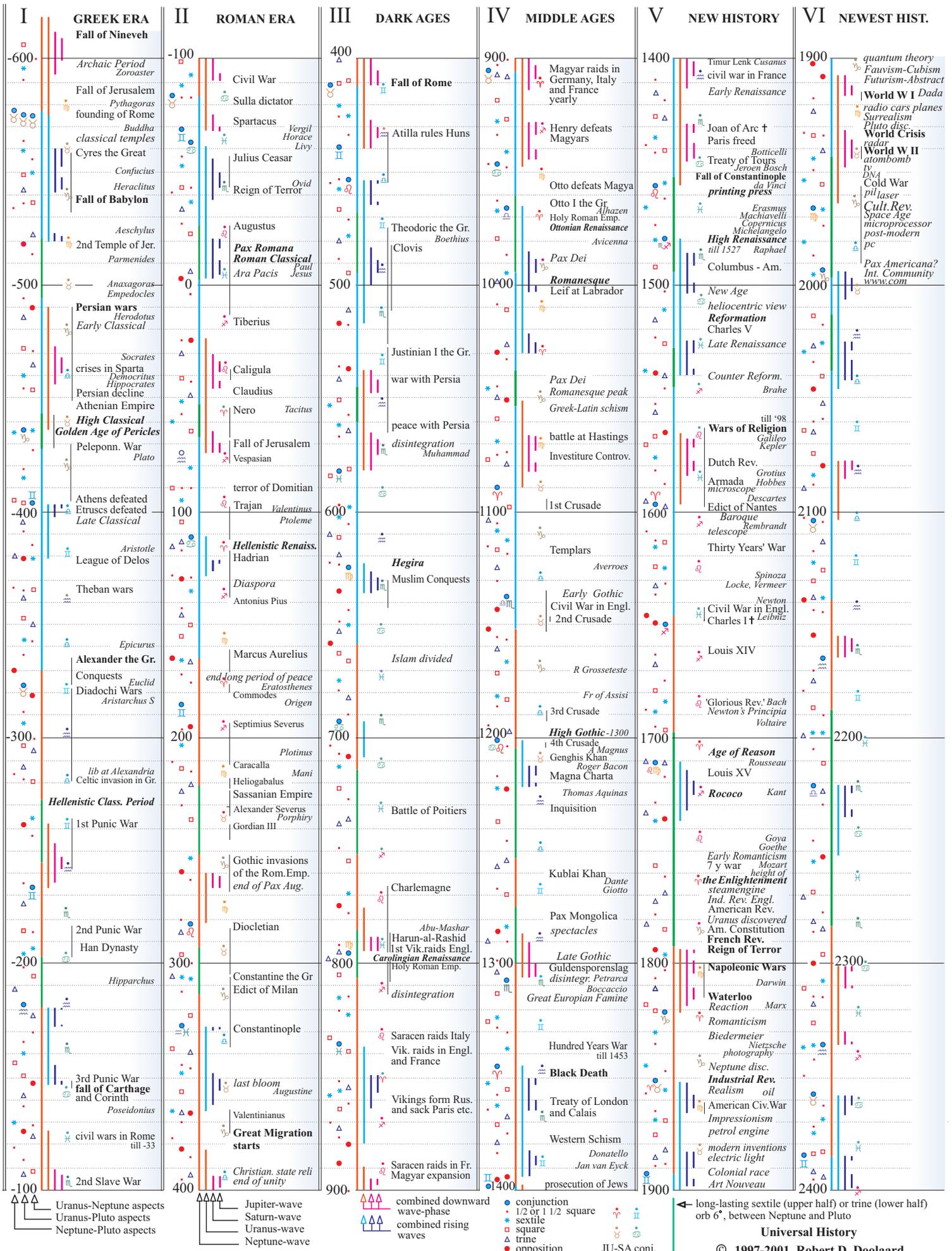


A Brief Introduction to Waves (cyclic indexes), by Robert D. Doolgaard



← long-lasting sextile (upper half) or trine (lower half) orb 6°, between Neptune and Pluto
Universal History
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How is a Wave calculated?

Taking 2000 (March 21st) as an example, we begin with the cyclic index of Uranus. Firstly the distance (angle) between Pluto and Neptune is calculated, that is, 53 degrees. To this we add the angular separations of Uranus-Pluto and Uranus-Neptune, respectively 66 and 13 degrees, obtaining a total of 132 degrees. The graph begins at 100 degrees; a point is set for Uranus at 132.

