphically, the sequence of epochs in the Russia history can be depicted as a spiral function with a consistent set of three main areas:

- from 988 until 2003 - three turns of a spiral GS converging to the focus, zero point Z,
- from 2003 to 2007 – period "Okolonolya" (near point Zero) by focus, zero point Z of the history of Russia, attributable to  $\approx 2005$ ,
- from 2007 to divergent spiral GS from focus, zero point Z.

3. Like the time dial, each complete turn of the spiral GS when divided by twelve divisions, will consist of the so-called historic 12 hours, the ratio between which are in the following proportion:  $T=\sqrt[3]{\varphi}=\sqrt[3]{1,618}=1,1739$ . In other words, the duration of each subsequent hour will be  $\approx 1,17$  times shorter than the previous one.

4. Three turns of Russia's history have a common structure with the cycle of eras and rulers, consisting of 5 historical epochs. Four of them are repeated in accordance with historical phases (angles of rotation in a clockwise direction in each cycle) with the following conventional names:

- at 0 h (a zero phase of history -  $0^\circ$ ) - a radical reform
- at 3 h (the phase of -  $90^\circ$ ) - the revolutionary birth of the new state,
- at 6 h (opposite phase of history -  $180^\circ$ ) - non-radical reforms
- at 9 h (the phase of -  $270^\circ$ ) - peaceful development of the state,
- one exclusive - "Okolonolya" (near point Zero) - for the historic period + 2 years near the focus of the history of Russia in the zero point Z in 2005, i.e. from 2003 to 2007.

5. The advent of the "time window" for the accomplishment of key events in the history of Russia in the period from 988 to 2003 not depend on people and have given more than a given, synchronized with the internal clock of Russia.

6. All the key events reflect the different stages of a general genesis of Russian history and therefore are neutral within each historical turn haven't original signs: positive or negative.

7. The Soviet period (1917-1991/93) is a complete closed cycle of Russian history, and its structure (political epochs and leaders) is identical to the overall structure of Russia's history of early turns, provided the history of the creation of the Mongol Empire with the political rise of Genghis Khan (Temujin) is an integral part of Russian history. So this is not to criticize the reforms of Yeltsin B.N. and to protect the era of Stalin I.V. or Vice versa, because these two epochs are integral parts of a general objective historical process, and one inseparable from the other.

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