

*Who controls the past controls the future.
Who controls the present controls the past.*

GEORGE ORWELL

A. T. Fomenko

Chronology 1

Introducing the problem. A criticism of the Scaligerian chronology.
Dating methods as offered by mathematical statistics. Eclipses and zodiacs.

A. T. Fomenko

Chronology 2

The dynastic parallelism method. Rome. Troy. Greece. The Bible. Chronological shifts.

A. T. Fomenko, V. V. Kalashnikov, G. V. Nosovskiy

Chronology 3

Astronomical methods as applied to chronology. Ptolemy's *Almagest*.
Tycho Brahe. Copernicus. The Egyptian zodiacs.

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Chronology 4

Russia. Britain. Byzantium. Rome.

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Chronology 5

Russia = Horde. Ottomans = Atamans. Europe. China. Japan. The Etruscans. Egypt. Scandinavia.

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Chronology 6

The Horde-Ataman Empire. The Bible. The Reformation. America. Passover and the calendar.

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Chronology 7

A reconstruction of global history. The Khans of Novgorod = The Habsburgs. Miscellaneous information.
The legacy of the Great Empire in the history and culture of Eurasia and America.

This seven volume edition is based on a number of our books that came out over the last couple of years and were concerned with the subject in question. All this gigantic body of material was revised and categorized; finally, its current form does not contain any of the repetitions that are inevitable in the publication of separate books. All of this resulted in the inclusion of a great number of additional material in the current edition – including previously unpublished data. The reader shall find a systematic rendition of detailed criticisms of the consensual (Scaligerian) chronology, the descriptions of the methods offered by mathematical statistics and natural sciences that the authors have

discovered and researched, as well as the new hypothetical reconstruction of global history up until the XVIII century. Our previous books on the subject of chronology were created in the period of naissiance and rather turbulent infancy of the new paradigm, full of complications and involved issues, which often resulted in the formulation of multi-optional hypotheses. The present edition pioneers in formulating a consecutive unified concept of the reconstruction of ancient history – one that apparently is supported by a truly immense body of evidence. Nevertheless, it is understandable that its elements may occasionally be in need of revision or elaboration.

History: Fiction or Science?

Fomenko, Anatoly Timofeevich. Born in 1945. Full Member (Academician) of the Russian Academy of Sciences, Full Member of the Russian Academy of Natural Sciences, Full Member of the International Higher Education Academy of Sciences, Doctor of Physics and Mathematics, Professor, Head of the Moscow State University Section of Mathematics of the Department of Mathematics and Mechanics. Solved Plateau's Problem from the theory of minimal spectral surfaces. Author of the theory of invariants and topological classification of integrable Hamiltonian dynamic systems. Laureate of the 1996 National Premium of the Russian Federation (in Mathematics) for a cycle of works on the Hamiltonian dynamical systems and manifolds' invariants theory. Author of 180 scientific publications, 26 monographs and textbooks on mathematics, a specialist in geometry and topology, calculus of variations, symplectic topology, Hamiltonian geometry and mechanics, computer geometry.

Author of a number of books on the development of new empirico-statistical methods and their application to the analysis of historical chronicles as well as the chronology of antiquity and the Middle Ages.

Also by Anatoly T. Fomenko

(List is non-exhaustive)

Integrability and Nonintegrability in Geometry and Mechanics

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Present State of the Theory

Taylor & Francis, 1989

Historical Survey (Studies in the Development of Modern Mathematics)

Taylor & Francis, 1989

Minimal Surfaces, Stratified Multivarifolds, and the Plateau Problem

Together with Dao Trong Thi

American Mathematical Society, 1991

Elements of the Geometry and Topology of Minimal Surfaces in Three-Dimensional Space

Together with A. A. Tuzhilin

American Mathematical Society, 1991

Topological Classification of Integrable Systems

American Mathematical Society, 1991

Geometrical and Statistical Methods of Analysis of Star Configurations Dating Ptolemy's Almagest

Together with V. V. Kalashnikov, G. V. Nosovskiy

CRC Press, 1993

*Empirico-Statistical Analysis of Narrative Material and Its Applications to Historical Dating:
The Analysis of Ancient and Medieval Records*

Kluwer Academic Publishers, 1994

Antiquity in the Middle Ages: Greek and Bible History

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Algorithmic and Computer Methods for Three-Manifolds

Together with S. V. Matveev

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Variational Principles of Topology: Multidimensional Minimal Surface Theory

Kluwer Academic Publishers, 1997

Topological Modeling for Visualization

Springer Verlag, 1998

Tensor and Vector Analysis: Geometry, Mechanics and Physics

Taylor & Francis, 1998

New Methods of Statistical Analysis of Historical Texts: Applications to Chronology

Edwin Mellen Press, 1999

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History: Fiction or Science?

C H R O N O L O G Y

1

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passages by way of criticism and review.

Contents

<i>Overview of the seven volumes</i>	<i>ii</i>
<i>About the Author</i>	<i>iii</i>
<i>Also by Analoly T. Fomenko</i>	<i>iv</i>
<i>A Global Falsification of History. Foreword by Alexander Zinoviev</i>	<i>xv</i>
<i>Foreword by A. Shiryayev</i>	<i>xviii</i>
<i>Publisher’s Note</i>	<i>xx</i>
<i>Preface by A. T. Fomenko</i>	<i>xxi</i>
<i>History of the New Chronology. By A. T. Fomenko and G. V. Nosovskiy</i>	<i>xxix</i>
<i>Publisher’s Advice</i>	<i>xxxviii</i>

Chapter 1

The problems of historical chronology

1. Roman chronology as the foundation of European chronology	1
2. Scaliger, Petavius, and other clerical chronologers. The creation of contemporary chronology of the ancient times in the XVI-XVII century A.D.	1
3. The veracity of the Scaliger-Petavius chronology was questioned as early as the XVI century ..	10
3.1. Who criticized Scaliger’s chronology and where	10
3.1.1. De Arcilla, Robert Baldauf, Jean Hardouin, Edwin Johnson, Wilhelm Kammeyer	10
3.1.2. Sir Isaac Newton	11
3.1.3. Nikolai Alexandrovich Morozov	13
3.1.4. Recent publications of German scientists containing criticisms of Scaliger’s chronology.....	18
3.2. The questionable veracity of the Roman chronology and history. The hypercritical school of the XIX century.....	19
4. The problems in establishing a correct chronology of “ancient” Egypt.....	23
5. The problem in dating the “ancient” sources.Tacitus and Poggio. Cicero and Barzizza. Vitruvius and Alberti	25
6. Timekeeping in the Middle Ages. Historians discuss the “chaos reigning in the mediaeval datings.” Peculiar mediaeval anachronisms	31
7. The chronology and the dating of Biblical texts.....	32

8. Difficulties and contradictions arising from the reading of old texts.....	34
8.1. How does one read a text written in consonants exclusively?.....	
The vocalization problem.....	34
8.2. The sounds “R” and “L” were often confused in the Middle Ages.....	35
9. Problems in the Scaligerian geography of Biblical events.....	37
9.1. Archaeology and the Old Testament.....	37
9.2. Archaeology and the New Testament.....	40
10. Ancient historical events: geographic localization issues.....	42
10.1. The locations of Troy and Babylon.....	42
10.2. The geography of Herodotus is at odds with the Scaligerian version.....	44
10.3. The inverted maps of the Middle Ages.....	49
11. A modern analysis of Biblical geography.....	49
12. The mysterious Renaissance epoch as a product of the Scaligerian chronology.....	53
13. The foundations of archaeological methods have been based on the Scaligerian chronology from the very beginning.....	59
13.1. The ambiguity of archaeological datings and their dependence on the existing chronology.....	59
13.2. The excavations of Pompeii. The dating of this town’s destruction.....	61
13.3. The alleged acceleration of the destruction of the “ancient” monuments.....	65
13.4. When did the construction of the Cologne Cathedral really begin?.....	65
13.5. Archaeological methods are most often based on Scaliger’s datings.....	68
13.6. One of the numerous problems of the Scaligerian history – the problem of bronze manufacture before the discovery of tin.....	70
14. The problems and deficiencies of dendrochronology and several other dating methods.....	71
14.1. The consequent scale of dendrochronological datings does not extend further back in time than the X century A.D.	71
14.2. Sedimentary layer datings. The methods of radium-uranium and radium-actinium analysis.....	73
15. Are radiocarbon datings to be trusted?.....	74
15.1. The radiocarbon datings of ancient, mediaeval, and modern specimens are scattered chaotically.....	74
15.1.1. Libby’s initial idea. The first failures.....	74
15.1.2. A criticism of the application of the radiocarbon method to historical specimens.....	75
15.2. The dating of the Shroud of Turin.....	77
15.3. Modern radiocarbon analysis of Egyptian artefacts demonstrates serious contradictions.....	80
16. Critical analysis of the hypotheses on which the radiocarbon method is based. <i>By A. S. Mishchenko</i>	80
16.1. W. F. Libby’s initial idea.....	80
16.2. Physical basics of the radiocarbon method.....	81
16.3. The hypotheses that the radiocarbon method is based upon.....	83
16.4. The moment of the object’s departure from the exchange reservoir.....	83
16.5. Radiocarbon content variations in the exchange reservoir.....	84
16.6. Variations in radiocarbon content of living bodies.....	87
17. Summary.....	87
18. Numismatic dating.....	90

Chapter 2 **Astronomical datings**

1. The strange leap of parameter D'' in the Theory of Lunar Motion.....	93
2. Are the “ancient” and mediaeval eclipses dated correctly?	95
2.1. Some astronomical data.....	95
2.2. The discovery of an interesting effect: an unprejudiced astronomical dating shifts the dates of the “ancient” eclipses to the Middle Ages.....	96
2.3. Three eclipses described by the “ancient” Thucydides	97
2.4. The eclipses described by the “ancient” Titus Livy	105
3. Transferring the dates of the “ancient” eclipses forward in time into the Middle Ages eliminates the enigmatic behaviour of the parameter D''	105
4. Astronomy moves the “ancient” horoscopes into the Middle Ages	106
4.1. The mediaeval astronomy	106
4.2. The method of unprejudiced astronomical dating.....	109
4.3. Many “ancient astronomical observations” may have been theoretically calculated by late mediaeval astronomers and then included into the “ancient” chronicles as “real observations”	110
4.4. Which astronomical “observations of the ancients” could have been a result of late mediaeval theoretic calculations?	111
5. A brief account of several examples of Egyptian Zodiacs.....	112
5.1. Some general observations.....	112
5.2. The Dendera Zodiacs.....	113
5.3. The horoscopes of Brugsch and Flinders Petrie.....	124
5.4. Finite datings of the Egyptian Zodiacs based on their complete deciphering, as obtained by A. T. Fomenko and G. V. Nosovskiy in 2001	127
5.5. On the errors of E. S. Goloubtsova and Y. A. Zavenyagin	128
6. Astronomy in the New Testament.....	133

