

# From first day in Genesis to Exodus

Hypotheses and  
scientific approaches to  
human memory of four  
great catastrophes

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# Introduction

- In ancient texts, both sacred (Bible, Koran, Rig Veda... ) or of the epic type (Homeric, Iranian, Kirghisian, Scandinavian epics...), we face events of exceptional nature, often catastrophic. These can be interpreted symbolically or as the memory of real events, which may now be modeled mathematically.
- We shall consider some of these cases.

# Catastrophes in ancient texts

- In Plato, *Timeus* and *Critias* (but likely known to Ellanicus and Pythagoras, from Egyptian source or even Indian, and to the author of *Nihongi*), it is stated that Earth was affected several times by catastrophes of extraterrestrial nature, characterized by fire and water. Three such events were very great, namely the last one, the Deucalion flood, and the first one, which took place 9000 years before Solon's time, with the destruction of Atlantis. In Herodotus, Pomponius Mela (and in the Koran in a special way) it is stated that the sunrise and sunset positions of Sun changed three times, a fact that if true should relate to catastrophic events.

# Four cases of memory of very ancient events

- Most ancient events are associated with the four vedic yugas, once the real value of their chronology is decrypted
- 4 great catastrophes in Mayan tradition
- 3 great events in Plato-Egyptian tradition of Atlantis
- 7 events relate to the 7 days of creation in Genesis, each one being 1000 years

# A memory of 4 catastrophes

- In the Mayan codices that escaped the bonfire of bishop Diego de Landa, and in Popul Vuh, 4 great catastrophes appear, the first one from fire. This statement suggests that America preserved a memory older than that in the Old World, since the fire catastrophe fits well an event discovered after year 2000: the impact circa 10.900 AC of a large asteroid over Canada. Such event terminated the Clovis era, burned forests over million square kms forming the *black mat* layer, and made climate more severe.

# A wind effect of the fire catastrophe

- According to the Mayas, it led to a very windy period, which may explain the geologic evidence in Europe of forests being often destroyed by hurricanes.
- It also would explain the strange Platonic statement that Atlantis was defended by *winds* by a chain of hills. Notice that Atlantis had been in existence a few centuries before its destruction. Its date of foundation may be given by the beginning of the third yuga

# An explanation of events in the days of creation in Genesis

- According to Talmudic scholars each day of Creation is a period of 1000 years
- Since the 6<sup>o</sup> day gives creation of Adam and can be dated at 5500 BC, then the first day starts at 10.500 BC and can be related to the impact in Canada
- Notice that the second day corresponds to Atlantis destruction, i.e. end of Ice Age



# A look at the first day

- The impact over 5 km deep ice would lead to a many thousand km high column of ionized ice, soon becoming extremely bright
- It would be visible even in Europe, Africa, parts of Asia, being associated to a sudden flash of light, lasting probably several minutes
- So we may explain the statement FIAT LUX



# Other first day effects

- After a few hours the sound of the impact would reach the Old World as a long rumble, and go on for several days quasi periodically. Hence we may explain LOGOS
- Also after many hours the wind from the event would reach the Old World, albeit not as violent and hot as experienced in Central America. Coming from the Atlantic, here we can see the SPIRIT – RUACH – MOVING OVER THE WATERS

# The Atlantis catastrophe

- The story of Atlantis presents a civilization whose center is beyond the Atlantic, having precise geographic features. It was destroyed about 9500 BC by a catastrophe characterized by a giant tsunami lasting several days. After the event, memorized by people in Ethiopia who repopulated Egypt a thousand years later, the Atlantic Ocean was no more navigable and the island disappeared.
- The geographic data in Plato agree with Hispaniola in the Caribbeans, named by the Taino local inhabitants **Quisqueya = MOTHER OF ALL LANDS**

# Atlantis = Hispaniola = Quisqueya

- Quisqueya has mountains reaching 3000 meters, close to the shore, and many rivers and lakes
- It is rich in copper mines (the orichalc?) and gold, facts that led to the destruction of the natives by Columbus.  
It has a flat area extending from east to west with many rivers and protected by hills and mountains from the northerly winds
- The coasts are steep and can be imbedded in a rectangle with the size given by Plato to the irrigated plain.
- The capital city was located probably on the southern side
- Bartolome de las Casas describes Hispaniola like Plato, rich of mountains, rivers, fertile, with a population of over 3 million.