To obtain the cyclic index of Saturn, the angular separations of Saturn-Pluto, Saturn-Neptune and Saturn-Uranus are added to 132.

To acquire the cyclic index of Jupiter (i.e. Barbault's original Cyclic Index) the same procedure is followed, with these results:

1. Neptune-Pluto	53 degrees
2. Uranus-Pluto	66
3. Uranus Neptune	13
	---- +
	132 degrees = the Uranus-wave
4. Saturn Pluto	151
5. Saturn Neptune	98
6. Saturn Uranus	85
	---- +
	466 degrees = the Saturn-wave
7. Jupiter-Pluto	144
8. Jupiter-Neptune	91
9. Jupiter-Uranus	78
10. Jupiter-Saturn	7
	---- +
	786 degrees = the Jupiter-wave

These calculations are made for each of the 300 years. The points are set out on a graph. Since the term 'cyclic index of Uranus' etc. is rather a mouthful, I will from now on use the terms the Uranus-wave, Saturn- and Jupiter-wave.

These planetary waves are marked on my historic overview with blue and red lines, but only during equal phases.

To illustrate the simplicity of this method:

0 - 180	180 - 0
ascending	descending
outgoing	incoming
plus-phase	min-phase
blue-	red line (for NE-PL)

Astronomical classification

In the western tradition, history is mostly separated into periods of 1000 or 500 years:

500 BC to 500 AD: Antiquity.
500 AD to 1500 AD: Middle Ages
1500 AD and later: Modern History.

These periods can again be divided into periods of 500 years, as shown by the column headings on the graph. Therefore each of these contains a historic character, as well as synchronizing with the Neptune-Pluto cycle (the Neptune-wave) of about **493** years.

Although Pluto has the most eccentric orbit of all the planets, it is nonetheless completely in accordance with that of Neptune. This has not only resulted in a harmonious **2 : 3** relation in their

orbiting time, but also in a 'harmonious constant' when Pluto maintains the same distance to the sun as Neptune (about 30 A.U.) over a certain period of time. These periods can be recognized as extensive sextiles during the outgoing ascending phase, and as extensive trines in the descending phase of the Neptune-wave. They are marked in green lines.

The ratio between orbit times of respectively Pluto, Neptune and Uranus is **2 : 3 : 6-**. Uranus is therefore not quick enough to keep up with Pluto and Neptune. In whole numbers the ratio is: **16:24:47**. In the synodic periods : PL-NE : NE-UR : PL-UR the ratio is **8:23:31**.

This resulted in a triple conjunction (PL-0-NE-0-UR) about **677 B.C.**, to be followed **8x493** years later in and around **3369**. The first 6 of these 8 synodic periods are included in the historic overview.

Synchronism.

In order to understand the historic overview more clearly, first look at those periods in which all the wave-phases are descending, that is, where all the lines are red. These are recorded as some of the least pleasant periods in history.

Then take a look at those periods in which all the lines are blue, indicating that all the waves were in an upwards phase. Notice especially all the blue paralleled by green (prolonged harmonious aspects between Neptune and Pluto as mentioned above). These represent the highlights. Periods of the greatest contrast are to be found in the first 100 years of each column. Every time one era collapses (red lines), it is followed by a new period of growth (blue lines, preferably alongside green ones).

The great conjunction between PL, NE and UR around **575 B.C.** is especially important. This coincides with the Axenzeit (Axial Age) as described by the German philosopher Karl Jaspers.

This period corresponds with the transition from the people whose language belongs to the Semitic and Hamitic tradition to that of the Indo-Germanic. Whereas during unanimously descending waves **Nineveh** was totally destroyed (-612), which resulted in the end of the Assyrian supremacy, this region would, during an unanimously ascending wave, a little more than a half-century later, be taken over by the **Persians**.

The advantages? This great conjunction also occurred simultaneously with the birth of several ethicists, even though their spiritual paths varied. Among these great philosophers were **Lao-tse, Confucius, Boeddha, Deutero-Isaiah, Zarathustra and Pythagoras**.

It is now known that the government of the Persians in the 6th century BC was less cruel than that of their predecessors, the Assyrians. This change is thought due to the influence of Zarathustra's teachings.

This is also the time that the transition was made in Greek culture from myth to history, from magic to philosophy and science. And what about the transition from tyranny to democracy? From subject to free citizen?