Chapter 3 **The new dating of the astronomical horoscope as described in the Apocalypse**

By A. T. Fomenko and G. V. Nosovskiy

1. The proposed research method.....	134
2. General information about the Apocalypse and the time of its creation.....	135
3. Ursa Major and the throne.....	139
4. The events took place on the Isle of Patmos.....	141
5. The constellations of Cassiopeia and the throne were drawn as Christ sitting on his throne in the Middle Ages.....	141
6. The Milky Way.....	142
7. Twenty-four sidereal hours and the constellation of the Northern Crown.....	146
8. Leo, Taurus, Sagittarius, Pegasus.....	146
9. The daily rotation of the Northern Crown.....	148
10. Equine planetary images in mediaeval astronomy.....	148
11. Jupiter is in Sagittarius.....	150
12. Mars is beneath Perseus in either Gemini or Taurus	152
13. Mercury is in Libra.....	155
14. Saturn is in Scorpio	157
15. The Sun is in Virgo with the Moon underneath the feet of the latter.....	157

16. Venus is in Leo	157
17. The astronomical dating of the Apocalypse by the horoscope it contains.....	157
18. Our reconstruction of the initial content of the Apocalypse.....	161

Chapter 4 Astronomy in the Old Testament

1. Mediaeval astronomy in the Old Testament Book of Ezekiel.....	167
1.1. The title of the book.....	167
1.2. The description of the Milky Way and the Ophiuchus constellation.....	168
1.3. The Biblical description of the astronomical sectors, or “wings,” on the celestial sphere	169
1.4. The constellations of Leo, Taurus and Aquila.....	169
1.5. The Biblical description of the mediaeval “wheels,” or planetary orbits.....	170
1.6. Parallels with the astronomical symbolism of the Apocalypse.....	174
1.7. Biblical cherubim, chariots, and mediaeval planetary orbital wheels.....	175
1.8. The Biblical description of mediaeval cosmology as a celestial temple.....	176
2. The Biblical prophecy of Zechariah and the date of its creation.....	177
3. The Biblical prophecy of Jeremiah and the date of its creation.....	181
4. The Biblical prophecy of Isaiah and the date of its creation.....	183
5. The Biblical prophecy of Daniel and the date of its creation.....	183

Chapter 5 The methods of dating the ancient events offered by mathematical statistics

1. The local maxima method.....	187
1.1. The historical text volume function.....	187
1.2. The maxima correlation principle.....	188
1.3. Statistical model.....	190
1.4. Experimental test of the maxima correlation principle. Examples of dependent and independent historical texts	194
1.5. Method of dating the historical events.....	198
2. Volume functions of historical texts and the amplitude correlation principle By <i>A. T. Fomenko and S. T. Rachev</i>	201
2.1. Dependent and independent chronicles. Volume function maxima correlation.....	201
2.2. Rich and poor chronicles and chronicle zones.....	202
2.3. Significant and insignificant zeroes of volume functions.....	203
2.4. The information respect principle.....	203
2.5. The amplitude correlation principle of volume graphs in the poor zones of chronicles.....	204
2.6. Description of statistical model and formalization.....	204
2.7. The hypothesis about the increase of the “form” parameter of a chronicle in the course of time.....	205
2.8. The list and characteristics of the Russian chronicles we investigated.....	205
2.9. The final table of the numeric experiment.....	206
2.10. Interesting consequences of the numeric experiment. The confirmation of the statistical model.....	207
2.11. Comparison of a priori dependent Russian chronicles.....	207

2.12. Comparison of a priori independent Russian chronicles.....	208
2.13. Growth of form parameter in the course of time for the Russian chronicles after the XIII century.....	209
2.14. Growth of the average form parameter over the course of time for groups of Russian chronicles of the XIII-XVI century.....	209
2.15. Growth of the average parameter of form over the course of time for the groups of Russian chronicles of the alleged IX-XIII century.....	210
2.16. Chronological shift by 300 or 400 years in Russian history.....	210
2.17. Conclusions.....	211
3. The maxima correlation principle on the material of the sources pertinent to the epoch of Strife in the History of Russia (1584-1619) <i>By A. T. Fomenko, N. S. Kellin and L. E. Morozova</i>	211
4. The method for the recognition and dating of the dynasties of rulers. The small dynastic distortions principle.....	215
4.1. The formulation of the small dynastic distortions principle.....	215
4.2. The statistical model.....	217
4.3. Refinement of the model and the computation experiment.....	221
4.4. Result of the experiment: coefficient $c(a, b)$ positively distinguishes between the dependent and independent dynasties of kings.....	222
4.5. The method of dating the royal dynasties and the method detecting the phantom dynastic duplicates.....	222
5. The frequency damping principle. The method of ordering of historical texts in time.....	223
6. Application of the method to some concrete historical texts.....	225
7. Method of dating of the events.....	226
8. The frequencies duplication principle. The duplicate detection method.....	227
9. Statistical analysis of the Bible.....	228
9.1. Partition of the Bible into 218 “generation chapters”.....	228
9.2. Detection of the previously known duplicates in the Bible with the aid of the frequency dumping principle.....	229
9.3. New, previously unknown duplicates we discovered in the Bible. General scheme of their distribution within the Bible.....	232
9.4. A representative example: the new statistical dating of the Apocalypse, which moves from the New Testament into the Old Testament.....	233
10. The method of form-codes. The comparison of two long currents of regal biographies.....	234
11. Correct chronological ordering method and dating of ancient geographical maps.....	238

Chapter 6 The construction of a global chronological map and the results of applying mathematical procedures of dating to the Scaligerian version of the ancient history

1. Textbook of ancient and mediaeval history in the consensual Scaliger-Petavius datings.....	256
2. Mysterious duplicate chronicles inside the “Scaliger-Petavius textbook”.....	256
3. Mysterious duplicate regal dynasties inside the “textbook by Scaliger-Petavius”.....	263
4. Brief tables of some astonishing dynastic parallelisms.....	294

5. Conformity of results obtained by different methods.....	318
5.1. General assertion.....	318
5.2. The agreement of the different methods on the example of the identification of the Biblical Judaic reign with the Holy Roman Empire of allegedly X-XIII century A.D.	318
6. The general layout of duplicates in “the textbook by Scaliger-Petavius”. The discovery of the three basic chronological shifts.....	320
7. The Scaligerian textbook of the ancient history glued together four duplicates of the short original chronicle.....	321
8. The list of phantom “ancient” events which are phantom duplicates, orreflections of the mediaeval originals.....	323
9. Identification of the “ancient” Biblical history with the mediaeval European history.....	328
10. Our hypothesis: history as described in surviving chronicles only begins in ca. the X century A.D. We know nothing of the events that took place before the X century A.D.	333
11. Authentic history only begins in XVII century A.D. The history of the XI-XVI century is largely distorted. Many dates of the XI-XVI century require correction.....	334
12. The radical distinction of our chronological concept from the version of N. A. Morozov.....	334
13. The hypothesis about the cause of the fallacious chronological shifts in the creation of the history of antiquity.....	336
13.1. Chronological shift of a thousand years as the consequence of the fallacious dating of Jesus Christ’s life.....	336
13.2. The letter “X” formerly denoted the name of Christ, but was later proclaimed to stand for the figure of ten. The letter “I” formerly denoted the name of Jesus, but was later proclaimed to be the indication of one thousand.....	336
13.3. Until the XVIII century, the Latin letters “I” or “J” – i.e. the first letters of the name of Jesus – were still used in several European regions to denote “one” in recording of dates.....	343
13.4. How the chronological shift by 330 or 360 years could have occurred.....	351
13.5. What latin letters “M”, “D”, “C” in Roman dates meant originally, in the Middle Ages.....	351
13.5.1. General idea.....	351
13.5.2. Example: the date on the tomb of Empress Gisela.....	352
13.5.3. Another example: the date on the headstone of Emperor Rudolf Habsburg.....	352
13.5.4. Recording of mediaeval dates was not unified everywhere even in the XVIII century.....	354
13.5.5. Some datings of printed books and manuscripts dating from the XV-XVII century will apparently have to be moved forwards in time by at least fifty more years.....	355
13.6. The foundation date of Rome of Italy.....	356
13.7. A later confusion of foundation dates of the two Romes, on the Bosporus and in Italy.....	356

13.8. Scaliger and the Council of Trent. Creation of the Scaligerian
 chronology of antiquity in the XVI-XVII century..... 358

13.9. Two phantom “ancient” reflections of Dionysius Petavius,
 a mediaeval chronologist of the XVII century..... 359

14. A stratified structure of the Scaligerian textbook of ancient history..... 360

15. The coordination of a new astronomical dating with a dynastic parallel..... 365

16. A strange lapse in the Scaligerian chronology near “the beginning
 of the new era” 367

Chapter 7 “Dark Ages” in mediaeval history

1. The mysterious Renaissance of the “Classical Age” in mediaeval Rome..... 373

 1.1. The lugubrious “Dark Ages” in Europe that presumably succeeded
 the beautiful “Classical Age” 373

 1.2. Parallels between “antiquity” and the Middle Ages that are known
 to historians, but misinterpreted by them 375

 1.3. Mediaeval Roman legislators convene in the presumably destroyed
 “ancient” Capitol..... 377

 1.4. The real date when the famous “ancient” statue of Marcus Aurelius
 was manufactured 379

 1.5. Could the “ancient” Emperor Vitellius have posed for the mediaeval
 artist Tintoretto?..... 381

 1.6. The amount of time required for the manufacture of one sheet
 of parchment..... 383

 1.7. The “ancient” Roman Emperor Augustus had been Christian, since
 he wore a mediaeval crown with a Christian cross..... 383

2. The “ancient” historian Tacitus and the well-known Renaissance writer
 Poggio Bracciolini..... 386

3. The mediaeval Western European Christian cult and the “ancient” pagan
 Bacchic celebrations..... 394

4. Petrarch (= Plutarch?) and the “Renaissance of antiquity” 410

 4.1. How Petrarch created the legend of the glory of Italian Rome out of nothing 410

 4.2. Petrarch’s private correspondence with people considered
 “ancient characters” nowadays..... 413

5. “Ancient” Greece and mediaeval Greece of the XIII-XVI century..... 415

 5.1. The history of the mediaeval Athens is supposed to be obscured by darkness
 up until the XVI century..... 415

 5.2. Greece and the Crusades 422

 5.3. The history of Greek and Athenian archaeology is relatively short..... 425

 5.4. The tendentious distortion of the image of mediaeval Athens in
 the “restoration works” of the XIX-XX century 427

6. Strange parallels in the Scaligerian history of religions..... 436

 6.1. Mediaeval Christianity and its reflection in the Scaligerian
 “pagan antiquity” 436

 6.2. Mediaeval Christianity and “ancient” Mithraism 441

 6.3. References to Jesus Christ contained in “ancient” Egyptian artefacts..... 444

 6.4. Researchers of the ancient religions commenting on the strange similarities
 between the cults of “antiquity” and those of the Middle Ages..... 453