# ATLANTIS EVENT AT THE END OF LAST ICE AGE

- The time given by Plato for the end of Atlantis corresponds to the time for the end of the last Ice Age, precisely established by sedimental analysis
- There is now evidence that the Ice Age terminated very fast, see the book of two Oxford geologists **ICE AGE ENDED IN LESS THAN THREE YEARS**
- Analysis of sediments in northern Atlantic has shown hat temperature increased over 25 degrees in less than 5 years (Petersen et al)

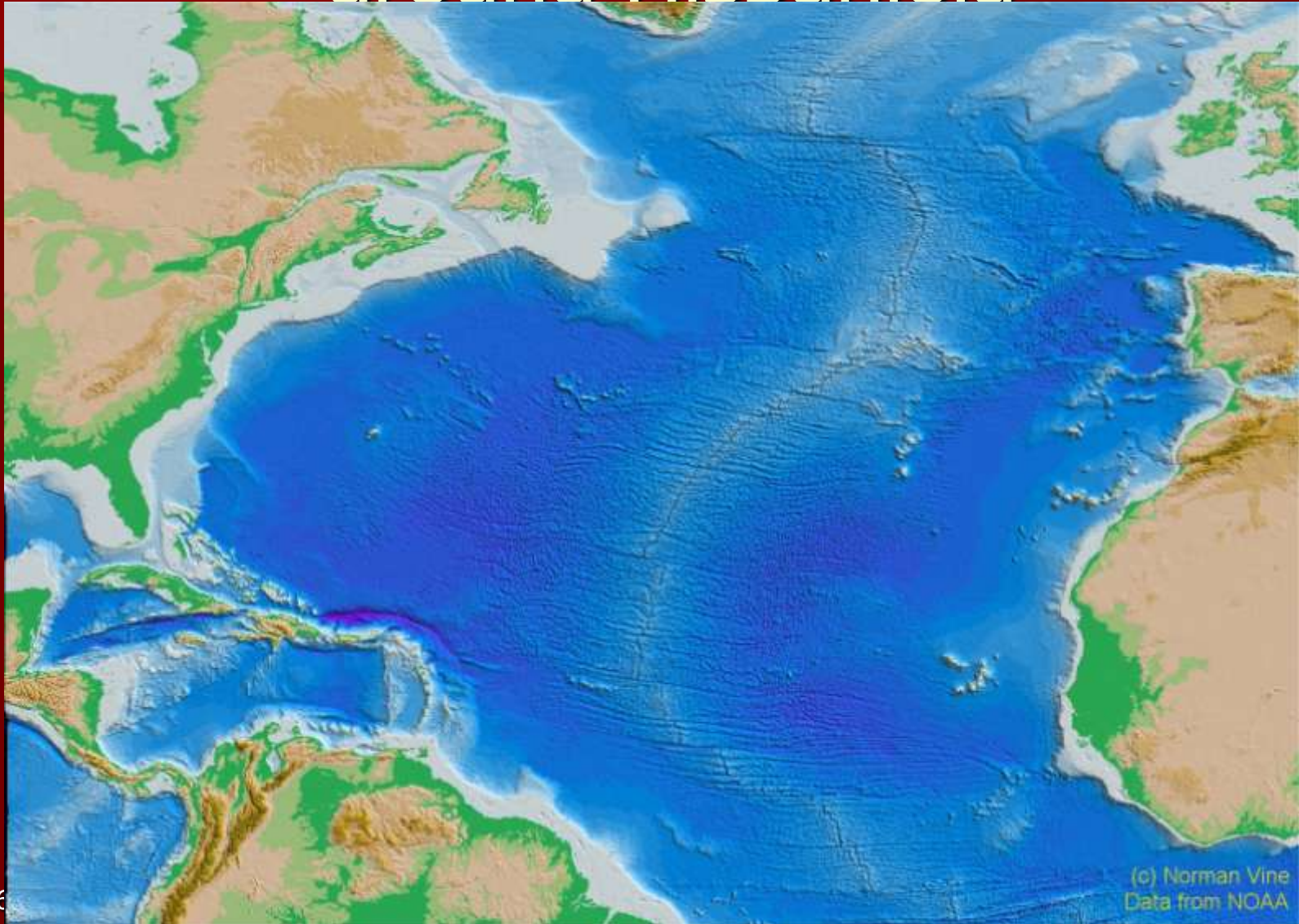
# Map of Hispaniola

## Hispaniola





# Atlantic ocean, notice deep sea around Hispaniola



# Possible extraterrestrial causes

Fast end of an ice age can be explained by two extraterrestrial events:

- Asteroid-comet oceanic impact, fracturing the thin oceanic crust and letting magma pour out with production of warm rains
- Close passage of a large object leading to some deformation of Earth due to gravitational tide, with again magma pouring out of oceanic ridges
- First cause less likely for last Ice Age since no crater has been found at that age



# Close passage of a large body and capture of Moon

Ancient data suggest that a large object passed near Earth, possibly the Pachamacac of Chimu, or the Nibiru of Sumerians. Possibly from it Earth acquired the Moon.

- A time before the Moon is quoted in the Bible, Job 25-5 and Psalm 72-5
- For the Hindu the Moon was born from a boiling sea
- For the Malekula of New Guinea: the air was filled with vapours, when these disappeared the sea level had increased and the Moon shined in the sky
- Stated in Democritus, Anaxagoras, Aristotle, Apollonius, Plutarch, Ovid, Hyppolitus, Lucian....

# Mathematical analysis of Moon's capture

- Capture impossible in a 3 body system with only gravitational forces, but no problem in a 4 body system. Analysis planned.
- Turkish symbol of half Moon with a five pointed star inside and the passage in Censorinus  
**ARCADIANS CLAIM THAT BEFORE THE MOON EXISTED THE YEAR CONSISTED OF 3 MONTHS**  
suggest the loss of a previous satellite: Mars?
- If Mars was lost, there are arguments that it approached Earth closely every 54 years until a special event circularized its orbit

# The Deucalion catastrophe

- The Deucalion catastrophe following Orosius took place at the time of Exodus, of India's invasion by Dionysus, of migrations and climatic troubles, and was due to the explosion of Phaethon
- Can be dated at 1447 BC, at the end of Egypt's Middle Kingdom by the invasion of the Hyksos-Amu-Amalek from Turan, see Velikovsky
- Homer does not quote Deucalion but refers to Phaethon and Lampos as visible at sunrise. Such bodies were possibly perturbed, Lampos crashing over Africa (Mauritania, S. Egypt?) and Phaethon spiralling towards Earth