The American historian Henri Bamford Parkes says over this period:

"It would be futile to engage in mystical speculation about the problem presented by the coincidence of dates; but it is impossible to avoid the suggestion that, at rare intervals in history, factors in human affairs make for the emergence of novelties that cannot be satisfactorily explained by any acceptable theory of causation. The intellectual achievements of the sixth century, considered together, appear to constitute a group of mutations in man's spiritual development comparable to what happens when a new species emerges in biological evolution."

The development of Greek philosophy began around the great conjunction of 577 BC with the emergence of **Thales of Milete**, the birth of **Pythagoras**, progressing via natural philosophy, then via **Socrates** and **Plato**, and ending with the demise of **Aristotle** (therefore during NE-180-PL).

Excavation has shown that Rome was founded by the Etruscan Tarquinius Priscus about **575 BC**, therefore also during the great conjunction. The only period that all the waves are in the upward phase at the same time as an extensive PL-NE harmony, is during the **Augustinian Renaissance**. Highlights: -17 BC: Century Celebration – the announcement of world peace -the **Pax Augusta**. 9 BC: Consecration of the Altar of Peace (**Ara Pacis**) on the Field of Mars (Campus Martius). In contrast, during the phase of unanimous descending waves, in addition to two incoming squares from Uranus, is the **Sack of Rome in 410 AD**, in a period of maximum tension and with all waves descending.

Looking at the overview from the present back in time to periods when there were unanimously descending waves (red lines) the following events stand out:

The Spanish Civil War and World War II
The Balkan Wars and World War I (not until 1919 does the Jupiter-wave begin its ascent).
From the **Reign of Terror** following the **French Revolution** till the **Battle of Waterloo**.
The religious wars of the second part of the 16th century, with the darkest period that of the **80-Year War**.

The phenomenon Renaissance

In periods when all the lines are blue on the overview (i.e. all the waves are ascending), in combination with green (extended sextile between Neptune and Pluto). These are coinciding with flourishing periods in the history of European culture.

The historic overview is divided into centuries of which 5 are in one column (i.e. 500 years). Since a synodic period of Neptune-Pluto lasts 493 years, it is 7 years shorter than the length of a column. Therefore the NE-PL conjunctions rise comparatively horizontal to each other, as also the NE-PL sextile-periods (green).

As the cycles of Uranus are not completely synchronistic with those of NE and PL, being too

close to Neptune, the waves on the overview are lower in horizontal comparison. Due to these opposing horizontal comparatives, each column shows other combinations between blue lines (ascending waves) and green. Sometimes they alternate with one another, as in the Greek column, sometimes they parallel one another as during the Augustan Renaissance in the second column, and during the Voyages of Discovery at the end of the 15th century. It would lead too far afield to explain here the differences in historic dynamism as related to the NE-PL harmony on the one hand, and to ascending waves on the other. In 'Waves' I have already pointed out the synchronism of high peaks in European culture with the extensive harmony in the NE-PL cycli. To limit the subject here to sextiles, these occur during:

I The Golden Age of Pericles, the high point of the **Greek Classical Period**.

II The Augustan Renaissance (or classicism), the continuation of **Greek** (Hellenistic) culture but with **Roman** means.

III This cycle begins sadly with the Sack of Rome (red), but historians speak of a 'golden era' during the reign of **Theodorik the Great** in Italy.

IV The Ottonian Renaissance, an attempt to reinstate the Roman Empire and the blossoming of Romanesque art.

V Height of the Italian Renaissance in Italy, late 15A.D., beginning of the 16th century. Greatly inspired by classical antiquity.

It is striking that these periods of florescence were inspired by earlier 'Golden Ages' during a similar NE-PL harmony.

Will the coming time bring similar events, now we are entering similar wave-phases? Undoubtedly the union and expansion of Europe will come to mind; that development would seem to be in accordance with the times, in contrast with the first half of the 20th century, when descending wave-phases accompanied the decline of Europe. In correspondence with the time of the Renaissance, which arose from the ashes of the 100-Year War, we are experiencing once again a 'new age', whether or not this seems evident. It will become clearer in the 20's of the present century, when the best period ever arrives : blue lines alongside green, accompanied by harmonious aspects in the three cycles of the three outer planets. This has never occurred before.

Reference: *Golven* (1986) (Waves)
Golven en Oorlogen 1700-2000 (1993)
(Waves and Wars)
Universele geschiedenis
(1997-2001) (Universal History)
Golven en Oorlogen 1500-2000 (2004)
(Waves and Wars)