6.5. Moses, Aaron and their sister Virgin Mary on the pages of the Koran.....	458
6.6. The XI century as the apparent epoch of St. Mark's lifetime. The history of St. Mark's Cathedral in Venice	459
7. The "ancient" Egypt and the Middle Ages.....	462
7.1. The odd graph of demotic text datings	462
7.2. The enigmatic "revival periods" in the history of "ancient" Egypt.....	463
7.3. The ancient Hittites and the mediaeval Goths.....	465
8. Problems inherent in the Scaligerian chronology of India.....	465
9. Was the artificial elongation of ancient history deliberate?.....	467

Annexes

2.1. (TO CHAPTER 2) Grammatical analysis of an eclipse description in <i>History</i> by Thucydides. By Y. V. Alexeyeva.....	471
5.1. (TO CHAPTER 5) Per annum volume distribution in some Russian chronicles.....	474
5.2. (TO CHAPTER 5) Frequency matrix of names and parallels in the Bible By V. P. Fomenko and T. G. Fomenko.....	480
6.1. (TO CHAPTER 6) Per annum volume distribution in <i>The History of the City of Rome in the Middle Ages</i> by F. Gregorovius.....	492
6.2. (TO CHAPTER 6) Per annum volume distribution in <i>The Roman History from the Foundation of the City</i> by Titus Livy.....	497
6.3. (TO CHAPTER 6) Per annum volume distribution in the book by Baronius describing mediaeval Rome.....	504
6.4. (TO CHAPTER 6) The "double entry" of the Biblical royal reigns of Israel and Judah	511
6.5. (TO CHAPTER 6) Armenian history. Emperors of the Holy Roman Empire of the alleged X-XIII century A.D., a.k.a. the Kings of Judah, a.k.a. the mediaeval Armenian Catholicoses.....	517
1. Three phantom reflections of the same mediaeval dynasty.....	517
2. The parallelism between the mediaeval Armenian history and the phantom Roman Empire according to Scaliger.....	522
6.6. (TO CHAPTER 6) The identification of the "ancient" Kingdom of Judah with the Holy Roman Empire of the alleged X-XIII century A.D. The correlation between reign durations and biographical volumes.....	532
The complete bibliography to the seven volumes	536

A Global Falsification of History

Foreword by Alexander Zinoviev

I familiarized myself with the works of A. T. Fomenko comparatively recently, and they impressed me greatly. What part of them struck me as the most stunning? First and foremost, it was the intellectual capacity observable behind them. The authors reveal a way of cogitating that manages to fuse austere logic with dialectic flexibility; this is truly a rare occurrence in the field of social studies. Reading the *œuvres* of A. T. Fomenko and his co-author G. V. Nosovskiy – occasionally several times over – was a veritable intellectual delight for yours truly. They flabbergasted me with their sheer disquisitive might as well as the research results which, in my opinion, can by rights be called the greatest discovery in contemporary historical science – what A. T. Fomenko and his colleagues had learnt over the course of their research was the fact that the entire history of humanity up until the XVII century is a *forgery of global proportions* (“old history” in their terminology) – a falsification as *deliberate* as it is *universal*. I shall be referring to this falsification as the first one. My sociological research of the great evolutionary breakpoint demonstrated that a new, blatant, global and premeditated falsification was already in full swing. Prior to becoming familiar with the writings of Fomenko, I had already known that the falsification of the past was a rather common phenomenon inherent in human existence. However, I was neither aware of the scale of this fraud as described by Fomenko and his fellow scholars, nor of its social type. My assumption had been that the blatant

falsification of history *on a planetary scale* that I discovered was the first one in what concerned the proportions and the ulterior motivation, as well as its historical role. Let us call it the second falsification of the same variety. It differs from the first in terms of pertaining to a different epoch. Its main subject is modern history and whatever historical period can be claimed as relevant to, and seen as fitting for, the purposes of this falsification. The second falsification also differs from the first one in its primary means and methods, which shall be described below.

One has to differentiate between the two kinds of falsification, the first one being the involuntary routine falsification of minor details that results from the mechanisms of gnosis and those of the actual description of historical events, or the entropy inherent in the framework of humanity’s historical memory. The second is the extraordinary, premeditated and complex falsification that has distinct social causes.

Let us consider the former kind first. We shall disregard the period preceding the epoch of literacy and symbolic systems. The mnemonic means available back then were less than meagre, which automatically diminished the arsenal of the hypothetical falsifiers. We shall turn to the era of literacy instead. It is common knowledge that historical events become immanetized in human language – and a statement uttered is a lie, as the old saying goes. We cannot fathom the unfathomable. What we end up doing is raking the vastness of history for tiny morsels of in-

formation and adding some of our own narrative in order to produce wholesome and coherent textual material.

The modern information technology does not affect the principles that the status quo relies upon. Let us introduce the concept of historical “atoms”, or particles that aren’t subject to further division. One may well calculate that the verbal description of a single year of real history the way it really happened, including all manner of events, no matter how minute, would require the processing power of all the computers on the planet, with all people made computer operators. De facto, this technology serves as a powerful instrument of historical falsification. It allows for the possibility of *drowning a scientific approach to historical events in an ocean of meaningless facts*.

Furthermore, the description of actual historical events is done by humans, and not perfect divine entities. People are brought up and educated in a certain way and have a certain social standing, as well as egotistical goals and aims of their very own. All of this affects the way the information is processed. Over the course of time, the overwhelming majority of events are wiped away into oblivion without leaving the merest trace. They are frequently not even realized as events. The people’s attitude to the past begins to alter as past events gradually drift into an altogether different observational and interpretational context.

Evolutionary process discerns between two kinds of events – preliminal and superliminal. The former kind does not affect the general character of evolution; the latter one does. However, humans, including specialists, fail to recognize the difference between the two. Everyone knows perfectly well how much attention is poured over rather insignificant individuals, such as kings and presidents, whereas *the really important events often don’t even get so much as a passing reference*. This affects the relations between historical events so much that all sense of measure is often lost. Even if we are to suppose that all those who partake in the creation of historical records see veracity as their mission, the result of their collective efforts is often the rendition of their own subjective views on history as opposed to what happened in reality. As centuries pass by, the stream of disinformation is fed by various sources and tributaries, which, in their multitude, produce the effect

of impartial falsification of historical events. This stream also feeds on murky rivulets of countless liars and swindlers.

The false model of history serves its function for a certain while. However, humanity eventually enters a period when this distorted representation loses efficacy and stops serving its ends. This is where people are supposed to start searching for explanations and set out on their quest for a “truth”. However, there is the abstract scientific kind of truth, and the actual historical variety – that is to say, something that people regard, or will at some point start regarding as truth. The very word “truth” is confusing here. We shall be on safer ground if we are to consider the adequacy of having certain concepts of the past for the new needs that have manifested as a result of the historical process. These concepts stop being valid for satisfying these needs. One becomes aware of the necessity to update our view of the past in accordance with whatever the present stipulates. This awareness is the kind of craving that can only be satisfied by a “bona fide rectification” of history, which has to occur as a grandiose paradigm shift – moreover, it has to be a *large-scale organized operation*; one that shall result in an epochal falsification of the *entire history of humankind*. The issue at hand is by no means the falsification of individual observations of historical events, but rather the revision of the entirety of historical records describing the events which cannot be observed as a principle since they belong to the past. What we are talking about is not a mere change in the perception and interpretation of the same old existential phenomena – it is the adaptation of the character, which naturally used to refer to certain commonplace realities at some point, to the exigencies of people who have to live in an altogether different environment. Trained specialists are a sine qua non for this – people whose activity shall have to be organized in such a manner that their collective output will result in the creation of a coordinated historical Gestalt. What they really have to do is create exactly the kind of past that is needed for the present, making use of whatever available material presents itself.

The first global falsification of history as discovered and brilliantly related by Fomenko was based on an erroneous temporal and spatial coordinate system of chronological events (the chronological sys-

tem and the localizations of events wedded thereto). The more recent and ongoing second global falsification of history is based on a system of erroneous pseudoscientific sociological concepts stemming from ideology and aided greatly by the modern information manipulation technology. This is why I call the second falsification conceptual and informational, or merely “conceptual” for brevity’s sake. Fomenko’s works describe the technology of building a false model of human history which uses the art of manipulating the temporal and spatial coordinates of events. Many thousands of specialists in false historical models are already working on this second falsification – their forte is the ability to misrepresent historical events while giving correct temporal and spatial coordinates and representing individual facts veraciously and in full detail. The actual falsification is achieved via the selection of facts, their combination and interpretation, as well as the context of ideological conceptions, propagandist texts that they are immersed into, etc. In order to describe the technology behind the second falsification with any degree of clarity at all, exhaustively and convincingly, one needs a well-developed scientific system of logistics and methodology, as well as sociological theory. I call such a system *logical sociology*; however, it is a thing of the future, which means that the second falsification of history shall continue in its present manner, with as much ease and impunity as the first. Tens and hundreds of years hence, a number of solitary researchers shall “excavate” the so-called “modern history” in very much the same manner as Fomenko (and his predecessors, including N. A. Morozov) have treated “old history”.

I would like to conclude with an observation concerning the exceptional scientific scrupulousness of the works of A. Fomenko and G. Nosovskiy. I have examined them from exactly this position many a time, and I have neither found a single ipse dixit statement,

nor any categorical pontificating of any kind. The general narrative scheme they employ is as follows: the authors relate the consensual (*school textbook*) historical concepts and then cite historical facts which either fail to concur to said concepts, or *contradict them explicitly*. Other authors who have noticed these inconsistencies are quoted. Then Fomenko and Nosovskiy put forth hypotheses which allow to find logically correct solutions for the problems under study. They keep on emphasizing and reiterating that the issue at hand is all about hypotheses and not categorical statements presented as the truth absolute. The readers are invited to take part in the solution of problems that arise as a consequence of the consensual chronological concept of history. I am amazed by the horrendous injustice of the numerous critics of Fomenko and Nosovskiy, who obviously distort their ideas, either failing to understand them completely or being altogether unfamiliar with their content. It is also quite astounding that whenever a publication occurs that voices ideas that bear semblance to those of Fomenko and Nosovskiy, but are a lot more *tame* and local, providing a lot less factual information, this publication is usually accepted with a great deal more benevolence. I understand the psychological groundwork beneath this – Fomenko and Nosovskiy have performed a *great scientific feat of epochal significance*, one that affects the sentiments and interests of too many people. Acknowledging this feat as such, or at the very least the mere fact of its creative relevance, obligates one to actions that are apparently beyond these people due to their incapability and immaturity. The trouble with Fomenko and Nosovskiy is that they have reached out too far and dealt the dominating historical discourse too heavy a blow.