# The Lampos crash: some effects

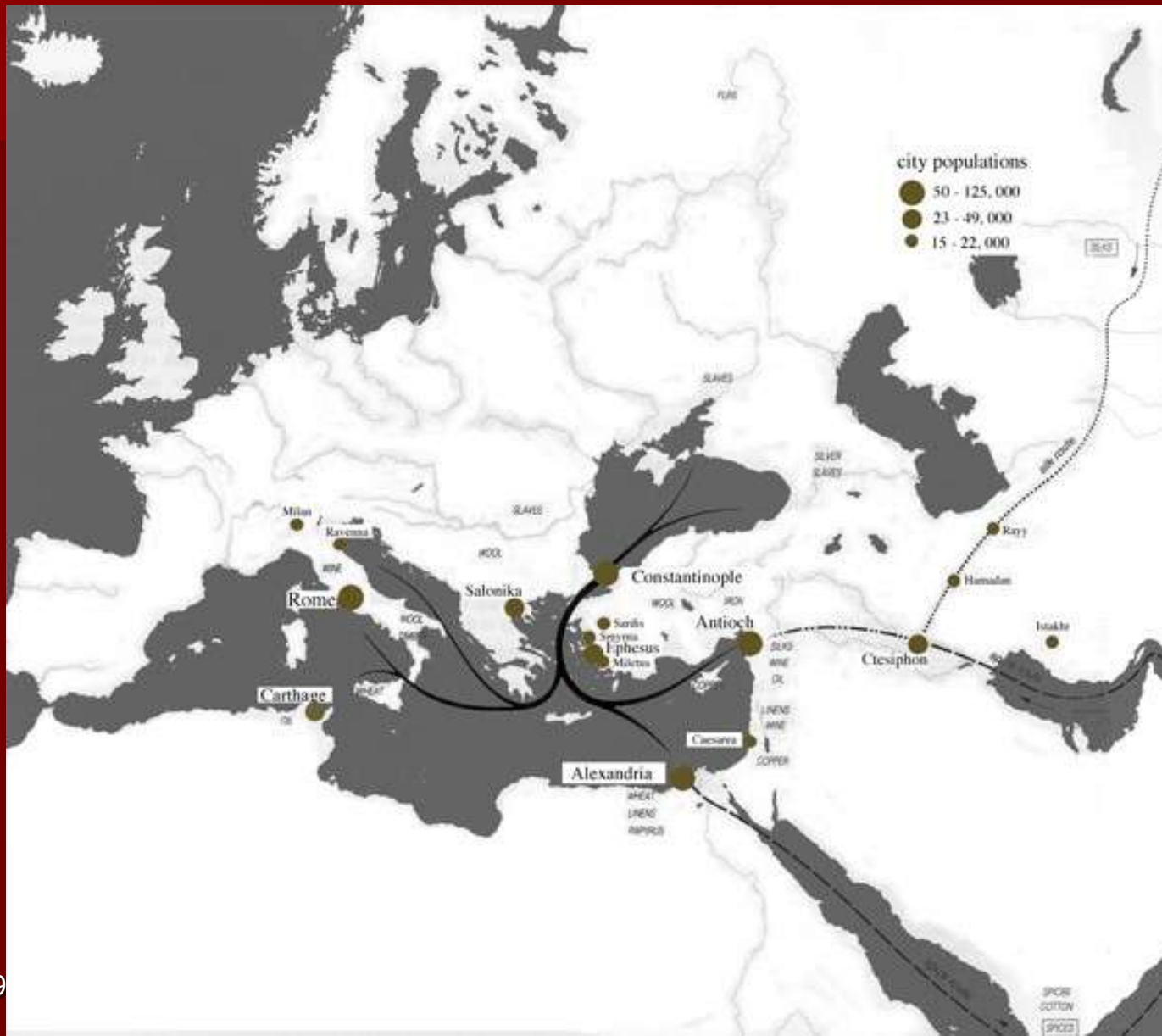
- Assuming for Lampos and Phaethon sizes of 1-3 km, Lampos crashing over Africa would spread much dust in the atmosphere and would start the eruption of the about hundred volcanoes in Dancalia, Earth most unstable region
- Such volcanoes, partly covered at that time by salty water, would produce blood red pumices, falling partly over Indian Ocean ( called Red Sea for this reason) partly over Ethiopia
- The monsoon would wash pumices into Nile, leading to the chain of events known as the Ten Plagues

# Phaethon explodes in atmosphere over northern Germany

- Once close to Earth by spiralling, Phaethon fragmented over Arabia, a fact seen by Moses when he was blocked in Pi Hahiroth between the Egyptian army and the mountains, his road blocked by rockfall. Trajectory recorded by Babylonians
- It entered the atmosphere over Mediterranean, set fire to palaces of Crete and forests of Central Europe, and exploded over Eider river in northern Germany
- There was an earthquake, followed by an atmospheric hot wave or wind, generating tsunamis in Mediterranean, Red Sea and Atlantic