Alexander Zinoviev.
10 October 1999,
19 April 2001.

Alexander Zinoviev, Professor of the Moscow State University, logician, sociologist, writer, member of the Finnish, Bavarian and Italian Academy of Sciences, the Russian Academy of Polite Letters and several others. Laureate of the 1982 Alexis Tocqueville prize for sociology and the “Best Sociology Essay of 1979” prize, as well as a large number of European and international prizes for literature. Honorary citizen of several French and Italian towns and cities. The works of A. A. Zinoviev are published in more than 20 languages and considered international bestsellers. He reads lectures on sociology in many European and American universities.

Foreword by A. Shiryaev (1990)

to the first edition of A. T. Fomenko's *Methods of statistical analysis of narrative texts and their applications to chronology*, 1990.

Based on research materials of 1973-1988

The methods of applied statistics affect a wide range of scientific paradigms today, including the research of a great variety of texts. We use the word "text" to refer to sequences of diverse signals here, such as the lengthy codes one finds in genetics, graphical representations of this kind or the other that can be encoded and represented in a textual form, as well as actual narrative texts, such as historical chronicles, original sources, documents etc.

One of the key objectives we encounter here is learning to identify dependent texts, by which we mean texts possessing some degree of affinity between them – similarities in their nature or history, for instance. We may regard the recognition problem as an example, where one is confronted with the task of finding the visual representation that bears the greatest resemblance to the given prototype. The subject of long signal sequence research emphasizes the ability to find uniform subsequences and their joining points. All of the above bears equal relevance to solving the classical change-point problem, for instance, which is of vital importance to mathematical statistics and the statistics of stochastic processes.

In application to narrative text studies and their needs, the problem of differentiating between dependent and independent texts (such as chronicles) can be formulated as that of tracing out the texts that hail back to a common original source (the ones that can logically be referred to as "dependent"), or those

of non-correlating origins (the ones we can logically refer to as "independent"). It is well understood that problems of this kind are exceptionally complex, and thus new empirico-statistical identification methods deserve full recognition for their ability to complement classical approaches to actual research (in source studies, for instance).

The present book by A. T. Fomenko, Professor of Pure Mathematics, is primarily oriented at the development of said methods as applied to identifying and dating dependent and independent texts (in relation to the texts that possess veritable datings a priori).

The author of the book suggests a new approach to the recognition of dependent and independent narrative (historical) texts based on a number of models he had constructed and trends discovered with the aid of empirico-statistical methods and as a result of extensive statistical experimentation with varying quantitative characteristics of actual texts such as chronicles, original sources etc. The verification of these models (statistical hypotheses) by consistent chronicle material confirmed their efficacy and allowed us to suggest new methods of dating texts, or, rather, the events they describe.

The approach suggested by A. T. Fomenko is rather unorthodox and requires the reader to possess a certain degree of attentiveness and diligence in order to become accustomed with his innovative logical constructions which may be perceived as uncanny; how-

ever, one has to note that the author's principal ideas are perfectly rational from the point of view of contemporary mathematical statistics and fit into the cognitive paradigm of experts in applied statistics with the utmost ease.

The scientific results obtained by the author are most remarkable indeed, and what we witness today can already be referred to as the rather sudden evolution of a whole new scientific division in applied statistics that is definitely of interest to us. All of the results in question were deduced from a tremendous body of work performed by the author with the assistance of his fellow academicians, most of them specializing in mathematical statistics and its applications.

Seeing as how the book relates to problems that concern several scientific disciplines, one is confronted with the necessity of finding points of contact between experts working in different areas. A wide number of terms and definitions common for scholars of one discipline may need to be explicitly translated for scientists of a different specialization and orientation. This is to be borne in mind by the representatives of both natural sciences and humanities among the readers of this book. However, said miscommunications are common and are easily overcome by any mixed collective of scientists collaborating on solving a particular problem. One may hope that the potential readers may prove this very collective that will carry on with the research commenced by an eminent professional mathematician.

In addition to the development of new empirico-statistical methods as applied to dating events, the present book contains a number of applications to the problem of validating the chronology of historical

events. One has to differ clearly here between the primary statistical result achieved by the book, namely, defining the layer structure of the global chronological map and its representation as a "sum" of four layers, and the plethora of available interpretations. Interpreting the results and building hypotheses is well beyond the scope of precise mathematical knowledge, so the author urges us to be extremely careful with the conclusions relating to a potential revision of the "static chronology of ancient history". The author repeatedly insists on the necessity of critical analysis and separating verified facts from their interpretations and various hypotheses.

The concept offered by A. T. Fomenko is novel and somewhat startling, and by all means deserves a meticulous study.

The book is written in conformance to the most demanding scientific standards and is an unprecedented phenomenon in the area of international scientific literature on applied mathematical statistics, so no reader shall be left indifferent. It also offers us a glimpse of the rather charming personality of its author, a mathematician and a history scholar.

One hopes that the reader studies the book in its entirety with undiminished attention after the perusal of the first couple of pages and, at the very least, becomes familiar with a fascinating scientific problem, or maybe even joins the research in this new and promising field of science.

*A. N. Shiryaev,
President of the International Bernoulli
Society for Mathematical Statistics and
Probability Theory in 1989-1991.*

Publisher's Note

History: Fiction or Science? is the most explosive treatise on history ever written – however, every theory it contains, no matter how unorthodox, is backed by solid scientific data.

The book is well-illustrated, contains over 500 graphs, copies of ancient manuscripts, and countless facts attesting to the falsity of the chronology used nowadays, which never cease to amaze the reader.

Eminent mathematician proves that:

Jesus Christ was born in 1053 A.D. and crucified in 1086 A.D.

The Old Testament refers to mediaeval events.

Apocalypse was written after 1486.

Does this sound uncanny? This version of events is substantiated by hard facts and logic – validated by new astronomical research and statistical analysis of ancient sources – to a greater extent than everything you may have read and heard about history before.

The dominating historical discourse in its current state was essentially crafted in the XVI century from a rather contradictory jumble of sources such as innumerable *copies* of ancient Latin and Greek manuscripts whose originals had *vanished* in the Dark Ages and the allegedly *irrefutable* proof offered by late mediaeval astronomers, resting upon the power of ecclesial authorities. Nearly all of its components are blatantly untrue!

For some of us, it shall possibly be quite disturbing to see the magnificent edifice of classical history to turn into an ominous simulacrum brooding over the snake pit of mediaeval politics. Twice so, in fact: the first seeing the legendary millenarian dust on the ancient marble turn into a mere layer of dirt – one that meticulous unprejudiced research can eventually remove. The second, and greater, attack of unease comes with the awareness of just how many areas of human knowledge still trust the three elephants of the consensual chronology to support them. Nothing can remedy that except for an individual chronological revolution happening in the minds of a large enough number of people.

Preface by Anatoly T. Fomenko

The materials contained in this book correspond to the research that was started in 1973.

One might wonder why we should want to revise the chronology of ancient history today and base our revision on new empirico-statistical methods. It would be worthwhile to remind the reader that *in the XVI-XVII century chronology was considered to be a subdivision of mathematics*, prior to having gradually transformed into a field of historical studies considered complete in general, and only requiring minor eventual clarifications leaving the actual edifice of chronology intact. And yet we discover that the contemporary official version of the chronology of ancient history is full of prodigious contradictions and inconsistencies which deserve an attempt of partial clarification and rectification based on the methods of modern statistics at the very least.

One often hears the question about what could possibly motivate a mathematician into wanting to study a seemingly historical problem. The answer is as follows. My primary interests are those of a professional mathematician; they are thus rather distant from historical and chronological issues. However, in the early 70's, namely, in 1972-1973, I had to deal with the dates of ancient eclipses during my studies of one of the key problems in celestial mechanics (see CHRON1, Chapter 2 for more details). It had to do with computing the so-called coefficient D'' in the Theory of Lunar Motion. The parameter characterizes acceleration and is computed as a time function

on a large historical interval. The computations were performed by Robert Newton, a contemporary American astronomer and astrophysicist. Upon their completion, he had made the unexpected discovery of parameter D'' behaving in the most peculiar manner, namely, performing an inexplicable leap on the interval of VIII-X century A.D. This leap cannot be explained by conventional gravitational theory, and is improbable to the extent of making Robert Newton invent mysterious "extra-gravitational forces" in the Earth-Moon system that suspiciously refuse to manifest in any other way.

This inexplicable effect attracted the professional interest of the mathematician in me. The verification of R. Newton's work showed that his computations conformed to the highest scientific standards and contained no errors. This made the gap in the diagram even more enigmatic. A prolonged pondering of this topic led me to the idea of checking the exactitude of *datings* of the ancient eclipses that the D'' parameter computations were based upon since they implicitly affected the result. This idea turned out to have been unprecedented for the scientists that had dealt with the problem previously. Robert Newton himself, an eminent expert in the field of astronavigation and theoretical dynamics of natural and artificial celestial bodies, trusted the ancient historical dates completely and attempted to explain the leap in the behaviour of parameter D'' from within his professional paradigm. That is to say, without the mer-

est hint of the very idea of questioning ancient chronology. I was more fortunate in that respect: I found out that N. A. Morozov, a renowned Russian scientist and encyclopedist, had analyzed the datings of ancient eclipses and claimed most of them to be in need of revision. This happened as early as the beginning of the XX century. He offered new datings for a large number of eclipses that were considerably more recent. Having obtained his tables, I have repeated Newton's calculations using Morozov's dates in lieu of the consensual ones as input data. I was amazed to discover that the D'' graph altered instantly and drastically, having transformed into a rather even horizontal line that concurred with the conventional gravitational theory perfectly. The enigmatic leap disappeared along with the necessity to invent fictitious "extra-gravitational forces".

The satisfaction from having finished a body of scientific work successfully was accompanied by a sudden awareness of a very knotty point arising in this respect, one of great peculiarity and paramount importance. Namely, that of whether the consensual chronology of ancient history was to be trusted at all.

It was true that the new datings of many ancient eclipses offered by N. A. Morozov led to the equalization of the D'' function diagram, the elimination of a strange contradiction from celestial mechanics, and to the discovery of the conformance of an important parameter in the theory of lunar motion to perfectly normal patterns of behaviour.

It was equally true, however, that fitting something like the idea that the three ancient eclipses described in the *History* of the prominent ancient author Thucydides took place in the XI or even the XII century A.D. and not in the V B.C. as it is believed today into one's perception proved quite impossible. The issue here is that the dating of the "triad of Thucydides" can only correspond to these two astronomically precise solutions (see *CHRON1*, Chapter 2). The inevitable question that arose in this respect was that of which discipline had been correct in this case, astronomy or contemporary chronology.

I had to address several distinguished historians with this quandary, including the ones from our very own Moscow State University. Their initial reaction was that of polite restraint. According to them, there was no point whatsoever in questioning the consen-

sual chronology of ancient history since all the dates in question can easily be verified by any textbook on the subject and have been proved veracious a long time ago. The fact that the diagram of some parameter D'' started to look natural after revised calculations based on some flimsy new chronology was hardly of any relevance. Moreover, it would perhaps be better for the mathematicians to occupy themselves with mathematics and leave history to historians. The same sentiment was expressed to me by L. N. Gumilyov. I refrained from arguing with him.

The reply offered by the historians failed to satisfy me. Firstly due to the fact that chronology, being a problem of calculating dates, bears immediate relevance to applied mathematics. This includes astronomical calculations, the verification of their precision, calendarian problems, the interpretation of old writings based on their frequency characteristics etc, and may present an extensive number of complex issues. Secondly, becoming familiar with the contemporary chronological tables soon proved that the ancient dates were quoted rather arbitrarily, with hardly any references at all given. At best, the first chronological tables get a quote – however, those were compiled *relatively recently*, in the XVI-XVII century. Delving deeper into the problem showed me that the version of chronology that we agree upon today wasn't the only one available historically. I found out that eminent scientists in various countries expressed the idea that ancient datings required a radical revision. I realized that the answer was the furthest thing from simple, and that shedding some light on the issue would require plenty of time and effort. This is how 1973 saw me commencing work in this direction, aided by colleagues – most of them professional mathematicians and physicists.

The research progressed rapidly. Over the years that passed since 1973 many points have been clarified and a great volume of interesting information obtained. A lot of it was published by myself and my colleagues in a number of books and scientific articles quoted in the literature list. The first related publication saw light in 1980. It has to be noted that over the course of time our opinions on certain chronological problems have changed. Said alterations never concerned the general picture, but occasionally led to significant shifts in our perception of details. Today

we feel that the empirico-statistical methods that our chronological research was based upon need to be formulated and coordinated again. This is how the books CHRON1 and CHRON2 came to existence.

CHRON1 is based on the first book I wrote on the subject – *Methods of Statistical Analysis of Narrative Texts and their Application to Chronology (Identifying and Dating Dependent Texts, The Statistical Chronology of Ancient History, The Statistics of Ancient Reports of Astronomical Events)*. It was published by the Moscow State University in 1990; a further revised and extended edition appeared in 1996 under the title *Methods of Mathematical Analysis of Historical Texts and their Applications to Chronology* (Moscow, Nauka Publishing, 1996). The present book contains the entire material in a revised, extended, and coordinated form. CHRON2 contains an extended version of two of my books: *Global Chronology* (Moscow, MSU, 1993) and *The New Chronology of Greece: The Mediaeval Age of Classics* (Moscow, MSU, 1996).

Certain important results that get briefly mentioned in CHRON1 and CHRON2 were achieved with the aid of outstanding scientists – Professor V. V. Kalashnikov, Doctor of Physical and Mathematical Sciences (Moscow State University and the National Research Institute for System Studies, Moscow, Russia), and the Senior Scientific Associate G. V. Nosovskiy, Candidate of Physical and Mathematical Sciences (the Department of Mathematics and Mechanics, Moscow State University) – experts in fields of probability theory studies and mathematical statistics. The formation of the author’s concept of chronology is largely a result of having collaborated with V. V. Kalashnikov and G. V. Nosovskiy for many years, and I would like to express my heartfelt gratitude to both of them.

I would like to state explicitly that over the period of time from 1981 and until presently our collaboration with G. V. Nosovskiy has been constant and very fruitful, as the two of us have published a number of what we consider to be milestones of the new chronology. The formulation of the main principles of reconstructing modern chronology and mediaeval history is a direct result of the work we have done together over these years, which adds particular importance to this period.

Let us briefly describe the structure of CHRON1 and CHRON2. The consensual versions of chronol-

ogy, as well as those of ancient and mediaeval history, had evolved completely by XVII century AD and appear to contain major flaws. Many prominent scientists have been aware of this and have discussed it for quite a while (see CHRON1, Chapter 1). However, the creation of a new concept of history that would be free from inconsistencies proved a truly formidable task.

A group of mathematicians, most of them from the Moscow State University, commenced research on the problem in 1974. The results were most captivating, and got covered in a number of monographs (see bibliography) and several dozens of publications in scientific periodicals. Let us emphasize that the new concept of chronology is based primarily on *applying methods of modern statistics* to the analysis of historical sources and *extensive cybernetic computations*.

The main subject of the books CHRON1 and CHRON2 is the research of new *empirico-statistical methods* of finding dependencies in historical texts and derived procedures of *dating* historical events.

The task of *recognizing the difference between dependent and independent texts* is really that of *identifying images*. One encounters it in various scientific paradigms including applied statistics, linguistics, physics, genetics, historical source studies etc. Finding *dependent* texts is of great utility as applied to studying historical sources where they may be traced to a *common original* that had been lost before our time. It is also very useful to be able to tell which texts are *independent*, or derived from non-correlating sources.

The very concept of *text* can be interpreted in a wide variety of ways. Any sequence of symbols, signals, and codes can be referred to as “text” – the sequences of genetic code in DNA chains, for instance. The common problem of finding *dependent texts* is formulated as follows: one has to find “similar fragments” in long signal sequences – that is, fragments of text that duplicate one another.

There is a multitude of methods for recognition of dependencies and identifying “similar images” available today. We offer some new empirico-statistical methods. They might be of use in analyzing historical chronicles, manuscripts, and archive materials as well as in finding the so-called homologous fragments in texts of a significantly different, more general nature.

This book is divided into several parts or topics for the reader’s convenience. This should help us to se-

curely differentiate between proven statistical facts and hypotheses. At the same time, one has to state that such topical division is rather artificial since the topics really have lots and lots of points in common.

THE FIRST TOPIC

Solving the problem of statistical recognition of dependent and independent historical texts. Formulating new statistical models and hypotheses, as well as verifying them with extensive experimental material of actual historical chronicles. It turns out we're able to acquire general verifications of the models offered. In other words, we have managed to discover interesting statistical tendencies that define the evolution of textual information over a period of time, such as what really happens to the data contained in the manuscripts during their duplication etc.

Having discovered these tendencies is our first result.

The discovered trends are used as basis for the formulation of new methods of dating the events described in the chronicles. This is achieved by statistical comparison of the chronicles and documents pertinent to the research with the ones possessing confirmed datings. The methods are verified by a large body of correctly dated materials. Their application to the chronicles and documents describing the events of the XVII-XX century appears to confirm the efficacy of these methods. Namely, the statistical datings that we got as a result of our research concur with the ones confirmed by traditional methods. The *a priori dependent* chronicle pairs turn out to be *dependent statistically* with the use of our methods. The ones that are *independent a priori* turn out to be *independent statistically* as well.

Experimental examination of veraciously dated chronicles describing the events of XVII-XX century A.D. led to the discovery of natural numeral coefficients that allow us to differentiate between *a priori dependent chronicles* and *a priori independent ones* in 1974-1979. Basically, these numbers are rather small for *a priori dependent* pairs and rather large for *a priori independent* ones. This means that nowadays we can compare arbitrary chronicles *X* and *Y* and find out whether their proximity coefficients are within the zone that refers to dependent chronicles or the one that refers to independent ones. It is needless to say that the boundaries of these zones were found experimentally.

The discovery of the hidden dependencies that define the evolution of information in rather large historical chronicles as well as the development and experimental verification of the new dating methods (currently comprising a total of eight) – is the *second principal result of our work*. The datings achieved by our methods cannot be regarded as finite, so we shall refer to them as “statistical datings” and nothing more. We shall occasionally drop the word “statistical” for the sake of brevity. The above is to say that we regard the empirico-statistical dates that we computed to be a result of applying statistical methods to historical materials. Nevertheless, the concurrence of these statistical datings with the ones verified *a priori* that we have discovered in the interval of XVII-XX century A.D. implies that our results are of an objective nature.

THE SECOND TOPIC

It can also be referred to as *critical*. We analyze the traditional datings of events that occurred in ancient and mediaeval Europe, Asia, the Mediterranean countries, Egypt, and America. Bearing the reader's convenience in mind, we have collected various materials here that can be found scattered across all kinds of scientific literature and are known to specialists of various profiles, but *often remain beyond the awareness of the general public*. These materials illustrate serious difficulties that are presently inherent to the problem of scientific dating of historical events preceding the XIV century A.D.

We shall inform the reader of the fundamental research conducted by a prominent Russian scientist and encyclopedist Nikolai Aleksandrovich Morozov (1854-1946), honorary member of the USSR Academy of Sciences, who was the first to have formulated the problem of confirming the ancient and mediaeval chronology with the means offered by natural sciences in its entirety in addition to having collected a great volume of critical materials and suggested a number of innovative hypotheses.

We shall also tell of the chronological research conducted by Sir Isaac Newton, who questioned many datings of historical events, and several other representatives of the critical current in history and chronology. We quote from eminent authorities in the fields of archeology, source studies, and numismatics, and a variety of other well-known scientists, and exten-

sively compare different points of view so that the readers could develop their own opinions of the problems in question.

The primary application of novel empirico-statistical methods is the analysis of dates of historical occurrences. This is why we were forced to analyze as many *dating versions* of events in question as we could find in this day and age. The issue here is that various ancient and mediaeval chronicles frequently demonstrate *significant discrepancies* in dating certain important events. Attempting to navigate in this chaos of mediaeval versions, we devote special attention to those reflected in the chronicles of XV-XVI century A.D. due to the fact that the chronologists of that epoch were temporally closer to the events described than we are. Subsequent chronological versions of XVII-XX century are often revisions of *derivative* material, obscuring and heavily distorting the original mediaeval meaning.

Starting with XVI-XVII century A.D., the version of the chronology of ancient history that was created in the works of prominent mediaeval chronologists J. Scaliger and D. Petavius «rigidifies». The main points of the official version of contemporary chronology coincide with those of Scaliger and Petavius. Hence we are to use the term “Scaligerian chronology” and refer to the consensual datings of ancient events as “Scaligerian datings”.

We presume the reader to be more or less familiar with the traditional – Scaligerian *de facto* – chronology concepts familiar from school and university. We shall thus refrain from quoting the Scaligerian concept in detail, considering this knowledge to be in public domain. On the contrary, we shall be making a special emphasis on its inconsistencies. Further on, we shall give a brief analysis of traditional dating methods: datings based on historical sources, archaeological datings, radiocarbon datings, dendrochronology etc. It is expedient for allowing the reader evaluate the veracity and the precision of these methods as well as their application areas.