# Phaethon moved from Yemen to Jutland passing over Dead Sea



# NUWEIBA O PIHAHIROT



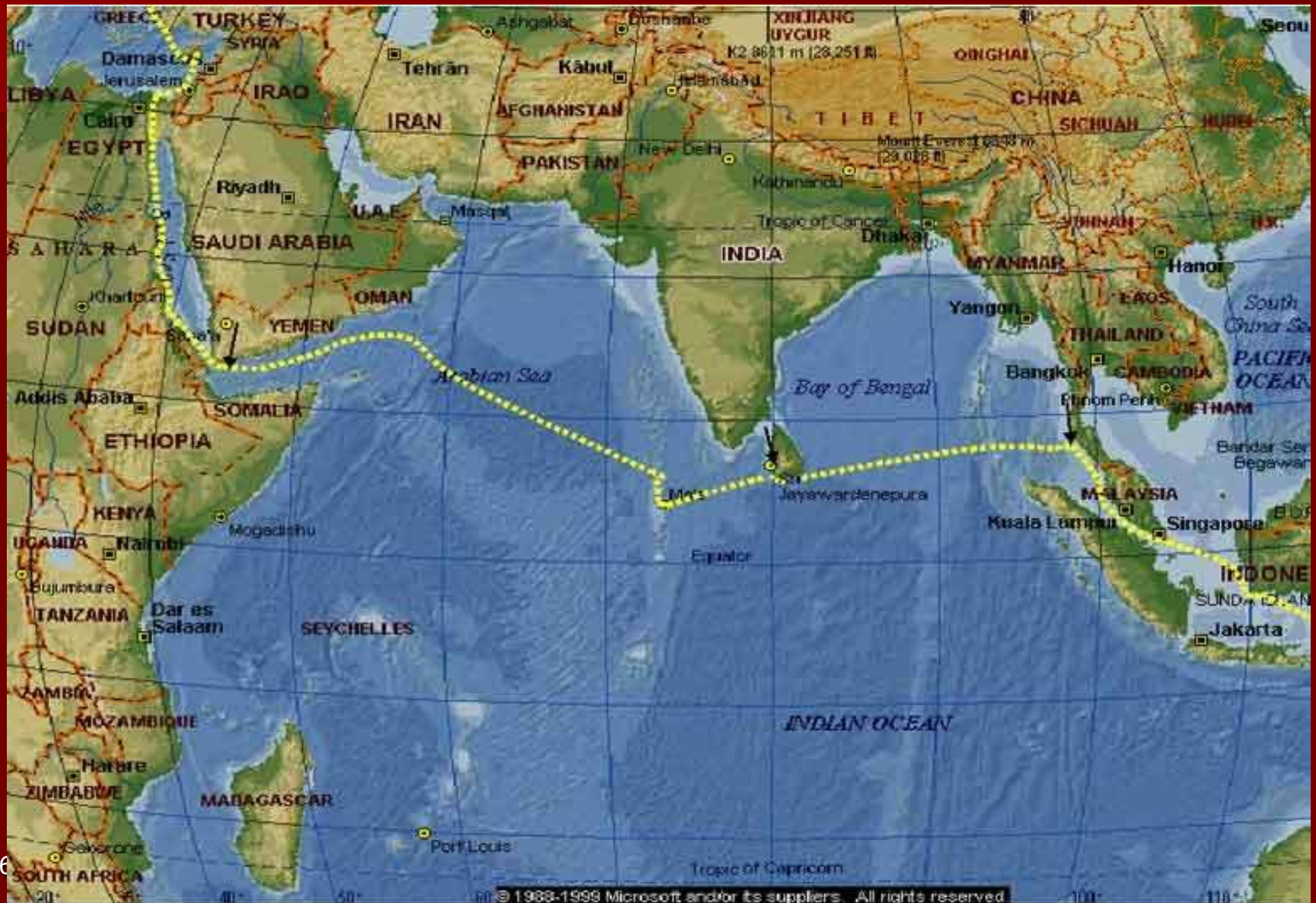
26/08/2009



# Some notes on Nuweiba

- In the north side a road exists between sea and mountains, as described in Josephus
- The wadis in the plain can be canalized becoming small ports, hence name **PI HAHIROT**
- Moses probably arrived from Wadi Watir
- Sea in front of Nuweiba is shallow. Karolinskaia Institut expedition found unexpected corals of special shape. A submarine bridge allows sea appear as divided if sea level decreases some meters

# Dancalian volcanoes eruptions affect Ethiopia, Arabia, Indian Ocean



# Modeling Phaethon explosion

- Phaethon explosion is a super Tunguska event. Possibly one million MT versus 500
- Effects of atmospheric wave and generated tsunamis can be calculated in principle, this being a very complex problem requiring huge calculations and many data
- Calculation parameters involve energy and height of the explosion
- Calculation interesting in relation to possible impact on Earth of Apophis, circa 2025



# The second catastrophe: the Biblical Flood

- The second catastrophe in Plato is certainly the biblical flood, where Noah survives on mount Judi in Armenia, about 30 km south of Ararat, in Turkey, date about 3161-3171 BC
- The same Flood appears in other traditions, with different survivors, e.g. Utnapishtim or Manu. According to Talmud many boats were built, some survived the event, most were destroyed, the event being expected, also for the many earthquakes. Noah visited Enoch "in the sky" (in Garden of Eden? now Hunza valley)