THE THIRD TOPIC

In 1975-1979 the author compiled a table that received the name of a “*Global Chronological Map*”, which may be referred to as GCM for the sake of brevity. It may be regarded as a rather complete

“Scaligerian textbook” of ancient and mediaeval history. All the principal events of ancient history with their dates according to Scaliger (the ones used today), lists of main historical characters etc were placed along the horizontal axis of time. All the key original sources that survived and contained descriptions of contemporary life were quoted for each epoch. The resulting chronological map contains tens of thousands of names and dates. The physical space it covers amounts to several dozens of square metres. This map proved a priceless encyclopedia and guide for the edifice of contemporary – Scaligerian *de facto* – ancient and mediaeval chronology. Due to the large volume of the material, it made its way into CHRON1 and CHRON2 with many expurgations, as small tables and diagrams.

THE FOURTH TOPIC

In 1974-1979, the entire arsenal of the new empirico-statistical dating methods was applied to the factual material collected on the map of the Scaligerian chronology. This was done by inspecting all manner of pairs of historical epochs and the key original sources pertinent to them. These chronicles were processed statistically and then compared in pairs, and eventually the dependence coefficients of compared historical texts were computed.

If such coefficients for the two compared chronicles *X* and *Y* proved to belong to *the same* numeric order as those of the *a priori dependent* chronicles from the “certainty interval” of XVII-XX century A.D., we called them *statistically dependent*. In this case, both correlating epochs (temporal periods) were marked on the map with *the same* arbitrarily chosen symbol such as the letter *R*.

If the proximity coefficient (or measure) of the two compared chronicles *X* and *Y* proved to belong to *the same* numeric order as those of the *a priori independent* chronicles from the “certainty interval” of XVII-XX century A.D., we called them *statistically independent*. In this case, both correlating epochs (temporal periods) were marked on the map with *different* arbitrarily chosen symbols such as the letters *N* and *S*.

As a result of statistical research, pairs of statistically dependent chronicles and epochs pertinent to them were found and marked in the “Scaligerian history textbook”. We called such chronicles and arrays of events they described *statistical duplicates*.

We discovered that the results of using different empirico-statistical methods correlate very well. Namely, the chronicle pairs “statistically similar” according to one method turned out to be “statistically similar” according to all the others (if such methods are at all applicable to the chronicles in question). This result correlation is perceived as important.

It is vital that our empirico-statistical methods have found no unforeseen duplicates, or chronicles whose dependent nature we weren’t aware of *a priori*, on the interval of XVII-XX century A.D.

At the same time, the same methods found a large number of new statistically similar chronicles (duplicates) that were previously considered underived, independent in all senses of the word and ascribed by contemporary historians to various epochs before the XVII century A.D., preceding the XI century in particular. The compilation of the Scaligerian chronological map and the discovery of statistical duplicates therein amount to the third principal result of this book.

The fourth principal result is the division of the Scaligerian chronological map into the sum of four chronicle layers discovered by the author. These chronicle layers are nearly identical, but they are shifted in time in relation to each other. These shifts amount to significant amounts of time and their correspondent chronicle layers may be regarded as “short chronicles” of sorts. *A very rough description of “The Contemporary Scaligerian Textbook of Ancient and Mediaeval History” would be calling it a sum, or a collage, of four copies of the same short chronicle, statistically speaking.*

A criticism of the Scaligerian chronology and the description of the four statistical results mentioned above comprise the main part of the present book. Its other parts are of a hypothetical and interpretational nature. They aid the formulation of a possible answer to the naturally occurring question about the meaning of all the discovered empirico-statistical facts, and what the history was “really like”.

THE FIFTH TOPIC

This topic can be called interpretational. This is where we offer the hypotheses that may explain the trends we have discovered and the reasons why the “Scaligerian textbook of history” might contain duplicates. Neither this material, nor the “textbook of truncated history” that we offer are to be considered

finite in any way. They may only be regarded as offering a possible version that requires a great body of work to be conducted by experts of various profiles, and maybe even special research facilities.

The author’s position on a significant number of points raised in CHRON1 and CHRON2 has formed as a result of interaction, collective research, and extensive discussions with specialists from a wide variety of fields, most notably, the field of mathematics and fellow mathematicians. Specifically, the new statistical models and the results we have achieved have all been presented and discussed over the span of the past twenty-plus years:

- the Fourth and the Fifth International Probability Theory and Mathematical Statistics Conferences in Vilnius, Lithuania, 1981 and 1985;

- the First International Bernoulli Society for Mathematical Statistics and Probability Theory Congress in Tashkent, Uzbekistan, 1986;

- the Multi-dimensional Statistical Analysis and Probabilistic Modelling of Real-Time Processes seminar by Prof. S.A. Aivazyán at the Central Institute of Economics and Mathematics of the USSR Academy of Sciences;

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- Controllable Processes and Martingales seminars by Prof. A. N. Shiryaev (V. A. Steklov Mathematics Institute of the Russian Academy of Sciences) and Prof. N. V. Krylov (Department of Mathematics and Mechanics, Moscow State University);

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The book is dedicated to the memory of Nikolai Aleksandrovich Morozov, brilliant scientist, encyclopedist, and author of the most profound œuvres on chemistry, physics, mathematics, astronomy, and history. He was the first to have fully formulated the problem of finding scientific basis for ancient and mediaeval chronology using natural sciences, and obtaining fundamental results in this direction.

The author would like to express the wish for this seven-volume edition to provide an impetus for the development of new empirico-statistical methods of studying historical texts so that the problems of ancient chronology can be solved in their entirety.

*A. T. Fomenko,
March 2002*

History of the New Chronology

By *A. T. Fomenko* and *G. V. Nosovskiy*

The history of the new chronology and its development can be divided into three periods, albeit arbitrarily.

THE FIRST STAGE – the XVI-XX century, when various researchers periodically discovered major inconsistencies in the edifice of the Scaligerian chronology. We shall quote the names of some familiar scientists that dissented with the chronology of Scaliger-Petavius and reckoned that the real ancient and mediaeval chronology differed significantly.

De Arcilla – the XVI century, Professor of the Salamanca University, see **CHRON1**, Chapter 1. The information on his chronological research is of a rather volatile nature, and it was only by accident that N. A. Morozov managed to learn of it. It is known merely that De Arcilla claimed “ancient” history to have been forged in the Middle Ages. However, we regrettably failed to have found any of his works. The Salamanca University could not give us any information about them, either.

Sir Isaac Newton (1643-1727) – the great English scientist, physicist, and mathematician devoted a large part of his life to chronology and published a large volume entitled *The Chronology of Ancient Kingdoms Amended. To which is Prefix'd, A Short Chronicle from the First Memory of Things in Europe, to the Conquest of Persia by Alexander the Great*. See [1298]; more details in **CHRON1**, Chapter 1.

Jean Hardouin (1646-1729) – eminent French sci-

entist and author of a large number of works on philology, theology, history, archaeology, and numismatics. He was also Director of the French Royal Library, and wrote a few chronological works with sharp criticisms of the entire edifice of the Scaligerian chronology. He was of the opinion that most of the so-called “ancient artefacts” were either counterfeit, or belonged to a much more recent age. See details in **CHRON7**, Appendix 3.

Peter Nikiforovich Krekshin (1684-1763) – the personal secretary of Peter the Great wrote a book criticizing the contemporary version of Roman history. It was “still fresh” in his day and age, and wasn’t taken for granted the way it is today. See details in **CHRON4**, Chapter 14:30.

Robert Baldauf – the German philologist of the late XIX – early XX century. Assistant professor at the Basel University and author of the four volumes entitled *History and Criticisms* ([1025:1]). He came to the conclusion that the “ancient” literary works were a lot more recent than one was accustomed to think, guided by philological considerations. Baldauf proved that those works were all mediaeval in their origins. See details in **CHRON7**, Appendix 3.

Edwin Johnson (1842-1901) – English historian of the XIX century, criticized the Scaligerian chronology severely in his works ([1214] and [1215]), claiming that they needed to be truncated drastically. See details in **CHRON1**, Chapter 1.

Nikolai Alexandrovich Morozov (1854-1946) – a prominent Russian scientist and encyclopedist, made a breakthrough in chronological studies. He criticized the Scaligerian version of chronology and history extensively. He offered the concepts of several new natural scientific methods of analyzing chronology and introduced scientific approaches to chronology making the latter a science de facto. See details in *CHRON1*, Chapter 1.

Wilhelm Kammeyer (late XIX century – 1959) – a German scientist and lawyer, developed a method of verifying the authenticity of ancient documents. He discovered nearly all of the ancient and early mediaeval Western European documents to have been either copied or forged in a more recent age. He came to the conclusion that both ancient and mediaeval history were falsified, and wrote several books on the topic.

Immanuel Velikovsky (1895-1979) – a prominent psychoanalyst of Russian origin lived and worked in Russia, the UK, Palestine, Germany, and the USA. He wrote a number of books on ancient history that concerned several contradictions and peculiarities of ancient history. He also made an attempt of explaining them in relation to the Catastrophism Theory. He is considered to be the founder of the “critical school” in chronology, but what he really did was try to protect the Scaligerian chronology from drastic changes, so his inclusion in the list of the founding fathers of the new chronology is rather arbitrary. We reckon that the fact of Velikovsky’s works are much better known than the earlier and more detailed ones by N. A. Morozov, inhibited the development of the new chronology in the Western Europe of the XX century considerably. See details in *CHRON7*, Appendix 3.

All in all, one has to state that the precariousness of the Scaligerian chronology was mentioned rather explicitly in the scientific works of the XVII-XIX century. The Scaligerian version of history was subject to extended criticisms, and the thesis of the global fabrication of ancient texts and artifacts was formulated. Nevertheless it came to pass that no one with the exception of N. A. Morozov managed to find a way of constructing a proven version of the correct chronology; even his version was hardly based on any substantial evidence, being incomplete and having inherited a number of substantial flaws from the chronology of Scaliger and Petavius.

THE SECOND STAGE – during the first half of the XX century. This stage should doubtlessly be linked to the name of N. A. Morozov. He was the first to have understood and formulated the fundamental idea that the Scaligerian chronology needed a complete revision, not just the “ante-mundane” part, but also its entire edifice up to the VI century A.D. N. A. Morozov had used a number of innovative natural scientific methods for chronological analysis and quoted a number of indisputable arguments for proving his brilliant idea. The publication of his main works on the revision of ancient history occurred in 1907-1932 ([542]-[544]). However, he held the erroneous opinion that post-VI century chronology was basically correct. See details in *CHRON1*, Chapter 1:3.

THE THIRD STAGE – being the period of 1945-1973, can be characterized as one of “deliberate muting”. The historical science tries to cast the chronological research of N. A. Morozov and his predecessors into oblivion. The chronological discussions in Russia cease altogether, and an “alienation zone” of sorts is created around N. A. Morozov’s works on chronology, whereas in the West, the debate becomes circular and doesn’t venture outside I. Velikovsky’s hypothesis of “Catastrophism”.

THE FOURTH STAGE – which was the period of 1973-1980, commenced in 1973, when A. T. Fomenko, faculty member of the Department of Mathematics and Mechanics of the Moscow State University, was researching several problems related to celestial mechanics. He had noticed the 1972 article of the American astrophysicist Robert Newton ([1303]), where the latter described a strange leap in lunar acceleration, and the so-called parameter D'' . The leap occurred around the X century A.D. Using the Scaligerian datings of the writings that make reference to lunar and solar eclipses, R. Newton computed lunar acceleration as a time function on the interval of the I-XX century A.D. The leap in question comprises an entire mathematical order (!), and cannot be explained by the gravitational theory in any way. It was the issue of the discussion organized by the Royal Society of London and the British Academy of Sciences in 1972, and one that had spawned major controversy ([1453]). The discussion failed to elucidate the situation in any way, and so R. Newton suggested at-

tributing the leap to certain mysterious extra-gravitational forces in the Earth-Moon system.

A. T. Fomenko noted that all the attempts of explaining the gap in the behaviour of D'' failed to raise the issue of the veracity of the eclipse datings that were the actual basis for R. Newton's calculations. However, despite the fact that A. T. Fomenko was well outside the paradigm of historical research back in the day, he had heard that N. A. Morozov offered some new datings of the "ancient" eclipses in his work entitled *Christ*, published in 1924-1932. It has to be said that A. T. Fomenko's initial attitude towards N. A. Morozov's works was rather sceptical and based on whatever random information he had received on the subjects during informal discussions with fellow faculty members. Nevertheless, having overcome his scepticism, A. T. Fomenko unearthed an astronomical table by N. A. Morozov that contained the new datings and performed a new calculation of the parameter D'' using the same algorithm offered by R. Newton. He was amazed to have discovered the disappearance of the mysterious leap and the transformation of the D'' diagram into an even, practically horizontal line. A. T. Fomenko's work on the topic was published in 1980 ([883]).

However, the elimination of the enigma from celestial mechanics led to another question of paramount importance: what was one supposed to do with the chronology of the ancient times in this case? The eclipse dates were supposed to be evidentially linked to a vast array of historical materials. Since N. A. Morozov's works helped to solve a complex celestial mechanics problem, A. T. Fomenko decided to study them in more detail. The only professor from the MSU Department of Mathematics and Mechanics to have had Morozov's *Christ*, already a bibliographical curiosity by that time, in his possession, was M. M. Postnikov. He was interested in N. A. Morozov's research and occasionally told his colleagues about it. In 1974, A. T. Fomenko approached M. M. Postnikov with the suggestion of reading a series of introductory lectures on N. A. Morozov's works. M. M. Postnikov had acquiesced after a brief hesitation, and read five lectures for a group of mathematicians that worked in the MSU Department of Mathematics and Mechanics later the same year.

As a result, a group of mathematicians developed

an interest in chronological problems, regarding them from the point of view of applied mathematics. It became obvious that the complexity of this issue demanded the development of new independent methods of dating. Hence the main focus in 1973-1980 was on developing methods of analyzing historical texts that were based on mathematical statistics, a number of which was proposed and formulated by A. T. Fomenko in 1975-1979. They allowed for the elucidation of the global picture of chronological misdatings in Scaliger's version and elimination. More specifically, A. T. Fomenko had discovered three important chronological shifts, of roughly 333 years, 1053, and 1800 years respectively. These shifts are only inherent to the erroneous chronology of Scaliger-Petavius, and have nothing to do with the correct one. It turned out that "the Scaligerian textbook" was compiled from four copies of one and the same brief chronicle.

The first scientific publications on this topic were composed and prepared for publishing in 1973-1980.

THE FIFTH STAGE – 1980-1990 can be characterized by the publication of articles on the new methods of dating and achieved chronological results in specialized periodicals dedicated to pure and applied mathematics. The first publications on the topic were the two articles by A. T. Fomenko ([883] and [884]) published in 1980, as well as the preprint by A. T. Fomenko and M. M. Postnikov ([681]), published the same year. In 1981 a young mathematician by the name of G. V. Nosovskiy, specializing in probability theory and mathematical statistics, actively joined the new chronology research. This period saw the publication of several dozens of scientific articles on independent empirico-statistical and astronomical methods in chronology. They were written by A. T. Fomenko, either alone or in collaboration with the mathematicians G. V. Nosovskiy, V. V. Kalashnikov, S. T. Rachev, V. V. Fyodorov, and N. S. Kellin (see bibliography).

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mathematician that had done the same for two articles by A. T. Fomenko, V. V. Kalashnikov, and G. V. Nosovskiy on the issue of dating Ptolemy's *Almagest*.

A. T. Fomenko made reports concerning the new dating methods at scientific seminars on mathematics conducted by Academician V. S. Vladimirov, Academician A. A. Samarsky, Academician O. A. Oleynik, and Corresponding Member S. V. Yablonsky, as well as a scientific seminar on history conducted by Academician I. D. Kovalchenko, a specialist on applying mathematical methods to history, who was genuinely interested in those methods and claimed that historians needed to delve deeper into chronology issues.

Over the period of 1980–1990, A. T. Fomenko, G. V. Nosovskiy, and V. V. Kalashnikov presented their reports on the new methods of independent dating at a number of scientific conferences on mathematics.

The position of Academician A. N. Kolmogorov in this respect is most interesting. When A. T. Fomenko was presenting a scientific report on the new methods of dating at the Third International Conference on Probability Theory and Mathematical Statistics in Vilnius, 1981, A. N. Kolmogorov came to the presentation and spent the entire forty-plus minutes that it took standing in the back of the hall, having strategically chosen a spot where he wouldn't be seen from the hall, retaining the ability to see and hear everything that was going on at the blackboard. A. N. Kolmogorov departed immediately after the presentation and did not approach the person at the blackboard. It has to be said that A. N. Kolmogorov's health was already quite frail by that time, and having to stand for forty minutes must have taken a considerable effort on his part.

Later on, in Moscow, A. N. Kolmogorov invited A. T. Fomenko over to his residence and inquired whether he could borrow any of his publications on chronology. He was given a brief 100-page essay written by A. T. Fomenko in 1979 that had circulated around as a manuscript prior to its publication as a preprint in 1981 ([888]). Apart from that, A. T. Fomenko had given A. N. Kolmogorov a more exhaustive 500-page typewritten text on the topic. In two weeks' time, A. N. Kolmogorov invited A. T. Fomenko to converse with him once again. During the two-hour discussion it became clear that A. N. Kolmogorov had made a thorough study of the materials. He had asked a large number of questions, and his pri-

mary concern had been about the dynastical parallels between the ancient dynasties, including the biblical ones, and those of the Middle Ages. He said he was frightened by the possibility of a radical reconstruction of a number of modern concepts based on ancient history. He had no objections to the legitimacy of the methods. Finally, A. N. Kolmogorov gave the 500-page text back to A. T. Fomenko and asked whether he could keep the 100-page essay as a present. The request was complied with.

One has to add the following report that A. T. Fomenko received orally from one of the partakers of the conversation that is to be described below. A while ago, Professor M. M. Postnikov had submitted an article with an overview of N. A. Morozov's chronological research in a journal titled *Uspekhi Matematicheskikh Nauk* (*The Successes of Mathematical Sciences*). The following dispute among members of the journal's editing board, among them Academicians P. S. Alexandrov and A. N. Kolmogorov, ensued. A. N. Kolmogorov refused so much as to touch the article, saying something along the lines of "This article is to be rejected. I spent enough time and effort fighting Morozov in the days of yore". However, he had added the following: "And yet we shall all look perfectly idiotic if it turns out that Morozov had been right". The article was rejected.

This conversation sheds some light on the events of the days when N. A. Morozov's research was practically vetoed. Today we are being convinced that everything had happened "automatically" and that N. A. Morozov's research was of little enough interest to have been forgotten by everyone in a short time. We are now beginning to understand that the forces opposing N. A. Morozov were all the more formidable to have needed the participation of A. N. Kolmogorov. It is also noteworthy that A. N. Kolmogorov considered it possible for N. A. Morozov to have been correct.

Apparently, during the time N. A. Morozov's research was cast into oblivion, historians have been constantly bothered by the possibility of someone resuming it. It is hard to find another explanation for the peculiar fact that as early as 1977, when the research conducted by the Moscow State University mathematicians was in its earliest stages and no publications had been issued on the topic, the *Communist*

magazine had published an article by Doctor of Historical Sciences A. Manfred with a severe criticism of “the new mathematical methods” in history. The names of the methods’ authors weren’t mentioned, but the implications were perfectly clear. A. Manfred wrote the following: “If these “young” scientists are given any degree of liberty at all, they will drown the book market in summaries of numeric data. The “new” tendencies need to be overcome as a result of scrupulous critical analysis, since they are holding back the progress of global historical science...” (*Communist*, July 1977, 10th issue, pages 106-114).

In 1981, immediately after our first publications on chronology appeared, the History Department of the USSR Academy of Sciences gathered for a special session on June 29, 1981, that had the criticism of our work as its main objective. The Learned Secretary of the History Department of the USSR Academy of Sciences, Cand. Hist. Sci. V. V. Volkov and the Learned Secretary of the Principal Tendencies of Human Society Development Council of the History Department of the Academy N. D. Loutzkov sent A. T. Fomenko an official note saying, among other things, that: “The Department’s session took place on 29 June, 1981, conducted by the Vice Academician Secretary of the Department, the Academician Y. V. Bromley... Your conclusions were sharply criticized by the specialists of six humanities institutes as well as the staff members of the Sternberg Institute of Astronomy” (8 May 1984).

The most vehement criticisms of the 1981 session belonged to the Corresponding Member of the USSR Academy of Sciences Z. V. Udaltsova, and the chairwoman of the commission, Y. S. Goloubtsova, both of them historians. Y. S. Goloubtsova was in charge of a special commission of historians that had been assembled to analyze our works. The materials of this discussion had provided the basis for a series of articles with harsh criticisms of our research in various historical periodicals.

A similar “discussion” recurred in 1998-1999, as shall be mentioned below.

THE SIXTH STAGE – is the post-1990 period. It can be characterized as “the stage of publishing books on new chronology.” This is when the books that covered our chronological research, as well as those containing derived hypotheses about what pre-XVII century

history really looked like, started to appear. The first book on this topic was A. T. Fomenko’s *Methods of Statistical Analysis of Narrative Texts and their Application to Chronology*, MSU Publishing, 1990. The foreword was written by A. N. Shiryayev, President of the International Bernoulli Society for Mathematical Statistics and Probability Theory in 1989-1991, Corresponding Member of the Russian Academy of Sciences, Doctor of Physics and Mathematics, Head of the Probability Theory Studies Section of the Moscow State University Department of Mathematics and Mechanics, Head of the Probability Theory and Mathematical Statistics Department of the V. A. Steklov Mathematics Institute of the Russian Academy of Sciences.