# Other survivors

- In Sumerian and Akkadian traditions the survivor is Ziusudra or Utnapishtim; visited about 2500 BC by Gilgamesh, on mount Nimush, now the Anye-machen range, in Tibet, sacred to the Ngolok, surrounded by river Maqu, a Sumerian name for the Yellow River !
- According to Avesta a survivor is Manu, probably the Mannu of Germans. He survived in a cave on the top of Montisola in lake Iseo or Siviano. Ancient local names suggest contacts with India via Red Sea, Wadi Hammamet, Nile, Mediterranean, Po and river Siviano=Oglio

# Mount Judi lies where borders join of Armenia, Iran, Turkey



# Causes of second catastrophe

- The second catastrophe was due to an event possibly unique in the history of Universe, *not to be repeated*, says the Bible
- It was characterized by arrival of water from the depths of the high and of the low
- Hypothesis of Ackerman and mine that the cause was the close passage of Mars, which lost its oceans and its core, that became planet Mercury. The length of the year changed from 360 to 365 days. This event is hinted by an enigmatic passage in Plutarch, and...



# Lesser catastrophes

- Following Herodotus and Pomponius Mela twice Sun rose in the east and twice in the west; with no changes in climate and no special morbidity
- The Koran praises the God of Orient and of Occidents, in a sura always interpreted as poetic utterance
- The above can be explained by three inversions of the rotational momentum of Earth. Such inversions may or may not also involve inversion of the stellar vault

# How rotation axis can change

- A few degrees variation of the axis angle towards ecliptic can follow an asteroid impact, whose velocity vector points not too close to the Earth center, see Barbiero who used gyroscope theory
- Same effect can follow a close passage of a large body, see Baltensperger and Woelfli

# The inversion case

- A variation only of sign and not direction of the angular rotational velocity vector keeps the equatorial bulge, reducing the consequences of the event. Perhaps only “silent earthquakes” would take place.
- Spedicato shows existence of 2 or 4 states with same total energy and total angular momentum, by considering both rotation and revolution, via Kepler’s third law. One state is close to present one and might be reached by a small input.

# Effects of the inversion

- Distance Earth-Sun changes about one thousandth, hence received solar energy one millionth: undetectable!
- Day's length changes about 8 minutes, detectable possibly at circadian level
- Number of days in year would change from 363 to 365, implying the need to correct the calendar, i.e. to establish the solstitial or equinoctial days

# When there were inversions?

- Signs of an inversion taking place: strange movements in celestial bodies, and possible modest tsunamis
- Possibly one inversion at end of Indus-Sarasvati civilization, circa 2000 BC, when megalithic monuments underwent modifications
- Another 1407 BC, Ogyges flood, Sun “stopped at order of Joshua”, 40 years after Exodus
- A third one circa 700 BC, when many calendars were changed (Numa Pompilius...)
- At time of Biblical Flood, which seems to have happened in Spring but followed by Autumn

# Catastrophes in last 2000 years

- The greatest was about 546 AD, when several comets were seen, a few probably crashed, especially in Arabia, destroying the tribes of Aad and Thamud. Then the devastating plague of Justinian. A volcano exploded, separating Java and Sumatra, and becoming Krakatoa
- The last one in 1178 when probably fragments of an asteroid, whose core hit Moon, hit Pacific Ocean leading to social discontinuities, migrations, fires in New Zealand forests...

# When the next one??

- Impacts with comets, Apollos and other bodies always possible
- Close passages of large objects from Kuiper region also possible
- Asteroid Apophis, about 400 m diameter, in about 20 years may hit Earth with the energy of over 10.000 megatons, or will pass very close.



# EVEN EARLIER EVENTS

- Once decrypted by a simple astronomically based criterion all large numbers in ancient texts (Babylonian, Japanese, Nepalese, Indian...) are congruent and informative
- The oldest reference pertain to the first two yugas, one giving a year 29.000 BC, the other 17.000 BC. The third yuga can be associated to the foundation of Atlantis, the last one to the seven couples "creation" in the Garden of Eden

# WHAT IS THE MEANING OF THE FIRST TWO YUGAS

- The second relates to the starting of last Ice Age, the first to some event that led to a first form of civilization, with Homo Sapiens prevailing over Neanderthal
- While this is not my research field, the events can be interpreted within the scenarios developed by Cardona (Earth as a previous satellite of Saturn, an independent brown dwarf captured by solar system) and by De Grazia and Milton, who analyze electromagnetic effects