It has to be mentioned that this book was supposed to have been published much earlier. It was already typeset by the Publishing House of the Saratov University in 1983-1984 and edited by Cand. Hist. Sci. S. A. Poustovoyt (Moscow). However, the publishing house received a sudden missive from the historians of Leningrad, Head of the Universal History Sector, the Leningrad division of the USSR History Institute, Corresponding Member of the USSR Academy of Sciences, V. I. Routenburg, Learned Secretary T. N. Tatsenko, Cand. Hist. Sci., Head of the History of Ancient States Formerly on USSR Territory and the Ancient World Group, I. A. Shishova, Cand. Hist. Sci., Learned Secretary I. V. Kouklina, Cand. Hist. Sci. Among other things, they wrote that our research was “obviously contradicting the founding principles of the Marxist historical science... the Universal History Sector as well as the history of Ancient States Formerly on USSR Territory and the Ancient World Group considering the publication of A. T. Fomenko’s *Methods of Statistical Analysis of Narrative Texts and their Applications to Chronology*” an absolute impossibility”. The historians demanded the publication of the book to be stopped in the most categorical way, and thus the typesetting of the book was recycled.

The Nauka Publishing House planned to publish our book titled *The Geometrical and Statistical Analysis of Star Configurations. The Dating of the Star Catalogue of Almagest* authored by A. T. Fomenko, V. V. Kalashnikov and G. V. Nosovskiy in 1991. It was reviewed and submitted for publishing. How-

ever, when a significant part of work had already been done, the Nauka publishing house all but ceased its publishing activity due to the change of the political and economical climate in the country. The book was published later, in 1995, by the Faktorial Publishing House that had received the prepared materials from Nauka, which had subsequently resumed work and published two more of our books on chronology in 1996 and 1997.

As we can see, the release of A. T. Fomenko's *Methods* in 1990 was followed by a break of sorts. After that, starting in 1993, a number of books covering the current stages of our research eventually got published. This was when the term *New Chronology* had been coined in reference to the chronology that was beginning to emerge due to the application of our new dating methods. It was new in the sense of differing from the one still deemed official today, that of Scaliger-Petavius, and should have really been called *the Correct Chronology* due to its freedom from the errors of the Scaligerian school.

The publication of books on the new chronology was undertaken by a number of Muscovite publishing houses: MSU Publishing, the MSU Educational Centre of Pre-University Education Publishing, as well as the publishing houses Nauka, Faktorial, Kraft, Olimp, Anvik, and Delovoi Express. Outside Russia our books on chronology were published in both English and Russian by Kluwer Academic Press (the Netherlands), CRC Press (USA), and Edwin Mellen Press (USA). In 2000-2003 the entire material was collected, processed and arranged as the seven volumes of *Chronology*. What you are now holding in your hands now is the first volume of seven.

Starting in 1995-1996, a large number of articles discussing our books on the new chronology began to appear in various newspapers and magazines. Most of them expressed two polar points of view. One camp enjoyed our books a great deal, whilst the other was positively infuriated by them. About a hundred of such articles appeared every year; their numbers surged dramatically in 1999-2000.

In 1998, the Free Russia radio station had been broadcasting a series of radio programmes for over six months, where Y. S. Chernyshov brilliantly related the contents of our books. Namely, he had read the nearly complete text of the two of our books on the

radio – *The Empire and The New Chronology of Russia, England, and Rome*. In addition to that, the first couple of chapters of *The Biblical Russia* also received a reading. The programmes were resumed in 2001, but ceased shortly after that, despite Y. S. Chernyshov being ready to continue with them.

In 1998, seven series of the Night Flight programme on TVC (produced by ATV Studios aka Author Television, hosted by A. M. Maksimov) featured A. V. Podoinitsyn, a Muscovite economist and a member of the informal “New Chronology” organization as their special guest. A. V. Podoinitsyn had related the main points of our research and answered a great many of the viewers’ questions live. The programmes had caused a great resonance.

In 1998, we were telephoned by World Chess Champion G. K. Kasparov. It turned out that he had read quite a few of our books, and, having compared the points we were making with his own concept of history, decided most of them were valid. He shared some of his ideas and observations with us, and we deemed some of them to be worthy of inclusion into our subsequent works (with references to G. K. Kasparov). Apart from that, G. K. Kasparov had made a few brilliant public addresses advocating the new chronology, one of them as a guest of Night Flight following in the footsteps of A. V. Podoinitsyn’s conversations with A. M. Maksimov. We are grateful to G. K. Kasparov for his having found and given us the unique 1771 edition of the *Encyclopaedia Britannica*, where we found a large number of valuable and interesting materials confirming and extending the conclusions that we had reached. G. K. Kasparov relates some of his points in the preface to our *Introduction to the New Chronology*, 1999, Kraft Publishing.

In 1999, the prominent writer, sociologist, logician, and philosopher A. A. Zinoviev, who had just returned to Russia after many years spent in emigration, got in touch with us. Having read some of our publications, he had decided that our concept was generally a correct one, concurring well with his own research in the field of history and historical falsifications. He offers some of ideas in the preface to the new edition of our *Introduction to the New Chronology*, 2001, Kraft Publishing.

In 1996, our materials on the new chronology started to appear online. The number of related web

sites keeps on growing and at the moment there are about ten of them in Russia and at least one in Germany, which is the brainchild of Professor E. Y. Gabovitsch (Karlsruhe, Germany), the founder of the new German Salon of History – the institution where the new chronology has been discussed very actively over the last couple of years. E. Y. Gabovitsch has also helped us immensely with archive research he had conducted in Germany. A number of valuable ideas and considerations of his has helped reconstruct the true history.

The web site that is currently becoming increasingly popular in Russia, offering constant discussion opportunities for both proponents and opponents of the new chronology can be found at newcrono.ru

The reaction of historians during the period of 1990-1998 had been rather lukewarm, and didn't go beyond the odd occasional article whose authors didn't even bother to give scientific counter-arguments but merely expressed their disapprobation. The radical change came about in 1998. One of the Presidium sessions of the Russian Academy of Sciences gathered with the sole purpose of discussing our research.

Later on, the History Department Bureau of the Academy was called for a special session, and the issue was also discussed during a subsequent session of the Mathematics Department Bureau. The History Department Bureau proposed an entire combat plan for opposing the new chronology, which had been implemented most visibly in December 1999, when the History Department of the MSU organized a large conference suggestively enough named "The Myths of the New Chronology". The main point of the conference agenda was that of a categorical deprecation of our research, and the conclusion was made that the new research is to be pronounced perfectly unacceptable, as well as that all research concerning the New Chronology was to be banned, and its authors reprimanded severely. (See details in CHRON7, Appendix 4). A rather amusing process commenced shortly afterwards. The materials of this conference were published several times under different titles and covers, with minute variations. There are seven (!) such books published currently, all duplicating each other, and it seems as though we haven't seen the end of it yet. We familiarized ourselves with the criticisms offered most thoroughly, and learned that the

historians hadn't managed to have found any original counter-arguments. The material had been presented in a more "scientific" and "advanced" manner, and considerable progress had been made in the fine art of attaching labels. We had written a detailed reply, see CHRON7, Appendix 4.

Starting with 1996, a number of books proving the falsity of Western European mediaeval chronology were published by German scientists (see CHRON7, Appendix 3). However, the authors of works appear to misperceive the entire scale of the problem, thinking that several minor local corrections of the Scalligerian chronology should suffice. This is a mistake that they need to become aware of, prior to succeeding in any of their endeavours. At the same time, the critical part of those works is carried out thoroughly enough. The first book that has to be mentioned in this respect is Uve Topper's *The Great Campaign* on the falsification of history, as well as *C-14 Crash* by Blöss and Nimitz that conveys to us the knowledge of radiocarbon analysis (see bibliography).

Over the last couple of years, our works on the new chronology, apart from the mere arousing of interest, have teemed a line of research based on the results we had achieved in reconstructing universal history as related in the latest books of the *New Chronology* series. First and foremost, one has to mention the efforts of the world chess champion G. K. Kasparov in this respect, such as his public addresses on the issue and the articles he had written for a number of magazines in 1999-2001. In particular, he had organized a number of public disputes at the St. Petersburg University of Humanities. The years 2000-2001 have also been marked by the publication of such books as *The True History of Russia* and *Multi-optional History* by Alexander Goutz, a mathematician from Omsk, and N. I. Khodakovsky's *The Temporal Spiral*. A. Boushkov's *The Russia That Never Was* is also visibly influenced by our works. This list can be continued. Despite the fact that the key chronological issues are not related in these books, they unravel several new and interesting facts that confirm our general concept.

However, we must firmly disagree with a number of ideas voiced in these works and ones similar to them. Being in favour of such activity in general, we beg to differ between these works and our scientific

research of chronology. We regard ascribing what we clearly did not say, or speaking on behalf of the *New Chronology* without our consent as perfectly unacceptable. All that we deem worth relating is either already published in our books, or will be formulated in the upcoming ones. They remain the original source for the entire concept of the *New Chronology*. It is also unacceptable to ascribe our ideas and results, leave alone the basic postulates of our concept to others. We thoroughly deprecate the use of the term that we coined along with the entire concept of *New Chronology* for the propaganda of views that we do not share.

Let us mention another interesting effect. The recent publication of certain authors is clearly deriva-

tive, spawned by the “echoes” of the *New Chronology*. Such “informational reverberations” are doubtlessly of use; nevertheless, one has to bear in mind that they neither constitute the essence of the *New Chronology*, nor its foundations, namely, natural scientific dating methods and the new concept of history that evolved from those as our hypothesis. *All attempts to replace the foundations of the New Chronology with derivative observations of linguistical or historical nature may create the illusion of being essential or evidential to the New Chronology. This is untrue. The concept is based on statistical and astronomical dating methods first and foremost.*

*A. T. Fomenko, G. V. Nosovskiy,
April 2001*

Anatoly T. Fomenko

Chronology 1

First volume of *History: Fiction or Science* series
by A. T. Fomenko and G. V. Nosovskiy

INTRODUCING THE PROBLEM
A CRITICISM OF THE SCALIGERIAN CHRONOLOGY
MATHEMATICAL AND STATISTICAL DATING METHODS
ECLIPSES
ZODIACS
GLOBAL CHRONOLOGY

Publisher's Advice

History: Fiction or Science? contains data, illustrations, charts and formulae containing irrefutable evidence of mathematical, statistical and astronomical nature. You may as well skip all of it during your first reading. They were included in this introductory volume as ammunition for your eventual discussions with the avid devotees of classical chronology. In fact, before reading this book, you have most probably been one of such devotees.

After reading *History: Fiction or Science?* you will develop a more critical attitude to the dominating historical discourse or even become its antagonist. You will be confronted with natural disbelief when you share what you've learned with others. Now you are very well armed in face of inevitable scepticism. This book contains enough solid evidence to silence *any historian* by the sheer power of facts and argumentation.